The Chemours Company
Fayetteville Works
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August 26, 2019

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Re: Submission Pursuant to Consent Order Paragraphs 12 and 11.1

Dear Ms. Holman and Mr. Burdette,

Chemours is pleased to submit the enclosed Cape Fear River PFAS Loading Reduction Plan, pursuant to paragraphs 12 and 11.1 of the Consent Order entered by the Superior Court for Bladen County on February 25, 2019. The Reduction Plan and its attachments were developed by our consultant, Geosyntec Consultants of NC, P.C. DEQ has approved Geosyntec as a third party for this work under the Consent Order.

As we have previously reported, Chemours has already implemented several actions that have significantly reduced PFAS loadings originating from Fayetteville Works to the Cape Fear River. These actions have included, among others, the cessation of process wastewater discharges, installation of new air emissions controls, lining of the cooling water channel and sediment ponds, and groundwater extraction from three perched zone monitoring wells.

The enclosed Reduction Plan proposes the implementation of seven additional actions to further reduce PFAS loadings to the River. Geosyntec has developed these recommended actions, and Chemours has agreed their implementation will support reducing loading to the River in accordance with Consent Order paragraph 12. The seven proposed actions are:

1. Capture and Treat Old Outfall 002 Water
2. Capture and Treat Groundwater from Seeps
3. Targeted Sediment Removal from Conveyance Network
4. Develop a Stormwater Pollution Prevention Plan
5. Targeted Stormwater Source Control and/or Treatment
6. Decommission and Replace Remaining Portion of the Terracotta Pipe
7. Assess Potential for Groundwater Intrusion into Conveyance Network

The seven actions proposed in the enclosed Reduction Plan are supported by recent environmental characterization work and data analyses presented in four separate reports attached to the Reduction Plan. These attached reports are the 1) PFAS Mass Loading Model, 2) Seeps and Creeks Investigation Report, 3) Outfall 002 Assessment, and 4) Terracotta Pipe Grouting Report. The PFAS Mass Loading Model report includes the characterization of PFAS in downstream raw water intakes, pursuant to paragraph 11.1 of the Consent Order.

We would also like to emphasize that our environmental data collection, characterization, and assessment efforts remain ongoing. Pursuant to paragraph 16 of the Consent Order, Chemours will be submitting before the end of this year a Corrective Action Plan, and in that Plan Chemours anticipates that it will propose additional actions to further reduce PFAS mass loading from Fayetteville Works to the Cape Fear River based on the outcome of our ongoing efforts.

***

As specified in the Consent Order, Chemours is simultaneously transmitting this submission to downstream public water utilities. We look forward to meeting with DEQ and Cape Fear River Watch soon to discuss this submission and the path forward for implementation.

Sincerely,

Brian D. Long
Plant Manager
Chemours – Fayetteville Works

Enclosure

Cape Fear River PFAS Loading Reduction Plan and Attachments

Cc:

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Francisco Benzoni, NC DOJ
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CAPE FEAR RIVER PFAS LOADING REDUCTION PLAN

Chemours Fayetteville Works, NC

Prepared for

The Chemours Company FC, LLC
22828 NC Highway 87
Fayetteville, NC 28306

Prepared by

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Geosyntec Project Number TR0795

August 26, 2019

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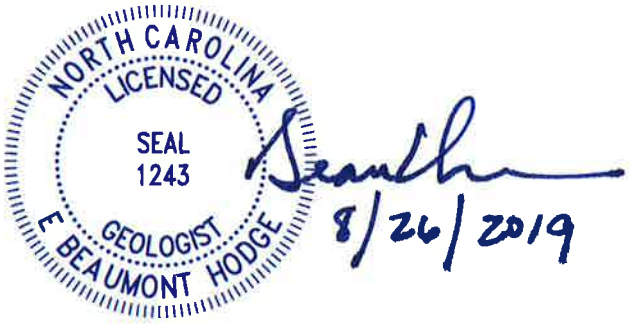
This report has been prepared under the direction of a North Carolina Licensed Geologist, subject to limitations of currently available data in an ongoing site investigation. Geosyntec Consultants of NC, PC is licensed to practice geology in North Carolina. The certification number (Firm's License Number) is C-295. Geosyntec Consultants of NC, PC is licensed to practice engineering in North Carolina. The certification number (Firm's License Number) is C-3500.



Not considered final until all signatures have been applied.

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LIST OF ATTACHMENTS

ATTACHMENT 1: Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes.

ATTACHMENT 2: Seeps and Creeks Investigation Report

ATTACHMENT 3: Assessment of HFPO-DA and PFMOAA in Outfall 002 Discharge and Evaluation of Potential Control Options

ATTACHMENT 4: Decommissioning Summary of Grouting of East-West Section of Terracotta Pipe from Chemours Monomers IXM Area

ATTACHMENT 5: HFPO-DA Loading Reductions Estimate

ACRONYMS AND ABBREVIATIONS

%	Percent
CAP	Corrective Action Plan
CFRW	Cape Fear River Watch
cfs	Cubic Feet Per Second
DFSA	Difluoro-sulfo-acetic acid
EPA	United States Environmental Protection Agency
EPA RTC NC	EPA Research Triangle Park North Carolina
ft	feet
ft bgs	feet below ground surface
HDPE	high density polypropylene
HFPO	Hexafluoropropylene Oxide
HFPO-DA	Hexafluoropropylene Oxide Dimer Acid
HP/EC	hydraulic profiling and electrical conductivity
L/s	liters per second
lbs/yr	pounds per year
mg/s	milligrams per second
MMF	Difluoromalonic acid
MSL	Mean Sea Level
MTP	Perfluoro-2-methoxypropanoic acid
NCDEQ	North Carolina Department of Environmental Quality
ng/L	nanograms per liter
NCCW	Non Contact Cooling Water
NVHOS	Perfluoroethoxysulfonic acid
PFAS	per- and polyfluoroalkyl substances
PFMOAA	perfluoro-1-methoxyacetic acid
PMPA	Perfluoromethoxypropyl carboxylic acid
PPA Area	Polymer Processing Acid Area
PPF Acid	Perfluoropropionic acid
SWPPP	Stormwater Pollution Prevention Plan
TA	TestAmerica Laboratories, Inc.
WWTP	Wastewater treatment plant

EXECUTIVE SUMMARY

Geosyntec Consultants of NC, P.C.(Geosyntec) has prepared this Cape Fear River PFAS Reduction Plan (Reduction Plan) for The Chemours Company FC, LLC (Chemours) pursuant to Paragraph 12 of the Consent Order among Chemours, the North Carolina Department of Environmental Quality (NCDEQ) and Cape Fear River Watch (CFRW). Geosyntec has developed the proposed recommended actions detailed in this plan and Chemours anticipates that following NCDEQ and CFRW review, the parties will come to an agreement to amend the Consent Order to incorporate the proposed recommended actions.

This Reduction Plan proposes Chemours implement seven actions, listed in the table below within five years of Consent Order Amendment, to reduce mass loading of PFAS originating from the Chemours Fayetteville Works Facility (the Site). Four of these actions would be implemented within two years of Consent Order Amendment and three of the actions would be implemented within five years of Consent Order Amendment (assuming all necessary permits and authorizations are provided in a timely manner). The actions proposed here also support the requirements of Consent Order Paragraph 16 pursuant to which Chemours will submit a Corrective Action Plan for Groundwater by December 31, 2019. As part of the Corrective Action Plan submittal, Chemours anticipates that it will propose additional actions to reduce PFAS mass loading to the Cape Fear River based on the outcome of environmental characterization efforts and quantitative analyses presently on-going in support of the Corrective Action Plan preparation.

Proposed Actions to Reduce PFAS Loading to Cape Fear River	Approximate Years to Implement
1) Capture and Treat Old Outfall 002 Water	2
2) Capture and Treat Groundwater from Seeps	5
3) Targeted Sediment Removal from Conveyance Network	1
4) Develop a Stormwater Pollution Prevention Plan (SWPPP)	1
5) Targeted Stormwater Source Control and/or Treatment	4
6) Decommission and Replace Remaining Portion of the Terracotta Pipe	2
7) Assess Potential for Groundwater Intrusion into Conveyance Network	5

1 INTRODUCTION

Geosyntec has prepared this per- and polyfluoroalkyl substances (PFAS) reduction plan (Reduction Plan) pursuant to Paragraph 12 of the February 25, 2019 Consent Order among Chemours, the North Carolina Department of Environmental Quality (NCDEQ) and Cape Fear River Watch (CFRW). To date Chemours has already implemented a number of actions which have reduced PFAS loading originating from the Chemours Fayetteville Works Site (the Site). Specifically, Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) load has been reduced by over 95% downstream in the Cape Fear River as described later in Section 3. This Reduction Plan proposes seven additional actions to further reduce the remaining HFPO-DA and PFAS loadings to the Cape Fear River.

Geosyntec has developed these recommended actions and Chemours has agreed their implementation will support reducing loading to the Cape Fear River in accordance with Consent Order Paragraph 12. Four of the actions proposed in the Reduction Plan would be completed within two years of Consent Order Amendment and three of the actions would be completed within five years of Consent Order Amendment (assuming all necessary permits and authorizations are timely provided). Taken together these actions are estimated to reduce PFAS loading in the Cape Fear River of Table 3+ compounds, the compounds identified at the Site, by greater than 50% from present loading (based on mass loading results).

In addition to Old Outfall 002 and the Seeps, onsite groundwater discharge contributes relatively more mass to the Cape Fear River than the remaining other pathways. At this time, assessment of onsite groundwater discharge is ongoing. The results of this ongoing assessment will be presented in the Consent Order paragraph 18 assessment report due September 30, 2019. Onsite groundwater will also be addressed in the Consent Order paragraph 16 Corrective Action Plan due December 31, 2019.

The actions proposed in this Reduction Plan are supported by recent environmental characterization work and data analyses presented in four separate reports attached to this Reduction Plan. These reports are:

- "PFAS Mass Loading Model" – *Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes* (Attachment 1): This report identifies transport pathways that contribute measurable PFAS load to the Cape Fear River by estimating total PFAS mass loading originating from the facility to the Cape Fear River and comparing these estimates to empirically measured PFAS loading in the Cape Fear River. The results of the modeling analysis are used in this Reduction Plan to support

the selection actions proposed. The PFAS Mass Loading Model Report also presents a Characterization of PFAS at downstream raw water intakes pursuant to Paragraph 11.1 of the Consent Order.

- *Seeps and Creeks Investigation Report* (Attachment 2): This document presents a summary of recent environmental characterization work and data that are used in the PFAS Mass Loading Model.
- "Outfall 002 Assessment" – *Assessment of HFPO-DA and PFMOAA in Outfall 002 Discharge and Evaluation of Potential Control Options* (Attachment 3): This document presents data and a technical analysis related to Outfall 002 to support actions proposed in this Reduction Plan, along with an evaluation of potential reductions of HFPO-DA and perfluoro-1-methoxyacetic acid (PFMOAA) from eight potential control approaches (nine including in-progress air emissions reductions).
- "Terracotta Pipe Grouting Report" – *Decommissioning Summary of Grouting of East-West Section of Terracotta Pipe from Chemours Monomers IXM Area* (Attachment 4): This document summarizes the recent work completed at the Site to decommission a portion of the terracotta pipe.
- *HFPO-DA Loading Reductions Estimate* (Attachment 5): This document presents an assessment of HFPO-DA loading reductions since June 2017 at Outfall 002, to the Cape Fear River and to the environment.

The remainder of this report is organized as follows:

- **Section 2: Site Setting and PFAS Mass Loading Model Assessment** – This section presents an overview description of the facility, environmental setting, PFAS mass loading pathways to the Cape Fear River and results of the PFAS Mass Loading Model.
- **Section 3: Completed Reduction Actions** – This section lists actions Chemours has already undertaken to reduce PFAS loading the environment and the Cape Fear River.
- **Section 4: Consent Order Paragraph 12 Proposed Actions** – This section lists the proposed actions, including interim benchmarks, to reduce PFAS loading originating from the facility and reaching the Cape Fear River.
- **Section 5: Paragraph 12(d) Outfall 002** – Pursuant to Consent Order Paragraph 12(d) this section evaluates whether an 80% reduction in HFPO-DA and (PFMOAA) in Outfall 002 is technologically and/or economically feasible within 2 years of Consent Order Amendment.

- **Section 6: Summary** – This section summarizes the Reduction Plan actions presented in this document.
- **Section 7: References** – This section lists documents referenced.

2 SITE SETTING AND PFAS MASS LOADING MODEL ASSESSMENT

This section presents an overview description of the Site Setting and reviews the distribution of Site Associated PFAS and the Mass Loading Model results.

2.1 Site Setting

The Site is located on the Cape Fear River 7-miles upstream of the Bladen Bluffs water intake and 55-miles upstream of the Kings Bluff Intake Canal as shown on Figure 1. The Site is situated in the northwestern portion of Bladen County and southern portion of Cumberland county about 20 miles from the Fayetteville, NC city center. There are several operating areas at the site as shown in Figure 2. Chemours operates two manufacturing areas on the Site, the Chemours Monomers IXM Area and the Polymer Processing Aid Area (PPA Area). Chemours also operates the wastewater treatment plant (WWTP) and Power Area; filtered water and demineralized water are produced in the Power Area. Two tenants also operate on the Site; Kuraray America Inc. (Kuraray) and E.I. du Pont de Nemours and Company (DuPont).

The land surface is relatively flat in the manufacturing areas of the Site and slopes down a bluff with about a 100-foot change in elevation towards the Cape Fear River on the east side of the Site. To the north of the Site, the property slopes towards Willis Creek, which is a tributary that discharges to the Cape Fear River. To the south of the manufacturing area is the Old Outfall Channel, which also discharges to the Cape Fear River. Farther south, off the Site, is Georgia Branch Creek which is a tributary to the Cape Fear River.

River water used at the Site as non-contact cooling water (NCCW) is transmitted through the Site Conveyance Network to Outfall 002 through a series of channels and piping sections shown in Figure 3. The Site Conveyance Network also transmits stormwater and treated process water from the Waste Water Treatment Plant. There are five sections of the Site Conveyance Network identified in Figure 3:

- The Wood Lined Trench which transmits NCCW from Kuraray operations and stormwater from the western portion of the Site;
- The Cooling Water Channel which transmits NCCW from the Chemours Monomers IXM Area and stormwater from the northeast portion of the Site;

- The Wastewater Treatment Plant Discharge which transmits treated sanitary, some NCCW, Kuraray and DuPont process waters, and some stormwater;
- The DuPont Area Ditches which transmit NCCW for DuPont operations and stormwater from the southeast portion of the Site; and
- The Open Channel to Outfall 002 which transmits the combined flows from the previous sections to Outfall 002 with some additional stormwater additions.

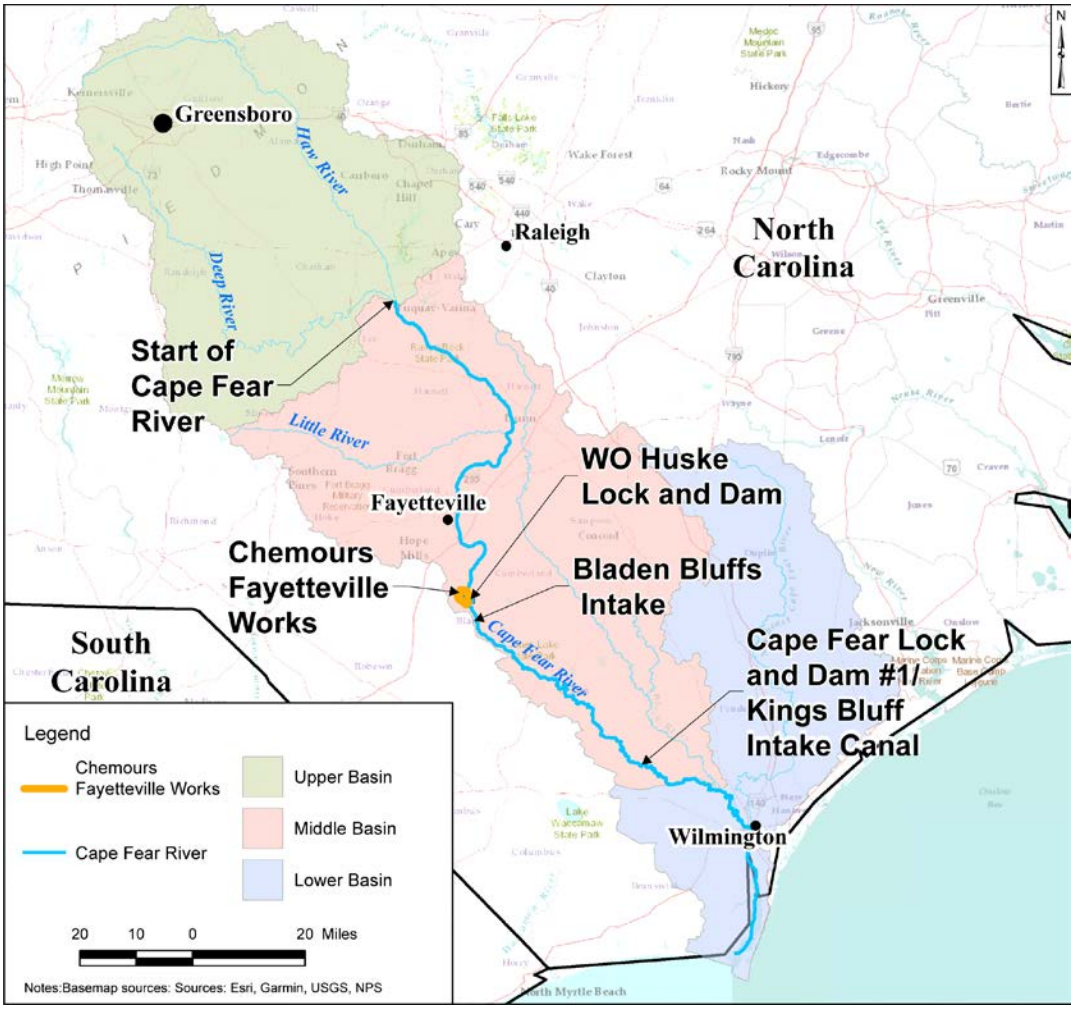

Figure 1: Cape Fear River Watershed and Downstream Intakes

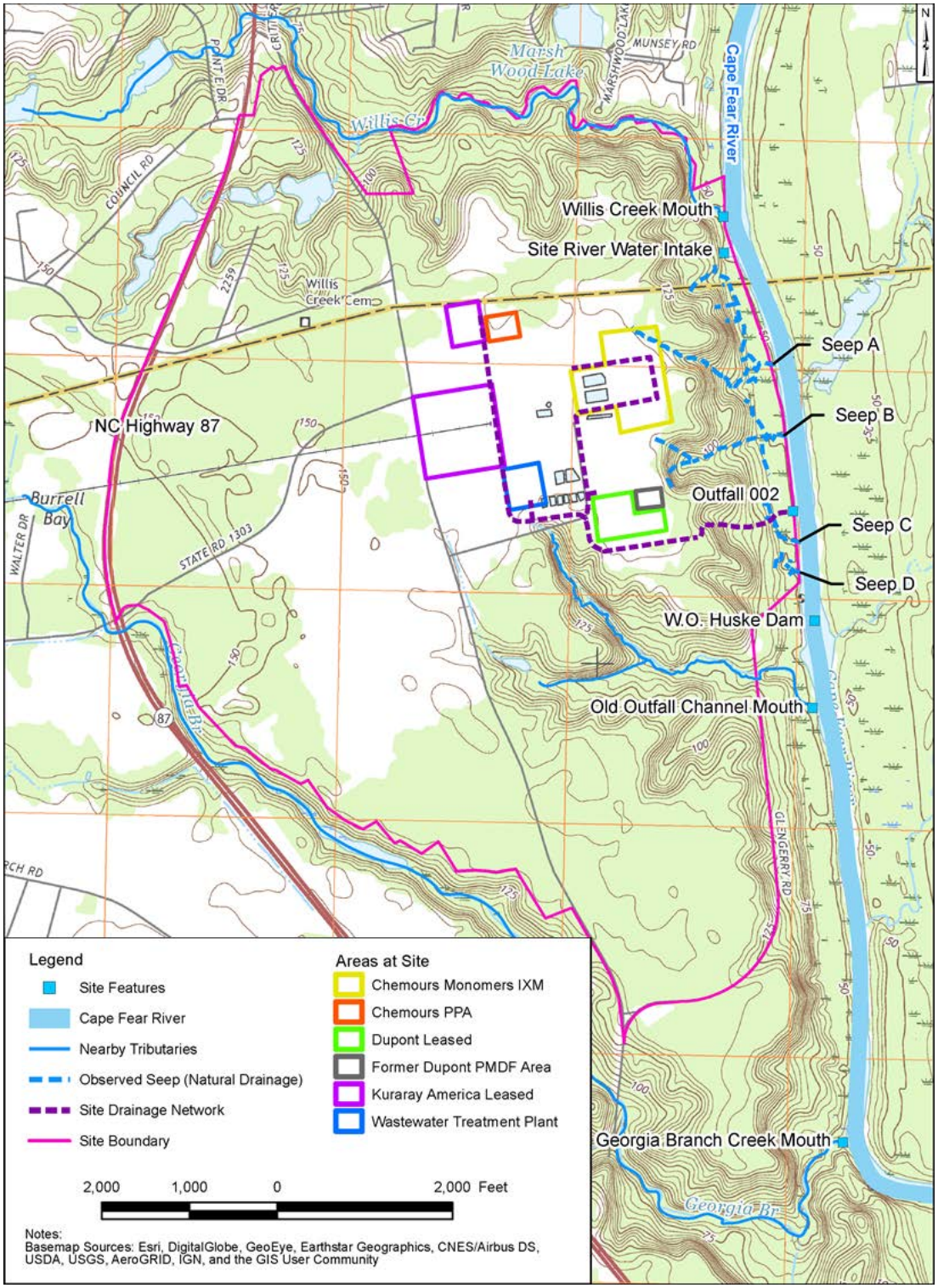

Figure 2: Site Location

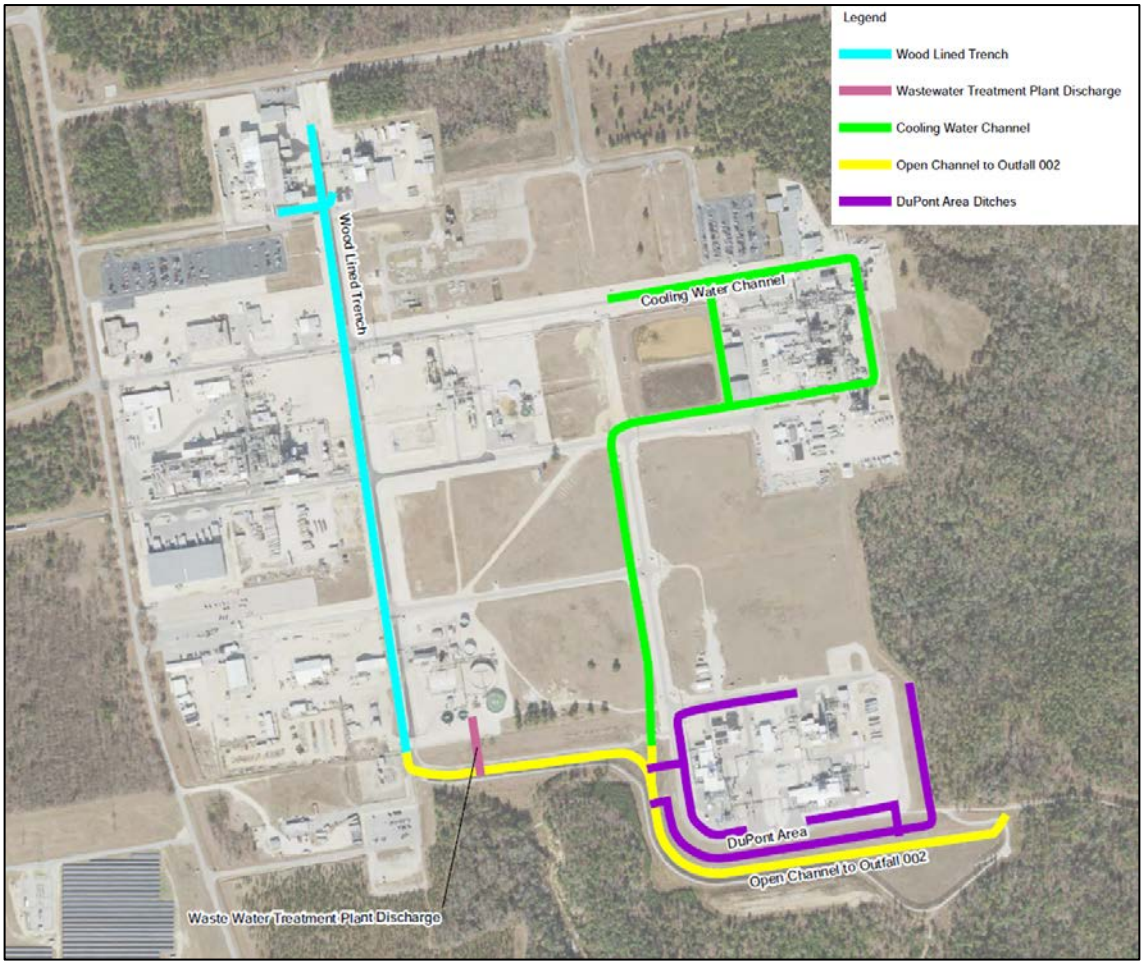

Figure 3: Site Conveyance Network

Site Geology

As described by Parsons (2018), Bladen County is within the Coastal Plain Physiographic Province, which consists of a seaward thickening wedge of sedimentary deposits ranging in age from Cretaceous to Recent. Paleozoic metamorphic and igneous rocks underlie these deposits. The Site is underlain by the Black Creek Formation, which is characterized by lignitic clay with thin beds and laminae of fine-grained micaceous sand as well as thick lenses of cross-bedded sand. The upper portion of the formation may also contain glauconitic, fossiliferous clayey sand lenses. The Black Creek Formation and surficial deposits are the principal potable water aquifers in the region.

Based on the lithology logged during onsite investigations, the Site is underlain by a fine- to medium-grained sand unit with thin discontinuous interbedded silt/clay lenses. The

sand extends to a depth of approximately 65 feet below ground surface (ft bgs) (elevation of +80 feet MSL). The saturated portion of this unit has been identified as the Surficial Aquifer. Beneath this unit is a 7- to 15-foot-thick, laterally-continuous dense clay that has been identified as the Black Creek Confining Unit.

The elevation of this unit (approximately +65 to +77 ft MSL) indicates that it, too, should outcrop along the bluff face adjacent to the Cape Fear River, and potentially along the embankment near Willis Creek. Beneath this confining unit is the Black Creek Aquifer, which is approximately 8 to 20 ft thick and is encountered at depth between 80 and 100 ft bgs (elevation of approximately +45 to +65 ft MSL) at the top of the bluff. Beneath this aquifer is a massive dense clay (with minor sand stringers) that has been identified as the Upper Cape Fear Confining Unit. This unit was not fully penetrated at the Site; however, it extended to at least 200 ft bgs (elevation of -55 ft MSL).

Beneath the manufacturing area, the uppermost sand unit is locally bisected by an aerially extensive stiff clay lens. This clay lens is limited in lateral extent to the east, north and south by local topography and pinches out (terminates) to the west of the manufacturing area. The depth to the top of the clay lens is approximately 15 to 18 ft bgs. The clay lens becomes thinner moving west across the manufacturing area and ranges from approximately one foot to approximately 19 feet (ft) thick.

Site Hydrogeology

The hydrogeology of the Site includes a perched water zone and two aquifers; the Perched Zone, the Surficial Aquifer and the Black Creek Aquifer as shown in Figure 4. The Perched Zone is aerially limited and generally is located above the top of a discontinuous clay layer present in the manufacturing area. Based on recent investigations and on-going evaluations, the Perched Zone may have been influenced by seepage of water through the previously unlined sedimentation basins and infiltration of non-contact cooling water from previously unlined drainage ditches. In 2018, the sedimentation basins and Cooling Water Channel were lined. Where perched water is present, it is encountered from between 6 to 20 ft bgs. The lateral extent of the Perched Zone is controlled by topography and the lateral extent of the clay lens.

The Surficial and Black Creek Aquifers are mostly separated by the Black Creek confining unit, a clay layer. This clay layer is not fully confining as geological and geochemical data indicate water and PFAS transfer has occurred from the Surficial Aquifer to the Black Creek Aquifer. The Black Creek Aquifer is the uppermost identified regional hydrogeologic unit. Flow in the Black Creek Aquifer is toward the Cape Fear River. The Cape Fear River stage is also lower than the base of the Black Creek Aquifer, indicating that the Cape Fear River is also a discharge boundary for the Black Creek Aquifer.

Below the Black Creek Aquifer is the Upper Cape Fear Confining Unit. This clay is over 30-ft thick and is an aquitard to potential further downward flow based on limited onsite geological borings and USGS groundwater wells at the Site that demonstrate minimal hydraulic connection between the Black Creek Aquifer and the Upper Cape Fear Aquifer.

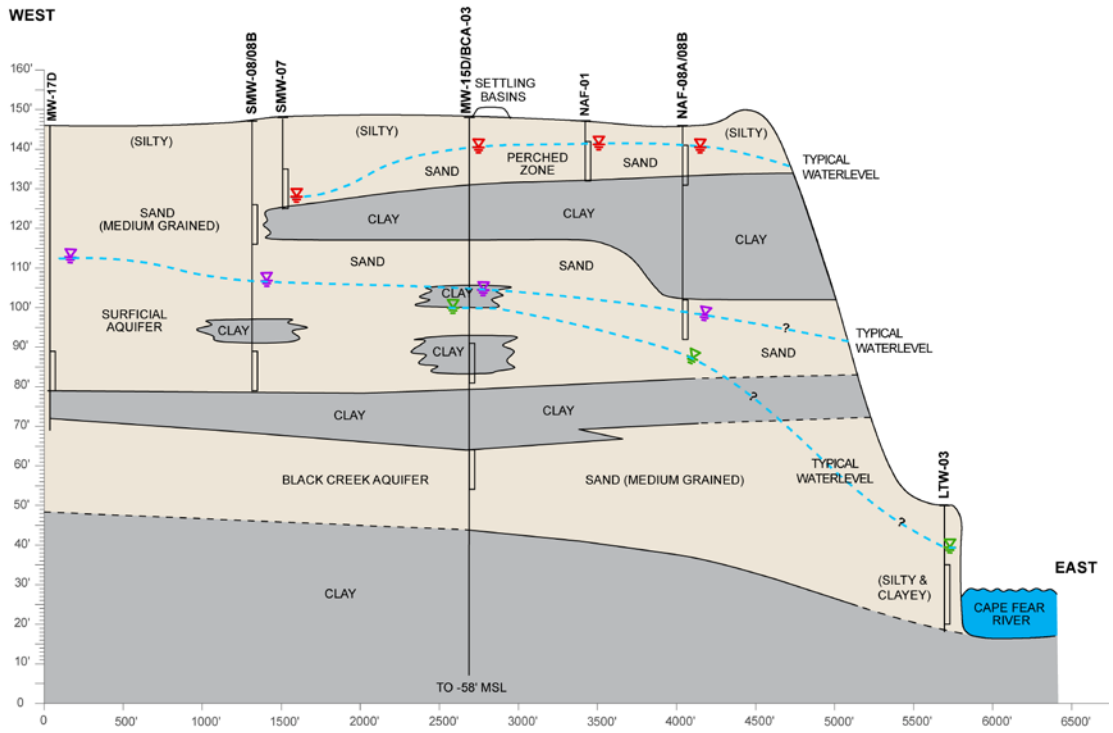

Figure 4: Site Geology Cross-Section adapted from Parsons, 2018.

The Surficial Aquifer is a shallow unconfined aquifer encountered at approximately 50 ft bgs. Groundwater elevations range from approximately 100 to 107 ft above MSL in the western areas of the Site to approximately 93 ft above MSL in the eastern areas of the Site, indicating that groundwater flow is generally toward the Cape Fear River. The Cape Fear River stage is typically near +30 ft MSL, which is lower than the base elevation of the Surficial Aquifer, indicating that the Cape Fear River is a discharge boundary for the Surficial Aquifer. Based on groundwater elevations near Willis Creek, portions of the creek are "gaining" (groundwater discharges to the creek) and portions are "losing" (surface water infiltrates to the underlying groundwater). Georgia Branch Creek also appears to be a gaining stream near where State Road 1303 crosses Highway 87.

The Surficial and Black Creek Aquifers are mostly separated by the Black Creek confining unit, a clay layer. This clay layer is not fully confining as geological and

geochemical data indicate water and PFAS transfer has occurred from the Surficial Aquifer to the Black Creek Aquifer. The Black Creek Aquifer is the uppermost identified regional hydrogeologic unit. Flow in the Black Creek Aquifer is toward the Cape Fear River. The Cape Fear River stage is also lower than the base of the Black Creek Aquifer, indicating that the Cape Fear River is also a discharge boundary for the Black Creek Aquifer.

Below the Black Creek Aquifer is the Upper Cape Fear Confining Unit. This clay is over 34-ft thick and is an aquitard to potential further downward flow based on limited onsite geological borings and USGS groundwater wells at the Site that demonstrate minimal hydraulic connection between the Black Creek Aquifer and the Upper Cape Fear Aquifer.

Groundwater in the Perched Zone, and the Surficial and Black Creek Aquifers at Site flow towards the bluff. As groundwater reaches the bluff above the Cape Fear River, it is expressed at ground surface as seeps. The confluence of the "seeps" create four channelized flows of expressed groundwater towards the river, designated as Seeps A, B, C, and D.

The Cape Fear River

The Site is located adjacent to the west bank of the Cape Fear River and draws water for use at the Site, with more than 95% of the water used as non-contact cooling water and then returned to the river. The Cape Fear River is also a water source for downstream communities served by raw water intakes located at Bladen Bluffs and Kings Bluff Intake Canal, located approximately 5 miles and 55 miles downstream. Drinking water sourced from the Cape Fear River contains certain chemicals from several sources including 1,4-dioxane, trihalomethanes associated with bromide content in raw river water, pharmaceuticals, personal care products, endocrine disrupting chemicals, and PFAS. A brief description of these chemicals and their presence in the Cape Fear River was reported previously (Geosyntec, 2018).

2.2 PFAS at the Site

PFAS is a term used for a group of man-made carbon-based chemicals composed of a fully or partially fluorinated chain of carbon atoms (referred to as a "tail") at one end of the carbon chain and a nonfluorinated, polar functional group (referred to as a "head") at the other end. Recent estimates (Wang et. al., 2017) suggest over 3,000 PFAS are or have been produced across various industries and for various applications. Chemours manufactures per- and polyfluoroalkyl ether compounds and polymers at the Site. The PFAS originating from the Chemours Fayetteville Works Site are characterized primarily by the presence of ether bonds, i.e. two carbons connected by an oxygen atom. To date

twenty-four (24) PFAS compounds that are present in Site process water have been identified and had reference standards produced (Geosyntec, 2019a). Of these twenty-four (24) compounds, analytical methods exist for twenty (20), the Table 3+ SOP method, with methods presently being developed for the remaining four (4) compounds [Difluoro-sulfo-acetic acid (DFSA), Difluoromalonic acid (MMF), Perfluoro-2-methoxypropanoic acid (MTP) and Perfluoropropionic acid (PPF Acid)]. PFAS from other sources are also present in the Cape Fear River (Geosyntec, 2018).

The current grouping of Table 3+ PFAS, including HFPO-DA which can also be analyzed by other methods, is used to represent PFAS loads originating from the facility. In site groundwater and process water Table 3+ PFAS constitute over 99% of the quantitated PFAS mass (Attachment 1 and 2).

PFAS associated with the Site have been released through a range of pathways, including: (i) to air via air emissions, (ii) to surface water via Outfall 002, and (iii) to soil and groundwater from piping that has either been replaced or will be replaced as described later in this Reduction Plan. These PFAS releases have resulted in PFAS being detected in environmental media both onsite and offsite. Geosyntec developed a mass loading model (Attachment 1) pursuant to Consent Order Paragraph 12 that assesses relative PFAS loading contributions from nine different transport pathways.

2.3 PFAS Mass Loading Model

The PFAS Mass Loading Model assesses the contribution of different transport pathways to overall mass loading of PFAS originating from the facility to the Cape Fear River. Pathways contributing to loading are shown in Figure 5 and listed below as follows:

Transport Pathway 1: Upstream Cape Fear River and Groundwater – pathway is comprised of contributions from non-Chemours related PFAS sources on the Cape Fear River and tributaries upstream of the Site, and upstream offsite groundwater with Table 3+ compounds present from aerial deposition

Transport Pathway 2: Willis Creek – Groundwater and stormwater discharge and aerial deposition to Willis Creek and then to the Cape Fear River

Transport Pathway 3: Direct aerial deposition of PFAS on the Cape Fear River;

Transport Pathway 4: Outfall 002 – Comprised of (i) water drawn from the Cape Fear River and used as non-contact cooling water, (ii) treated non-Chemours process water and (iii) Site stormwater which are then discharged through Outfall 002;

Transport Pathway 5: Onsite Groundwater – Direct upwelling of site groundwater to Cape Fear River from Black Creek Aquifer;

Transport Pathway 6: Seeps – Groundwater Seeps (currently identified seeps are A, B, C and D) above the Cape Fear River water level on the bluff face from the facility that discharge into the Cape Fear River;

Transport Pathway 7: Old Outfall 002 – Groundwater discharge to Old Outfall 002 and stormwater runoff flows into the Cape Fear River;

Transport Pathway 8: Adjacent and Downstream Groundwater – Offsite groundwater adjacent and downstream of the Site upwelling to the Cape Fear River; and,

Transport Pathway 9: Georgia Branch Creek – Groundwater, stormwater discharge and aerial deposition to Georgia Branch Creek and then to the Cape Fear River.

The PFAS Mass Loading Model Report (Attachment 1) estimated PFAS loading to the Cape Fear River using a combination of measured and estimated data to develop mass loading estimates by pathway. The recent investigations of the seeps and creeks at the Site (Attachment 2) are the basis for much of the measured data used in the mass loading model. The inputs used in the model (e.g. groundwater concentrations, seep flow rates, river flow rates, etc.,) are described in the PFAS Mass Loading Model Report (Attachment 1). The model was then calibrated and evaluated against observed downstream river PFAS mass loadings. The best calibrated version of the model was used to assign loadings coming for each of the nine transport pathways to the observed concentrations in the Cape Fear River. The model was calibrated using the sum of Table 3+ PFAS loadings. The sum of Table 3+ compounds was selected as the calibration parameter as the Table 3+ compounds represent greater than 99% of the PFAS mass quantitated in Site groundwater, seeps and the Old Outfall 002.

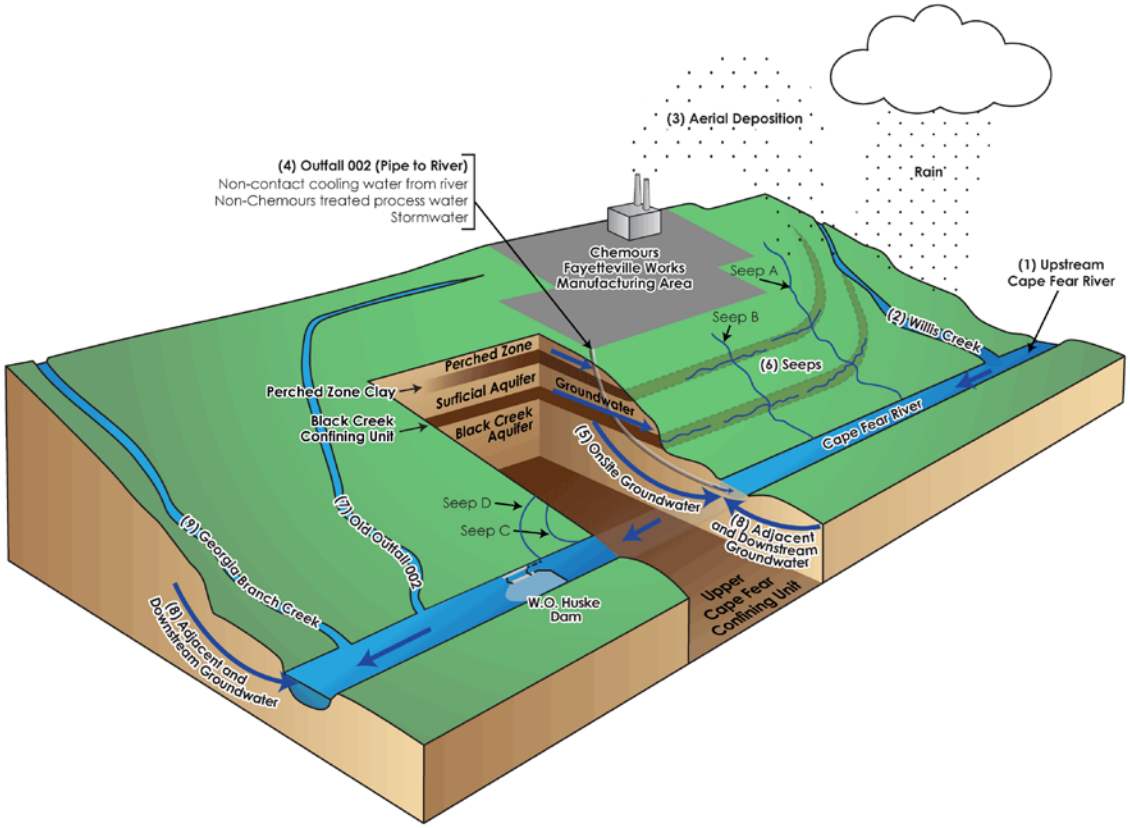

Figure 5: PFAS Transport Pathways Conceptual Diagram (not to scale)

The mass loading model estimated that the Old Outfall 002 and Seeps (Transport Pathways 7 and 6 respectively) have the highest contribution of Table 3+ PFAS mass loading to the Cape Fear River. As described in the mass loading model report (Attachment 1), these estimates are based on two mass loading characterization events (May and June 2019). These two pathways (Transport Pathways 7 and 6) combined are estimated to contribute greater than 50% of the loading to the Cape Fear River. Onsite groundwater is the next highest mass loading pathway to the Cape Fear River with estimated loadings between 17% to 22%.

Table 1: Mass Loading Model Total Table 3+ PFAS including HFPO-DA Contributions per Pathway

Pathway	Total Table 3+ Estimated Loading Percentage per Pathway per Event	
	May 2019 Event	June 2019 Event
[1] Upstream River Water and Groundwater	4%	15%
[2] Willis Creek	10%	4%
[3] Aerial Deposition on the River	< 2%	< 2%
[4] Outfall 002	4%	7%
[5] Onsite Groundwater	22%	17%
[6] Seeps	32%	24%
[7] Old Outfall 002	23%	29%
[8] Offsite Adjacent and Downstream Groundwater	< 2%	< 2%
[9] Georgia Branch Creek	4%	3%

For all Transport Pathways, the loading estimates will vary over time due to a range of potential factors, including but not limited to:

- Detections of PFAS at or near analytical practical quantitation limits have more variability;
- Elevated method reporting limits;
- Standard uncertainty (often ± 20%) in analytical laboratory results;
- Flow rate estimates in the river, seeps, groundwater and creeks are over- or under-predicted compared to actual flow rates.

Transport Pathway 1 (upstream river water and groundwater) may have additional variability due to the presence of three Table 3+ compounds, Byproduct 4, Byproduct 5 and (NVHOS), whose upstream load is not consistent with identified release pathways from the Site (Attachment 2). Analytical results from Byproduct 4 and 5 also had a consistent high bias based on data quality evaluations. These three compounds were detected in both the May and June events at locations upstream where no other Table 3+ compounds were detected, including PMPA, which has the highest offsite concentrations in the immediate area surrounding the Site. In upcoming quarterly sampling events, Chemours will collect Cape Fear River samples at these same upstream locations and additional locations to assess the spatial and temporal trends of these three compounds in the upstream Cape Fear River.

Last, future events taken during, or immediately after, larger storm events may result in pathways with stormwater components potentially having higher mass loadings, i.e. variability, potentially from stormwater runoff.

2.4 Modeled Estimates of Downstream HFPO-DA Concentrations

The mass loading model simulates concentrations of PFAS originating from the Site at downstream intakes over time as shown in Figure 66 for Kings Bluff Intake Canal. This plot shows the measured concentrations of HFPO-DA from samples collected at Kings Bluff Intake Canal compared to modeled concentrations estimated from the mass loading model. To simulate the modeled time series, the model incorporated the twice weekly Outfall 002 sample concentration results, measured Outfall 002 flow rates and Cape Fear River flow volumes; all other loading parameters developed for the model as presented in the PFAS Mass Loading Model Report were kept constant. As Figure 6 results show modeled HFPO-DA results correspond to measured data. This suggests that the model is also a useful predictive tool to understand the benefit of potential PFAS mass loading reductions to river loads and concentrations.

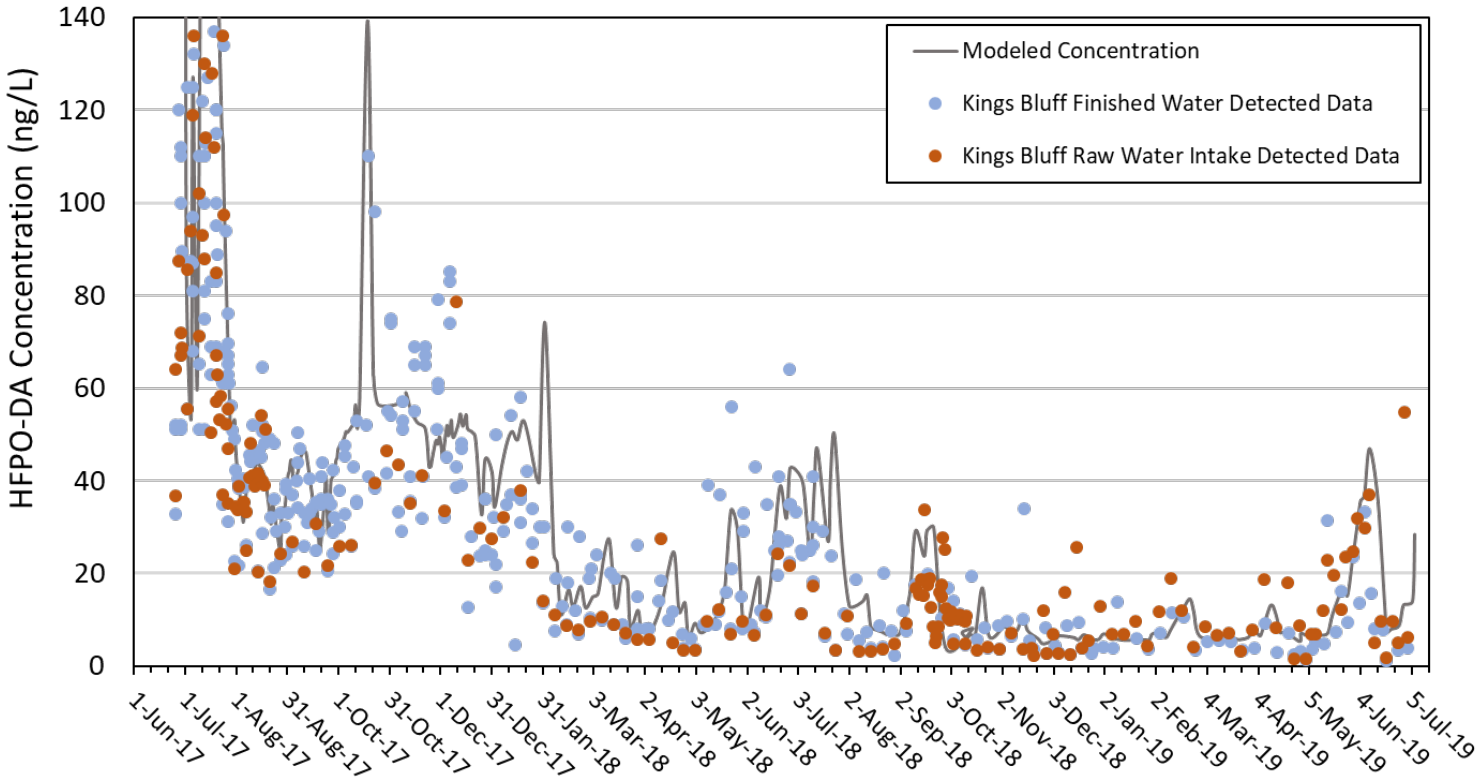

Figure 6: Modeled and Measured HFPO-DA Concentration Time Series at Kings Bluff Intake Canal. *Modeled HFPO-DA concentrations are calculated based on calculated and estimated mass loadings from off-Site and onsite groundwater, nearby tributaries, Outfall 002, and Old Outfall 002.*

3 COMPLETED REDUCTION ACTIONS

Actions already implemented by Chemours have reduced yearly HFPO-DA mass loadings from the facility to the environment by at minimum 5,150 pounds per year (lbs/yr) compared to pre-June 2017 emissions and discharges (Attachment 5). Specifically, air emission reductions to date, on an annualized basis for 2019, have resulted in an estimated yearly reduction of 2,150 pounds of HFPO-DA, a greater than 93% reduction. Cessation of Chemours process water discharge to Outfall 002 resulted in at minimum an estimated yearly reduction of 3,000 lbs/yr of HFPO-DA.

These actions have reduced HFPO-DA mass loadings, through Outfall 002, by over 99% from June 2017 levels to 2018 levels (Attachment 5). This has resulted in a reduction of HFPO-DA loading in the Cape Fear River. Present estimates of HFPO-DA mass loading to the Cape Fear River from all pathways are between 64 and 129 pounds per year (lbs/yr). This represents upwards of a 95% reduction in mass loading to the Cape Fear River (Attachment 5).

These reductions will be further enhanced by implementation of the Thermal Oxidizer by the end of 2019, which will control over 99.99% of PFAS emissions routed to it, and the actions proposed in this plan will further reduce HFPO-DA and other PFAS loadings to the environment.

Chemours has also implemented multiple actions to further reduce loading of PFAS to the Cape Fear River including lining of the previously unlined portions of the Cooling Water Channel and sediment ponds as well as groundwater extraction from three perched zone monitoring wells. Specifically, in November 2018 Chemours lined the Cooling Water Channel surrounding the Monomers IXM Area and the sediment ponds to the west of the Monomers IXM Area to reduce infiltration of water to the Perched Zone. Over time, as the water table of the Perched Zone declines from these measures, the mass loading coming from the Perched Zone to other geological units and seeps will decline leading to reduced mass loads to the Cape Fear River.

Between February 2018 and February 2019 over 45,000 gallons of groundwater from MW-24, NAF-03 and NAF-12 were extracted, and extraction of groundwater from these three wells will continue (Parsons, 2019a). The extracted groundwater has elevated concentrations of Table3+ compounds and this water is disposed of offsite. This groundwater extraction reduces the hydraulic head in the Perched Zone and consequently reduces the PFAS loading from the Perched Zone to the Cape Fear River via aquifers and groundwater seeps. This groundwater extraction also reduces the amount of PFAS mass present in the aquifer.

Last, Outfall 002 loading rates in 2019, integrating both dry and wet weather periods, are presently 8% lower than in calendar year 2018. This reduction is potentially a result of various completed actions at the Site, including reduced air emissions. Loading at Outfall 002 is expected to continue a downward trajectory year over year.

4 CONSENT ORDER PARAGRAPH 12 PROPOSED ACTIONS

This section presents the seven proposed actions to reduce mass loading of PFAS originating from the Site. First an overview of the actions is presented, followed by additional assessment activities that are planned and in-progress that support developing and refining these actions and last a detailed description of each proposed action, along with proposed interim benchmarks are presented.

4.1 Overview of Proposed Actions

Beyond actions taken to date (Section 3), the following seven additional proposed actions are estimated to reduce the remaining mass loading of Total Table 3+ PFAS to the Cape Fear River by greater than 50%. These proposed reductions are summarized in Table 2 below and described in the sub-sections below.

Table 2: Proposed Paragraph 12 PFAS Loading Reduction Actions

Proposed Action	Years to Implement	Pathway(s) Reduced	Estimated Cape Fear River Total Table3+ PFAS Loading Reduction *,**	
			lbs/yr	%
1) Capture and Treat Old Outfall 002 Water with a 99% reduction in loading	2	[7] Old Outfall 002	320 to 400	23% to 29%
2) Capture and Treat Seeps with a 95% reduction in loading	5	[5] Seeps	430 to 320	30% to 23%
3) Targeted Sediment Removal from Conveyance Network	1	[4] Outfall 002	20 to 40 Using a 40% reduction at Outfall 002 from actions 3 to 7 (mid-range between lower and best estimates)	1.6% to 2.8% Using a 40% loading reduction at Outfall 002 from actions 3 to 7 (mid-range between lower and best estimates)
4) Develop and Implement a Stormwater Pollution Prevention Plan (SWPPP)	1	[4] Outfall 002		
5) Targeted Stormwater Source Control and/or Treatment	4	[4] Outfall 002		
6) Terracotta Pipe Decommissioning and Replacement	2	[4] Outfall 002		
7) Assessing Potential for Groundwater Intrusion into Conveyance Network	5	[4] Outfall 002		

* reductions based on mass loading model estimates from two characterization events. Subsequent characterization events may yield different estimates depending on environmental conditions at the time of sampling due to the dynamic nature of the different transport pathways.

** Total estimated reductions were estimated by summing the may estimates (left hand side number together) and the June estimates (right hand side numbers) together. Both events estimated a 55% reduction for proposed actions.

These proposed actions are believed to be feasible within a two to five-year time period based on the present state of knowledge regarding the Site and its subsurface conditions. The first two proposed actions target reducing the highest PFAS concentration pathways

(Seeps and Old Outfall) that presently reach the Cape Fear River directly. The other five actions work systematically to reduce Outfall 002 PFAS loadings contributed by the Site. Taken together, these seven actions are estimated to achieve a greater than 50% reduction of Total Table 3+ PFAS mass loading to the Cape Fear River.

4.2 Planned and In-Progress Additional Assessment Activities

Based on current data and understandings, technologically and economically feasible actions that could be implemented in two to five years were not identified for the Willis Creek, Georgia Branch Creek and offsite groundwater pathways. Any potential actions for these pathways would be extensively disruptive to local wildlife habitats and costs would be disproportionately high compared to relative benefits.

In addition to Old Outfall 002 and the Seeps, onsite groundwater discharge contributes relatively more mass to the Cape Fear River than the remaining other pathways. Geosyntec has recommended that Chemours conduct additional assessment activities regarding the total PFAS loading originating from the facility, including onsite groundwater. Some of these activities will be presented in the Consent Order paragraph 18 On and Offsite Assessment report due September 30, 2019. Based on these activities, Chemours anticipates that it may propose additional actions, including addressing onsite groundwater in the Corrective Action Plan due December 31, 2019 pursuant to Consent Order paragraph 16. These anticipated additional actions would be directed toward reducing total PFAS loading and some of them may potentially be completed within two to five years. Activities recommended and presently being conducted to assess anticipated additional actions include the following:

- Completing six additional quarterly assessments of mass loading to the Cape Fear River. Activities in these events will include sampling and flow gauging at the mouths of Seeps A through D, Old Outfall 002, Outfall 002, Willis Creek, Georgia Branch Creek. Also, samples will be collected upstream and downstream of the Site in the Cape Fear River;
- Conducting an assessment of Cape Fear River bottom sediment temperatures adjacent to the Site to identify potential zones of increased groundwater upwelling. This will be reported in the On and Offsite Assessment Report due on September 30, 2019;
- Conducting further site investigation and characterization activities, including the installation of additional monitoring wells onsite to further delineate PFAS concentrations and geology. Multiple wells have been installed as noted below

to further assess hydrogeology and groundwater PFAS concentrations. These wells will be reported in the On and Offsite Assessment Report due on September 30, 2019.

  - Fifteen additional wells installed adjacent to the Cape Fear River (six pre-existing wells);
  - Two additional wells installed adjacent to Old Outfall 002 (ten wells were installed adjacent to Old Outfall 002 as part of the PlumeStop™ pilot study (Parsons, 2019);
  - One well installed adjacent to Willis Creek (four pre-existing wells); and
  - Three wells installed adjacent to Georgia Branch Creek (no pre-existing wells).

- Characterizing further the geology and hydrogeology at 24 locations adjacent to the Cape Fear River using hydraulic profiling and electrical conductivity (HPT/EC) tools. This characterization will be reported in the On and Offsite Assessment Report due on September 30, 2019;
- Preparing a numerical model to evaluate groundwater flow conditions in the three water bearing units at Site and evaluate groundwater interactions with the Cape Fear River, to assess the efficacy and support design of potential future actions. This will be prepared to support the Corrective Action Plan due December 31, 2019.
- Installing 20 offsite monitoring wells to support further understanding of the horizontal and vertical distribution of PFAS originating from the facility potentially present offsite. These wells will be reported in the On and Offsite Assessment Report due on September 30, 2019;
- Conducting continued bimonthly sampling characterization sampling pursuant to Paragraph 11(b) and (c) of the Consent Order; and
- Conducting two additional stormwater grab sampling events to assess spatial and temporal trends and loadings from different areas to loads observed at Outfall 002.

4.3 Detailed Descriptions of Proposed Actions

The following sub-sections list and describe the actions Chemours proposes implementing. The sub-section for each action includes background, the specific proposed action, and proposed benchmarks with associated dates. The first action describes capturing water from Old Outfall 002 and the second action describes capture and treating the seeps. Actions 3 through 7 describe proposed actions to reduce mass loading to the Cape Fear River attributable to Outfall 002. Later in the Reductions Plan Section 5 presents an assessment pursuant to Paragraph 12(d) of the Consent Order if 80% reductions to Outfall 002 loads are technologically and/or economically feasible in a two-year time period after Consent Order Amendment.

Action 1: Capture and Treat Old Outfall 002 Water

Background: Based on estimates presented in the Mass Loading Model report (Attachment 1) the Old Outfall 002 contributes between 23% to 29% of Total Table 3+ PFAS Loadings to the Cape Fear River. As part of the Consent Order, Chemours is required to implement a remedy that either: (i) captures and treats the dry weather flow of Old Outfall 002 at the location of a proposed dam just upstream of where Old Outfall 002 crosses under Glengerry Road and reduce concentrations of HFPO-DA and PFMOAA in the treated water by 99% or (ii) achieves equivalent or greater reductions. Implementing this 99% reduction remedy will reduce loading of PFAS originating from the facility to the Cape Fear River by an estimated 23 to 29%.

Proposed Actions and Benchmarks: Chemours will continue to comply with the existing Consent Order requirements by implementing an ex situ capture and treat remedy for Old Outfall 002.

Action 2: Capture and Treat Seeps

Background: Water samples collected from Seeps A to D were found to have elevated PFAS concentrations. Based on estimates presented in the Mass Loading Model report the Seeps contribute between 24% to 32% of the Total Table 3+ PFAS loading to the Cape Fear River.

Proposed Action: Within five years of Consent Order Amendment, Chemours will implement a capture and treat remedy which will aim to reduce PFAS mass loading from Seeps A, B, C and D by up to 95% provided NCDEQ and other permitting authorities issue required permits. Chemours is presently conducting a detailed evaluation of potential capture approaches, including ex situ capture and treatment of the seeps and in situ groundwater capture and treatment. The capture and treat remedy may also be supported by other measures which would limit mass loading to the seeps. For example,

these measures may include hydraulic containment, capping, or in situ sorptive remedies. These supportive approaches will be evaluated as part of Consent Order Paragraph 16 (Corrective Action Plan).

Proposed Benchmarks: Chemours proposes proceeding with the following benchmarks and schedule for seep capture provided permitting authorities grant required permits:

- Select Seep Capture Approach. December 31, 2019. The capture approach for the seeps will be included as part of the Corrective Action Plan. The selection of the capture approach will be supported by a numerical modeling analysis.
- Initial Seep Capture Design. 1 year and 6 months from Consent Order amendment. Initial design will be based on the outcome of numerical model evaluation and continued quarterly seeps and creeks monitoring.
- Final Seep Capture Design. 2 years and 6 months from Consent Order amendment. The final design will be based on additional quarterly seeps and creeks monitoring results.
- Permit Approval for Seep Capture. 3 years and 6 months from Consent Order Amendment. NCDEQ and other potential permitting authorities have issued required permits.
- Remedy Implementation. 5 years from Consent Order Amendment. Seep Capture Remedy Constructed and Operational. Mass Loading reduction of 95% Total Table 3+ PFAS from seeps.

Action 3: Targeted Sediment Removal from Conveyance Network

Background: PFAS from historical aerial deposition may be present in onsite soils. If impacted soils enter the Site Conveyance Network, they can contribute PFAS to the Cape Fear River via Outfall 002. Investigations of the Site Conveyance Network indicate potential increases in PFAS contributions from sediments present in the Conveyance Network in the open section of the Cooling Water Channel surrounding Monomers IXM and in the Open Channel from where the Waste Water Treatment Facility effluent joins the Channel to the end of the Channel.

Presently the loading reductions at Outfall 002 from targeted sediment removal cannot be accurately quantified. Removing sediments from the Cooling Water Channel and the Open Channel to Outfall 002 is expected to support reducing loadings from these Site Conveyance flow components.

Proposed Action: Chemours will develop a plan to remove sediment present in the sections of the Site Conveyance Network. Chemours will perform the sediment removal during the yearly turnaroud (when the Site pauses production activities), including passing water through the Site Conveyance Network, to perform yearly preventative maintenance.

Proposed Benchmarks: Chemours will remove sediments from the open section of the Cooling Water Channel and the Open Channel to Outfall 002 from the Wastewater Treatment Plant to and including the Outfall 002 sump within 1 year of Consent Order Amendment with reporting due within 1 year and six months of Consent Order Amendment.

Action 4: Develop and Implement a Stormwater Pollution Prevention Plan (SWPPP)

Background: PFAS from historical aerial deposition may be present onsite soils. If these soils enter the Site Conveyance Network, they can contribute to PFAS at Outfall 002. Stormwater Pollution Prevention Plans provide facility-specific guidance on best management practices to reduce the potential for stormwater-related increases in discharge concentrations. Implementation of the SWPPPs reduce the potential for stormwater contamination from industrial activities and potential sources, such as impacted soils or active construction or soil stockpiling, which will reduce the potential for increased Outfall 002 PFAS concentrations during rainfall events.

Presently the expected loading reductions at Outfall 002 from developing and implementing a SWPPP cannot be accurately quantified. This action will help to put in place best practices that are expected to support and help maintain anticipated loading reductions across the entire Site Conveyance Network and at Outfall 002.

Proposed Action: Chemours will fund a third party to prepare a SWPPP. Facility personnel will be trained to support implementation and compliance with SWPPP best management practices (BMPs) and inspection procedures.

Proposed Benchmarks: A SWPPP will be prepared within 120 days of Consent Order Amendment. Identified facility staff will be trained on how to implement the SWPPP within one year of Consent Order Amendment.

Action 5: Implement Targeted Stormwater Source Control and/or Treatment

Background: A stormwater grab sampling program was completed in June 2019. This program consisted of collecting water samples from 24 locations across the Site and results from this program indicated areas of elevated PFAS concentrations in stormwater. This suggests that some combination of targeted source control and stormwater collection and treatment could achieve measurable mass loading reductions. At present only one stormwater grab sampling event has been possible due to rainfall patterns since April 2019. A preliminary analysis using the data from this one sampling event suggest that between 16% and 30% of HFPO-DA loading at Outfall 002 can be reduced through targeted stormwater source control and/or treatment approaches. Since only one data set exists at present, additional data and assessment activities are necessary to develop a better understanding of stormwater levels and spatial patterns throughout the Site in order to select and design suitable approaches.

Proposed Action: Chemours will fund third party contractors to conduct two additional stormwater grab sampling programs to evaluate stormwater concentrations. Chemours will also fund a third-party contractor to develop a hydrologic stormwater model to assess potential mass loading reductions and to develop a targeted stormwater action plan and best management practices based on the data from the stormwater grab sampling events and the outcome of the modeling analysis. This plan will outline initial actions to be performed. The performance evaluation reporting of the actions will include any potentially recommended supplementary actions.

Proposed Benchmarks: Chemours proposes proceeding with the following benchmarks and schedule for Targeted Stormwater Source Control and/or Treatment provided permitting authorities grant required permits:

- Complete Stormwater Grab Sample Program: 8 months after Consent Order amendment.
- Complete Hydrologic Model Analysis: 1 year after Consent Order Amendment.
- Complete Targeted Stormwater Action Plan: 1 year and 6 months after Consent Order Amendment.
- Stormwater Actions Plan Actions Implemented: 2 years and 6 months after Consent Order Amendment.
- Evaluation of Initial Actions and Supplemental Recommendations: 4 years after Consent Order Amendment.

Action 6: Decommission and Replace Remaining Portion of the Terracotta Pipe

Background: The remaining portion of the terracotta pipe is a buried pipe at the Site and is presently used to: (i) transmit process water from Kuraray operations to the Wastewater Treatment Plant and (ii) transmit filter wash water from the filtered and demineralized water production facility to the Wastewater Treatment Plant. Prior to June 21, 2017, process wastewaters from the Chemours Monomers IXM Area were transmitted to the Wastewater Treatment Plant via an east-west section of the terracotta pipe. Between June 21, 2017 and November 29, 2017 Chemours diverted process wastewater from the Monomers IXM area away from the Wastewater Treatment Plant and to offsite disposal. On November 29, 2017, Chemours severed the terracotta pipe connection from the Chemours Monomers IXM Area to prevent the potential for process wastewater to be conveyed by the terracotta pipe. In February 2019, Chemours grouted the east-west section of the terracotta pipe (Attachment 4) to limit the potential for groundwater or stormwater to infiltrate this section of the pipe and potentially be transmitted to the Wastewater Treatment Plant and then to Outfall 002 and the Cape Fear River.

Recent sampling at locations along the terracotta pipe indicate that PFAS are still present, potentially adhered to remnant sediments or potentially infused onto/into the clay pipe itself (Attachment 3). Kuraray and Chemours are planning to decommission the terracotta pipe and replace it with an above ground pipe. Replacing the terracotta pipe is estimated to reduce HFPO-DA loadings to Outfall 002 between 1% and 2%.

Proposed Action: Within 2 years of Consent Order Amendment, Chemours will decommission the terracotta pipe by removing the connection of the terracotta pipe to the Wastewater Treatment Plant. Flows of water to the Wastewater Treatment Plant from the terracotta pipe will be transmitted through newly constructed above ground piping.

Proposed Benchmarks: Chemours will decommission the terracotta pipe within two years of the Consent Order Amendment.

Action 7: Assess Potential for Groundwater Intrusion into Conveyance Network

Background: Water samples collected from the Outfall 002 Open Channel during sampling events conducted in April and June 2019 pursuant to Consent Order Paragraph 11(b) have shown increases in HFPO-DA concentrations along the Open Channel to Outfall 002, near the DuPont Area (Attachment 3; Geosyntec 2019b) with no point sources evident suggesting a diffuse source. The source of these increased HFPO-DA concentrations has not been determined but may be potentially related to:

- Sediments in the channel. Sediment samples in the Outfall 002 open channel were too fine and could not be reliably collected during sampling conducted in July 2019. These sediments can be removed as per Action 3 above, and samples of the removed sediment would be sent for analysis of PFAS concentrations; and
- Potentially perched zone groundwater containing HFPO-DA enters the Open Channel to Outfall 002 near the DuPont Area where perched zone groundwater levels may potentially be higher than water levels in the Outfall Channel. Groundwater in this area also contains HFPO-DA at concentrations higher than in Outfall 002 (66,000 ng/L at PZ-24; Parsons, 2019c). The Outfall Channel is lined with a grout filled revetment mat and underlain with Geotextile to limit connectivity with the surrounding environment. If groundwater levels are higher than the water levels in the Outfall Channel, then groundwater intrusion is possible in principle but may be limited by the materials from which the channel is constructed.

While at present the expected reductions from this action to PFAS loading at Outfall 002 cannot be accurately quantified, this action in combination with Actions 3 described in this document have the potential to reduce facility-based loadings from the Open Channel to Outfall 002. Loadings from the Open Channel to Outfall 002 were estimated to represent between 38% and 69% of the dry weather loading attributable to the facility (i.e. excluding intake contributions) from the April and June 2019 sampling events respectively (Attachment 3).

Proposed Actions: During Site turnaround Chemours will (a) survey the elevations of the bottom of the Open Channel and the Outfall 002 sump near the DuPont Area to compare channel bottom elevations to measured nearby groundwater elevations in monitoring wells, and (b) inspect the Open Channel from where the Cooling Water Channel joins the Open Channel to the end of the Open Channel, including the sump, for groundwater entering the Open Channel. If this assessment indicates there is a potential for groundwater to enter into the Site Conveyance Network in this area, Chemours will prepare an action plan to mitigate this contribution to Outfall 002 concentrations.

Proposed Benchmarks: Chemours proposes proceeding with the following benchmarks and schedule for assessing the potential for groundwater intrusion into the Open Channel to Outfall 002:

- Open Channel sediment removal within 1 year of Consent Order Amendment with reporting due within 1 year and six months of Consent Order Amendment.

- Survey elevation of bottom of Open Channel to Outfall 002 and measure water levels in nearby groundwater wells during Site turnaround within 1 year of consent order amendment with reporting due within 1 year and 6 months of consent order amendment.
- Inspect Open Channel to Outfall 002 for evidence of any direct connection to groundwater during Site turnaround within 1 year of consent order amendment with reporting due within 1 year and 6 months of consent order amendment.
- If necessary, assess potential alternatives for reducing groundwater intrusion: 1 year after Consent Order Amendment.
- Conduct actions resulting from alternatives analysis (if necessary): 3 to 5 years after Consent Order Amendment depending on actions recommended and permitting authorities granting any potentially required permits.

5 PARAGRAPH 12(D) OUTFALL 002

Of the seven (7) actions Chemours has proposed implementing five (5) proposed actions will reduce Total Table 3+ PFAS loadings to Outfall 002. Similar to Cape Fear River PFAS Loading reductions described earlier, Chemours has reduced HFPO-DA loadings to Outfall 002 by over 99% through completed actions as described in Section 3. With these reductions, Outfall 002 in contributes only between 4% to 7% of Total Table 3+ PFAS mass loading to the Cape Fear River and between 1% and 4% of HFPO-DA loading to the Cape Fear River (Attachment 1). Consequently, any reductions to Outfall 002 under normal operating conditions do little to reduce total mass loadings, especially compared to the proposed reductions for the Old Outfall and the Seeps which together will result in greater than 50% reductions of Total Table 3+ PFAS loading to the Cape Fear River. Regarding further Outfall 002 reductions the Consent Order states:

> *The burden is on Chemours to demonstrate that the concentrations of GenX and perfluoro-1-methoxyacetic acid (PFMOAA) detected in Outfall 002 cannot be reduced by at least 80% from baseline levels, including after measurable storm events, as defined in 40 C.F.R. 122.21(g)(7)(ii), within 2 years.*

The Outfall 002 Assessment Report (Attachment 3) reported the Outfall 002 load for HFPO-DA and PFMOAA for the calendar year 2018. could further reduce HFPO-DA and PFMOAA concentrations at Outfall 002 and assessed potential reductions from these approaches. These approaches are listed in Table 3 below, including the time length to implement, anticipated Outfall 002 reductions where they can be estimated, and if the approach is technologically and economically feasible.

The five proposed actions related to Outfall 002 are estimated to achieve a combined HFPO-DA reduction between 27% to 53% of Outfall 002 yearly HFPO-DA loading; this is estimated to be 0.4% to 2.4% of the HFPO-DA loading to the Cape Fear River. The anticipated loadings for PFMOAA could not be assessed; the available PFMOAA data were too limited to make reduction estimates at present. The estimated HFPO-DA loading reductions would be achieved by reducing the dry weather loads from the Cooling Water Channel and the Open Channel, reducing loads from stormwater through targeted source control and treatment and replacing the terracotta pipe. Including HFPO-DA reductions in 2019 increases the estimated potential combined HFPO-DA loading reduction total to 35% to 61% at Outfall 002, or 0.5% to 2.7% of HFPO-DA loadings to the Cape Fear River. These estimated potential reductions are summarized below in Figure 7, with both lower and “best” estimates shown (Attachment 3).

Two control approaches, G and H in Table 3 were at present assessed to be economically infeasible. Approaches G, (Separating Stormwater and Non-Contact Cooling Water Conveyances and Treating Stormwater End of Pipe), requires extensive construction of piping network. Both approaches G and H (treating stormwater and non-contact cooling water end of pipe) would require enormous treatment media usage and treatment system infrastructure. The extremely high anticipated costs would be disproportionately large compared to estimated benefits to Cape Fear River loading reductions, particularly as Outfall 002 at present is only a relatively small contributor to River loadings.

Table 3: Potential Outfall 002 Control Approaches

Potential Outfall 002 Control Approaches	Years to Implement	HFPO-DA Reduction to Outfall 002	HFPO-DA Reduction to Cape Fear River	Technologically and Economically Feasible
A: Targeted Sediment Removal – *Proposed Action 3*	1	NQ Note 1	NQ Note 1	✓
B: Develop and Implement a SWPPP – *Proposed Action 4*	1	NQ Note 1	NQ Note 1	✓
C: Targeted Stormwater Source Control and/or Treatment – *Proposed Action 5*	4	16 to 30%	1%	✓
E: Reducing Potential Groundwater Intrusion – *Proposed Action 7*	3 to 5	6 to 13%	0.5%	✓
D: Decommissioning and Replacing the Remaining Portion of the Terracotta Pipe – *Proposed Action 6*	2	1 to 2%	0.1%	✓
F: Additional Investigation to Assess and Control Dry Weather Cooling Water Channel Sources – *Note 1*	2 to 4 Note 1	4 to 8%	0.2 to 0.4%	✓ Note 1
G: Separating Stormwater and Non-Contact Cooling Water Conveyances and Treating Stormwater End of Pipe	5	40%	2%	×
H: Treating Stormwater and Non-Contact Cooling Water End of Pipe	3	80%	3%	×

NQ – not quantifiable

1 – Targeted sediment treatment, SWPPP actions and targeted stormwater source control and treatment may accomplish Cooling Water Channel loading reductions making no additional benefit to further investigations. The range of 2 to 4 years for these additional investigations recognizes that the targeted sediment removal and targeted stormwater approaches would be attempted first in this sequence.

Table 4: Estimated Outfall 002 HFPO-DA Reductions by Conveyance Network Flow Component

Conveyance Network Flow Component	Actions Estimated to Contribute to Loading Reductions	Estimated Range of HFPO-DA Reductions at Outfall 002
2018 to 2019 Reductions	- Air abatement, - Site practices	8%
Stormwater (Targeted Areas)	- Action 5 – Targeted Stormwater	16 to 30%
Open Channel to Outfall 002	- Action 3 – Sediment Removal - Action 4 – SWPPP - Action 7 – Assess Groundwater Intrusion	6 to 13%
Wastewater Treatment Plant / Terracotta Pipe	- Action 6: Terracotta Pipe	1 to 2%
Cooling Water Channel* (i.e. CWC)	- Action 3 – Sediment Removal - Action 4 – SWPPP - Action 5 – Targeted Stormwater - If needed, further assessment - As Needed Investigation and Control of Dry Weather Loading Sources	4 to 8%
Total		**35% to 61%**

* The anticipated reduction percentages presented for the Cooling Water Channel assume that sediment removal, stormwater actions and SWPPP together will accomplish the estimated reductions shown here and if not then the Cooling Water Channel investigation and control of dry weather loading sources, which is a potential action under consideration not a proposed action at this time, would be implemented later as necessary.

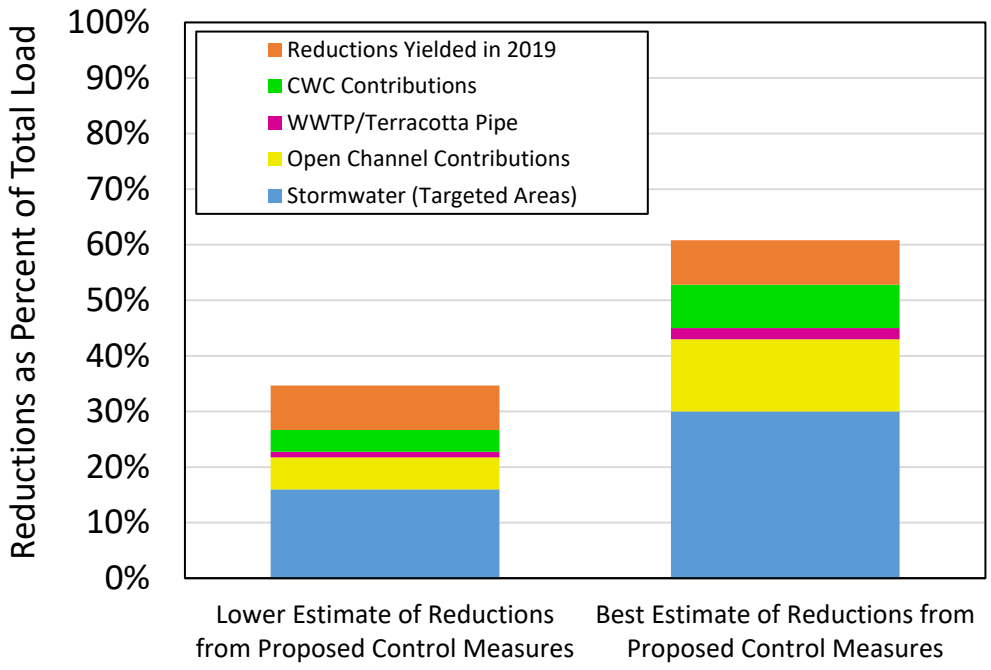

Figure 7: Lower and Best Estimates of HFPO-DA Load Reductions in Outfall 002 Compared to 2018 Loads.

The anticipated reduction percentages presented for the Cooling Water Channel assume that sediment removal, stormwater actions and SWPPP together will accomplish the estimated reductions shown here and if not then the Cooling Water Channel investigation and control of dry weather loading sources, which is a potential action under consideration not a proposed action at this time, would be implemented later as necessary.

CWC – Cooling Water Channel
WWTP – Wastewater Treatment Plant

6 SUMMARY

To date Chemours has reduced the loading of HFPO-DA in the Cape Fear River by over 95%. Chemours is committed to further reducing PFAS loadings, including HFPO-DA, to the Cape Fear River. Pursuant to Consent Order Paragraph 12 Geosyntec has developed the proposed recommended actions detailed in this plan and Chemours anticipates that following NCDEQ and CFRW review, the parties will come to an agreement to amend the Consent Order to incorporate the proposed recommended actions.

This reduction plan proposes seven actions that would reduce the Total Table 3+ PFAS loadings in the Cape Fear River by greater than 50% from observed May and June 2019 levels. These actions will be implemented over a two to five-year period upon Consent Order Amendment.

The selection of these actions was supported by numerous field investigations, development of a PFAS Mass Loading Model and an assessment of HFPO-DA and PFMOAA at Outfall 002. The PFAS Mass Loading Model identified three PFAS transport pathways (the Old Outfall 002 onsite groundwater and Seeps) as primary contributors to Cape Fear River Table 3+ PFAS mass loading. Consequently, two of the actions focus on reducing mass loading from these pathways. The Outfall 002 assessment identified areas of HFPO-DA and PFMOAA loading in the Site Conveyance network that guided the selection of five actions to reduce HFPO-DA and PFMOAA loading at Outfall 002.

Chemours is also advancing additional characterization efforts at the Site to support the selection and placement of these and other actions to further reduce PFAS loading originating from the facility to the Cape Fear River. These potential additional actions will be evaluated in the Corrective Action Plan due December 31, 2019.

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ATTACHMENT 1:

Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes

Geosyntec consultants

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

CAPE FEAR RIVER PFAS MASS LOADING MODEL ASSESSMENT AND PARAGRAPH 11.1 CHARACTERIZATION OF PFAS AT INTAKES

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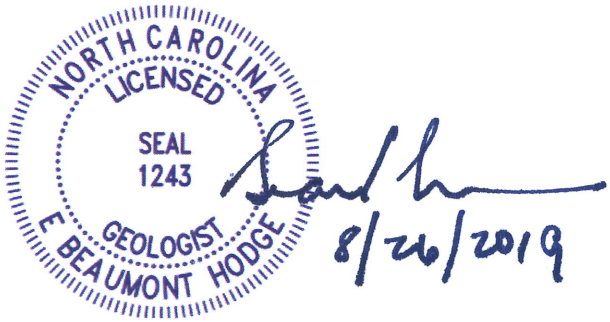
ACRONYMS AND ABBREVIATIONS

%	Percent
bgs	Below Ground Surface
CFPUA	Cape Fear Public Utility Authority
CO	Consent Order
CSM	Conceptual Site Model
DuPont	E.I. du Pont de Nemours and Company
EPA	Environmental Protection Agency (United States)
ft	Feet
HPT/EC	Hydraulic Profiling Tool and Electrical Conductivity
HFPO-DA	Hexafluoropropylene oxide dimer acid
LTW	Long-Term Wells
MSL	Mean Sea Level
m/s	Meters per Second
NCDEQ	North Carolina Department of Environmental Quality
NRMSE	Normalized Root Mean Square Error
NVHOS	Perfluoroethoxysulfonic acid
PFAS	Per- and polyfluoroalkyl substances
PMPA	Perfluoro-2-methoxypropanoic acid
PVF	Polyvinyl Fluoride
SOP	Standard Operating Protocol
USGS	United States Geological Survey
WWTP	Wastewater Treatment Plant

This report has been prepared under the direction of a North Carolina Licensed Geologist, subject to limitations of currently available data in an ongoing site investigation. Geosyntec Consultants of NC, PC is licensed to practice geology in North Carolina. The certification number (Firm's License Number) is C-295. Geosyntec Consultants of NC, PC is licensed to practice engineering in North Carolina. The certification number (Firm's License Number) is C-3500.



Not considered final until all signatures have been applied.

EXECUTIVE SUMMARY

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this report for The Chemours Company FC, LLC (Chemours) to describe the mass loading model developed to inform a plan to reduce per- and polyfluoroalkyl substances (PFAS) to the Cape Fear River from the Chemours Fayetteville Works Site (the Site) pursuant to Paragraph 12 of the executed Consent Order (CO) dated 25 February 2019 among the North Carolina Department of Environmental Quality (NCDEQ), Cape Fear River Watch, and Chemours. The model presented in this report is required by Consent Order Paragraph 12 and is one of four documents supporting the *Cape Fear River PFAS Reduction Plan* ("the Reduction Plan"). The objective of the model is to identify the PFAS loading from transport pathways originating from the Site to the Cape Fear River. This objective is accomplished by estimating total PFAS mass loading originating from the Site to the Cape Fear River, including estimates of loading from nine transport pathways, and comparing these estimates to empirically measured PFAS loading in the Cape Fear River. The results of the modeling analysis have been used to support the selection of PFAS mass loading reduction actions being proposed in the Reduction Plan.

PFAS mass loading is defined, in this model, as the combined mass per unit time (e.g. nanograms per second) from potential sources. The model estimates PFAS contributions from nine pathways (i.e. compartments) such as various creeks and groundwater to estimate Cape Fear River mass loading using measured Cape Fear River flow volumes. These estimated mass loading are then compared to measured in-river mass loading as an assessment of model calibration. The mass loading model constructed, calibrated, and applied is a quantitative estimate of the current understanding of the conceptual site model and transport pathways. It is based on availability of data points, and thus in a complex and dynamic environment, there are uncertainties. The model was constructed based on discrete field observations, which were then interpolated to approximate conditions across the model domain and assumed to be representative in between the measured points. This model is useful to identify trends in mass loading to the Cape Fear River for a range of conditions and support identification of potential target pathways for actions to achieve objectives for mass loading and corresponding concentration reductions of Site associated PFAS in the Cape Fear River.

A total of 21 iterative calibration scenarios were performed to optimize the model-estimated total Table 3+ mass loading in the Cape Fear River to approximately match empirical mass loading at the Bladen Bluffs raw water intake based on the May and June 2019 field programs. For each calibration iteration, the estimated total Table 3+ mass loading to the river was compared to empirical loading at Bladen Bluffs, for the same sampling time period and five input parameter scenarios (1st quartile, median, 3rd quartile, average and geometric mean values for concentration and flow) to assess how the variability in the possible set of input parameters chosen would affect

results. Calibrated model-fit was tested through computation of a normalized root mean square error (NRMSE) between modeled and empirical mass loading. Calibration results indicate that a lower bound NRMSE of 0.16 was achieved assuming the 1st quartile model input parameter values for nine calibration steps. To identify a best-fit model amongst these nine calibrations steps, the lowest sum of NRMSE between modeled and empirical mass loading for all five input parameter scenarios was evaluated. Calibration results indicate that a best-fit model was achieved for calibration step 8 assuming the 1st quartile model input parameter values. The best-fit model identified in calibration assumes the following 1st quartile model input parameter values: (a) onsite discharge area of 58%; (b) upper Black Creek Aquifer hydraulic conductivity of $1x10^{-6}$ meters per second (m/s); (c) lower Black Creek Aquifer hydraulic conductivity of $1.5x10^{-4}$ m/s; and (d) offsite Surficial Aquifer hydraulic conductivity of $2.5x10^{-4}$ m/s.

From the nine transport pathways evaluated the mass loading model estimates that the Old Outfall 002 and Seeps (Transport Pathways 7 and 6 respectively) are the largest contributors of Table 3+ PFAS mass to the Cape Fear River based on inputs from the two mass loading characterization events (May and June 2019). These two pathways combined contribute approximately 53% to 55% of the loading of Table 3+ PFAS to the Cape Fear River. Onsite groundwater (Transport Pathway 5) is the next largest contributing mass loading pathway to the Cape Fear River with 17% and 22%.

Additional assessments and characterization of onsite groundwater are currently being undertaken, including preparing a numerical groundwater model to evaluate groundwater interactions with the Cape Fear River and to evaluate the efficacy and support design of potential future actions. Additionally, six more quarterly field events evaluating mass loading to the river will be completed to assess and refine these mass loading findings over time and in different weather and seasonal conditions.

Pathway	Total Table 3+ Estimated Loading Percentage per Pathway per Event	
	May 2019 Event	June 2019 Event
[1] Upstream River Water and Groundwater	4%	15%
[2] Willis Creek	10%	4%
[3] Aerial Deposition on Water Features	< 2%	< 2%
[4] Outfall 002	4%	7%
[5] Onsite Groundwater	22%	17%
[6] Seeps	32%	24%
[7] Old Outfall 002	23%	29%
[8] Offsite Adjacent and Downstream Groundwater	< 2%	< 2%
[9] Georgia Branch Creek	4%	3%

Using a combination of mass loading model assessment results and observed PFAS concentrations at downriver raw water intakes, an assessment was performed pursuant to Paragraph 11.1 of the Consent Order, to estimate the percentage of PFAS loading at downriver raw water intakes as originating from the Site, other sources, or at present unknown sources (which could be either the Site or the other sources). On a total PFAS basis this analysis indicated that at Bladen Bluffs and Kings Bluff raw water intakes for the May and June 2019 sampling events, between 68% to 84% of PFAS may have originated from the Site. Meanwhile, between 13% to 29% of PFAS may have originated from other, non-Chemours sources and 2% to 3% may have originated from unknown sources which may potentially be non-Chemours or Chemours sources; the unknown sources will assessed in upcoming planned characterization activities. Actions proposed in the Reduction Plan and the upcoming Corrective Action Plan due on December 31, 2019 will reduce the total PFAS loading to the Cape Fear River and significantly reduce the loading originating from the Site.

The mass loading model developed provides a basis for continued evaluation of the PFAS mass load contributions to the Cape Fear River. Additional sampling events are planned, and this data will be used in the model to confirm the parameters used to date. In the first two sampling events, the largest contributing pathways are the seeps (A to D) and Old Outfall 002. The mass loading model will serve to inform proposed PFAS loading reductions and as remedial measures are put in place to then support quantification of PFAS loading reductions.

1. INTRODUCTION

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this report which describes the mass loading model assessment completed for The Chemours Company FC, LLC (Chemours) for the Fayetteville Works (Site) in Bladen County, North Carolina. This report describes a mass loading model that was developed to inform a plan to reduce per- and polyfluoroalkyl substances (PFAS) to the Cape Fear River from the Site pursuant to Paragraph 12 of the executed Consent Order (CO) dated 25 February 2019 among the North Carolina Department of Environmental Quality (NCDEQ), Cape Fear River Watch, and Chemours. This report also presents a characterization of PFAS at downstream raw water intakes based on the mass loading model assessment pursuant to Paragraph 11.1 of the CO.

CO Paragraph 12 relates to the "Accelerated Reduction of PFAS Contamination in the Cape Fear River and Downstream Water Intakes" and requires the development of a model that accounts for sources of PFAS from the Facility contributing loading of PFAS into the Cape Fear River, Willis Creek, Georgia Branch, and Old Outfall 002. Geosyntec has been approved by NCDEQ and contracted by Chemours to perform the modeling effort for CO Paragraph 12(b). This model is presented here in this report.

1.1 Objectives

The objective of this report is to describe the modeling analyses (the PFAS mass loading model) undertaken to estimate PFAS mass loading originating from the facility to the Cape Fear River directly and through Willis Creek, Georgia Branch Creek, Old Outfall 002, four groundwater seeps on the bluff near the manufacturing area to the Cape Fear River, and discharging groundwater that reach the Cape Fear River from the Site.

The objective of the model is to evaluate total PFAS mass loading originating from the facility to the Cape Fear River and estimate the percentage of mass loading coming from each transport pathway in empirically measured PFAS mass in the river. The results of the modeling analysis will be used to support the selection of PFAS mass loading reductions actions by helping identify which transport pathways contribute the most to total PFAS loading from the facility in the Cape Fear River.

PFAS mass loading is defined, in this model, as the combined mass per unit time (e.g. nanograms per second) from potential sources. The model estimates PFAS contributions from multiple pathways (i.e. compartments) such as various creeks and groundwater to estimate Cape Fear River concentrations using measured Cape Fear River flow volumes. These estimated concentrations are then compared to measured in-river concentrations as an assessment of model calibration. Results from the calibrated model are then used in combination with known background and upstream

PFAS concentrations to characterize PFAS mass loading contributions from the Site to downstream raw water intakes, as required in Paragraph 11.1 in the CO, and assess potential reductions in PFAS mass loading to the Cape Fear River.

1.2 Document Organization

The remainder of this document contains the following sections:

- **Section 2 – Site Background** – this section describes Site background and use;
- **Section 3 – Site Setting** – this section describes the Site setting, including the current understanding of the conceptual site model and potential transport pathways for PFAS originating from the facility;
- **Section 4 – PFAS Mass Loading Model Design** – this section describes how the PFAS mass loading model was constructed and developed;
- **Section 5 – Model Calibration and Sensitivity Analysis –** this section describes how the model was calibrated, including calibration datasets; and procedures for addressing uncertainties associated with the model;
- **Section 6 – Limitations and Assumptions** – this section presents a discussion of some limitations and assumptions of the mass loading model assessment;
- **Section 7 – Supplemental Activities –** this section summarizes additional and ongoing field activities;
- **Section 8 – Paragraph 11.1 Characterization of PFAS Mass Loading in Downstream Raw Water Intakes** – this section describes PFAS mass loading contributions from the Site to downstream raw water intakes;
- **Section 9 – Summary –** this section describes a summary of the mass loading model assessment results as it pertains to the PFAS Reduction Plan; and
- **Section 10 – References –** this section lists work plan reference documentation.

2. SITE BACKGROUND

The Site is located within a 2,177-acre property at 22828 NC Highway 87, approximately 20 miles southeast of the city of Fayetteville along the Bladen-Cumberland county line in North Carolina. Figure 1 presents an overview of the Site. The Site is bounded by NC Highway 87 to the west, Cape Fear River to the east, and on the north and south by undeveloped areas and farmland. Willis Creek and Georgia Branch Creek, tributaries to the Cape Fear River, are located toward the northern and southern property boundaries, respectively, with Georgia Branch Creek being offsite for its entire course.

The Site property was originally purchased by E.I. du Pont de Nemours and Company (DuPont) in 1970 for production of nylon strapping and elastomeric tape. DuPont sold its Butacite® and SentryGlas® manufacturing units to Kuraray America Inc. (Kuraray) in June 2014 and subsequently separated its specialty chemicals business to Chemours in July 2015. Presently, the Site consists of five manufacturing areas (Figure 1): Chemours Monomers IXM (Area 1); Chemours Polymer Processing Aid (PPA; Area 2); Kuraray Butacite® (Area 3); Kuraray SentryGlas® (Area 4); and DuPont Company polyvinyl fluoride (PVF) resin manufacturing unit (Area 5). In addition to the manufacturing operations, Chemours operates two natural gas-fired boilers and a wastewater treatment plant (WWTP) for the treatment of sanitary wastewaters as well as process wastewaters from Kuraray and DuPont.

3. SITE SETTING

A description of the Site setting, including the physical setting of the Site, Site geology and hydrogeology and site associated PFAS were provided in the *Cape Fear River PFAS Mass Loading Model Scope of Work* document (Geosyntec, 2019a). The recent investigation summarized in the *Seeps and Creeks Investigation Report* (Geosyntec 2019b) also provided additional details on the site geology and hydrogeology. A brief summary of the Conceptual Site Model (CSM), as it relates to PFAS loading to the Cape Fear River, and potential transport pathways of PFAS from the Site to the Cape Fear River are summarized here.

The land surface is relatively flat in the manufacturing areas of the Site and slopes down a bluff with about a 100-foot change in elevation towards the Cape Fear River on the east side of the Site. To the north of the Site, the property slopes towards Willis Creek, which is a tributary that discharges to the Cape Fear River. To the south of the manufacturing area is the Old Outfall Channel, which also discharges to the Cape Fear River. Further south, off the Site, is Georgia Branch Creek which is a tributary to the Cape Fear River.

Site Geology

As described by Parsons (2018), Bladen County is within the Coastal Plain Physiographic Province, which consists of a seaward thickening wedge of sedimentary deposits ranging in age from Cretaceous to Recent. Paleozoic metamorphic and igneous rocks underlie these deposits. The Site is underlain by the Black Creek Formation, which is characterized by lignitic clay with thin beds and laminae of fine-grained micaceous sand as well as thick lenses of cross-bedded sand. The upper portion of the formation may also contain glauconitic, fossiliferous clayey sand lenses. The Black Creek Formation and surficial deposits are the principal potable water aquifers in the region.

Based on the lithology logged during previous onsite investigations, the Site is underlain by a fine- to medium-grained sand unit with thin discontinuous interbedded silt/clay lenses. The sand extends to a depth of approximately 65 feet below ground surface (ft bgs) (elevation of +80 feet MSL). The saturated portion of this unit has been identified as the Surficial Aquifer. Beneath this unit is a 7- to 15-foot-thick, laterally-continuous dense clay that has been identified as the Black Creek Confining Unit.

The elevation of this unit (approximately +65 to +77 ft MSL) indicates that it, too, should outcrop along the bluff face adjacent to the Cape Fear River, and potentially along the embankment near Willis Creek. Beneath this confining unit is the Black Creek Aquifer, which is approximately 8 to 20 ft thick and is encountered at depth between 80 and 100 ft bgs (elevation of approximately +45 to +65 ft MSL) at the top of the bluff. Beneath this aquifer is a massive dense clay (with minor

sand stringers) that has been identified as the Upper Cape Fear Confining Unit. This unit was not fully penetrated at the Site; however, it extended to at least 200 ft bgs (elevation of -55 ft MSL).

Beneath the manufacturing area, the uppermost sand unit is locally bisected by an aerially extensive stiff clay lens. This clay lens is limited in lateral extent to the east, north and south by local topography and pinches out (terminates) to the west of the manufacturing area. The depth to the top of the clay lens is approximately 15 to 18 ft bgs. The clay lens becomes thinner moving west across the manufacturing area and ranges from approximately one foot to approximately 19 ft thick.

Site Hydrogeology

The hydrogeology of the Site includes a perched water zone and two aquifers; the Perched Zone, the Surficial Aquifer and the Black Creek Aquifer.

The Perched Zone is aerially limited and generally is located above the top of a discontinuous clay layer present in the manufacturing area. Based on recent investigations and on-going evaluations, the Perched Zone may have been influenced by seepage of surface water through the previously unlined sedimentation basins and infiltration of non-contact cooling water from previously unlined drainage ditches. In 2018, the sedimentation basins and cooling water channel were lined. Perched zone water flows radially from a potentiometric high near the sedimentation basins. Where perched water is present, it is encountered from between 6 to 20 feet bgs. The lateral extent of the Perched Zone is controlled by topography and the lateral extent of the clay lens. The *Seeps and Creeks Investigation Report* (Geosyntec 2019b) indicate seepage faces along the bluff appear to be consistent with Perched Zone water.

The Surficial Aquifer is a shallow unconfined aquifer encountered at approximately 50 ft bgs. Groundwater elevations range from approximately 100 to 107 ft above MSL in the western areas of the Site to approximately 93 ft above MSL in the eastern areas of the Site, indicating that groundwater flow is generally toward the Cape Fear River. The Cape Fear River stage is typically near +30 ft MSL, which is lower than the base elevation of the Surficial Aquifer, indicating that the Cape Fear River is a discharge boundary through seeps and creeks, for the Surficial Aquifer. Based on groundwater elevations near Willis Creek, portions of the creek are “gaining” (groundwater discharges to the creek) and portions are “losing” (surface water infiltrates to the underlying groundwater). Georgia Branch Creek also appears to be a gaining stream near where State Road 1303 crosses Highway 87.

The Surficial and Black Creek Aquifers are mostly separated by the Black Creek confining unit, a clay layer. This clay layer is not fully confining as geological and geochemical data indicate water and PFAS transfer has occurred from the Surficial Aquifer to the Black Creek Aquifer. The Black

Creek Aquifer is the uppermost identified regional hydrogeologic unit. Flow in the Black Creek Aquifer is toward the Cape Fear River. The Cape Fear River stage is also lower than the base of the Black Creek Aquifer, indicating that the Cape Fear River is also a discharge boundary for the Black Creek Aquifer.

Below the Black Creek Aquifer is the Upper Cape Fear Confining Unit. This clay is over 30-feet (ft) thick and is an aquitard to potential further downward flow based on limited onsite geological borings and United States Geological Survey (USGS) groundwater wells at the Site that demonstrate minimal hydraulic connection between the Black Creek Aquifer and the Upper Cape Fear Aquifer. The Black Creek Aquifer typically comprises of fine to medium grained, well sorted sands and appears to be in direct connection to the Cape Fear River along the river bank. However, the upper 20-25 feet of the Black Creek Aquifer near the Cape Fear River is overlain by fine grained materials including silt to sandy and silty clay as noted in the Long-Term Well (LTW) logs. This upper portion of the aquifer is likely to have lower groundwater upwelling to the Cape Fear River in comparison to fine to medium grained, well sorted sands in the lower part of the aquifer.

Historic borings and recent field investigations have shown that the Upper Cape Fear Confining Unit, a regionally extensive lithologic unit comprising of hard, fat clay, underlies the Black Creek Aquifer, at elevations similar to the Cape Fear River bottom. This unit was not fully penetrated at the Site; however, it extended to at least 200 feet bgs (elevation of -55 feet MSL). This clay is over 34-feet (ft) thick and is an aquitard to potential further downward flow based on limited onsite geological borings and USGS groundwater wells at the Site that demonstrate minimal hydraulic connection between the Black Creek Aquifer and the Upper Cape Fear Aquifer.

Recent field investigations have identified that groundwater seeps to surface where the three primary aquifer units onsite intersect the side of the bluff slope below the facility (Geosyntec, 2019b). The groundwater seeps out and flows towards the Cape Fear River in a series of naturally occurring erosional channels. These channels have been observed to contain a steady flow of water where they intersect groundwater. These channels and the water that flows in them are herein referred to as Seeps. The four seeps observed on the eastern bluff adjacent to the Cape Fear River from north to south are named Seep A, Seep B, Seep C and Seep D (Figure 2).

In addition to the onsite seeps, there are three perennial surface water features that are tributaries to the Cape Fear River at or adjacent to the Site. To the north of the Site is Willis Creek, in proximity to the water intake for the Site. To the south of the Site is Georgia Branch Creek which discharges to the Cape Fear River approximately 7,500 feet south of the W.O. Huske Dam. Old Outfall 002 is fed by discharging groundwater and Old Outfall 002 discharges into the Cape Fear River approximately 1,350 feet south of W.O. Huske Dam.

3.2 Cape Fear River and Downstream Public Water Utility Intakes

The Cape Fear River and its entire watershed are located in the state of North Carolina (Figure 3). The Cape Fear River drains 9,164 square miles and empties into the Atlantic Ocean near the City of Wilmington, North Carolina. The Site is situated on the western bank of the Cape Fear River and draws water from the Cape Fear River and returns over 95% of this water via Outfall 002 after being used primarily as non-contact cooling water. Two lock and dam systems with USGS stream gauges are located downstream of the Site: (1) W.O. Huske Lock and Dam, located 0.5 river miles from the Site (USGS 02105500); and (2) Cape Fear Lock and Dam #1, located 55 river miles downstream (USGS 02105769).

The Cape Fear River is also a water source for downstream communities of the Site. Raw water intakes are located at Bladen Bluffs and Kings Bluff Intake Canal, located approximately 5 miles and 55 miles downstream from the Site. These intakes serve as Cape Fear River water intakes for the Lower Cape Fear Water and Sewer Authority which in turn provides water to Cape Fear Public Utility Authority (CFPUA) and other water providers. Drinking water sourced from the Cape Fear River does contain certain chemicals from several sources including 1,4-dioxane, trihalomethanes associated with bromide content in raw river water, pharmaceuticals, personal care products, endocrine disrupting chemicals, and PFAS. A brief description of these chemicals and their presence in the Cape Fear River was reported previously (Geosyntec, 2018b).

3.3 Potential PFAS Transport Pathways to Cape Fear River

Potential pathways for PFAS originating from the Site that may reach the Cape Fear River were identified by reviewing available Site data at the time of this assessment. Nine potential pathways (Table 1) were identified as potentially contributing to observed in-river PFAS concentrations. These pathways represent compartments to model as part of the PFAS loading model. The potential pathways are listed below, and shown on the conceptual diagram provided in Figure 2:

Transport Pathway 1: Upstream Cape Fear River and Groundwater – This pathway is comprised of contributions from non-Chemours related PFAS sources on the Cape Fear River and tributaries upstream of the Site, and upstream offsite groundwater with Table 3+ compounds present from aerial deposition;

Transport Pathway 2: Willis Creek – Groundwater and stormwater discharge and aerial deposition to Willis Creek and then to the Cape Fear River;

Transport Pathway 3: Direct aerial deposition of PFAS on the Cape Fear River;

Transport Pathway 4: Outfall 002 – Comprised of (i) water drawn from the Cape Fear River and used as non-contact cooling water, (ii) treated non-Chemours process water and (iii) Site stormwater, which are then discharged through Outfall 002;

Transport Pathway 5: Onsite Groundwater – Direct upwelling of site groundwater to the Cape Fear River from the Black Creek Aquifer;

Transport Pathway 6: Seeps – Groundwater Seeps (currently identified seeps are A, B, C and D) above the Cape Fear River water level on the bluff face from the facility that discharge into the Cape Fear River;

Transport Pathway 7: Old Outfall 002 – Groundwater discharge to Old Outfall 002 and stormwater runoff that flows into the Cape Fear River;

Transport Pathway 8: Adjacent and Downstream Groundwater – Offsite groundwater adjacent and downstream of the Site upwelling to the Cape Fear River; and,

Transport Pathway 9: Georgia Branch Creek – Groundwater, stormwater discharge and aerial deposition to Georgia Branch Creek and then to the Cape Fear River.

4. PFAS MASS LOADING MODEL DESIGN

The objective of the model is to estimate total PFAS mass loading originating from the facility to the Cape Fear River and estimate the percentage of mass loading coming from each transport pathway in empirically measured PFAS mass loads in the river. The model is comprised of multiple compartments that describe bulk PFAS mass transfer to the Cape Fear River. Each compartment represents a pathway that has been parameterized primarily using measured data. This approach is designed to identify broad trends in mass loading to the Cape Fear River for a range of conditions and to support identification of potential target pathways for actions to achieve objectives for mass load and corresponding concentration reductions of Site associated PFAS in the Cape Fear River.

Site associated PFAS concentrations in the Cape Fear River are derived from the PFAS mass loading to the Cape Fear River and the volume of water flowing through the Cape Fear River. PFAS mass load entering the Cape Fear River is defined in this model as the combined mass per unit time or mass load (e.g. nanograms per second) from potential pathways identified in Section 3.3 above. Total PFAS mass load entering the Cape Fear River is calculated as:

$$CFR_{TM} = \begin{cases} \sum_{n=1}^{n=9}\sum_{i=1}^{i=57} M_{n,i} = \sum_{n=1}^{n=9}\sum_{i=1}^{i=57}\left(C_{n,i} \times Q_n\right) \;:\; Q_n \rightarrow dry\ (February\ 2019). \\ \sum_{n=1}^{n=9}\sum_{i=1}^{i=57} M_{n,i} = \sum_{n=1}^{n=9}\sum_{i=1}^{i=57}\left(C_{n,i} \times Q_n\right) \;:\; Q_n \rightarrow dry\ (May\ 2019). \\ \sum_{n=1}^{n=9}\sum_{i=1}^{i=57} M_{n,i} = \sum_{n=1}^{n=9}\sum_{i=1}^{i=57}\left(C_{n,i} \times Q_n\right) \;:\; Q_n \rightarrow wet\ (June\ 2019). \end{cases}$$

where,

CFR_{TM} = total PFAS mass load entering the Cape Fear River measured in mass per unit time [MT^{-1}], typically nanograms per second.

n = represents each of the 9 potential PFAS transport pathways listed in Table 1. 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 57 PFAS constituents listed in Table 2.

$M_{n,i}$ = mass load of each PFAS constituent *i* from each potential pathway *n* with measured units in mass per unit time [MT^{-1}], typically nanograms per second.

$C_{n,i}$ = concentration of each PFAS constituent *i* from each potential pathway *n* with measured units in mass per unit volume [ML^{-3}], typically nanograms per liter.

Q_n = volumetric flow rate from each potential pathway *n* with measured units in volume per time [L^3T^{-1}], typically liters per second. Three flow conditions, two representing quiescent (*dry*.) conditions in February 2019 and May 2019, and one storm (*wet.*) condition in June 2019 are used to compute total PFAS mass load entering the Cape Fear River.

The Site associated PFAS mass loading for each potential pathway is estimated using the approaches described in the following sub-sections. These estimates are then used to calculate the total PFAS mass loading of Site related PFAS using the above formula for each of the three discrete flow conditions in February, May and June 2019. A similar analytical mass loading model was previously developed for hexafluoropropylene oxide dimer acid (HFPO-DA) in February 2018 (Appendix A of Parsons, 2018a).

Model inputs for each potential pathway (i.e., PFAS concentrations and volumetric flow of water) are a combination of measured data, calculations and professional judgement, as available at the time of model development. Table 1 summarizes the transport pathways and the model input data used for developing this model and is discussed further for each pathway below.

The mass loading pathways contributing to the Cape Fear River, as well as the Cape Fear River itself, represent a complex and dynamic environment. To minimize temporal uncertainties in the model, model input analytical samples and flow measurements were collected during three field investigation programs conducted February 1-7, May 20-30 and June 4-7, 2019. Sample locations, methods and results are described in detail in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b). The *Seeps and Creeks Investigation Report* (Geosyntec, 2019b) characterizes the February and May field programs as "dry weather" events representing baseflow conditions. The June 2019 field program was characterized as a "wet weather" event since there was greater than 0.25 inches of rain in the 72 hours prior to sample collection. These field program characterizations are carried forward in this assessment.

Further, the model is computed assuming representative model input parameter scenarios that encompass a meaningful range of observed values. The model input parameter scenarios discussed here are used to apportion relative mass loading for each potential pathway and assess how the variability in the possible set of input parameters chosen would affect results. The most representative model input parameter scenario is selected based on a comparison of modeled and

empirical mass loading observed at Bladen Bluffs in the Cape Fear River (Section 5). The five model input scenarios for concentrations and flow are:

(1) Input parameters assuming 1st Quartile values for concentration and flow;

(2) Input parameters assuming median values for concentration and flow;

(3) Input parameters assuming 3rd Quartile values for concentration and flow;

(4) Input parameters assuming average values for concentration and flow; and,

(5) Input parameters assuming geometric mean values for concentration and flow.

For each of the three field investigation programs (February, May and June 2019) these model input scenarios were used for this assessment. The following subsections describe how PFAS mass loading from the different PFAS transport pathways listed in Table 1 are estimated in the model and field work that was performed to support these estimations.

4.1 Upstream Cape Fear River (Transport Pathway 1)

The upstream PFAS mass loading contribution to Cape Fear River was estimated using measured Cape Fear River PFAS concentration and flow rates as described below (and see Table 1). Sampling locations, analytical methods and assessment techniques for PFAS concentrations in the Cape Fear River are described in detail in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b). One water sample was collected immediately upstream of the Site and Willis Creek at River Mile 76 to estimate upstream PFAS mass loading contribution to Cape Fear River. River water samples were collected at the thalweg (i.e., deepest point of the river transect) at mid-depth in the water column. As described in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b), additional upstream samples were collected at River Miles -56 and -68 but these were determined to be too far upstream to be representative in this model. PFAS compound analytical data for transport pathway 1 is included in Appendix A.

Volumetric flow rates for the Cape Fear River were measured at the USGS flow gauging station located at the W.O. Huske Dam, ID (USGS# 02105500; USGS, 2019), approximately 0.5 river miles downstream of the Site (Appendix B). Volumetric flow rate immediately upstream of the Site (River Mile 76) was estimated using a volumetric budget accounting for flows between River Mile 76 and the W.O. Huske Dam, as depicted in Figure 3. The volumetric flow rate at River Mile 76 was estimated by subtracting inflows from Willis Creek, upwelling groundwater, seeps to the river, and Outfall 002 and by adding the river water intake from Chemours to the flow rate measurement from the W.O. Huske Dam. Due to the short reach between upstream sample

location and W.O. Huske Dam, the calculated upstream flow rate was similar (≤ ± 2%) to the measured volumetric flow rate at W.O. Huske Dam during the period of sample collection.

4.2 Tributaries – Willis Creek, Georgia Branch Creek, and Old Outfall 002 (Transport Pathways 2, 7 and 9)

Mass loading of PFAS from tributaries to the Cape Fear River used PFAS concentrations and creek flow data (Table 1). Tributaries contributing to PFAS mass loading into the Cape Fear River include Willis Creek, Georgia Branch Creek, and Old Outfall 002. PFAS samples were collected at each tributary at a location near the discharge point to the Cape Fear River, but still far enough upstream in the tributary where they are not potentially influenced by the Cape Fear River. Since analytical sample locations were near the discharge point to the Cape Fear River, model input for tributaries would account for loading from groundwater discharging to the tributary, onsite surface water runoff into the tributary and direct aerial deposition on these tributaries. Analytical results used in the model from each tributary are provided in Appendix A and summarized in Table 3. Sample locations, methods and results are presented in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b).

Volumetric discharge rates for the tributaries were obtained from three independent flow measurement methods as outlined in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b). A summary of the measured and estimated flow values for all tributaries are provided in Table 3 and Appendix B. Detailed methods and results of flow measurements are presented in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b).

4.3 Aerial Deposition to the Cape Fear River (Transport Pathway 3)

The mass loading from direct aerial deposition of PFAS to the Cape Fear River was estimated using air deposition modeling results for HFPO-DA from the Site (ERM, 2018). Average deposition rates to the Cape Fear River were estimated based on the reported aerial extent and deposition contours. Estimated deposition rates were combined with the average river surface area and estimated residence time of flowing Cape Fear River water to estimate a mass loading from aerial deposition. The mass loading of Table 3+ PFAS compounds was estimated by using the relative concentration ratios of other Table 3+ PFAS to HFPO-DA based on measured concentrations from offsite wells. Supporting documentation for this estimation is included in Appendix C.

4.4 Onsite Groundwater (Transport Pathways 5 and 6)

Based on the current characterization of the Site CSM, there are two groundwater PFAS mass loading pathways to the Cape Fear River. First, the indirect pathway of groundwater to seeps to

river, and secondly, the direct pathway of Black Creek aquifer groundwater discharging directly to the river.

4.4.1 Indirect Pathway – Groundwater Seeps to River (Transport Pathway 6)

Four seeps at the Site have been identified and these discharge directly to the Cape Fear River: Seep A, Seep B, Seep C and Seep D (Figure 2). The PFAS mass loading from these seeps to the Cape Fear River was estimated using measured PFAS concentrations) and flow values that are reported in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b) and summarized in Table 3 and Table 4, respectively. Flow rates and PFAS concentrations at Seep A, Seep B and Seep C were measured in February, May and June 2019. Seep D was identified following the February field event, so flow rates and PFAS concentrations were measured in May and June 2019**.**

4.4.2 Direct Pathway – Groundwater Discharge to River (Transport Pathway 5)

The PFAS mass loading of onsite groundwater discharge from the Black Creek Aquifer to the Cape Fear River was developed using a forward assessment based on Darcy's Law using hydrogeological data as described in detail in Appendix D. The PFAS mass loading from onsite groundwater discharge was estimated using groundwater concentration data from LTW wells at the Cape Fear River bank (Appendix A) and estimated volumetric groundwater discharge (Appendix D**)**. Hydraulic parameters used in the calculation included: (1) hydraulic gradients from measured LTW Well water level data and Cape Fear River water gauge heights reported from USGS (USGS, 2019); (2) estimated representative discharge areas in contact with the Cape Fear River; and (3) estimated hydraulic conductivities.

4.5 Outfall 002 and Facility Stormwater Runoff (Transport Pathway 4)

The mass loading of PFAS from Outfall 002 to the Cape Fear River was estimated using measured PFAS concentrations and measured Outfall 002 volumetric flow rates. PFAS concentration data used in the model were compiled from two datasets (Appendix A): (1) composite samples of Outfall 002 water that Chemours collects each week for analysis for HFPO-DA and Table 3+ compounds, and (2) Outfall 002 water samples results reported in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019b). Comparison of Outfall 002 and river intake sample PFAS concentrations show that all Environmental Protection Agency (EPA) Method 537 PFAS compounds (Table 2) in the Outfall 002 were present in intake water from Cape Fear River and did not originate from the Site (Appendix A) as water passed through the conveyance network. These EPA 537 PFAS compounds were assigned zero concentrations for computing analytical summary statistics (Table 3). Additionally, Table 3+ PFAS compounds for Outfall 002 were input into the model after accounting for their contribution from the Cape Fear River. Daily volumetric discharge from Outfall 002 to the Cape Fear River is recorded (Appendix B) and used in the PFAS

Loading Model. These data capture water flowing through Outfall 002, including non-contact cooling water, treated non-Chemours process wastewater (DuPont and Kuraray process water), treated sanitary water and stormwater within the manufacturing area of the Site.

4.6 Offsite Groundwater (Transport Pathway 8)

The offsite groundwater PFAS mass loading contributions were estimated by separating offsite discharging groundwater into different zones based on the distance of the selected area from the Site. In each zone, the discharge mass loading was estimated using measured residential well concentrations (Appendix A) and volumetric discharge rate estimated using Darcy's Law (Appendix E). A detailed description for estimating offsite groundwater mass loading is provided in Appendix E.

5. MODEL CALIBRATION AND SENSITIVITY ANALYSIS

The PFAS mass loading model was calibrated to help provide reasonable estimates of modeled loading contributions to Cape Fear River. The sensitivity of the model to potential variability of input parameters was assessed to understand the uncertainties in the model and identify parameters that may influence PFAS mass loading to the Cape Fear River. Details of the calibration and sensitivity procedures are described below.

5.1 Model Calibration

The mass loading model was calibrated by varying assumed input parameters to achieve a model-estimated, total mass loading in the Cape Fear River generated from all pathways, that best fit with empirical observed mass loading in the river. Empirical mass loading in the Cape Fear River was computed at the Bladen Bluffs raw water intake, approximately 7 miles downstream of the Site (River Mile 84) (Figure 3), to allow for both model calibration and characterization of PFAS at downstream raw water intakes based on the mass loading model assessment. Mass loading at Bladen Bluffs was computed using volumetric flow rates for the Cape Fear River measured at the closest available USGS flow gauging station located at the W.O. Huske Dam and measured analytical results from samples that were collected near the Bladen Bluffs raw water intake (Figure 3).

The mathematical summation of Table 3+ compounds (see Table 2 for a list of Table 3+ compounds) was used in the calibration process. The mass loading estimated from the May and June 2019 field programs were included in the calibration since complete Table3+ analytical data from February was not available at the time of this assessment as a final laboratory standard operating protocol (SOP) had yet to be finalized.

The model was calibrated by adjusting estimated or measured parameters within ranges of reported variabilities or reasonable uncertainties. Parameters that were calibrated were selected based on the relative uncertainty in estimation of parameter, and the relative mass loading contribution of the transport pathway on modeled loading to the river. Based on a review of model parameters, the onsite and offsite groundwater flow parameters were identified for their relatively high uncertainties in estimating mass loading. Other estimated parameters (e.g., aerial deposition contribution) were evaluated as part of a sensitivity analysis described in Section 5.2.

Model calibration was performed by varying the onsite groundwater flow component and the offsite groundwater flow component. The onsite groundwater flow component was varied through (a) modification of the onsite groundwater discharge area; or (b) modification of assumed hydraulic conductivity values for the upper and lower portions of the Black Creek Aquifer (see Appendix D for a description of onsite groundwater flow calculations). The offsite groundwater

flow component was varied through modification of assumed hydraulic conductivity values for the Surficial Aquifer. Model parameters that were varied in the calibration process are indicated in Table 5 and briefly described below.

While the original model assumed a conservative discharge area of 100% along the entire site-side bank of the Cape Fear River (approximately 1 mile long), calibration iterations were performed by assuming 40% to 75% of this area, limits estimated from available lithologic information. An assessment of Cape Fear River bottom temperatures adjacent to the Site to identify potential zones of groundwater upwelling has been recently completed to refine these estimates. Results from this effort will be reported in the *Comprehensive On- and Offsite Assessment Report* pursuant to Paragraph 18 of the Consent Order due September 30, 2019. Further, the assumed hydraulic conductivity values for the upper and lower portions of the Black Creek Aquifer was varied between $5x10^{-7}$ meters per second (m/s) to $1x10^{-6}$ m/s and $1x10^{-4}$ m/s to $2x10^{-4}$ m/s, respectively. Offsite groundwater flow was varied by modifying the hydraulic conductivity values for the Surficial Aquifer from 2.5×10^{-4} m/s, estimated for onsite surficial aquifer (Parsons, 2018b) to 1×10^{-6} m/s, a literature value assumed for silts and silty sands (Freeze and Cherry, 1979).

A total of 21 iterative calibration scenarios were performed to optimize the model-estimated total Table 3+ mass loading in the Cape Fear River to obtain a best fit match to observed mass loading at the Bladen Bluffs raw water intake for May and June 2019 field programs. For each calibration iteration, the estimated total Table 3+ mass loading to the river was compared to empirical loading at Bladen Bluffs, for the same sampling time period and assuming the five input parameter scenarios discussed in Section 4 (1st quartile, median, 3rd quartile, average and geometric mean values for concentration and flow) to assess how the variability in the possible set of input parameters chosen would affect results. Calibrated model-fit was tested through computation of a normalized root mean square error (NRMSE) between modeled and empirical mass loading (Table 5).

Calibration results indicate that a lower bound NRMSE of 0.16 was achieved assuming the 1st quartile model input parameter values for nine calibration steps (steps 5, 6, 7, 8, 15, 16, 17, 19, 20; Table 5). To identify a best-fit model amongst these nine calibrations steps, the lowest sum of NRMSE between modeled and empirical mass loading for all five input parameter scenarios was evaluated. Calibration results indicate that a best-fit model was achieved for calibration step 8 assuming the 1st quartile model input parameter values. Figure 4 presents the best-fit model estimated mass loading assuming the 1st quartile model input parameter values with the observed, empirical mass loading at Bladen Bluffs for the same (median, 3rd quartile, average and geometric mean values for concentration and flow) overestimate the observed, empirical mass loading at Bladen Bluffs for the same sampling time period (Table 5) and are not likely to be appropriate model input metrics. The best-fit model identified in calibration step number 8 (Table 5) assumes

the following 1st quartile model input parameter values: (a) onsite discharge area of 58%; (b) upper Black Creek Aquifer hydraulic conductivity of $1x10^{-6}$ m/s; (c) lower Black Creek Aquifer hydraulic conductivity of $1.5x10^{-4}$ m/s; and (d) offsite Surficial Aquifer hydraulic conductivity of $2.5x10^{-4}$ m/s. Mass loading model results from this best-fit and calibrated model are discussed in the remainder of this report.

Ongoing field work, described in Section 7, is expected to refine some of the parameter estimates discussed here, including refining discharge area estimates and hydraulic conductivity estimates. This calibration iteration was limited to available analytical data collected from two discreet field events in May and June of 2019. Calibration of this model will be an ongoing process that will become more optimized with additional data.

5.2 Model Results

The estimated total Table 3+ PFAS loading, by transport pathway, as calculated from the calibrated mass loading model is summarized in Table 6 and presented in Figure 5. The mass loading model estimates that the Old Outfall 002 and Seeps (Transport Pathways 7 and 6 respectively) have the highest contribution of Table 3+ PFAS mass loading to the Cape Fear River based on inputs from both mass loading characterization events (May and June 2019). These two pathways (Transport Pathways 7 and 6) combined contribute approximately 55% of the loading to the Cape Fear River.

Onsite groundwater (Transport Pathway 5) is the next highest mass loading pathway to the Cape Fear River. Additional assessments and characterization of this component is currently being undertaken as described in Section 7. A numerical groundwater model is also being prepared to evaluate groundwater interactions with the Cape Fear River and to evaluate the efficacy and support design of potential future actions.

The upstream river and groundwater (Transport Pathway 1) is the next highest mass load pathway to the Cape Fear River (4% to 15%). A 10% difference in mass loading between the May and June 2019 characterization events is observed for the upstream river. For upstream river and all Transport Pathways, the loading estimates will vary over time due to a range of possible reasons, including:

- Detections of any PFAS at or near analytical practical quantitation limits have more variability;
- Elevated method reporting limits; and
- Flow rate estimates are over- or under-predicted compared to actual flow rates.

Additionally, Transport Pathway 1 (Upstream river water and groundwater) may have additional variability due to the presence of three Table 3+ compounds, Byproduct 4, Byproduct 5 and perfluoroethoxysulfonic acid (NVHOS) which were observed in the upstream Cape Fear River

sample collected in May and June 2019 at River Miles 56 and 68. The results for these compounds were J-qualified due to variable recoveries in the matrix spikes outside the acceptable range defined in the SOP which may cause the results to be overestimated. The detection of these compounds is not consistent with known transport pathways for PFAS originating from the facility. Specifically, in offsite groundwater, which is the transport pathway leading to upstream detections attributable to aerial emissions of PFAS from the facility, Perfluoro-2-methoxypropanoic acid (PMPA) is the compound detected at the highest concentrations based on groundwater data reported in the Post Florence Report (Geosyntec, 2019d). Therefore, PMPA is expected to be detected first amongst the PFAS potentially reaching the river from offsite groundwater in the upstream river samples. In samples from River Mile 56, only these three Table 3+ samples are detected. While closer to Site in the upstream river at River Mile 68 PMPA is detected consistent with expected trends from offsite groundwater. These observations of Byproduct 4, Byproduct 5 and NVHOS will be further evaluated spatially and temporally through additional sampling events in the Cape Fear River to further understand their concentration and distribution.

Outfall 002 (Transport Pathway 4) contributed 4% – 7% of the total Table 3+ mass load to the Cape Fear River in May and June 2019. Outfall 002 loading rates in 2019, integrating both dry and wet weather periods, are presently 8% lower than in calendar year 2018. This reduction is potentially a result of various completed actions at the Site, including reduced air emissions. Loading at Outfall 002 is expected to continue a downward trajectory year over year. Outfall 002 is further discussed in the *Assessment of HFPO-DA and PFMOAA in Outfall 002 Discharge and Evaluation of Potential Control Options* (Geosyntec, 2019c).

Willis Creek and Georgia Branch Creek (Transport Pathways 2 and 9, respectively) are modeled to contribute between 7% to 14% of the total Table 3+ mass load to the Cape Fear River in May and June 2019. The variation seen in the mass loading contribution is likely due to the possible reasons listed above. As noted in Section 7, additional wells are being installed adjacent to Willis Creek and Georgia Branch Creek to monitor groundwater quality near these tributaries. Aerial deposition and Offsite Groundwater (Transport Pathways 3 and 8, respectively) contributed less than 0.5% of the total mass loading to the Cape Fear River in May and June 2019.

The mass loading model that has been developed can accurately simulate concentrations of PFAS originating from the Site at downstream intakes over time as shown in Figure 6 for Kings Bluff Intake Canal. This plot shows the measured concentrations of HFPO-DA from both raw and finished water samples collected at Kings Bluff Intake Canal compared to modeled concentrations estimated from the mass loading model. HFPO-DA was selected in this representation because of its low detection limit and the availability of public data for the time period simulated. To simulate the modeled time series, the model incorporated the twice weekly Outfall 002 sample concentration results, measured Outfall 002 flow rates and Cape Fear River flow volumes; all other loading parameters developed for the calibrated model were kept constant. This suggests that the

model is also a useful predictive tool to understand the benefit of potential PFAS mass loading reductions to river loads and concentrations.

5.3 Sensitivity Analysis

A sensitivity analysis was performed to assess potential uncertainties in modeled results, specifically how the potential range of model input parameters values affects the estimated PFAS mass loads in the Cape Fear River. Model input parameters for the following Transport Pathways are included in the sensitivity analysis: (a) Aerial deposition rates on the Cape Fear River; (b) Flow rates at Willis Creek, Georgia Branch, Old Outfall 002 and Seep A, Seep B, Seep C and Seep D; (c) Onsite groundwater flow rates; and (d) Offsite groundwater discharge rates. For each test, one of the above Transport Pathway inputs to the calibrated model is varied and the resulting model estimated Total Table 3+ PFAS mass loading is compared with the original calibrated model Total Table 3+ PFAS mass loading. Results of the sensitivity analyses are summarized in Appendix F and described below for each of the Transport Pathways.

(a) Aerial deposition – Aerial deposition of PFAS directly on the Cape Fear River, identified as Transport Pathway Number 3, is estimated using air deposition modeling results for HFPO-DA in October 2018 as described in Appendix C (ERM, 2018). To test the sensitivity of the model to variations in model inputs for this pathway, calculated HFPO-DA deposition on the Cape Fear River was increased six-fold. However, this six-fold increase only resulted in less than 0.5% variation in Total Table 3+ estimated mass loading, suggesting that the mass loading is not very sensitive to variations in Transport Pathway model input.

(b) Flow rates at seeps and tributaries – Flow rates at Willis Creek were first decreased by 10% and 50 % and then increased by the same amount (Appendix F). This variation in flow rate input at Willis Creek only resulted in less than 5% variation in estimated Total Table 3+ estimated mass loading, suggesting that this pathway model input is not very sensitive. Flow rates at Seep A, Seep B, Seep C and Seep D were varied by ±50%. A 50% reduction in seep flow yields less than 8 % decrease in Total Table 3+ estimated mass loading, driven by sensitivity to flows at Seep A and Seep B. A similar 50% increase in seep flow yields less than 14 % increase in Total Table 3+ estimated mass loading, driven by sensitivity to flows at Seep A and Seep B. This suggests that Total Table 3+ estimated mass loading is likely moderately sensitive to seep flow input variations. Sensitivity of Total Table 3+ estimated mass loading to flow rates at Old Outfall 002 were tested by varying measured flow values by ±50% and +100%. A ±50% variation in flow at the Old Outfall 002 yields a 9% to 16% variation in Total Table 3+ estimated mass loading. A +100% variation in flow at the Old Outfall 002 yields a 16% to 21% variation in Total Table 3+ estimated mass loading. These results suggest that the estimated mass loading is moderately sensitive to Old Outfall 002 flow input variations. Flow rates at Georgia Branch Creek were also varied ±50% to yield a ≤ 2% variation

in Total Table 3+ estimated mass loading, suggesting that the mass loading is not very sensitive to variations in Transport Pathway model input.

(c) Onsite groundwater flow – As discussed in Section 5, onsite groundwater model input parameters were varied during the calibration process. Model sensitivity to onsite groundwater flow is evaluated through adjusting the discharge area parameter (see also Appendix D and Appendix F). Results show that a 35% increase in discharge area resulted in a 16% increase in Total Table 3+ estimated mass loading. This suggests that the mass loading is moderately sensitive to variations in Transport Pathway model input.

(d) Offsite groundwater flow - Model sensitivity to offsite groundwater flow is tested through variation of the assumed hydraulic conductivity over two orders of magnitude (Appendix F). However, this large variation in model input only resulted in less than 0.5% variation in Total Table 3+ estimated mass loading, suggesting that the mass loading is not very sensitive to variations in Transport Pathway model input.

In summary, the Total Table 3+ estimated mass loading appears to be most sensitive to flow rates at the Seeps, Old Outfall 002 and onsite groundwater flux.

Additionally, the model sensitivity to variations in reported analytical concentrations that are close to their practical quantitation limits was evaluated. A small increase in analytical concentrations close to their practical quantitation limits, that may be attributable to natural variations or when considering tolerance on QA recoveries, could lead to an analyte detection and additional mass loading. Mass loading is likely to be appreciable in such a scenario for a pathway with a large flow component. The upstream Cape Fear River sample location at River Mile 76, is chosen for this assessment because of its large flow component and analytical results from this sample displayed a number of non-detects in May (40 PFAS compounds non-detect) and June (37 PFAS compounds non-detect). Model sensitivity is evaluated by calculating Total Table 3+ estimated mass loading for Transport Pathway 1, assuming all analytical results lower than the detection limits (i.e., non-detect) values equal to their reporting limit and comparing with the original model, which assumed non-detect values to be zero. Non-detect values were not assumed equal to their reporting limit in the original model input because Total Table 3+ estimated mass loading from the model grossly overestimated the observed empirical Total Table 3+ mass loading at Bladen Bluffs raw water intake due to the large number of non-detects reported in the model dataset. Comparison of Total Table 3+ estimated mass loading for Transport Pathway 1 suggests that assuming non-detect values to be equal to their reporting limit increases their pathway contribution from 8% to 20%. While the upstream Cape Fear River sample at River Mile 76 maybe an extreme sample due to the large number of analytes that were lower than the detection limits, it is evident that the model can be highly sensitive to reported analytical concentrations that are close to their method detection limits. Model sensitivity is likely to be larger as the analytical result gets closer to the method detection limit. As analytical methods improve and detection limits get lower, the model and inherent assumptions will likely need to be re-evaluated.

6. LIMITATIONS AND ASSUMPTIONS

The mass loading model constructed, calibrated, and applied is a quantitative estimate of the current understanding of the conceptual site model and transport pathways. It is based on availability of data points, and thus in a complex and dynamic environment, there are unavoidable uncertainties. The model was constructed based on discrete field-observations, which were then interpolated to approximate conditions across the model domain and assumed to be representative in between the measured points. This model is useful to identify distributions in mass loading to the Cape Fear River for a range of conditions and support identification of potential target pathways for actions to achieve objectives for mass loading and corresponding concentration reductions of PFAS originating from the facility in the Cape Fear River.

This section summarizes the primary uncertainties associated with this model, the physical characterization and potential impacts of the uncertainty.

- Model assessment was primarily developed with available analytical data from three discrete events in 2019 (February, May and June). While seasonal or temporal trends may be captured within these events, a larger input dataset to the model may improve model calibration and its ability to predict mass loading in a dynamic and complex system such as the Cape Fear River. Additional sampling of Seeps and Creeks is planned for, including the installation of flumes to obtain more accurate flow measurements (Geosyntec, 2019b). A numerical groundwater model is being developed and this may help constrain these uncertainties.

- The groundwater mass loading pathway has much more uncertainty than other pathways because it is based on measured concentrations and estimated flow values that have more inherent variability. Groundwater flow is heterogenous, and hydraulic conductivity can vary by orders of magnitude in the same aquifer. Consequently, this leads to a broader uncertainty in groundwater discharge rates. A river bottom temperature field program has been completed to assess if areas of onsite groundwater discharge can be identified.

- Offsite groundwater data is currently based on limited data from residential wells at the time of this assessment. Estimates of additions of Table 3+ compounds from offsite groundwater to the Cape Fear River could be refined with additional PFAS characterization of the Cape Fear River as better analytical capabilities exist for Table 3+ than in June 2018 when the first regional river sampling program was implemented (Geosyntec, 2018b).

7. SUPPLEMENTAL ACTIVITIES

Geosyntec recommends Chemours conduct additional assessment activities regarding the total PFAS loading originating from the facility. These activities will generate additional data that will support continued refinement of the mass loading model. These activities include:

- Completing six additional quarterly assessments of mass loading to the Cape Fear River. Activities in these events will include sampling and flow gauging at the mouths of Seeps A through D, Old Outfall 002, Outfall 002, Willis Creek, Georgia Branch Creek. Also, samples will be collected upstream and downstream of the Site in the Cape Fear River;
- Conducting an assessment of Cape Fear River bottom sediment temperatures adjacent to the Site to identify potential zones of increased groundwater upwelling. This will be reported in the On and Offsite Assessment Report due on September 30, 2019;
- Conducting further site investigation and characterization activities, including the installation of additional monitoring wells onsite to further delineate PFAS concentrations and geology. Multiple wells have been installed as noted below to further assess hydrogeology and groundwater PFAS concentrations. These wells will be reported in the On and Offsite Assessment Report due on September 30, 2019.
    - Fifteen additional wells installed adjacent to the Cape Fear River (six pre-existing wells);
    - Two additional wells installed adjacent to Old Outfall 002 (ten wells were installed adjacent to Old Outfall 002 as part of the PlumeStop™ pilot study (Parsons, 2019);
    - One well installed adjacent to Willis Creek (four pre-existing wells); and
    - Three wells installed adjacent to Georgia Branch Creek (no pre-existing wells).
- Characterizing further the geology and hydrogeology at 24 locations adjacent to the Cape Fear River using hydraulic profiling and electrical conductivity (HPT/EC) tools. This characterization will be reported in the On and Offsite Assessment Report due on September 30, 2019;
- Preparing a numerical model to evaluate groundwater flow conditions in the three water bearing units at Site and evaluate groundwater interactions with the Cape Fear River, to assess the efficacy and support design of potential future actions. This will be prepared to support the Corrective Action Plan due December 31, 2019; and
- Installing 20 offsite monitoring wells to support further understanding of the horizontal and vertical distribution of PFAS originating from the facility potentially present offsite. These wells will be reported in the On and Offsite Assessment Report due on September 30, 2019.

8. CONSENT ORDER PARAGRAPH 11.1 ANALYSIS

Pursuant to Paragraph 11.1 of the Consent Order, this analysis estimates the percentage of PFAS loading detected at downriver raw water intakes as originating from Chemours, other, or unknown sources. Specifically, the Consent Order requires:

> *Chemours shall submit an analysis to DEQ reporting contributions of PFAS (including identification and mass loading of each PFAS) from the Facility to the raw water intakes of downstream public water utilities.*

To facilitate this analysis, Chemours collected samples from the Cape Fear River adjacent to the Bladen Bluffs and Kings Bluff raw water intakes in May and June 2019 (Creeks and Seeps Investigation; Geosyntec, 2019b) and analyzed these samples to quantitate PFAS by laboratory methods Table 3+ and EPA 537. The total concentrations for these samples are presented in Tables 8A to 8D and in the intext table below along with the attribution of each compound to the three identified categories of sources. These sources are as follows:

- PFAS Originating from the Site – This includes PFAS detected in the Cape Fear River that were assessed to originally or directly have come from PFAS releases to the environment at the Site and have reached the Cape Fear River via one of the nine transport pathways described in Section 3.3;

- PFAS Originating from Other Sources – This includes PFAS detected in the Cape Fear River that were assessed to come from sources other than the Site;

- PFAS Originating from Unknown Sources – This includes PFAS where the source may potentially either be the facility or other sources, but with the presently available data, the source type could not be determined.

On a total PFAS basis this analysis indicates that at the Bladen Bluffs and Kings Bluff raw water intakes for the May and June 2019 sampling events, between 68% to 84% of PFAS quantitated and detected originate from the Site (Figure 7). Meanwhile, for these quantitated and detected compounds, between 13% and 29% originate from other sources and 2% to 3% originate from unknown sources. Actions proposed by Chemours in the Reductions Plan (Geosyntec, 2019d) and the upcoming Corrective Action Plan due on December 31, 2019 will reduce the total PFAS loading to the Cape Fear River and significantly reduce the loading originating from the facility as is described in the Reductions Plan.

Location	Sampling Event	Total Observed PFAS Concentration (ng/L)	Concentration (ng/L)			Percentage (%)		
			PFAS Originating from Facility	PFAS Originating from Other Sources	PFAS Originating from Unknown Sources	PFAS Originating from Facility	PFAS Originating from Other Sources	PFAS Originating from Unknown Sources
Bladen Bluffs	May-19	361	288	67	6	80%	19%	2%
	Jun-19	188	478	89	16	82%	15%	3%
Kings Bluff	May-19	582	129	54	5	68%	29%	3%
	Jun-19	600	507	77	17	84%	13%	3%

* Note, values may differ slightly from attached tables due to rounding of significant digits for table presentation.

8.1 Assessment Methodology

Observed PFAS mass loading at Bladen Bluffs and Kings Bluff raw water intakes were estimated based on measured concentrations and flow rates during the May 2019 and June 2019 characterization events (Tables 7A and 7B). The contributions per PFAS compound and Transport Pathway to the total mass loading for each of these events were estimated using (1) the percentage of the total mass loading attributed to each Transport Pathway based on the outcome of the mass loading model assessment and (2) the estimated source of PFAS origination per compound per Transport Pathway (Tables 8A, 8B, 8C, and 8D).

The best-fit modeled mass loading for each Transport Pathway are presented for the May 2019 and June 2019 characterization events in Tables 9A and 9B, respectively. The subsequent estimated percentage of each Transport Pathway to the mass loading are presented by compound in Tables 10A and 10B for the May 2019 and June 2019 characterization events, respectively. The observed PFAS mass loading at Bladen Bluffs and Kings Bluff were distributed to each Transport Pathway based on these percentages.

Table 11 summarizes the estimated origination source of PFAS mass loading by compound and Transport Pathway. Percentages of PFAS mass loading generated from the Site, Other sources, or Unknown sources were estimated per compound and per Transport Pathway. The observed PFAS mass loading from each Transport Pathway were distributed based on the source origination percentages to estimate the portion of PFAS loading originating from the Site, Other, and Unknown sources.

8.1.1 PFAS Compound Source Origination Assessment

The source origination assessment for each Transport Pathway was developed as described below.

For Transport Pathway 1 (Upstream River): Table 3+ compounds were estimated to originate from the Site with the exception of Byproduct 4, Byproduct 5 and NVHOS whose detection in upstream river samples was not consistent with known loading pathways for PFAS originating from the Site. The fraction of these compounds originating from the Site was calculated using June event Table 3+ data where the River Mile 76 concentrations of each of the three compounds were subtracted from the River Mile 56 concentrations of each of the three compounds and then divided by the River Mile 76 concentration. The remainder contribution was estimated to originate from Unknown sources. All EPA 537 compounds were estimated to originate from Other sources.

For Transport Pathways 2, 5, 6, and 7 (Willis Creek, Onsite Groundwater, Seeps and Old Outfall 002: All Table 3+ compounds were estimated to originate from the Site. For the EPA 537 compounds, the percentage increase between the median Pathway concentration for all sampling events and the median Upriver [Transport Pathway 1] concentration for all sampling events were estimated to originate from the Site. If the Pathway median was not detected or less than the Upriver concentration, then the contribution from the Site was estimated to be 0%. The remaining EPA 537 compound percentages were estimated to originate from Other sources.

For Transport Pathway 3 (Aerial Deposition on River): All Table 3+ compounds were estimated to originate from the Site. All EPA 537 compounds were estimated to originate from Other sources.

For Transport Pathway 4 (Outfall 002): All Table 3+ compounds and EPA 537 compounds were estimated to originate from the Site. This Pathway only represents new loading introduced by the Site to the river by Outfall 002 and does not account for any offsite loading.

For Transport Pathway 8 (Adjacent and Downstream Groundwater): All Table 3+ compounds were estimated to originate from the Site. For the EPA 537 compounds, the percentage increase between the estimated median offsite groundwater concentration and the median Upriver [Transport Pathway 1] concentration for all sampling events was estimated to originate from Unknown sources. If the estimated median offsite groundwater concentration was not detected or less than the median Upriver concentration, then the Unknown portion was considered 0%. The remaining EPA 537 compound percentages were estimated to originate from Other sources.

For Transport Pathway 9 (Georgia Branch Creek): All Table 3+ compounds were estimated to originate from the Site. For the EPA 537 compounds, the percentage increase between the median Pathway concentration for all sampling events and the median Upriver [Transport Pathway 1] concentration for all sampling events was estimated to originate from Unknown sources. If the median Pathway concentration was not detected or less than the median Upriver concentration, then the Unknown portion was considered 0%. The remaining EPA 537 compound percentages were estimated to originate from Other sources.

9. SUMMARY

A mass loading model was developed to inform a plan to reduce PFAS to the Cape Fear River from the Chemours Fayetteville Works Site pursuant to Paragraph 12 of the executed CO dated 25 February 2019 among NCDEQ, Cape Fear River Watch, and Chemours. The objective of the model is to identify which of the nine potential transport pathways, presently identified in the CSM, contribute significant PFAS load, originating from the Site, to the Cape Fear River. This objective is accomplished by estimating total PFAS mass loading originating from the facility to the Cape Fear River, including estimates of loading from each of the potential transport pathways identified, and comparing these estimates to empirically measured PFAS loading in the Cape Fear River.

PFAS mass loading is defined, in this model, as the combined mass per unit time (e.g. nanograms per second) from potential sources. The model estimates PFAS contributions from multiple pathways (i.e. compartments), such as various creeks and groundwater, that have been parameterized primarily using measured data (Geosyntec, 2019b), to estimate Cape Fear River mass loading using measured Cape Fear River flow volumes. These estimated mass loading are then compared to measured in-river mass loading as an assessment of model calibration. For each calibration iteration, the estimated total Table 3+ mass loading to the river was compared to empirical loading at Bladen Bluffs, for the same sampling time period (May and June 2019) and five input parameter scenarios (1st quartile, median, 3rd quartile, average and geometric mean values for concentration and flow). Five input parameter scenarios were chosen to assess how the variability in the possible set of input parameters chosen would affect results and apportion relative mass loading for each potential pathway. The most representative model input parameter scenario is selected based on computation of a NRMSE between modeled and empirical mass loading observed at Bladen Bluffs in the Cape Fear River. The best-fit model identified in calibration assumes the following 1st quartile model input parameter values: (a) onsite discharge area of 58%; (b) upper Black Creek Aquifer hydraulic conductivity of 1x10-6 m/s; (c) lower Black Creek Aquifer hydraulic conductivity of 1.5x10-4 m/s; and (d) offsite Surficial Aquifer hydraulic conductivity of 2.5x10-4 m/s.

The mass loading model estimates that the Old Outfall 002 and Seeps (Transport Pathways 7 and 6 respectively) have the highest contribution of approximately 53% to 55% of the Table 3+ PFAS mass loading to the Cape Fear River based on inputs from both mass loading characterization events (May and June 2019). Onsite groundwater (Transport Pathway 5) is the next highest mass loading pathway to the Cape Fear River between 17% and 22%. Additional assessments and characterization of onsite groundwater is currently being undertaken. A numerical groundwater model is also being prepared to evaluate groundwater interactions with the Cape Fear River and to evaluate the efficacy and support design of potential future actions. Additionally, six more

quarterly field events evaluating mass loading to the river will be used to assess and refine these mass loading findings over time and in different weather and season conditions.

An assessment of PFAS loading at downriver raw water intakes was performed pursuant to Paragraph 11.1 of the Consent Order, using a combination of mass loading model assessment results and observed PFAS concentrations at Raw Water Intake. An estimate of the percentage of PFAS loading at downriver raw water intakes as originating from the Site, other sources or at present unknown sources which could be either the facility or the other sources was evaluated. On a total PFAS basis, this analysis indicated that at Bladen Bluffs and Kings Bluff raw water intakes for the May and June 2019 sampling events, between 68% to 84% of PFAS may have originated from the Site. Meanwhile for these quantitated and detected compounds between 13% to 29% originate from other sources and 2% to 3% originate from unknown sources. Actions proposed by Chemours in the Reduction Plan (Geosyntec, 2019d) and the upcoming Corrective Action Plan due on December 31, 2019 will reduce the total PFAS loading to the Cape Fear River and significantly reduce the loading originating from the facility as is described in the Reduction Plan.

The mass loading model constructed, calibrated, and applied is a quantitative estimate of the current understanding of the conceptual site model and transport pathways. It is based on availability of data points, and thus in a complex and dynamic environment, there are unavoidable uncertainties. The model was constructed based on discrete field-observations, which were then interpolated to approximate conditions across the model domain and assumed to be representative in between the measured points. This model is useful to identify trends in mass loading to the Cape Fear River for a discreet range of conditions and support identification of potential target pathways for actions to achieve objectives for mass loading and corresponding concentration reductions of Site associated PFAS in the Cape Fear River.

10. REFERENCES

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TABLES

TABLE 1
PFAS MASS LOADING MODEL POTENTIAL PATHWAYS
Chemours Fayetteville Works, North Carolina

Transport Pathway Number	Potential PFAS Transport Pathway	Analytical Data Source for Mass Loading Model[1]	Flow Data Source for Mass Loading Model[1]
1	Upstream River and Groundwater	Measured from Cape Fear River samples collected in February, May, and June 2019 as reported in Seeps and Creeks Investigation Report[2].	Measured flow rates from USGS gauging station at W.O. Huske Dam during February, May and June 2019 volumetrically adjusted for flow pathways between River Mile 76 and W.O. Huske Dam[3].
2	Willis Creek	Measured from Willis Creek samples collected in February, May, and June 2019 as reported in Seeps and Creeks Investigation Report[2].	Measured flow rates through salt dilution tests, weir gauging and point velocity methods during February, May and June 2019 as reported in Seeps and Creeks Investigation Report[2].
3	Aerial Deposition on River	Estimated from air deposition modeling[4].	Estimated from air deposition modeling[4].
4	Outfall 002	Measured from Outfall 002 samples collected in February, May, and June 2019 as reported in Seeps and Creeks Investigation Report[2].	Measured daily Outfall 002 flow rates.
5	Onsite Groundwater	Measured from LTW well samples in October and November 2018, reported in Post Florence Report[5].	Estimated from calculated hydraulic gradients based on June 2019 water levels and hydraulic conductivities of LTW wells from slug tests performed in 2019. Supporting calculations provided in Appendix C.
6	Seeps	Measured from Seeps A, B, C, and D samples collected in February, May, and June 2019 as reported in Seeps and Creeks Investigation Report[2].	Measured flow rates through salt dilution tests, weir gauging and point velocity methods during February, May and June 2019 as reported in Seeps and Creeks Investigation Report[2].
7	Old Outfall 002	Measured from Old Outfall 002 samples collected in February, May, and June 2019 as reported in Seeps and Creeks Investigation Report[2].	Measured flow rates through salt dilution tests, weir gauging and point velocity methods during February, May and June 2019 as reported in Seeps and Creeks Investigation Report[2].
8	Adjacent and Downstream Groundwater	Estimated from residential well samples collected between September 2017 and April 2019. Supporting calculations provided in Appendix D.	Estimated from calculated hydraulic gradients based on June 2019 water levels and calculated hydraulic conductivities of LTW wells from slug tests performed in 2019. Supporting calculations provided in Appendix D.
9	Georgia Branch Creek	Measured from Georgia Branch Creek samples collected in May, and June 2019 as reported in Seeps and Creeks Investigation Report[2].	Measured flow rates through salt dilution tests, weir gauging and point velocity methods during February, May and June 2019 as reported in Seeps and Creeks Investigation Report[2].

Notes

1. Flow and concentration data are multiplied together to estimate the PFAS mass load in the Cape Fear River originating from each pathway.
2. Seeps and Creeks Investigation Report, Geosyntec, 2019.
3. Cape Fear River flow rates measured at USGS gauging station #02105500 located at William O Huske Lock & Dam accessed from https://waterdata.usgs.gov on 2019-07-12 23:42:42 EDT.
4. ERM, 2018. Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.
5. Post Hurricane Florence PFAS Characterization Report, Geosyntec 2019.

TABLE 2
ANALYTICAL METHODS AND ANALYTE LIST
Chemours Fayetteville Works, North Carolina

Analytical Method	Common Name	Chemical Name	CASN	Chemical Formula
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	C6HF11O3
	PEPA	Perfluoroethoxypropylcarboxylic acid	267239-61-2	C5HF9O3
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	C12H9F9O3S
	PFMOAA	Perfluoro-2-methoxyacetic acid	674-13-5	C3HF5O3
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	C4HF7O4
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic)acid	39492-89-2	C5HF9O5
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic)acid	39492-90-5	C6HF11O6
	PMPA	2,3,3,3-Tetrafluoro-2-(trifluoromethoxy)propanoic	13140-29-9	C4HF7O3
	Hydro-EVE Acid	Hydro-EVE Acid	773804-62-9	C8H2F14O4
	EVE Acid	Perfluoroethoxypropionicacid	69087-46-3	C8HF13O4
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	C5HF9O4
	R-EVE	R-EVE	EVS1428	C8H2F12O5
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	C7HF13O7
	Byproduct 4	Byproduct 4	EVS1429	C7H2F12O6S
	Byproduct 5	Byproduct 6	EVS1430	C6H2F12O4S
	Byproduct 6	Byproduct 5	EVS1431	C7H3F11O7S
	NVHOS	NVHOS	1132933-86-8	C4H2F8O4S
	PES	PES	113507-82-7	C4HF9O4S
	PFESA-BP1	PFESA-BP1	29311-67-9	C7HF13O5S
	PFESA-BP2	PFESA-BP2	749836-20-2	C7H2F14O5S
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	C4HF7O2
	PFDA	Perfluorodecanoic acid	335-76-2	C10HF19O2
	PFDoA	Perfluorododecanoic acid	307-55-1	C12HF23O2
	PFHpA	Perfluoroheptanoic acid	375-85-9	C7HF13O2
	PFNA	Perfluorononanoic acid	375-95-1	C9HF17O2
	PFOA	Perfluorooctanoic acid	335-67-1	C8HF15O
	PFHxA	Perfluorohexanoic acid	307-24-4	C6HF11O2
	PFPeA	Perfluoropentanoic acid	2706-90-3	C5HF9O2
	PFTeA	Perfluorotetradecanoic acid	376-06-7	C14HF27O2
	PFTriA	Perfluorotridecanoic acid	72629-94-8	C13HF25O2
	PFUnA	Perfluoroundecanoic acid	2058-94-8	C11HF21O2
	PFBS	Perfluorobutanesulfonate	375-73-5	C4HF9SO
	PFDS	Perfluorodecanesulfonate	335-77-3	C10HF21O3S
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	C7HF15O3S
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	C6HF13SO3
	PFNS	Perfluorononanesulfonate	68259-12-1	C9HF19O3S
	PFOS	Perfluorosulfonic acid	1763-23-1	C8HF17SO3
	PFPeS	Perfluoropentane sulfonic acid	2706-91-4	C5HF11O3S
	10:2 FTS	Fluorotelomer sulfonate 10:2	120226-60-0	C12H5F21O3
	4:2 FTS	Fluorotelomer sulfonate 4:2	757124-72-4	C6H5F9O3S
	6:2 FTS	Fluorotelomer sulfonate 6:2	27619-97-2	C8H5F13SO3
	8:2 FTS	Fluorotelomer sulfonate 8:2	39108-34-4	C10H5F17O3S
	NEtFOSAA	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	C12H8F17NO4S
	NEtPFOSA	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	C10H6F17NO2S
	NEtPFOSAE	N-ethyl perfluorooctane sulphonamidoethanol	1691-99-2	C12H10F17NO3S
	NMeFOSAA	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	C11H6F17NO4S
	NMePFOSA	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	C9H4F17NO2S
	NMePFOSAE	N-methyl perfluorooctane sulfonamidoethanol	24448-09-7	C11H8F17NO3S
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	C12HF25O3S
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	C16HF31O2
	PFODA	Perfluorooctadecanoic acid	16517-11-6	C18HF35O2
	PFOSA	Perfluorooctane Sulfonamide	754-91-6	C8H2F17NO2S
	F-53B Major	F-53B Major	73606-19-6	C8HClF16O4S
	F-53B Minor	F-53B Minor	83329-89-9	C10HClF20O4S
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	C7H2F12O4
	NaDONA	NaDONA	EVS1361	--
	DONA	DONA	919005-14-4	--

Notes:

1. Abbreviations:

EPA - Environmental Protection Agency

ng/L - nanograms per liter

PFAS - Per- and Polyfluoroalkyl substances

SOP - Standard Operating Procedure

TABLE 3
SUMMARY OF ANALYTICAL RESULTS – TOTAL PFAS AND TOTAL TABLE 3+
Chemours Fayetteville Works, North Carolina

Transport Pathway Number	Potential PFAS Transport Pathway	Common Name	Sampling Event	1st Quartile Concentration (ng/L)	Median Concentration (ng/L)	3rd Quartile Concentration (ng/L)	Average Concentration (ng/L)	Geometric Mean Concentration (ng/L)
1	Upstream River and Groundwater	Total Table 3+	Surface Water 02/19	2.9	2.9	2.9	2.9	2.9
		Total PFAS	Surface Water 02/19	31.7	31.7	31.7	31.7	31.7
		Total Table 3+	Surface Water 05/19	12.8	12.8	12.8	12.8	12.8
		Total PFAS	Surface Water 05/19	67.1	67.1	67.1	67.1	67.1
		Total Table 3+	Surface Water 06/19	69.6	69.6	69.6	69.6	69.6
		Total PFAS	Surface Water 06/19	162.7	162.7	162.7	162.7	162.7
2	Willis Creek	Total Table 3+	Surface Water 02/19	2,048.5	2,260.0	2,471.5	2,260.0	2,163.6
		Total PFAS	Surface Water 02/19	2,075.0	2,286.5	2,498.0	2,286.5	2,190.1
		Total Table 3+	Surface Water 05/19	5,751.5	6,579.0	7,406.5	6,579.0	6,217.7
		Total PFAS	Surface Water 05/19	5,799.5	6,627.0	7,454.5	6,627.0	6,265.7
		Total Table 3+	Surface Water 06/19	2,692.4	2,692.4	2,692.4	2,692.4	2,692.4
		Total PFAS	Surface Water 06/19	2,732.9	2,732.9	2,732.9	2,732.9	2,732.9
4	Outfall 002	Total Table 3+	Surface Water 02/19	26.4	26.4	26.9	26.7	26.7
		Total PFAS	Surface Water 02/19	26.4	26.4	26.9	26.7	26.7
		Total Table 3+	Surface Water 05/19	357.2	594.7	832.3	594.7	318.3
		Total PFAS	Surface Water 05/19	357.2	594.7	832.3	594.7	318.3
		Total Table 3+	Surface Water 06/19	798.7	973.4	1,696.0	1,338.6	1,046.2
		Total PFAS	Surface Water 06/19	798.7	973.4	1,696.0	1,338.6	1,046.2
6A	Seep A	Total Table 3+	Surface Water 02/19	203,062.0	213,337.0	223,612.0	213,337.0	211,983.3
		Total PFAS	Surface Water 02/19	204,040.6	214,315.6	224,590.6	214,315.6	212,961.9
		Total Table 3+	Surface Water 05/19	297,520.5	300,574.0	302,574.0	299,871.7	299,679.2
		Total PFAS	Surface Water 05/19	298,792.3	301,875.8	303,877.9	301,154.9	300,961.8
		Total Table 3+	Surface Water 06/19	197,620.0	197,620.0	197,620.0	197,620.0	197,620.0
		Total PFAS	Surface Water 06/19	198,495.9	198,495.9	198,495.9	198,495.9	198,495.9
6B	Seep B	Total Table 3+	Surface Water 02/19	345,036.5	347,829.0	350,621.5	347,829.0	347,662.8
		Total PFAS	Surface Water 02/19	347,462.5	350,255.0	353,047.5	350,255.0	350,088.8
		Total Table 3+	Surface Water 05/19	309,023.0	309,023.0	309,023.0	309,023.0	309,023.0
		Total PFAS	Surface Water 05/19	310,903.5	310,903.5	310,903.5	310,903.5	310,903.5
		Total Table 3+	Surface Water 06/19	338,288.0	338,288.0	338,288.0	338,288.0	338,288.0
		Total PFAS	Surface Water 06/19	340,652.0	340,652.0	340,652.0	340,652.0	340,652.0
6C	Seep C	Total Table 3+	Surface Water 02/19	343,584.0	346,679.0	348,429.0	345,782.3	345,737.2
		Total PFAS	Surface Water 02/19	345,981.3	349,077.5	350,828.8	348,180.8	348,135.6
		Total Table 3+	Surface Water 05/19	347,669.0	347,669.0	347,669.0	347,669.0	347,669.0
		Total PFAS	Surface Water 05/19	350,121.4	350,121.4	350,121.4	350,121.4	350,121.4
		Total Table 3+	Surface Water 06/19	346,000.0	346,000.0	346,000.0	346,000.0	346,000.0
		Total PFAS	Surface Water 06/19	348,447.3	348,447.3	348,447.3	348,447.3	348,447.3
6D	Seep D	Total Table 3+	Surface Water 02/19	NS	NS	NS	NS	NS
		Total PFAS	Surface Water 02/19	NS	NS	NS	NS	NS
		Total Table 3+	Surface Water 05/19	164,470.0	166,685.0	168,900.0	166,685.0	166,562.5
		Total PFAS	Surface Water 05/19	165,567.6	167,791.7	170,015.7	167,791.7	167,669.0
		Total Table 3+	Surface Water 06/19	155,467.0	155,467.0	155,467.0	155,467.0	155,467.0
		Total PFAS	Surface Water 06/19	156,629.9	156,629.9	156,629.9	156,629.9	156,629.9
7	Old Outfall 002	Total Table 3+	Surface Water 02/19	129,320.0	133,040.0	136,760.0	133,040.0	132,784.7
		Total PFAS	Surface Water 02/19	129,320.0	133,040.0	136,760.0	133,040.0	132,784.7
		Total Table 3+	Surface Water 05/19	112,930.0	112,930.0	112,930.0	112,930.0	112,930.0
		Total PFAS	Surface Water 05/19	113,249.5	113,249.5	113,249.5	113,249.5	113,249.5
		Total Table 3+	Surface Water 06/19	132,549.0	132,549.0	132,549.0	132,549.0	132,549.0
		Total PFAS	Surface Water 06/19	132,884.1	132,884.1	132,884.1	132,884.1	132,884.1
9	Georgia Branch Creek	Total Table 3+	Surface Water 02/19	NS	NS	NS	NS	NS
		Total PFAS	Surface Water 02/19	NS	NS	NS	NS	NS
		Total Table 3+	Surface Water 05/19	2,553.0	2,553.0	2,553.0	2,553.0	2,553.0
		Total PFAS	Surface Water 05/19	2,585.9	2,585.9	2,585.9	2,585.9	2,585.9
		Total Table 3+	Surface Water 06/19	2,517.7	2,517.7	2,517.7	2,517.7	2,517.7
		Total PFAS	Surface Water 06/19	2,547.7	2,547.7	2,547.7	2,547.7	2,547.7

Notes:

1. Total Table 3+ and Total PFAS computed as sum of analytical results for PFAS compounds listed in Table 1, assuming non-detected samples as zero concentrations. Summary statistics for all PFAS compounds listed in Table 1 and additional supporting data provided in Appendix A.

2. Supporting calculations for estimating PFAS concentrations for aerial deposition (transport pathway 3), onsite groundwater (transport pathway 5) and offsite groundwater (transport pathway 8) are provided in Appendices C, D and E.

3. Abbreviations:

ng/L - nanograms per liter

PFAS - Per- and Polyfluoroalkyl substances

NS - Samples not collected during corresponding sampling event.

TABLE 4
SUMMARY OF FLOW RATE INPUT VALUES
Chemours Fayetteville Works, North Carolina

Transport Pathway Number[7]	Potential PFAS Transport Pathway	Sampling Event[1]	1st Quartile Flow (L/s)	Median Flow (L/s)	3rd Quartile Flow (L/s)	Average Flow (L/s)	Geometric Mean Flow (L/s)
1	Upstream River and Groundwater[3]	Surface Water 02/19	138,093	163,837	182,346	170,893	165,672
		Surface Water 05/19	33,559	38,348	44,407	39,974	39,267
		Surface Water 06/19	26,847	29,472	32,248	29,625	29,488
2	Willis Creek	Surface Water 02/19	183	184	186	184	184
		Surface Water 05/19	ok, thanks	184	184	184	184
		Surface Water 06/19	184	184	184	184	184
4	Outfall 002	Surface Water 02/19	813	836	871	868	863
		Surface Water 05/19	1,052	1,082	1,106	1,082	1,081
		Surface Water 06/19	1,151	1,173	1,197	1,175	1,174
5	Onsite Groundwater	Surface Water 02/19	19	21	28	23	23
		Surface Water 05/19	20	22	28	25	24
		Surface Water 06/19	19	21	28	23	23
6A	Seep A	Surface Water 02/19	4	4	4	4	4
		Surface Water 05/19	3	4	4	3	3
		Surface Water 06/19	7	7	7	7	7
6B	Seep B	Surface Water 02/19	5	6	6	6	6
		Surface Water 05/19	5	6	6	6	6
		Surface Water 06/19	3	3	3	3	3
6C	Seep C	Surface Water 02/19	1	1	1	1	1
		Surface Water 05/19	1	1	1	1	1
		Surface Water 06/19	1	1	1	1	1
6D	Seep D[6]	Surface Water 02/19	3	3	3	3	3
		Surface Water 05/19	3	3	3	3	3
		Surface Water 06/19	3	3	3	3	3
7	Old Outfall 002	Surface Water 02/19	24	27	36	33	31
		Surface Water 05/19	21	24	42	30	28
		Surface Water 06/19	28	31	32	29	29
8	Adjacent and Downstream Groundwater	Surface Water 02/19	568	724	962	788	761
		Surface Water 05/19	568	724	962	788	761
		Surface Water 06/19	568	724	962	788	761
9	Georgia Branch Creek	Surface Water 02/19	153	154	154	154	154
		Surface Water 05/19	153	154	154	154	154
		Surface Water 06/19	161	162	165	162	161

Notes:
1. Sampling Event "Surface Water 02/19", "Surface Water 05/19" and "Surface Water 06/19" reported in Seeps and Creeks Investigation Report (Geosyntec, 2019). "Surface Water 02/19" performed February 1 - 7, 2019; "Surface Water 05/19" performed May 20 - 30, 2019; "Surface Water 06/19" performed June 4 - 7, 2019.
2. Flow summary statistics not computed where only minimum and maximum flow values reported in Seeps and Creeks Investigation Report (Geosyntec, 2019).
3. Upstream river flow computed from measured flow rates from USGS gauging station at W.O. Huske Dam during February, May and June 2019 volumetrically adjusted for inflow/outflow from flow pathways 2 - 9 that occur between River Mile 76 (upstream sampling point) and W.O. Huske Dam.
4. Onsite groundwater estimated from calculated hydraulic gradients based on June 2019 water levels and hydraulic conductivities of Long-Term Wells (LTW) from slug tests performed in 2019. Supporting calculations provided in Appendix C.
5. Offsite groundwater estimated from calculated hydraulic gradients based on June 2019 water levels and calculated hydraulic conductivities of LTW wells from slug tests performed in 2019. Supporting calculations provided in Appendix D.
6. Flows at Seep D were not measured in February and May 2019; measurements from June 2019 were used.
7. Supporting calculations for estimating PFAS concentrations for aerial deposition (transport pathway 3), onsite groundwater (transport pathway 5) and offsite groundwater (transport pathway 8) are provided in Appendices C, D and E.
8. Abbreviations:
L/s - liter per second
NA - not applicable.

TABLE 5
MODEL ESTIMATED TOTAL TABLE 3+ MASS LOADING CALIBRATION
Chemours Fayetteville Works, North Carolina

Calibration Step	Event Date	Scenario	Total Table 3+ Mass Loading (mg/s)		NRMSE	Description of changes	Comments
			Model	Observed			
0	May-19	Average	14.09	11.85	0.59	No changes made. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 52%; Offsite gradient adjustment factor = 0.475.	--
	Jun-19	Average	15.86	14.83			
	May-19	Geomean	12.55	11.64	0.21		
	Jun-19	Geomean	14.56	14.76			
	May-19	Median	12.39	11.37	0.22		
	Jun-19	Median	14.60	14.75			
	May-19	Q1	9.99	9.96	0.22		
	Jun-19	Q1	12.37	13.45			
	May-19	Q3	18.06	13.15	1.33		
	Jun-19	Q3	18.83	16.13			
1	May-19	Average	12.71	11.85	0.22	Changed groundwater discharge length from 52% to 41%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 41%; Offsite gradient adjustment factor = 0.475.	Improved NRMSE for average, maximum, minimum and 3rd quantile - worsened for all other metrics. Overall NRMSE not lowest, continue calibration.
	Jun-19	Average	14.48	14.83			
	May-19	Geomean	11.39	11.64	0.31		
	Jun-19	Geomean	13.39	14.76			
	May-19	Median	11.22	11.37	0.28		
	Jun-19	Median	13.43	14.75			
	May-19	Q1	9.29	9.96	0.39		
	Jun-19	Q1	11.67	13.45			
	May-19	Q3	16.16	13.15	0.74		
	Jun-19	Q3	16.93	16.13			
2	May-19	Average	17.10	11.85	1.57	Changed groundwater discharge length from 41% to 76%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 76%; Offsite gradient adjustment factor = 0.475.	Improved NRMSE only for minimum and 1st quartile. Continue calibration.
	Jun-19	Average	18.87	14.83			
	May-19	Geomean	15.09	11.64	0.94		
	Jun-19	Geomean	17.09	14.76			
	May-19	Median	14.94	11.37	0.90		
	Jun-19	Median	17.15	14.75			
	May-19	Q1	11.53	9.96	0.33		
	Jun-19	Q1	13.91	13.45			
	May-19	Q3	22.21	13.15	2.70		
	Jun-19	Q3	22.97	16.13			
3	May-19	Average	15.47	11.85	1.03	Changed groundwater discharge from 76% to 63%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 63%; Offsite gradient adjustment factor = 0.475.	Improved NRMSE for all metrics except minimum and 1st quartile. Continue calibration.
	Jun-19	Average	17.24	14.83			
	May-19	Geomean	13.71	11.64	0.52		
	Jun-19	Geomean	15.72	14.76			
	May-19	Median	13.56	11.37	0.51		
	Jun-19	Median	15.77	14.75			
	May-19	Q1	10.70	9.96	0.17		
	Jun-19	Q1	13.07	13.45			
	May-19	Q3	19.96	13.15	1.95		
	Jun-19	Q3	20.73	16.13			

TABLE 5
MODEL ESTIMATED TOTAL TABLE 3+ MASS LOADING CALIBRATION
Chemours Fayetteville Works, North Carolina

Calibration Step	Event Date	Scenario	Total Table 3+ Mass Loading (mg/s)		NRMSE	Description of changes	Comments
			Model	Observed			
4	May-19	Average	14.71	11.85	0.79	Changed groundwater discharge from 63% to 57%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 57%; Offsite gradient adjustment factor = 0.475.	Improved NRMSE for all metrics except minimum and 1st quartile. Continue calibration.
	Jun-19	Average	16.49	14.83			
	May-19	Geomean	13.08	11.64	0.33		
	Jun-19	Geomean	15.08	14.76			
	May-19	Median	12.92	11.37	0.33		
	Jun-19	Median	15.13	14.75			
	May-19	Q1	10.31	9.96	0.17		
	Jun-19	Q1	12.69	13.45			
	May-19	Q3	18.92	13.15	1.61		
	Jun-19	Q3	19.69	16.13			
5	May-19	Average	15.09	11.85	0.91	Changed groundwater discharge from 57% to 60%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 60%; Offsite gradient adjustment factor = 0.475.	Worsened NRMSE for all metrics except 1st quartile. 1st quartile model input scenario is the lowest NRMSE for all models thus far. Continue calibration to get overall NRMSE for all metrics lower.
	Jun-19	Average	16.86	14.83			
	May-19	Geomean	13.39	11.64	0.42		
	Jun-19	Geomean	15.40	14.76			
	May-19	Median	13.24	11.37	0.42		
	Jun-19	Median	15.45	14.75			
	May-19	Q1	10.51	9.96	0.16		
	Jun-19	Q1	12.88	13.45			
	May-19	Q3	19.44	13.15	1.78		
	Jun-19	Q3	20.21	16.13			
6	May-19	Average	15.22	11.85	0.95	Changed groundwater discharge from 60% to 61%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 61%; Offsite gradient adjustment factor = 0.475.	Worsened NRMSE for all metrics except minimum and 1st quartile. Continue calibration to get overall NRMSE for all metrics lower.
	Jun-19	Average	16.99	14.83			
	May-19	Geomean	13.50	11.64	0.45		
	Jun-19	Geomean	15.51	14.76			
	May-19	Median	13.35	11.37	0.45		
	Jun-19	Median	15.56	14.75			
	May-19	Q1	10.57	9.96	0.16		
	Jun-19	Q1	12.95	13.45			
	May-19	Q3	19.61	13.15	1.84		
	Jun-19	Q3	20.38	16.13			
7	May-19	Average	14.96	11.85	0.87	Changed groundwater discharge from 61% to 59%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 59%; Offsite gradient adjustment factor = 0.475.	Improved NRMSE as compared to run #5 and run #6. Continue calibration.
	Jun-19	Average	16.74	14.83			
	May-19	Geomean	13.29	11.64	0.39		
	Jun-19	Geomean	15.30	14.76			
	May-19	Median	13.13	11.37	0.39		
	Jun-19	Median	15.35	14.75			
	May-19	Q1	10.44	9.96	0.16		
	Jun-19	Q1	12.82	13.45			
	May-19	Q3	19.27	13.15	1.73		
	Jun-19	Q3	20.04	16.13			

TABLE 5
MODEL ESTIMATED TOTAL TABLE 3+ MASS LOADING CALIBRATION
Chemours Fayetteville Works, North Carolina

Calibration Step	Event Date	Scenario	Total Table 3+ Mass Loading (mg/s)		NRMSE	Description of changes	Comments
			Model	Observed			
8	May-19	Average	14.84	11.85	0.83	Changed groundwater discharge from 59% to 58%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Improved NRMSE as compared to run #7. 1st quartile model input scenario is the lowest NRMSE for all models thus far.
	Jun-19	Average	16.61	14.83			
	May-19	Geomean	13.18	11.64	0.36		
	Jun-19	Geomean	15.19	14.76			
	May-19	Median	13.03	11.37	0.36		
	Jun-19	Median	15.24	14.75			
	May-19	Q1	10.38	9.96	0.16		
	Jun-19	Q1	12.76	13.45			
	May-19	Q3	19.10	13.15	1.67		
	Jun-19	Q3	19.87	16.13			
9	May-19	Average	14.59	11.85	0.75	Changed groundwater discharge from 58% to 56%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 56%; Offsite gradient adjustment factor = 0.475.	Worsened NRMSE for all metrics. Continue calibration.
	Jun-19	Average	16.36	14.83			
	May-19	Geomean	12.97	11.64	0.31		
	Jun-19	Geomean	14.98	14.76			
	May-19	Median	12.82	11.37	0.31		
	Jun-19	Median	15.03	14.75			
	May-19	Q1	10.25	9.96	0.18		
	Jun-19	Q1	12.63	13.45			
	May-19	Q3	18.75	13.15	1.56		
	Jun-19	Q3	19.52	16.13			
10	May-19	Average	14.34	11.85	0.67	Changed groundwater discharge from 56% to 54%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 54%; Offsite gradient adjustment factor = 0.475.	Worsened NRMSE for all metrics. Continue calibration.
	Jun-19	Average	16.11	14.83			
	May-19	Geomean	12.76	11.64	0.25		
	Jun-19	Geomean	14.77	14.76			
	May-19	Median	12.60	11.37	0.26		
	Jun-19	Median	14.82	14.75			
	May-19	Q1	10.12	9.96	0.19		
	Jun-19	Q1	12.50	13.45			
	May-19	Q3	18.41	13.15	1.44		
	Jun-19	Q3	19.17	16.13			
11	May-19	Average	12.44	11.85	0.20	Changed groundwater discharge from 54% to 58%. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Worsened NRMSE for 1st quartile and median but improved for all other metric compared to run #10. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	14.21	14.83			
	May-19	Geomean	11.16	11.64	0.38		
	Jun-19	Geomean	13.17	14.76			
	May-19	Median	10.99	11.37	0.33		
	Jun-19	Median	13.21	14.75			
	May-19	Q1	9.15	9.96	0.42		
	Jun-19	Q1	11.53	13.45			
	May-19	Q3	15.79	13.15	0.63		
	Jun-19	Q3	16.56	16.13			

TABLE 5
MODEL ESTIMATED TOTAL TABLE 3+ MASS LOADING CALIBRATION
Chemours Fayetteville Works, North Carolina

Calibration Step	Event Date	Scenario	Total Table 3+ Mass Loading (mg/s)		NRMSE	Description of changes	Comments
			Model	Observed			
12	May-19	Average	17.24	11.85	1.62	Changed Lower Black Creek Aquifer Hydraulic Conductivity from 1. 5 x 10^{-4} m/s to 2 x 10^{-4} m/s. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 2 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Worsened NRSME for all scenarios compared to run #8. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	19.02	14.83			
	May-19	Geomean	15.21	11.64	0.98		
	Jun-19	Geomean	17.21	14.76			
	May-19	Median	15.06	11.37	0.94		
	Jun-19	Median	17.27	14.75			
	May-19	Q1	11.60	9.96	0.35		
	Jun-19	Q1	13.98	13.45			
	May-19	Q3	22.40	13.15	2.76		
	Jun-19	Q3	23.17	16.13			
13	May-19	Average	13.40	11.85	0.38	Changed Lower Black Creek Aquifer Hydraulic Conductivity from 2 x 10^{-4} m/s to 1.2 x 10^{-4} m/s. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.2 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Improved best estimate NRMSE as compared to calibration run #8 for some metrics. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	15.17	14.83			
	May-19	Geomean	11.97	11.64	0.19		
	Jun-19	Geomean	13.98	14.76			
	May-19	Median	11.81	11.37	0.18		
	Jun-19	Median	14.02	14.75			
	May-19	Q1	9.64	9.96	0.30		
	Jun-19	Q1	12.02	13.45			
	May-19	Q3	17.11	13.15	1.03		
	Jun-19	Q3	17.88	16.13			
14	May-19	Average	15.80	11.85	1.14	Changed Lower Black Creek Aquifer Hydraulic Conductivity from 1.2 x 10^{-4} m/s to 1.7 x 10^{-4} m/s. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.7 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Worsened NRSME for all scenarios compared to run #8. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	17.57	14.83			
	May-19	Geomean	13.99	11.64	0.60		
	Jun-19	Geomean	16.00	14.76			
	May-19	Median	13.84	11.37	0.58		
	Jun-19	Median	16.05	14.75			
	May-19	Q1	10.87	9.96	0.19		
	Jun-19	Q1	13.24	13.45			
	May-19	Q3	20.42	13.15	2.10		
	Jun-19	Q3	21.19	16.13			
15	May-19	Average	15.32	11.85	0.98	Changed Lower Black Creek Aquifer Hydraulic Conductivity from 1.7 x 10^{-4} m/s to 1.6 x 10^{-4} m/s; Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.6 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475	Worsened NRSME for all scenarios compared to run #8. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	17.09	14.83			
	May-19	Geomean	13.59	11.64	0.48		
	Jun-19	Geomean	15.59	14.76			
	May-19	Median	13.44	11.37	0.47		
	Jun-19	Median	15.65	14.75			
	May-19	Q1	10.62	9.96	0.16		
	Jun-19	Q1	13.00	13.45			
	May-19	Q3	19.76	13.15	1.89		
	Jun-19	Q3	20.53	16.13			

TABLE 5
MODEL ESTIMATED TOTAL TABLE 3+ MASS LOADING CALIBRATION
Chemours Fayetteville Works, North Carolina

Calibration Step	Event Date	Scenario	Total Table 3+ Mass Loading (mg/s)		NRMSE	Description of changes	Comments
			Model	Observed			
16	May-19	Average	14.91	11.85	0.85	Changed Lower Black Creek Aquifer Hydraulic Conductivity from 1.6 x 10^{-4} m/s to 1.5 x 10^{-4} m/s and Upper Black Creek Aquifer Hydraulic Conductivity from 1 x 10^{-6} m/s to 2 x 10^{-6} m/s. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 2 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Worsened NRSME for all scenarios compared to run #8. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	16.69	14.83			
	May-19	Geomean	13.24	11.64	0.38		
	Jun-19	Geomean	15.25	14.76			
	May-19	Median	13.09	11.37	0.38		
	Jun-19	Median	15.30	14.75			
	May-19	Q1	10.41	9.96	0.16		
	Jun-19	Q1	12.79	13.45			
	May-19	Q3	19.20	13.15	1.70		
	Jun-19	Q3	19.96	16.13			
17	May-19	Average	14.88	11.85	0.84	Changed Upper Black Creek Aquifer Hydraulic Conductivity from 2 x 10^{-6} m/s to 1.5^{-6} m/s. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Worsened NRSME for all scenarios compared to run #8 but not by much. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	16.65	14.83			
	May-19	Geomean	13.21	11.64	0.37		
	Jun-19	Geomean	15.22	14.76			
	May-19	Median	13.06	11.37	0.37		
	Jun-19	Median	15.27	14.75			
	May-19	Q1	10.40	9.96	0.16		
	Jun-19	Q1	12.77	13.45			
	May-19	Q3	19.15	13.15	1.68		
	Jun-19	Q3	19.91	16.13			
18	May-19	Average	14.80	11.85	0.82	Changed Upper Black Creek Aquifer Hydraulic Conductivity from 1.5^{-6} m/s to 0.5 x 10^{-6} m/s Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 0.5 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475	Slightly better NRMSE than run #8 for most scenarios except 1st quartile. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	16.58	14.83			
	May-19	Geomean	13.15	11.64	0.35		
	Jun-19	Geomean	15.16	14.76			
	May-19	Median	13.00	11.37	0.35		
	Jun-19	Median	15.21	14.75			
	May-19	Q1	10.36	9.96	0.17		
	Jun-19	Q1	12.74	13.45			
	May-19	Q3	19.05	13.15	1.65		
	Jun-19	Q3	19.82	16.13			
19	May-19	Average	14.82	11.85	0.82	Changed Upper Black Creek Aquifer Hydraulic Conductivity from 0.5 x 10^{-6} m/s to 0.8 x 10^{-6} m/s. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 0.8 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.475.	Slightly better NRMSE than run #8 for most scenarios except 1st quartile. However, model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	16.60	14.83			
	May-19	Geomean	13.17	11.64	0.36		
	Jun-19	Geomean	15.18	14.76			
	May-19	Median	13.02	11.37	0.36		
	Jun-19	Median	15.23	14.75			
	May-19	Q1	10.37	9.96	0.16		
	Jun-19	Q1	12.75	13.45			
	May-19	Q3	19.08	13.15	1.66		
	Jun-19	Q3	19.85	16.13			

TABLE 5
MODEL ESTIMATED TOTAL TABLE 3+ MASS LOADING CALIBRATION
Chemours Fayetteville Works, North Carolina

Calibration Step	Event Date	Scenario	Total Table 3+ Mass Loading (mg/s)		NRMSE	Description of changes	Comments
			Model	Observed			
20	May-19	Average	14.74	11.85	0.79	Changed Upper Black Creek Aquifer Hydraulic Conductivity from 0.8 10^{-6} m/s to 1 x 10^{-6} m/s and offsite gradient adjustment factor from 0.475 to 0.376. Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.376.	Improved NRMSE for most metrics as compared to run #19 but model not lowest NRMSE amongst all models tested thus far. Continue calibration.
	Jun-19	Average	16.51	14.83			
	May-19	Geomean	13.14	11.64	0.35		
	Jun-19	Geomean	15.15	14.76			
	May-19	Median	12.99	11.37	0.35		
	Jun-19	Median	15.20	14.75			
	May-19	Q1	10.36	9.96	0.16		
	Jun-19	Q1	12.74	13.45			
	May-19	Q3	18.97	13.15	1.63		
	Jun-19	Q3	19.74	16.13			
21	May-19	Average	14.42	11.85	0.69	Changed Offsite Surficial Aquifer Hydraulic Conductivity from 2.5 x 10^{-4} m/s to 1 x 10^{-6} m/s . Model input parameters: Upper Black Creek Aquifer Hydraulic Conductivity = 1 x 10^{-6} m/s; Lower Black Creek Aquifer Hydraulic Conductivity = 1.5 x 10^{-4} m/s; Groundwater discharge length = 58%; Offsite gradient adjustment factor = 0.376.	NRMSE did not improve in comparison to run #8. Run #8 1st quartile scenario determined to yield best-fit model
	Jun-19	Average	16.20	14.83			
	May-19	Geomean	13.04	11.64	0.32		
	Jun-19	Geomean	15.04	14.76			
	May-19	Median	12.90	11.37	0.33		
	Jun-19	Median	15.11	14.75			
	May-19	Q1	10.34	9.96	0.17		
	Jun-19	Q1	12.72	13.45			
	May-19	Q3	18.57	13.15	1.50		
	Jun-19	Q3	19.34	16.13			

Notes:

1. February-19, May-19 and June-19 correspond to field sampling events "Surface Water 02/19", "Surface Water 05/19" and "Surface Water 06/19" reported in Seeps and Creeks Investigation Report (Geosyntec, 2019). "Surface Water 02/19" performed February 1 - 7, 2019; "Surface Water 05/19" performed May 20 - 30, 2019; "Surface Water 06/19" performed June 4 - 7, 2019.
2. Total Table 3+ loading percentage computed includes sum of Table 3+ PFAS compounds listed in **Table 2** and Hexafluoropropylene oxide dimer acid (HFPO-DA).
3. February-19 moading pecentage not shown here because dataset not complete at the time of this assessment.
4. Normalized Root Mean Square calculated as

$$RMSE = \sqrt{\frac{\sum_{i=1}^{n=2}(observed - model)^2}{n}}$$

$$NRMSE = \frac{RMSE}{(observed_{max} - observed_{min})}$$

where,
observed refers to observed empirical mass loading at Bladen's Bluff
model refers to model-estimated total Table 3+ mass loading in the Cape Fear River at Bladen's Bluff
n is the number of field sampling event datasets used in the calibration (May and June 2019)

5. Abbreviations:
NRMSE - Normalized Root Mean Square Error
RMSE - Root Mean Square Error
PFAS - Per- an(per- and polyfluoroalkyl substances
Q1 - 1st Quartile
Q3 - 3rd Quartile

TABLE 6
MODEL ESTIMATED TOTAL TABLE 3+ MASS LOADING CONTRIBUTIONS PER PATHWAY
Chemours Fayetteville Works, North Carolina

Transport Pathway Number	Potential PFAS Transport Pathway	Total Table 3+ Estimated Loading Percentage[2]	
		May - 2019[1] (%)	June - 2019[1] (%)
1	Upstream River and Groundwater	4%	15%
2	Willis Creek	10%	4%
3	Aerial Deposition on River	< 2%	< 2%
4	Outfall 002	4%	7%
5	Onsite Groundwater	22%	17%
6A	Seep A	9%	10%
6B	Seep B	16%	8%
6C	Seep C	2%	2%
6D	Seep D	5%	4%
7	Old Outfall 002	23%	29%
8	Adjacent and Downstream Groundwater	< 2%	< 2%
9	Georgia Branch Creek	4%	3%
Total		100%	100%
Total Seeps		32%	24%
Total Seeps, Old Outfall 002		55%	53%

Notes:

1. May-2019 and June-2019 correspond to field sampling events "Surface Water 02/19", "Surface Water 05/19" and "Surface Water 06/19" reported in Seeps and Creeks Investigation Report (Geosyntec, 2019). "Surface Water
2. Total Table 3+ loading percentage computed includes Table 3+ listed in **Table 2** and Hexafluoropropylene oxide dimer acid (HFPO-DA).
3. February-19 moading pecentage not shown here because dataset not complete at the time of this assessment.
4. Abbreviations:

NA - Not Applicable.

TABLE 7-A
OBSERVED CONCENTRATIONS AND MASS LOADINGS AT BLADEN BLUFFS - MAY 2019 AND JUNE 2019
Chemours Fayetteville Works, North Carolina

Analytical Method	Common Name	Chemical Name	CASN	May 2019 Sampling Event		June 2019 Sampling Event	
				Measured Concentration at Bladen Bluffs	Observed Mass Loading at Bladen Bluffs	Measured Concentration	Observed Mass Loading at Bladen Bluffs
				ng/L	*ng/s*	*ng/L*	*ng/s*
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	28	1,443,027	57	1,856,169
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	ND	ND	ND	ND
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	ND	ND	ND
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	130	6,699,766	180	5,861,587
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	40	2,061,466	64	2,084,120
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	9.9	510,213	16	521,030
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	3.5	180,378	6	208,412
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	31	1,597,636	55	1,791,041
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	ND	ND	ND	ND
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	ND	ND	ND	ND
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	ND	ND	ND
	R-EVE	R-EVE	EVS1428	4	206,147	6	205,156
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	ND	ND	3	110,719
	Byproduct 4	Byproduct 4	EVS1429	9.6	494,752	19	618,723
	Byproduct 5	Byproduct 5	EVS1430	31	1,597,636	69	2,246,942
	Byproduct 6	Byproduct 6	EVS1431	ND	ND	ND	ND
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	6.1	314,374	9	283,310
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	ND	ND	ND	ND
	PFESA-BP1	Byproduct 1	29311-67-9	ND	ND	2	78,154
	PFESA-BP2	Byproduct 2	749836-20-2	ND	ND	5	159,565
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	6.8	350,449	9	276,797
	PFDA	Perfluorodecanoic acid	335-76-2	ND	ND	ND	ND
	PFDoA	Perfluorododecanoic acid	307-55-1	ND	ND	ND	ND
	PFHpA	Perfluoroheptanoic acid	375-85-9	8.2	422,601	10	325,644
	PFNA	Perfluorononanoic acid	375-95-1	ND	ND	ND	ND
	PFOA	Perfluorooctanoic acid	335-67-1	6.8	350,449	9	283,310
	PFHxA	Perfluorohexanoic acid	307-24-4	12	618,440	17	553,594
	PFPeA	Perfluoropentanoic acid	2706-90-3	13	669,977	20	651,287
	PFTeA	Perfluorotetradecanoic acid	376-06-7	ND	ND	ND	ND
	PFTriA	Perfluorotridecanoic acid	72629-94-8	ND	ND	ND	ND
	PFUnA	Perfluoroundecanoic acid	2058-94-8	ND	ND	ND	ND
	PFBS	Perfluorobutanesulfonic acid	375-73-5	3.3	170,071	4	140,027
	PFDS	Perfluorodecanesulfonic acid	335-77-3	ND	ND	ND	ND
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	ND	ND	ND	ND
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	5	257,683	7	218,181
	PFNS	Perfluorononanesulfonic acid	68259-12-1	ND	ND	ND	ND
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	13	669,977	15	488,466
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	ND	ND	ND	ND
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	ND	ND	ND	ND
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	ND	ND	ND	ND
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	ND	ND	ND	ND
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	ND	ND	ND	ND
	NEtFOSAA	NEtFOSAA	2991-50-6	ND	ND	ND	ND
	NEtPFOSA	NEtPFOSA	4151-50-2	NS	NS	NS	NS
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NS	NS	NS	NS
	NMeFOSAA	NMeFOSAA	2355-31-9	ND	ND	ND	ND
	NMePFOSA	NMePFOSA	31506-32-8	NS	NS	NS	NS
	NMePFOSAE	NMePFOSAE	24448-09-7	NS	NS	NS	NS
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	ND	ND	ND	ND
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NS	NS	NS	NS
	PFODA	Perfluorooctadecanoic acid	16517-11-6	ND	ND	ND	ND
	PFOSA	Perfluorooctanesulfonamide	754-91-6	ND	ND	ND	ND
	F-53B Major	F-53B Major	73606-19-6	NS	NS	NS	NS
	F-53B Minor	F-53B Minor	83329-89-9	NS	NS	NS	NS
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NS	NS	NS	NS
	NaDONA	NaDONA	EVS1361	NS	NS	NS	NS
	DONA	DONA	919005-14-4	NS	NS	NS	NS

Notes:

1. To account for 1 day of travel time, the mass loading was calculated using the average flow rate at USGS Station No. 02105500 one day prior to the date of sampling at the Bladen Bluffs intake. The Bladen Bluffs intake was sampled on May 22, 2019 and June 7, 2019 for the May and June sampling events, respectively. The average flow rate measured one day prior was 1,820 cubic feet per second (May 21, 2019) and 1,150 cubic feet per second (June 6, 2019) for the May and June sampling events, respectively.
2. Abbreviations:

ng/L - nanograms per liter

ng/s - nanograms per second

ND - Compound was not detected at laboratory detection limit.

NS - Compound was analyzed for in collected sample(s) or sample was not collected.

TABLE 7-B
OBSERVED CONCENTRATIONS AND MASS LOADINGS AT KINGS BLUFF - MAY 2019 AND JUNE 2019
Chemours Fayetteville Works, North Carolina

Analytical Method	Common Name	Chemical Name	CASN	May 2019 Sampling Event		June 2019 Sampling Event	
				Measured Concentration at Bladen Bluffs	Observed Mass Loading at Bladen Bluffs	Measured Concentration	Observed Mass Loading at Bladen Bluffs
				ng/L	*ng/s*	*ng/L*	*ng/s*
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	17	897,078	37	1,424,904
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	ND	ND	ND	ND
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	ND	ND	ND
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	8	440,384	230	8,857,510
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	29	1,576,682	66	2,541,720
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	8	410,481	20	770,218
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	2	130,484	8.2	315,789
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	25	1,359,209	35	1,347,882
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	ND	ND	ND	ND
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	ND	ND	ND	ND
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	ND	ND	ND
	R-EVE	R-EVE	EVS1428	10	543,683	8.3	319,641
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	ND	ND	3.2	123,235
	Byproduct 4	Byproduct 4	EVS1429	20	1,087,367	19	731,707
	Byproduct 5	Byproduct 5	EVS1430	8	432,228	82	3,157,895
	Byproduct 6	Byproduct 6	EVS1431	ND	ND	ND	ND
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	6.2	337,084	9	346,598
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	ND	ND	ND	ND
	PFESA-BP1	Byproduct 1	29311-67-9	ND	ND	ND	ND
	PFESA-BP2	Byproduct 2	749836-20-2	ND	ND	5	192,555
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	4.9	266,405	7.3	281,130
	PFDA	Perfluorodecanoic acid	335-76-2	ND	ND	ND	ND
	PFDoA	Perfluorododecanoic acid	307-55-1	ND	ND	ND	ND
	PFHpA	Perfluoroheptanoic acid	375-85-9	6.0	326,210	9.6	369,705
	PFNA	Perfluorononanoic acid	375-95-1	ND	ND	ND	ND
	PFOA	Perfluorooctanoic acid	335-67-1	6.7	364,268	7.1	273,427
	PFHxA	Perfluorohexanoic acid	307-24-4	8.95	486,597	15	577,664
	PFPeA	Perfluoropentanoic acid	2706-90-3	9.65	524,655	16	616,175
	PFTeA	Perfluorotetradecanoic acid	376-06-7	ND	ND	ND	ND
	PFTriA	Perfluorotridecanoic acid	72629-94-8	ND	ND	ND	ND
	PFUnA	Perfluoroundecanoic acid	2058-94-8	ND	ND	ND	ND
	PFBS	Perfluorobutanesulfonic acid	375-73-5	2.8	152,231	3.3	127,086
	PFDS	Perfluorodecanesulfonic acid	335-77-3	ND	ND	ND	ND
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	ND	ND	ND	ND
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	4.3	231,065	5.5	211,810
	PFNS	Perfluorononanesulfonic acid	68259-12-1	ND	ND	ND	ND
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	12	652,420	14	539,153
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	ND	ND	ND	ND
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	ND	ND	ND	ND
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	ND	ND	ND	ND
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	ND	ND	ND	ND
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	ND	ND	ND	ND
	NEtFOSAA	NEtFOSAA	2991-50-6	ND	ND	ND	ND
	NEtPFOSA	NEtPFOSA	4151-50-2	NS	NS	NS	NS
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NS	NS	NS	NS
	NMeFOSAA	NMeFOSAA	2355-31-9	ND	ND	ND	ND
	NMePFOSA	NMePFOSA	31506-32-8	NS	NS	NS	NS
	NMePFOSAE	NMePFOSAE	24448-09-7	NS	NS	NS	NS
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	ND	ND	ND	ND
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NS	NS	NS	NS
	PFODA	Perfluorooctadecanoic acid	16517-11-6	ND	ND	ND	ND
	PFOSA	Perfluorooctanesulfonamide	754-91-6	ND	ND	ND	ND
	F-53B Major	F-53B Major	73606-19-6	NS	NS	NS	NS
	F-53B Minor	F-53B Minor	83329-89-9	NS	NS	NS	NS
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NS	NS	NS	NS
	NaDONA	NaDONA	EVS1361	NS	NS	NS	NS
	DONA	DONA	919005-14-4	NS	NS	NS	NS

Notes:

1. Mass loading was calculated using the average flow rate at USGS Station No. 02105769 on the date of sampling at the Kings Bluff intake. The Kings Bluff intake was sampled on May 22, 2019 and June 7, 2019 for the May and June sampling events, respectively. The average flow rates measured on those dates were 1,920 cubic feet per second (May 21, 2019) and 1,360 cubic feet per second (June 6, 2019) for the May and June sampling events, respectively.
2. A duplicate sample was analyzed at Kings Bluff for the May Sampling event. When an analyte was detected in both the primary sample and the duplicate sample, the average of the two values was used. Otherwise, the value from the primary sample was used.
3. Abbreviations:

ng/L - nanograms per liter

ng/s - nanograms per second

ND - Compound was not detected at laboratory detection limit.

NS - Compound was analyzed for in collected sample(s) or sample was not collected.

TABLE 8-A
ESTIMATED PATHWAY CONTRIBUTION TO OBSERVED CONCENTRATION AT BLADEN BLUFFS - MAY 2019
Chemours Fayetteville Works, North Carolina

				Transport Pathway Number →	1	2	3	4	5	6A	6B	6C	6D	7	8	9						
Analytical Method	**Common Name**	**Chemical Name**	**CASN**	**Observed Concentration at Bladen Bluffs**	**Upstream River and Groundwater**	**Willis Creek**	**Aerial Deposition on River**	**Outfall 002**	**Onsite Groundwater**	**Seep A**	**Seep B**	**Seep C**	**Seep D**	**Old Outfall 002**	**Adjacent and Downstream Groundwater**	**Georgia Branch Creek**	**Total PFAS Concentration**	**Total Concentration of PFAS Originating from Facility**	**Total Concentration of PFAS from Other Sources**	**Total Concentration of PFAS from Unknown Sources**	**Percentage of Concentration of PFAS Originating from Facility**	**Percentage of Total Concentration of PFAS from Other Sources**	**Percentage of Total Concentration of PFAS from Unknown Sources**
				ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	%	%	%
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	28.0	0.0	5.0	0.0	0.4	5.8	2.8	4.1	0.8	1.5	4.8	0.2	2.6	28.0	28.0	0	0	100%	0%	0%
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	130.0	0.0	6.8	0.0	3.8	33.5	9.4	22.9	3.3	7.7	42.5	0.1	0.0	130.0	130.0	0	0	100%	0%	0%
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	40.0	2.5	4.1	0.0	1.9	10.8	3.3	5.0	0.9	1.9	8.2	0.1	1.4	40.0	40.0	0	0	100%	0%	0%
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	9.9	0.0	0.8	0.0	0.9	2.6	1.3	1.2	0.3	0.5	2.3	0.0	0.0	9.9	9.9	0	0	100%	0%	0%
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	3.5	0.0	0.9	0.0	0.6	0.0	0.8	0.2	0.1	0.2	0.8	0.0	0.0	3.5	3.5	0	0	100%	0%	0%
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	31	0.0	7.3	0.1	0.0	7.0	2.1	4.9	0.2	0.7	3.2	0.3	5.3	31.0	31.0	0	0	100%	0%	0%
	Hydro-EVE Acid	Perfluoroethoxypropanoic acid	773804-62-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	R-EVE	R-EVE	EVS1428	4.0	0.0	0.0	0.0	0.1	0.0	0.8	1.8	0.1	0.5	0.6	0.0	0.0	4.0	4.0	0	0	100%	0%	0%
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	Byproduct 4	Byproduct 4	EVS1429	9.6	0.0	0.0	0.0	0.8	0.0	2.2	3.6	0.2	0.7	2.0	0.0	0.0	9.6	9.6	0	0	100%	0%	0%
	Byproduct 5	Byproduct 5	EVS1430	31.0	11.7	2.7	0.0	0.3	0.0	6.9	7.7	0.1	0.5	1.1	0.0	0.0	31.0	29.3	0	2	95%	0%	5%
	Byproduct 6	Byproduct 6	EVS1431	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	6.1	4.3	0.0	0.0	0.5	0.0	0.1	0.5	0.0	0.1	0.6	0.0	0.0	6.1	1.8	0	4	29%	0%	71%
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFESA-BP1	Byproduct 1	29311-67-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFESA-BP2	Byproduct 2	749836-20-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
			Total Table 3+	293.1	18.5	27.6	0.2	9.2	59.7	29.9	51.7	6.0	14.3	66.2	0.7	9.2	293.1	287.1	0	6	98%	0%	2%
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	6.8	6.4	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1	6.8	0.3	6.5	0.0	4%	96%	0%
	PFDA	Perfluorodecanoic acid	335-76-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFDoA	Perfluorododecanoic acid	307-55-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpA	Perfluoroheptanoic acid	375-85-9	8.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	8.2	0.0	1%	99%	0%
	PFNA	Perfluorononanoic acid	375-95-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOA	Perfluorooctanoic acid	335-67-1	6.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	6.8	0.0	0%	100%	0%
	PFHxA	Perfluorohexanoic acid	307-24-4	12.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	12.0	0.0	0%	100%	0%
	PFPeA	Perfluoropentanoic acid	2706-90-3	13.0	12.1	0.1	0.0	0.0	0.3	0.1	0.2	0.0	0.1	0.1	0.0	0.0	13.0	0.7	12.3	0.0	6%	94%	0%
	PFTeA	Perfluorotetradecanoic acid	376-06-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFTriA	Perfluorotridecanoic acid	72629-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFUnA	Perfluoroundecanoic acid	2058-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFBS	Perfluorobutanesulfonic acid	375-73-5	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	3.3	0.0	0%	100%	0%
	PFDS	Perfluorodecanesulfonic acid	335-77-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	5.0	0.0	0%	100%	0%
	PFNS	Perfluorononanesulfonic acid	68259-12-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	13.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.0	13.0	0.0	0%	100%	0%
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtFOSAA	NEtFOSAA	2991-50-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtPFOSA	NEtPFOSA	4151-50-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMeFOSAA	NMeFOSAA	2355-31-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NMePFOSA	NMePFOSA	31506-32-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMePFOSAE	NMePFOSAE	24448-09-7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFODA	Perfluorooctadecanoic acid	16517-11-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOSA	Perfluorooctanesulfonamide	754-91-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	F-53B Major	F-53B Major	73606-19-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	F-53B Minor	F-53B Minor	83329-89-9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NaDONA	NaDONA	EVS1361	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	DONA	DONA	919005-14-4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
			Total EPA Method 537	68.1	66.5	0.3	0.0	0.0	0.4	0.1	0.3	0.0	0.1	0.2	0.0	0.2	68.1	1.1	67.0	0.0	2%	98%	0%
			Total PFAS Mass Loading	361.2	85.0	27.8	0.2	9.2	60.1	30.0	52.0	6.0	14.4	66.4	0.7	9.4	361.2	288.2	67.0	6.0	80%	19%	2%

Notes:

1. Estimated percentage contribution of pathway to total mass loading based on 1st Quartile Input Values for May 2019 event; see Table 10-A.
2. Percentage of pathway contribution allocated to Site, Other, or Unknown sources per pathway per compound presented in Table 11.
3. Abbreviations:

ng/L - nanograms per liter
ng/s - nanograms per second
ND - Compound was not detected at laboratory detection limit.
NS - Compound was analyzed for in collected sample(s) or sample was not collected.

TABLE 8-B
ESTIMATED PATHWAY CONTRIBUTION TO OBSERVED CONCENTRATION AT BLADEN BLUFFS - JUNE 2019
Chemours Fayetteville Works, North Carolina

			Transport Pathway Number →	1	2	3	4	5	6A	6B	6C	6D	7	8	9						
Analytical Method	Common Name	Chemical Name	CASN	Observed Mass Loading at Bladen Bluffs	Upstream River and Groundwater	Willis Creek	Aerial Deposition on River	Outfall 002	Onsite Groundwater	Seep A	Seep B	Seep C	Seep D	Old Outfall 002	Adjacent and Downstream Groundwater	Georgia Branch Creek	Total PFAS Concentration	Total Concentration of PFAS Originating from Facility	Total Concentration of PFAS from Other Sources	Total Concentration of PFAS from Unknown Sources	Percentage of Concentration of PFAS Originating from Facility	Percentage of Total Concentration of PFAS from Other Sources	Percentage of Total Concentration of PFAS from Unknown Sources
				ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	%	%	%
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	57.0	10.2	3.2	0.1	2.6	8.9	7.4	4.6	1.9	2.7	9.7	0.3	5.4	57.0	57.0	0	0	100%	0%	0%
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	180.0	0.0	4.9	0.0	6.8	36.9	15.9	15.8	5.3	8.9	84.6	0.1	0.7	180.0	180.0	0	0	100%	0%	0%
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	64.0	4.2	2.7	0.1	4.3	16.8	7.1	4.2	1.6	2.5	18.0	0.2	2.3	64.0	64.0	0	0	100%	0%	0%
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	16.0	0.0	0.4	0.0	2.1	3.7	2.6	0.9	0.5	0.8	4.6	0.0	0.3	16.0	16.0	0	0	100%	0%	0%
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	6.4	0.0	0.1	0.0	2.3	0.0	1.5	0.2	0.1	0.2	1.7	0.0	0.1	6.4	6.4	0	0	100%	0%	0%
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	55.0	18.9	3.9	0.1	0.3	9.7	4.5	4.2	0.4	0.8	6.0	0.4	5.7	55.0	55.0	0	0	100%	0%	0%
	Hydro-EVE Acid	Perfluoroethoxspropanoic acid	773804-62-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	R-EVE	R-EVE	EVS1428	6.3	3.7	0.4	0.0	0.1	0.0	0.5	0.7	0.1	0.2	0.4	0.0	0.3	6.3	6.3	0	0	100%	0%	0%
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	3.4	0.0	0.0	0.0	1.8	0.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	3.4	3.4	0	0	100%	0%	0%
	Byproduct 4	Byproduct 4	EVS1429	19.0	13.9	0.5	0.0	1.6	0.0	0.7	0.8	0.1	0.2	0.7	0.0	0.5	19.0	15.5	0	4	82%	0%	18%
	Byproduct 5	Byproduct 5	EVS1430	69.0	42.7	3.4	0.0	4.6	0.0	8.3	7.2	0.2	0.5	2.2	0.0	0.0	69.0	63.0	0	6	91%	0%	9%
	Byproduct 6	Byproduct 6	EVS1431	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	8.7	6.0	0.1	0.0	1.2	0.0	0.2	0.3	0.1	0.1	0.8	0.0	0.0	8.7	2.7	0	6	31%	0%	69%
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFESA-BP1	Byproduct 1	29311-67-9	2.4	0.0	0.0	0.0	1.1	0.0	0.8	0.2	0.0	0.0	0.2	0.0	0.0	2.4	2.4	0	0	100%	0%	0%
	PFESA-BP2	Byproduct 2	749836-20-2	4.9	0.0	0.1	0.0	4.1	0.0	0.2	0.1	0.0	0.0	0.2	0.0	0.1	4.9	4.9	0	0	100%	0%	0%
			Total Table 3+	492.1	99.6	19.8	0.3	33.0	76.0	50.8	39.3	10.3	16.9	129.6	1.1	15.5	492.1	476.6	0	16	97%	0%	3%
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	8.5	8.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	8.5	0.3	8.2	0.0	4%	96%	0%
	PFDA	Perfluorodecanoic acid	335-76-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFDoA	Perfluorododecanoic acid	307-55-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpA	Perfluoroheptanoic acid	375-85-9	10.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.1	9.9	0.0	1%	99%	0%
	PFNA	Perfluorononanoic acid	375-95-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOA	Perfluorooctanoic acid	335-67-1	8.7	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	8.7	0.0	0%	100%	0%
	PFHxA	Perfluorohexanoic acid	307-24-4	17.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	17.0	0.0	0%	100%	0%
	PFPeA	Perfluoropentanoic acid	2706-90-3	20.0	19.0	0.1	0.0	0.0	0.3	0.1	0.2	0.0	0.1	0.2	0.0	0.1	20.0	0.8	19.1	0.0	4%	96%	0%
	PFTeA	Perfluorotetradecanoic acid	376-06-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFTriA	Perfluorotridecanoic acid	72629-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFUnA	Perfluoroundecanoic acid	2058-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFBS	Perfluorobutanesulfonic acid	375-73-5	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	4.3	0.0	0%	100%	0%
	PFDS	Perfluorodecanesulfonic acid	335-77-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	6.7	0.0	0%	100%	0%
	PFNS	Perfluorononanesulfonic acid	68259-12-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	15.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0	0.0	0%	100%	0%
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtFOSAA	NEtFOSAA	2991-50-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtPFOSA	NEtPFOSA	4151-50-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMeFOSAA	NMeFOSAA	2355-31-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NMePFOSA	NMePFOSA	31506-32-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMePFOSAE	NMePFOSAE	24448-09-7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFODA	Perfluorooctadecanoic acid	16517-11-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOSA	Perfluorooctanesulfonamide	754-91-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	F-53B Major	F-53B Major	73606-19-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	F-53B Minor	F-53B Minor	83329-89-9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NaDONA	NaDONA	EVS1361	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	DONA	DONA	919005-14-4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
			Total EPA Method 537	90.2	88.3	0.3	0.0	0.0	0.4	0.2	0.3	0.1	0.1	0.3	0.0	0.2	90.2	1.2	88.9	0.0	1%	99%	0%
			Total PFAS Mass Loading	582.3	187.9	20.0	0.3	33.0	76.4	51.0	39.5	10.4	17.0	129.9	1.1	15.7	582.3	477.8	88.9	15.5	82%	15%	3%

Notes:

1. Estimated percentage contribution of pathway to total mass loading based on 1st Quartile Input Values for May 2019 event; see Table 10-B.
2. Percentage of pathway contribution allocated to Site, Other, or Unknown sources per pathway per compound presented in Table 11.
3. Abbreviations:

ng/L - nanograms per liter

ng/s - nanograms per second

ND - Compound was not detected at laboratory detection limit.

NS - Compound was analyzed for in collected sample(s) or sample was not collected.

TABLE 8-C
ESTIMATED PATHWAY CONTRIBUTION TO OBSERVED CONCENTRATION AT KINGS BLUFF - MAY 2019
Chemours Fayetteville Works, North Carolina

				Transport Pathway Number →	1	2	3	4	5	6A	6B	6C	6D	7	8	9						
Analytical Method	Common Name	Chemical Name	CASN	Observed Concentration at Kings Bluff*	Upstream River and Groundwater	Willis Creek	Aerial Deposition on River	Outfall 002	Onsite Groundwater	Seep A	Seep B	Seep C	Seep D	Old Outfall 002	Adjacent and Downstream Groundwater	Georgia Branch Creek	Total PFAS Concentration	Total Concentration of PFAS Originating from Facility	Total Concentration of PFAS from Other Sources	Total Concentration of PFAS from Unknown Sources	Percentage of Concentration of PFAS Originating from Facility	Percentage of Total Concentration of PFAS from Other Sources	Percentage of Total Concentration of PFAS from Unknown Sources
				ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	%	%	%
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	16.5	0.0	3.0	0.0	0.2	3.4	1.7	2.4	0.4	0.9	2.9	0.1	1.5	16.5	16.5	0	0	100%	0%	0%
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	8.1	0.0	0.4	0.0	0.2	2.1	0.6	1.4	0.2	0.5	2.7	0.0	0.0	8.1	8.1	0	0	100%	0%	0%
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	29.0	1.8	3.0	0.0	1.4	7.8	2.4	3.6	0.6	1.3	5.9	0.1	1.0	29.0	29.0	0	0	100%	0%	0%
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	7.6	0.0	0.6	0.0	0.7	2.0	1.0	0.9	0.2	0.4	1.8	0.0	0.0	7.6	7.6	0	0	100%	0%	0%
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	2.4	0.0	0.6	0.0	0.4	0.0	0.6	0.1	0.0	0.1	0.6	0.0	0.0	2.4	2.4	0	0	100%	0%	0%
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	25.0	0.0	5.9	0.1	0.0	5.6	1.7	4.0	0.2	0.6	2.6	0.2	4.2	25.0	25.0	0	0	100%	0%	0%
	Hydro-EVE Acid	Perfluoroethoxypropanoic acid	773804-62-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	R-EVE	R-EVE	EVS1428	10.0	0.0	0.0	0.0	0.3	0.0	2.1	4.4	0.3	1.3	1.5	0.0	0.0	10.0	10.0	0	0	100%	0%	0%
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	Byproduct 4	Byproduct 4	EVS1429	20.0	0.0	0.0	0.0	1.7	0.0	4.7	7.6	0.4	1.4	4.2	0.0	0.0	20.0	20.0	0	0	100%	0%	0%
	Byproduct 5	Byproduct 5	EVS1430	8.0	3.0	0.7	0.0	0.1	0.0	1.8	2.0	0.0	0.1	0.3	0.0	0.0	8.0	7.5	0	0	95%	0%	5%
	Byproduct 6	Byproduct 6	EVS1431	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	6.2	4.4	0.0	0.0	0.5	0.0	0.1	0.5	0.0	0.1	0.6	0.0	0.0	6.2	1.8	0	4	29%	0%	71%
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFESA-BP1	Byproduct 1	29311-67-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFESA-BP2	Byproduct 2	749836-20-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
			Total Table 3+	132.7	9.2	14.1	0.1	5.5	20.9	16.6	26.9	2.5	6.8	22.9	0.5	6.8	132.7	127.9	0.0	4.8	96%	0%	4%
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	4.9	4.6	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	4.9	0.2	4.7	0.0	4%	96%	0%
	PFDA	Perfluorodecanoic acid	335-76-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFDoA	Perfluorododecanoic acid	307-55-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpA	Perfluoroheptanoic acid	375-85-9	6.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	6.0	0.0	1%	99%	0%
	PFNA	Perfluorononanoic acid	375-95-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOA	Perfluorooctanoic acid	335-67-1	6.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	6.7	0.0	0%	100%	0%
	PFHxA	Perfluorohexanoic acid	307-24-4	9.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	8.9	0.0	0%	100%	0%
	PFPeA	Perfluoropentanoic acid	2706-90-3	9.7	9.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	9.6	0.5	9.1	0.0	6%	94%	0%
	PFTeA	Perfluorotetradecanoic acid	376-06-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFTriA	Perfluorotridecanoic acid	72629-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFUnA	Perfluoroundecanoic acid	2058-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFBS	Perfluorobutanesulfonic acid	375-73-5	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	2.8	0.0	0%	100%	0%
	PFDS	Perfluorodecanesulfonic acid	335-77-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	4.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	4.2	0.0	0%	100%	0%
	PFNS	Perfluorononanesulfonic acid	68259-12-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	12.0	0.0	0%	100%	0%
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtFOSAA	NEtFOSAA	2991-50-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtPFOSA	NEtPFOSA	4151-50-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMeFOSAA	NMeFOSAA	2355-31-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NMePFOSA	NMePFOSA	31506-32-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMePFOSAE	NMePFOSAE	24448-09-7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFODA	Perfluorooctadecanoic acid	16517-11-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOSA	Perfluorooctanesulfonamide	754-91-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	F-53B Major	F-53B Major	73606-19-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	F-53B Minor	F-53B Minor	83329-89-9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NaDONA	NaDONA	EVS1361	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	DONA	DONA	919005-14-4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
			Total EPA Method 537	55.3	54.0	0.2	0.0	0.0	0.3	0.1	0.2	0.0	0.1	0.2	0.0	0.1	55.2	0.8	54.5	0.0	1%	99%	0%
			Total PFAS Mass Loading	188.0	63.3	14.3	0.1	5.5	21.2	16.7	27.1	2.5	6.9	23.0	0.5	6.9	187.9	128.7	54.5	4.8	68%	29%	3%

Notes:

***** Observed concentration at Kings Bluff is the sum of the average of each reported PFAS compound value from the parent and duplicate samples collected on May 23, 2019.

1. Estimated percentage contribution of pathway to total mass loading based on 1st Quartile Input Values for May 2019 event; see Table 10-A.
2. Percentage of pathway contribution allocated to Site, Other, or Unknown sources per pathway per compound presented in Table 11.
3. Abbreviations:

ng/L - nanograms per liter
ng/s - nanograms per second
ND - Compound was not detected at laboratory detection limit.
NS - Compound was analyzed for in collected sample(s) or sample was not collected.

TABLE 8-D
ESTIMATED PATHWAY CONTRIBUTION TO OBSERVED CONCENTRATION AT KINGS BLUFF - JUNE 2019
Chemours Fayetteville Works, North Carolina

			Transport Pathway Number →	1	2	3	4	5	6A	6B	6C	6D	7	8	9						
Analytical Method	**Common Name**	**Chemical Name**	**CASN**	**Observed Mass Loading at Kings Bluff**	**Upstream River and Groundwater**	**Willis Creek**	**Aerial Deposition on River**	**Outfall 002**	**Onsite Groundwater**	**Seep A**	**Seep B**	**Seep C**	**Seep D**	**Old Outfall 002**	**Adjacent and Downstream Groundwater**	**Georgia Branch Creek**	**Total PFAS Concentration**	**Total Concentration of PFAS Originating from Facility**	**Total Concentration of PFAS from Other Sources**	**Total Concentration of PFAS from Unknown Sources**	**Percentage of Concentration of PFAS Originating from Facility**	**Percentage of Total Concentration of PFAS from Other Sources**	**Percentage of Total Concentration of PFAS from Unknown Sources**
				ng/L	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	*ng/L*	%	%	%
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	37.0	6.6	2.1	0.0	1.7	5.8	4.8	3.0	1.2	1.7	6.3	0.2	3.5	37.0	37.0	0.0	0.0	100%	0%	0%
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	230.0	0.0	6.2	0.0	8.7	47.1	20.3	20.2	6.8	11.4	108.1	0.1	0.9	230.0	230.0	0.0	0.0	100%	0%	0%
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	66.0	4.3	2.8	0.1	4.5	17.3	7.3	4.4	1.7	2.6	18.5	0.3	2.3	66.0	66.0	0.0	0.0	100%	0%	0%
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	20.0	0.0	0.5	0.0	2.6	4.6	3.2	1.2	0.6	1.0	5.8	0.0	0.4	20.0	20.0	0.0	0.0	100%	0%	0%
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	8.2	0.0	0.2	0.0	3.0	0.0	2.0	0.3	0.2	0.3	2.2	0.0	0.2	8.2	8.2	0.0	0.0	100%	0%	0%
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	35.0	12.1	2.5	0.1	0.2	6.2	2.8	2.7	0.3	0.5	3.8	0.3	3.6	35.0	35.0	0.0	0.0	100%	0%	0%
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	R-EVE	R-EVE	EVS1428	8.3	4.9	0.5	0.0	0.1	0.0	0.7	0.9	0.1	0.3	0.5	0.0	0.4	8.3	8.3	0.0	0.0	100%	0%	0%
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	3.2	0.0	0.0	0.0	1.7	0.0	0.9	0.0	0.0	0.0	0.5	0.0	0.0	3.2	3.2	0.0	0.0	100%	0%	0%
	Byproduct 4	Byproduct 4	EVS1429	19.0	13.9	0.5	0.0	1.6	0.0	0.7	0.8	0.1	0.2	0.7	0.0	0.5	19.0	15.5	0.0	3.5	82%	0%	18%
	Byproduct 5	Byproduct 5	EVS1430	82.0	50.7	4.1	0.0	5.4	0.0	9.9	8.6	0.2	0.5	2.6	0.0	0.0	82.0	74.8	0.0	7.2	91%	0%	9%
	Byproduct 6	Byproduct 6	EVS1431	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	9.0	6.2	0.1	0.0	1.2	0.0	0.2	0.3	0.1	0.1	0.8	0.0	0.0	9.0	2.8	0.0	6.2	31%	0%	69%
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFESA-BP1	Byproduct 1	29311-67-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFESA-BP2	Byproduct 2	749836-20-2	5.0	0.0	0.1	0.0	4.2	0.0	0.2	0.1	0.0	0.0	0.3	0.0	0.1	5.0	5.0	0.0	0.0	100%	0%	0%
			Total Table 3+	522.7	98.6	19.5	0.2	35.0	81.0	53.1	42.3	11.2	18.6	150.1	0.9	12.0	522.7	505.8	0.0	16.9	97%	0%	3%
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	7.3	6.9	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1	7.3	0.3	7.0	0.0	4%	96%	0%
	PFDA	Perfluorodecanoic acid	335-76-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFDoA	Perfluorododecanoic acid	307-55-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpA	Perfluoroheptanoic acid	375-85-9	9.6	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	9.6	0.0	1%	99%	0%
	PFNA	Perfluorononanoic acid	375-95-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOA	Perfluorooctanoic acid	335-67-1	7.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	7.1	0.0	0%	100%	0%
	PFHxA	Perfluorohexanoic acid	307-24-4	15.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0	0.0	0%	100%	0%
	PFPeA	Perfluoropentanoic acid	2706-90-3	16.0	15.2	0.1	0.0	0.0	0.3	0.1	0.1	0.0	0.1	0.1	0.0	0.0	16.0	0.7	15.3	0.0	4%	96%	0%
	PFTeA	Perfluorotetradecanoic acid	376-06-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFTriA	Perfluorotridecanoic acid	72629-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFUnA	Perfluoroundecanoic acid	2058-94-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFBS	Perfluorobutanesulfonic acid	375-73-5	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	3.3	0.0	0%	100%	0%
	PFDS	Perfluorodecanesulfonic acid	335-77-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	5.5	0.0	0%	100%	0%
	PFNS	Perfluorononanesulfonic acid	68259-12-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	14.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	0.0	14.0	0.0	0%	100%	0%
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtFOSAA	NEtFOSAA	2991-50-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NEtPFOSA	NEtPFOSA	4151-50-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMeFOSAA	NMeFOSAA	2355-31-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	NMePFOSA	NMePFOSA	31506-32-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NMePFOSAE	NMePFOSAE	24448-09-7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	PFODA	Perfluorooctadecanoic acid	16517-11-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	PFOSA	Perfluorooctanesulfonamide	754-91-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
	F-53B Major	F-53B Major	73606-19-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	F-53B Minor	F-53B Minor	83329-89-9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	NaDONA	NaDONA	EVS1361	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
	DONA	DONA	919005-14-4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	-	-
			Total EPA Method 537	77.8	76.2	0.2	0.0	0.0	0.4	0.2	0.2	0.1	0.1	0.3	0.0	0.1	77.8	1.0	76.8	0.0	1%	99%	0%
			Total PFAS Mass Loading	600.5	174.9	19.8	0.2	35.0	81.4	53.3	42.5	11.3	18.7	150.3	0.9	12.2	600.5	506.9	76.8	16.9	84%	13%	3%

Notes:

1. Estimated percentage contribution of pathway to total mass loading based on 1st Quartile Input Values for May 2019 event; see Table 10-B.
2. Percentage of pathway contribution allocated to Site, Other, or Unknown sources per pathway per compound presented in Table 11.
3. Abbreviations:

ng/L - nanograms per liter

ng/s - nanograms per second

ND - Compound was not detected at laboratory detection limit.

NS - Compound was analyzed for in collected sample(s) or sample was not collected.

TABLE 9-A
ESTIMATED MASS LOADING WITH 1st QUARTILE INPUT VALUES - MAY 2019
Chemours Fayetteville Works, North Carolina

Transport Pathway Number →				1	2	3	4	5	6A	6B	6C	6D	7	8	9	Total Esimated Mass Loading
Analytical Method	**Common Name**	**Chemical Name**	**Transport Pathway → CASN**	**Upstream River and Groundwater**	**Willis Creek**	**Aerial Deposition on River**	**Outfall 002**	**Onsite Groundwater**	**Seep A**	**Seep B**	**Seep C**	**Seep D**	**Old Outfall 002**	**Adjacent and Downstream Groundwater**	**Georgia Branch Creek**	
				ng/s	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*	*ng/s*
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	NA	148,771	1,132	11,215	172,500	82,922	119,856	22,315	45,134	143,407	4,881	76,446	828,577
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	NA	66,120	755	0	54,794	35,770	70,824	3,099	8,801	40,668	3,254	45,868	329,953
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	NA	NA	ND	0	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	NA	243,359	553	134,145	1,197,351	334,938	817,200	119,633	273,813	1,519,685	2,386	NA	4,643,065
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	117,455	192,392	1,635	90,283	507,352	154,462	234,264	40,911	87,259	385,272	7,050	64,215	1,882,549
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	NA	33,978	126	37,507	113,647	58,533	52,301	11,777	23,921	102,739	542	NA	435,072
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	NA	36,733	126	23,471	NA	35,770	7,082	3,037	7,071	34,246	542	NA	148,079
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	NA	275,501	2,515	0	263,823	79,670	185,232	8,678	27,231	119,863	10,846	198,760	1,172,119
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	NA	NA	NA	2,803	NA	8,130	9,262	1,550	3,912	4,281	NA	NA	29,936
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	NA	NA	NA	1,449	NA	5,366	15,799	NA	NA	NA	NA	NA	22,614
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	NA	NA	NA	0	NA	NA	N`A	NA	NA	NA	NA	NA	-
	R-EVE	R-EVE	EVS1428	NA	NA	NA	760	NA	5,203	10,896	744	3,310	3,639	NA	NA	24,551
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	NA	8,265	252	9,872	NA	20,161	1,144	60	451	13,270	1,085	NA	54,561
	Byproduct 4	Byproduct 4	EVS1429	NA	NA	NA	3,577	NA	9,755	15,799	806	2,941	8,776	NA	NA	41,654
	Byproduct 5	Byproduct 5	EVS1430	174,505	40,407	NA	4,516	NA	102,433	114,408	1,178	7,598	16,909	NA	NA	461,952
	Byproduct 6	Byproduct 6	EVS1431	NA	NA	NA	1,986	NA	229	289	32	45	NA	NA	NA	2,581
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	137,590	NA	NA	15,113	NA	4,553	14,710	1,240	2,415	17,765	NA	NA	193,385
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFESA-BP1	Byproduct 1	29311-67-9	NA	NA	ND	11,744	NA	24,064	10,896	NA	NA	NA	NA	NA	46,703
	PFESA-BP2	Byproduct 2	749836-20-2	NA	10,836	ND	27,396	NA	5,528	3,596	446	978	6,635	NA	5,045	60,461
			Total Table 3+	429,550	1,056,363	7,093	375,836	2,309,468	967,485	1,683,557	215,507	494,879	2,417,156	30,587	390,334	10,377,814
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	208,063	1,837	NA	NA	2,638	1,171	2,561	242	632	1,841	130	1,682	220,796
	PFDA	Perfluorodecanoic acid	335-76-2	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	12
	PFDoA	Perfluorododecanoic acid	307-55-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHpA	Perfluoroheptanoic acid	375-85-9	281,892	478	NA	NA	304	390	763	149	283	535	NA	367	285,161
	PFNA	Perfluorononanoic acid	375-95-1	NA	NA	NA	NA	43	85	65	NA	8	161	NA	NA	361
	PFOA	Perfluorooctanoic acid	335-67-1	231,554	1,616	NA	NA	94	120	93	11	34	685	57	581	234,846
	PFHxA	Perfluorohexanoic acid	307-24-4	405,062	845	NA	NA	244	NA	202	NA	121	364	64	505	407,405
	PFPeA	Perfluoropentanoic acid	2706-90-3	402,703	2,204	NA	NA	9,538	2,341	6,538	1,116	2,219	3,211	NA	1,529	431,399
	PFTeA	Perfluorotetradecanoic acid	376-06-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFTriA	Perfluorotridecanoic acid	72629-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFUnA	Perfluoroundecanoic acid	2058-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFBS	Perfluorobutanesulfonic acid	375-73-5	104,032	661	NA	NA	45	NA	NA	NA	NA	NA	NA	NA	104,738
	PFDS	Perfluorodecanesulfonic acid	335-77-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	157,725	404	NA	NA	110	11	NA	1	6	NA	NA	NA	158,257
	PFNS	Perfluorononanesulfonic acid	68259-12-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	436,262	771	NA	NA	244	18	13	1	NA	43	NA	367	437,718
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NEtFOSAA	NEtFOSAA	2991-50-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NEtPFOSA	NEtPFOSA	4151-50-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NMeFOSAA	NMeFOSAA	2355-31-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NMePFOSA	NMePFOSA	31506-32-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NMePFOSAE	NMePFOSAE	24448-09-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFODA	Perfluorooctadecanoic acid	16517-11-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFOSA	Perfluorooctanesulfonamide	754-91-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	F-53B Major	F-53B Major	73606-19-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	F-53B Minor	F-53B Minor	83329-89-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NaDONA	NaDONA	EVS1361	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	DONA	DONA	919005-14-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
			Total EPA Method 537	2,227,295	8,816	-	-	13,259	4,136	10,245	1,520	3,303	6,839	252	5,030	2,280,694
			Total PFAS Mass Loading	2,656,845	1,065,179	7,093	375,836	2,322,727	971,621	1,693,802	217,027	498,181	2,423,995	30,838	395,364	12,658,507

Notes:

1. Calculated mass loading presented in this table from the mass loading model.
2. Abbreviations:

ng/s - nanograms per second

NA - Sample was not detected at laboratory detection limit or was not analyzed for in collected sample.

TABLE 9-B
ESTIMATED MASS LOADING WITH 1st QUARTILE INPUT VALUES - JUNE 2019
Chemours Fayetteville Works, North Carolina

Transport Pathway Number →				1	2	3	4	5	6A	6B	6C	6D	7	8	9	
Analytical Method	**Common Name**	**Chemical Name**	**Transport Pathway →**	**Upstream River and Groundwater**	**Willis Creek**	**Aerial Deposition on River**	**Outfall 002**	**Onsite Groundwater**	**Seep A**	**Seep B**	**Seep C**	**Seep D**	**Old Outfall 002**	**Adjacent and Downstream Groundwater**	**Georgia Branch Creek**	**Total Esimated Mass Loading**
			CASN	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s	ng/s
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	185,242	58,774	1,132	46,666	161,667	134,130	82,919	34,295	48,143	175,434	4,881	98,328	1,031,610
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	NA	25,713	755	2,682	51,353	46,275	46,066	3,266	7,221	50,932	3,254	45,134	282,652
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	NA	NA	ND	70	NA	NA	NA	NA	NA	NA	NA	NA	70
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	NA	148,771	553	207,833	1,122,161	482,867	482,158	162,492	270,804	2,574,917	2,386	22,567	5,477,510
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	118,125	77,140	1,635	123,323	475,492	201,195	119,772	45,727	72,214	509,324	7,050	64,477	1,815,475
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	NA	12,306	126	59,078	106,510	73,771	27,025	13,881	22,266	132,990	542	9,672	458,168
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	NA	2,939	126	54,683	NA	35,544	4,607	2,940	5,416	39,614	542	2,740	149,150
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	483,240	99,180	2,515	8,480	247,256	114,010	107,488	10,615	21,664	152,797	10,846	145,074	1,403,166
	Hydro-EVE Acid	Perfluoroethoxypropanoic acid	773804-62-9	NA	992	NA	6,486	NA	9,389	6,756	1,715	3,611	5,659	NA	355	34,963
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	NA	NA	NA	6,091	NA	6,505	13,206	NA	NA	679	NA	NA	26,481
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	NA	NA	NA	24	NA	NA	NA	NA	NA	NA	NA	NA	24
	R-EVE	R-EVE	EVS1428	53,693	5,143	NA	1,596	NA	7,377	9,827	1,551	3,009	5,659	NA	3,869	91,725
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	NA	735	252	54,734	NA	30,850	829	NA	361	16,129	1,085	322	105,296
	Byproduct 4	Byproduct 4	EVS1429	212,089	7,530	NA	24,839	NA	11,401	11,977	1,225	2,528	11,035	NA	7,898	290,523
	Byproduct 5	Byproduct 5	EVS1430	617,474	49,590	NA	66,317	NA	120,717	104,416	2,531	6,620	31,125	NA	NA	998,791
	Byproduct 6	Byproduct 6	EVS1431	NA	NA	NA	4,193	NA	335	240	33	51	424	NA	NA	5,276
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	198,665	2,571	NA	38,944	NA	6,706	9,827	1,715	2,708	25,466	NA	725	287,329
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	NA	NA	NA	469	NA	NA	NA	NA	NA	NA	NA	NA	469
	PFESA-BP1	Byproduct 1	29311-67-9	NA	NA	ND	48,313	NA	35,544	8,906	NA	NA	8,489	NA	NA	101,252
	PFESA-BP2	Byproduct 2	749836-20-2	NA	3,122	ND	164,146	NA	8,718	2,887	539	1,173	9,904	NA	4,675	195,164
			Total Table 3+	1,868,529	494,506	7,093	918,968	2,164,439	1,325,336	1,038,907	282,525	467,789	3,750,579	30,587	405,836	12,755,093
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	228,197	1,598	NA	NA	2,473	1,610	1,843	327	632	2,547	130	1,773	241,128
	PFDA	Perfluorodecanoic acid	335-76-2	NA	NA	NA	NA	NA	NA	8	NA	NA	NA	NA	NA	8
	PFDoA	Perfluorododecanoic acid	307-55-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHpA	Perfluoroheptanoic acid	375-85-9	322,160	459	NA	NA	285	530	522	188	301	736	NA	371	325,552
	PFNA	Perfluorononanoic acid	375-95-1	NA	NA	NA	NA	40	101	49	NA	8	201	NA	NA	399
	PFOA	Perfluorooctanoic acid	335-67-1	222,827	1,010	NA	NA	88	241	74	13	42	962	57	596	225,912
	PFHxA	Perfluorohexanoic acid	307-24-4	483,240	771	NA	NA	228	NA	144	81	132	453	64	500	485,614
	PFPeA	Perfluoropentanoic acid	2706-90-3	536,934	1,782	NA	NA	8,939	3,286	4,607	1,388	2,377	4,527	NA	1,596	565,436
	PFTeA	Perfluorotetradecanoic acid	376-06-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFTriA	Perfluorotridecanoic acid	72629-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFUnA	Perfluoroundecanoic acid	2058-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFBS	Perfluorobutanesulfonic acid	375-73-5	120,810	680	NA	NA	42	15	NA	NA	NA	NA	NA	NA	121,546
	PFDS	Perfluorodecanesulfonic acid	335-77-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	182,557	478	NA	NA	103	27	7	2	6	NA	NA	NA	183,179
	PFNS	Perfluorononanesulfonic acid	68259-12-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	402,700	661	NA	NA	228	65	7	NA	NA	57	NA	NA	403,718
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NEtFOSAA	NEtFOSAA	2991-50-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NEtPFOSA	NEtPFOSA	4151-50-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NMeFOSAA	NMeFOSAA	2355-31-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NMePFOSA	NMePFOSA	31506-32-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NMePFOSAE	NMePFOSAE	24448-09-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFODA	Perfluorooctadecanoic acid	16517-11-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	PFOSA	Perfluorooctanesulfonamide	754-91-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	F-53B Major	F-53B Major	73606-19-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	F-53B Minor	F-53B Minor	83329-89-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	NaDONA	NaDONA	EVS1361	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	DONA	DONA	919005-14-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
			Total EPA Method 537	2,499,426	7,439	-	-	12,427	5,874	7,260	1,998	3,499	9,482	252	4,836	2,552,492
			Total PFAS Mass Loading	4,367,955	501,944	7,093	918,968	2,176,865	1,331,210	1,046,167	284,523	471,288	3,760,061	30,838	410,672	15,307,585

Notes:

1. Calculated mass loading presented in this table from the mass loading model.
2. Abbreviations:

ng/s - nanograms per second

NA - Sample was not detected at laboratory detection limit or was not analyzed for in collected sample.

TABLE 10-A
ESTIMATED CONTRIBUTION PERCENTAGE OF PATHWAY TO TOTAL MASS LOADING - MAY 2019
Chemours Fayetteville Works, North Carolina

Transport Pathway Number →				1	2	3	4	5	6A	6B	6C	6D	7	8	9
Analytical Method	Common Name	Chemical Name	Transport Pathway → CASN	Upstream River and Groundwater	Willis Creek	Aerial Deposition on River	Outfall 002	Onsite Groundwater	Seep A	Seep B	Seep C	Seep D	Old Outfall 002	Adjacent and Downstream Groundwater	Georgia Branch Creek
				%	%	%	%	%	%	%	%	%	%	%	%
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	NA	18.0%	0.1%	1.4%	20.8%	10.0%	14.5%	2.7%	5.4%	17.3%	0.6%	9.2%
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	NA	20.0%	0.2%	0.0%	16.6%	10.8%	21.5%	0.9%	2.7%	12.3%	1.0%	13.9%
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	NA	5.2%	0.0%	2.9%	25.8%	7.2%	17.6%	2.6%	5.9%	32.7%	0.1%	NA
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	6.2%	10.2%	0.1%	4.8%	27.0%	8.2%	12.4%	2.2%	4.6%	20.5%	0.4%	3.4%
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	NA	7.8%	0.0%	8.6%	26.1%	13.5%	12.0%	2.7%	5.5%	23.6%	0.1%	NA
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	NA	24.8%	0.1%	15.9%	NA	24.2%	4.8%	2.1%	4.8%	23.1%	0.4%	NA
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	NA	23.5%	0.2%	0.0%	22.5%	6.8%	15.8%	0.7%	2.3%	10.2%	0.9%	17.0%
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	NA	NA	NA	9.4%	NA	27.2%	30.9%	5.2%	13.1%	14.3%	NA	NA
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	NA	NA	NA	6.4%	NA	23.7%	69.9%	NA	NA	NA	NA	NA
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	R-EVE	R-EVE	EVS1428	NA	NA	NA	3.1%	NA	21.2%	44.4%	3.0%	13.5%	14.8%	NA	NA
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	NA	15.1%	0.5%	18.1%	NA	37.0%	2.1%	0.1%	0.8%	24.3%	2.0%	NA
	Byproduct 4	Byproduct 4	EVS1429	NA	NA	NA	8.6%	NA	23.4%	37.9%	1.9%	7.1%	21.1%	NA	NA
	Byproduct 5	Byproduct 5	EVS1430	37.8%	8.7%	NA	1.0%	NA	22.2%	24.8%	0.3%	1.6%	3.7%	NA	NA
	Byproduct 6	Byproduct 6	EVS1431	NA	NA	NA	76.9%	NA	8.9%	11.2%	1.2%	1.7%	NA	NA	NA
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	71.1%	NA	NA	7.8%	NA	2.4%	7.6%	0.6%	1.2%	9.2%	NA	NA
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFESA-BP1	Byproduct 1	29311-67-9	NA	NA	NA	25.1%	NA	51.5%	23.3%	NA	NA	NA	NA	NA
	PFESA-BP2	Byproduct 2	749836-20-2	NA	17.9%	NA	45.3%	NA	9.1%	5.9%	0.7%	1.6%	11.0%	NA	8.3%
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	94.2%	0.8%	0.0%	NA	1.2%	0.5%	1.2%	0.1%	0.3%	0.8%	0.1%	0.8%
	PFDA	Perfluorodecanoic acid	335-76-2	NA	NA	NA	NA	NA	NA	100%	NA	NA	NA	NA	NA
	PFDoA	Perfluorododecanoic acid	307-55-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHpA	Perfluoroheptanoic acid	375-85-9	98.8%	0.2%	NA	NA	0.1%	0.1%	0.3%	0.1%	0.1%	0.2%	NA	0.1%
	PFNA	Perfluorononanoic acid	375-95-1	NA	NA	NA	NA	11.1%	22.0%	17.0%	NA	2.1%	41.7%	NA	NA
	PFOA	Perfluorooctanoic acid	335-67-1	98.6%	0.7%	0.0%	NA	0.0%	0.1%	0.0%	0.0%	0.0%	0.3%	0.0%	0.2%
	PFHxA	Perfluorohexanoic acid	307-24-4	99.4%	0.2%	0.0%	NA	0.1%	NA	0.0%	NA	0.0%	0.1%	0.0%	0.1%
	PFPeA	Perfluoropentanoic acid	2706-90-3	93.3%	0.5%	NA	NA	2.2%	0.5%	1.5%	0.3%	0.5%	0.7%	NA	0.4%
	PFTeA	Perfluorotetradecanoic acid	376-06-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFTriA	Perfluorotridecanoic acid	72629-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFUnA	Perfluoroundecanoic acid	2058-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFBS	Perfluorobutanesulfonic acid	375-73-5	99.3%	0.6%	NA	NA	0.0%	NA	NA	NA	NA	NA	NA	NA
	PFDS	Perfluorodecanesulfonic acid	335-77-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	99.6%	0.3%	NA	NA	0.1%	0.0%	NA	0.0%	0.0%	NA	NA	NA
	PFNS	Perfluorononanesulfonic acid	68259-12-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	99.6%	0.2%	NA	NA	0.1%	0.0%	0.0%	0.0%	NA	0.0%	NA	0.1%
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NEtFOSAA	NEtFOSAA	2991-50-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NEtPFOSA	NEtPFOSA	4151-50-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NMeFOSAA	NMeFOSAA	2355-31-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NMePFOSA	NMePFOSA	31506-32-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NMePFOSAE	NMePFOSAE	24448-09-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFODA	Perfluorooctadecanoic acid	16517-11-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFOSA	Perfluorooctanesulfonamide	754-91-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F-53B Major	F-53B Major	73606-19-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F-53B Minor	F-53B Minor	83329-89-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NaDONA	NaDONA	EVS1361	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DONA	DONA	919005-14-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Estimated contribution percentage of pathway to total mass loading presented in this table is for the May 2019 sampling event from the mass loading model. The estimated contribution percentage is based on 1st Quartile Input Values.
2. Abbreviations:
ng/s - nanograms per second
NA - Sample was not detected at laboratory detection limit or was not analyzed for in collected sample.

TABLE 10-B
ESTIMATED CONTRIBUTION PERCENTAGE OF PATHWAY TO TOTAL MASS LOADING - JUNE 2019
Chemours Fayetteville Works, North Carolina

Transport Pathway Number →				1	2	3	4	5	6A	6B	6C	6D	7	8	9
Analytical Method	**Common Name**	**Chemical Name**	**Transport Pathway →**	**Upstream River and Groundwater**	**Willis Creek**	**Aerial Deposition on River**	**Outfall 002**	**Onsite Groundwater**	**Seep A**	**Seep B**	**Seep C**	**Seep D**	**Old Outfall 002**	**Adjacent and Downstream Groundwater**	**Georgia Branch Creek**
			CASN	%	%	%	%	%	%	%	%	%	%	%	%
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	18.0%	5.7%	0.1%	4.5%	15.7%	13.0%	8.0%	3.3%	4.7%	17.0%	0.5%	9.5%
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	NA	9.1%	0.3%	0.9%	18.2%	16.4%	16.3%	1.2%	2.6%	18.0%	1.2%	16.0%
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	NA	NA	NA	100.0%	NA	NA	NA	NA	NA	NA	NA	NA
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	NA	2.7%	0.0%	3.8%	20.5%	8.8%	8.8%	3.0%	4.9%	47.0%	0.0%	0.4%
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	6.5%	4.2%	0.1%	6.8%	26.2%	11.1%	6.6%	2.5%	4.0%	28.1%	0.4%	3.6%
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	NA	2.7%	0.0%	12.9%	23.2%	16.1%	5.9%	3.0%	4.9%	29.0%	0.1%	2.1%
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	NA	2.0%	0.1%	36.7%	NA	23.8%	3.1%	2.0%	3.6%	26.6%	0.4%	1.8%
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	34.4%	7.1%	0.2%	0.6%	17.6%	8.1%	7.7%	0.8%	1.5%	10.9%	0.8%	10.3%
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	NA	2.8%	NA	18.6%	NA	26.9%	19.3%	4.9%	10.3%	16.2%	NA	1.0%
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	NA	NA	NA	23.0%	NA	24.6%	49.9%	NA	NA	2.6%	NA	NA
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	NA	NA	NA	100.0%	NA	NA	NA	NA	NA	NA	NA	NA
	R-EVE	R-EVE	EVS1428	58.5%	5.6%	NA	1.7%	NA	8.0%	10.7%	1.7%	3.3%	6.2%	NA	4.2%
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	NA	0.7%	0.2%	52.0%	NA	29.3%	0.8%	NA	0.3%	15.3%	1.0%	0.3%
	Byproduct 4	Byproduct 4	EVS1429	73.0%	2.6%	NA	8.5%	NA	3.9%	4.1%	0.4%	0.9%	3.8%	NA	2.7%
	Byproduct 5	Byproduct 5	EVS1430	61.8%	5.0%	NA	6.6%	NA	12.1%	10.5%	0.3%	0.7%	3.1%	NA	NA
	Byproduct 6	Byproduct 6	EVS1431	NA	NA	NA	79.5%	NA	6.4%	4.5%	0.6%	1.0%	8.0%	NA	NA
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	69.1%	0.9%	NA	13.6%	NA	2.3%	3.4%	0.6%	0.9%	8.9%	NA	0.3%
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	NA	NA	NA	100.0%	NA	NA	NA	NA	NA	NA	NA	NA
	PFESA-BP1	Byproduct 1	29311-67-9	NA	NA	NA	47.7%	NA	35.1%	8.8%	NA	NA	8.4%	NA	NA
	PFESA-BP2	Byproduct 2	749836-20-2	NA	1.6%	NA	84.1%	NA	4.5%	1.5%	0.3%	0.6%	5.1%	NA	2.4%
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	94.6%	0.7%	0.0%	0.0%	1.0%	0.7%	0.8%	0.1%	0.3%	1.1%	0.1%	0.7%
	PFDA	Perfluorodecanoic acid	335-76-2	NA	NA	NA	NA	NA	NA	24.9%	NA	NA	NA	NA	NA
	PFDoA	Perfluorododecanoic acid	307-55-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHpA	Perfluoroheptanoic acid	375-85-9	98.9%	0.1%	NA	0.0%	0.1%	0.2%	0.2%	0.1%	0.1%	0.2%	NA	0.1%
	PFNA	Perfluorononanoic acid	375-95-1	NA	NA	NA	NA	9.4%	23.8%	11.6%	NA	2.0%	47.5%	NA	NA
	PFOA	Perfluorooctanoic acid	335-67-1	98.6%	0.4%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%
	PFHxA	Perfluorohexanoic acid	307-24-4	99.5%	0.2%	0.0%	0.0%	0.0%	NA	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
	PFPeA	Perfluoropentanoic acid	2706-90-3	94.9%	0.3%	NA	0.0%	1.6%	0.6%	0.8%	0.2%	0.4%	0.8%	NA	0.3%
	PFTeA	Perfluorotetradecanoic acid	376-06-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFTriA	Perfluorotridecanoic acid	72629-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFUnA	Perfluoroundecanoic acid	2058-94-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFBS	Perfluorobutanesulfonic acid	375-73-5	99.4%	0.6%	NA	0.0%	0.0%	0.0%	NA	NA	NA	NA	NA	NA
	PFDS	Perfluorodecanesulfonic acid	335-77-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	99.6%	0.3%	NA	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	NA	NA	NA
	PFNS	Perfluorononanesulfonic acid	68259-12-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	99.7%	0.2%	NA	0.0%	0.1%	0.0%	0.0%	NA	NA	0.0%	NA	NA
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NEtFOSAA	NEtFOSAA	2991-50-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NEtPFOSA	NEtPFOSA	4151-50-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NMeFOSAA	NMeFOSAA	2355-31-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NMePFOSA	NMePFOSA	31506-32-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NMePFOSAE	NMePFOSAE	24448-09-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFODA	Perfluorooctadecanoic acid	16517-11-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PFOSA	Perfluorooctanesulfonamide	754-91-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F-53B Major	F-53B Major	73606-19-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	F-53B Minor	F-53B Minor	83329-89-9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NaDONA	NaDONA	EVS1361	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DONA	DONA	919005-14-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Estimated contribution percentage of pathway to total mass loading presented in this table is for the June 2019 sampling event from the mass loading model. The estimated contribution percentage is based on 1st Quartile Input Values.
2. Abbreviations:
ng/s - nanograms per second
NA - Sample was not detected at laboratory detection limit or was not analyzed for in collected sample.

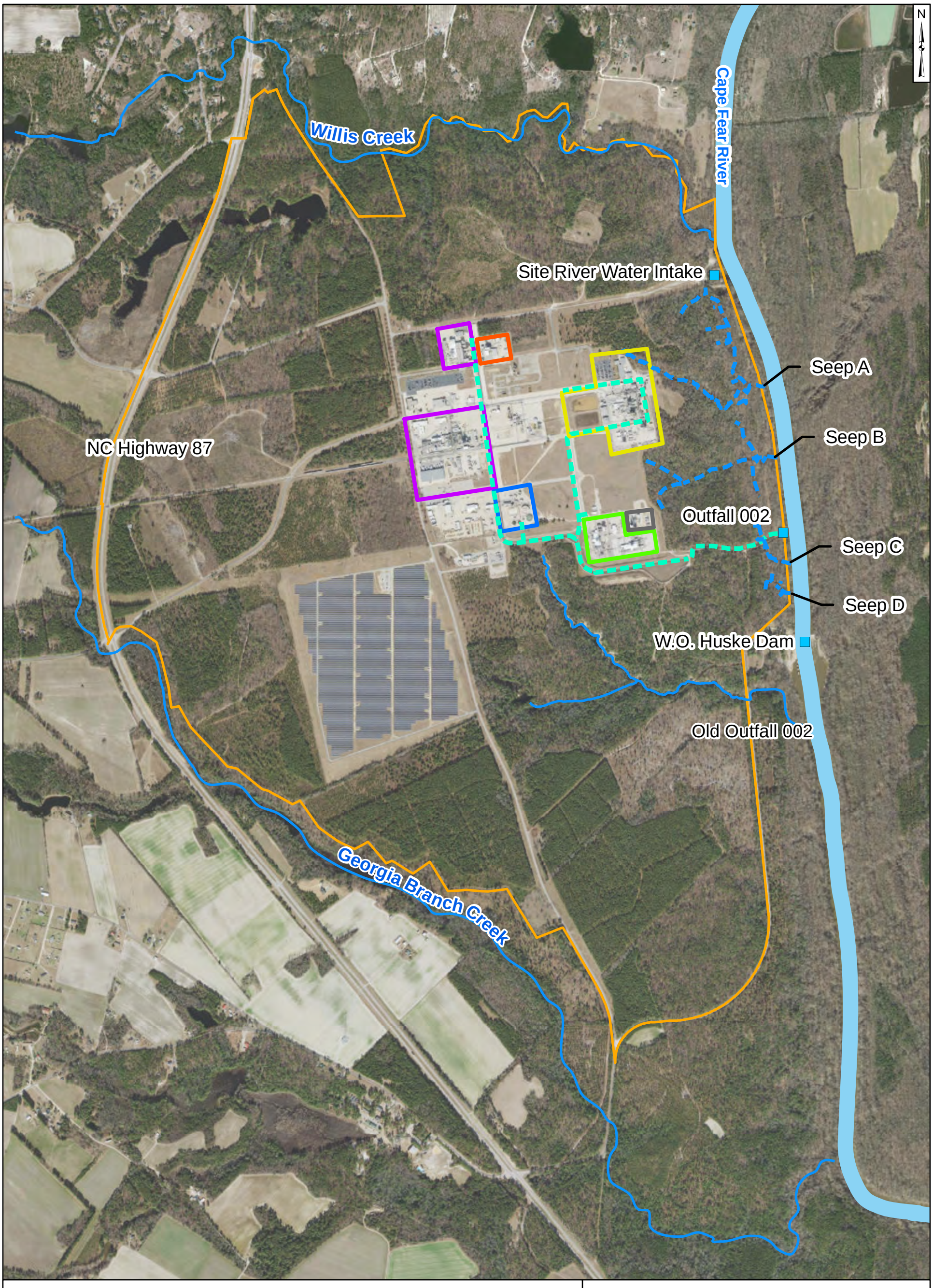
TABLE 11
ESTIMATED MASS LOADING SOURCE ORIGINATION PERCENTAGES PER COMPOUND PER PATHWAY
Chemours Fayetteville Works, North Carolina

Transport Pathway Number→				1			2			3			4			5			6A			6B			6C			6D			7			8			9		
Analytical Method	Common Name	Chemical Name	Transport Pathway →	Upstream River and Groundwater			Willis Creek			Aerial Deposition on River			Outfall 002			Onsite Groundwater			Seep A			Seep B			Seep C			Seep D			Old Outfall 002			Adjacent and Downstream Groundwater			Georgia Branch Creek		
			Source	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*	*Site*	*Other*	*Unknown*
			CASN																																			
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	Hydro-EVE Acid	Perfluoroethoxypropanoic acid	773804-62-9	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	R-EVE	R-EVE	EVS1428	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	Byproduct 4	Byproduct 4	EVS1429	75%	-	25%	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	Byproduct 5	Byproduct 5	EVS1431	86%	-	14%	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	Byproduct 6	Byproduct 6	EVS1430	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	1%	-	99%	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFESA-BP1	Byproduct 1	29311-67-9	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
	PFESA-BP2	Byproduct 2	749836-20-2	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	-	100%	-	-	100%	-	-	100%	-	100%	-	-	95%	5%	-	97%	3%	-	98%	2%	-	97%	3%	-	95%	5%	-	89%	11%	-	-	100%	-	-	88%	12%
	PFDA	Perfluorodecanoic acid	335-76-2	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFDoA	Perfluorododecanoic acid	307-55-1	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFHpA	Perfluoroheptanoic acid	375-85-9	-	100%	-	-	100%	-	-	100%	-	100%	-	-	60%	40%	-	83%	17%	-	87%	13%	-	91%	9%	-	79%	21%	-	22%	78%	-	-	100%	-	-	100%	-
	PFNA	Perfluorononanoic acid	375-95-1	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	84%	16%	-	71%	29%	-	-	100%	-	-	100%	-	44%	56%	-	-	100%	-	-	100%	-
	PFOA	Perfluorooctanoic acid	335-67-1	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	68%	32%	-	41%	59%	-	31%	69%	-	-	100%	-	64%	36%	-	-	100%	-	-	100%	-
	PFHxA	Perfluorohexanoic acid	307-24-4	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	29%	71%	-	41%	59%	-	66%	34%	-	33%	67%	-	-	100%	-	-	100%	-	-	100%	-
	PFPeA	Perfluoropentanoic acid	2706-90-3	-	100%	-	-	100%	-	-	100%	-	100%	-	-	96%	4%	-	97%	3%	-	99%	1%	-	99%	1%	-	97%	3%	-	86%	14%	-	-	100%	-	-	100%	-
	PFTeA	Perfluorotetradecanoic acid	376-06-7	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFTriA	Perfluorotridecanoic acid	72629-94-8	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFUnA	Perfluoroundecanoic acid	2058-94-8	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFBS	Perfluorobutanesulfonic acid	375-73-5	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFDS	Perfluorodecanesulfonic acid	335-77-3	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFNS	Perfluorononanesulfonic acid	68259-12-1	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	NEtFOSAA	NEtFOSAA	2991-50-6	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	NEtPFOSA	NEtPFOSA	4151-50-2	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	NEtPFOSAE	NEtPFOSAE	1691-99-2	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	NMeFOSAA	NMeFOSAA	2355-31-9	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	NMePFOSA	NMePFOSA	31506-32-8	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	NMePFOSAE	NMePFOSAE	24448-09-7	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFODA	Perfluorooctadecanoic acid	16517-11-6	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	PFOSA	Perfluorooctanesulfonamide	754-91-6	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	F-53B Major	F-53B Major	73606-19-6	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	F-53B Minor	F-53B Minor	83329-89-9	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	NaDONA	NaDONA	EVS1361	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-
	DONA	DONA	919005-14-4	-	100%	-	-	100%	-	-	100%	-	100%	-	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-	-	100%	-

Notes:

1. The source of the mass loading was estimated by compound and pathway as either Site (generated from the Site), Other (generated from Other sources), or Unknown (compound may be generated from either the Site or Other sources).
2. For Pathway 1, Table 3+ compounds were estimated to oringinate from the Site with the exception of Byproduct 4, Byproduct 5 and NVHOS whose detection in upstream river samples was not consistent with known loading pathways for PFAS originating from the Site. The fraction of these compounds originating from the Site was calculated using June event Table 3+ data where the River Mile 76 concentrations of each of the three compounds were subtracted from the River Mile 56 concentrations of each of the three compounds and then deivided by the River Mile 76 concentration. The remainder contriubtion were estimated to originate from unkown sources. All EPA 537 compounds were estimated to originate from Other sources.
3. For Pathways 2, 5, 6, and 7, all Table 3+ compounds were estimated to orignate from the Site. For the EPA 537 compounds, the percentage increase between the median Pathway concentration for all sampling events and the median Upriver [Pathway 1] concentration for all sampling events were estimated to originate from the Site. If the Pathway median was not detected or less than the Upriver concentration, then the contribution from the Site was estimated to be 0%. The remaining EPA 537 compound percentages were estimated to originate from Other sources.
4. For Pathway 3, all Table 3+ compounds were estimated to originate from the Site. All EPA 537 compounds were estimated to originate from Other sources.
4. For Pathway 4, all Table 3+ compounds and EPA 537 compounds estimated to originate from the Site. This Pathway only represents new loading introduced by the Site to the river by Outfall 002 and does not account for PFAS present in water collected at the intake.
5. For Pathway 8, all Table 3+ compounds were estimated to originate from the Site. For the EPA 537 compounds, the percentage increase between the estimated median offsite groundwater concentration and the median Upriver [Pathway 1] concentration for all sampling events was esimated to originate from Unknown sources. If the estimated median offsite groundwater concentration was not detected or less than the median Upriver concentration, then the Unknown portion was considered 0%. The remaining EPA 537 compound percentages were estimated to originate from Other sources.
6. For Pathway 9, all Table 3+ compounds were estimated to originate from the Site. For the EPA 537 compounds, the percentage increase between the median Pathway concentration for all sampling events and the median Upriver [Pathway 1] concentration for all sampling events was estimated to originate from Unknown sources. If the median Pathway concentration was not detected or less than the median Upriver concentration, then the Unknown portion was considered 0%. The remaining EPA 537 compound percentages were estimated to originate from Other sources.

FIGURES



Legend

- Site Features
- Cape Fear River
- Nearby Tributaries
- Observed Seep (Natural Drainage)
- Site Drainage Network
- Site Boundary

Areas at Site

- Chemours Monomers IXM
- Chemours PPA
- Dupont / Dow Leased
- Former DuPont PMDF Area
- Kuraray America Leased
- Wastewater Treatment Plant

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

2,000 1,000 0 2,000 Feet

Site Location Map

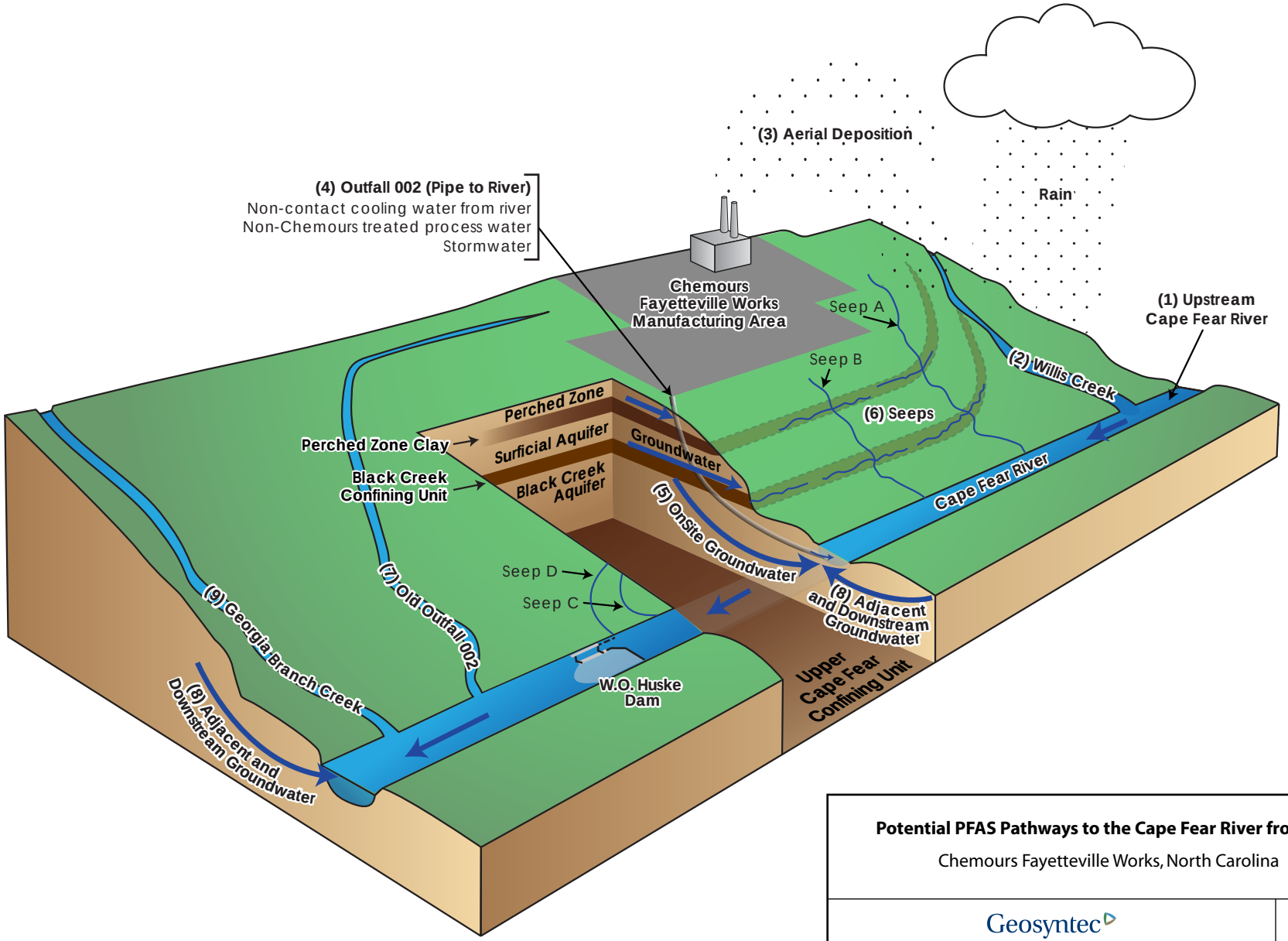
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **1**



Note: Image is conceptual and is not to scale.

Potential PFAS Pathways to the Cape Fear River from Site

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **2**

Virginia

North Carolina

South Carolina

Greensboro

Raleigh

Fayetteville

Wilmington

Start of Cape Fear River

WO Huske Lock and Dam

Chemours Fayetteville Works

Bladen Bluffs Intake

Cape Fear Lock and Dam #1/ Kings Bluff Intake Canal

Haw River

Deep River

Little River

Cape Fear River

Legend

- Chemours Fayetteville Works
- Cape Fear River
- State Boundaries
- Upper Basin
- Middle Basin
- Lower Basin

Notes:
Basemap and state boundaries provided by Esri, Garmin, USGS, NPS

20 10 0 20 Miles

Cape Fear River Watershed and Downstream Public Utility Intakes

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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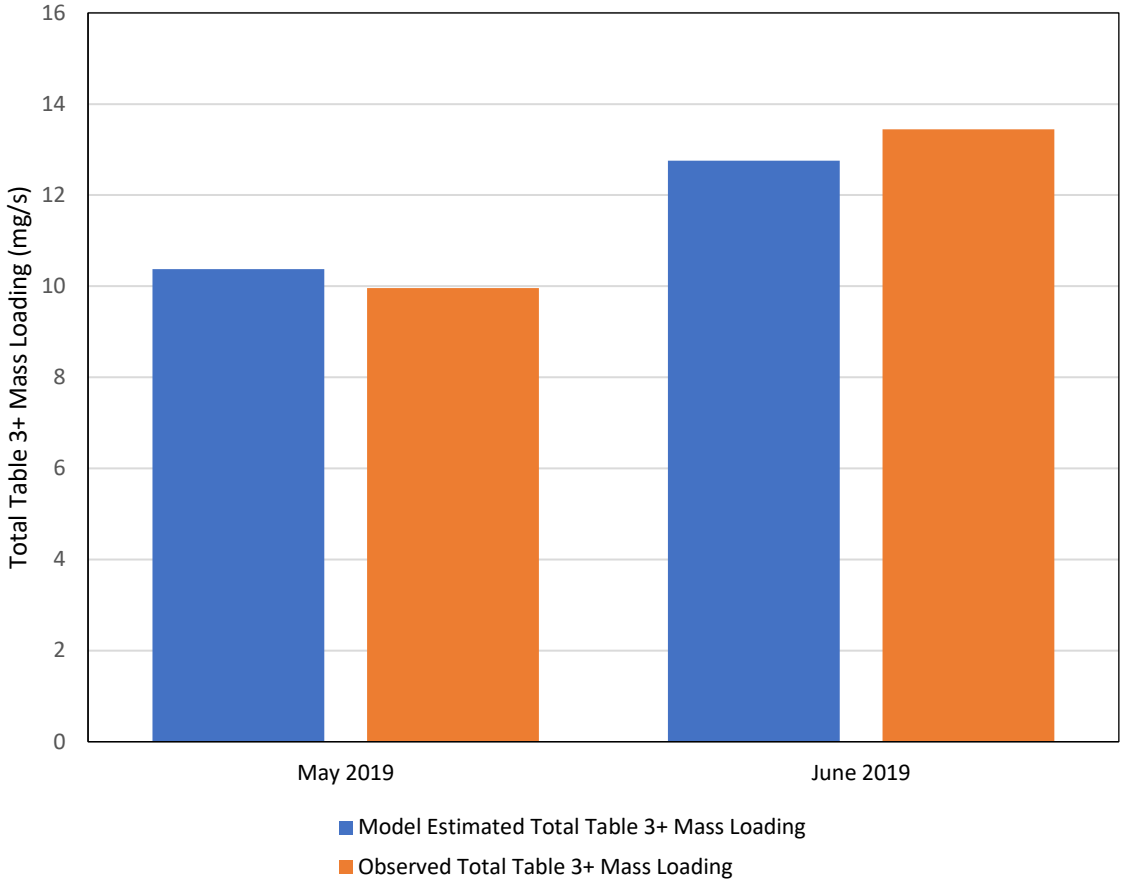
Figure 3



Acronyms:
- mg/s: milligrams per second

Notes:
- Best-fit model estimated mass loading based on 1st Quartile input parameter value scenario
- Total Table 3+ includes HFPO-DA (hexaflouropropylene oxide dimer acid)

Comparison of Observed and Best-fit Modeled Total Table 3+ Mass Loading at Bladen Bluffs
Chemours, Fayetteville Works, North Carolina

Geosyntec consultants

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

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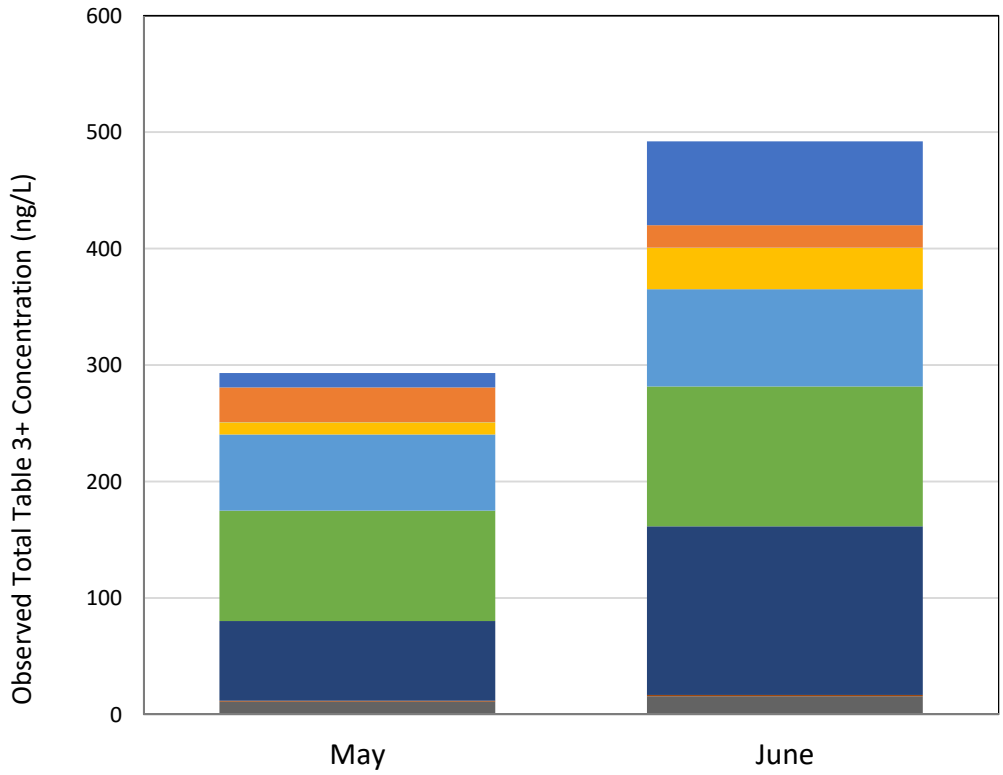
Figure 4



Legend:

- Upstream River and Groundwater
- Willis Creek
- Aerial Deposition on River
- Outfall 002
- Onsite Groundwater
- Seeps
- Old Outfall 002
- Adjacent and Downstream Groundwater
- Georgia Branch Creek

Acronyms:

- ng/L: nanograms per liter

Notes:

- February 2019 sampling even not plotted since not all Table 3+ compounds were analyzed for in collected samples due to analytical method not yet being finalized.
- Pathway percentage based on Input Parameters 1st Quartile Values Scenario
-Total Table 3+ includes HFPO-DA: (hexaflouropropylene oxide dimer acid)

Estimated Pathway Contributions to Observed Total Table 3+ Concentrations Adjacent to Bladen Bluffs Intake

Chemours, Fayetteville Works, North Carolina

Geosyntec consultants

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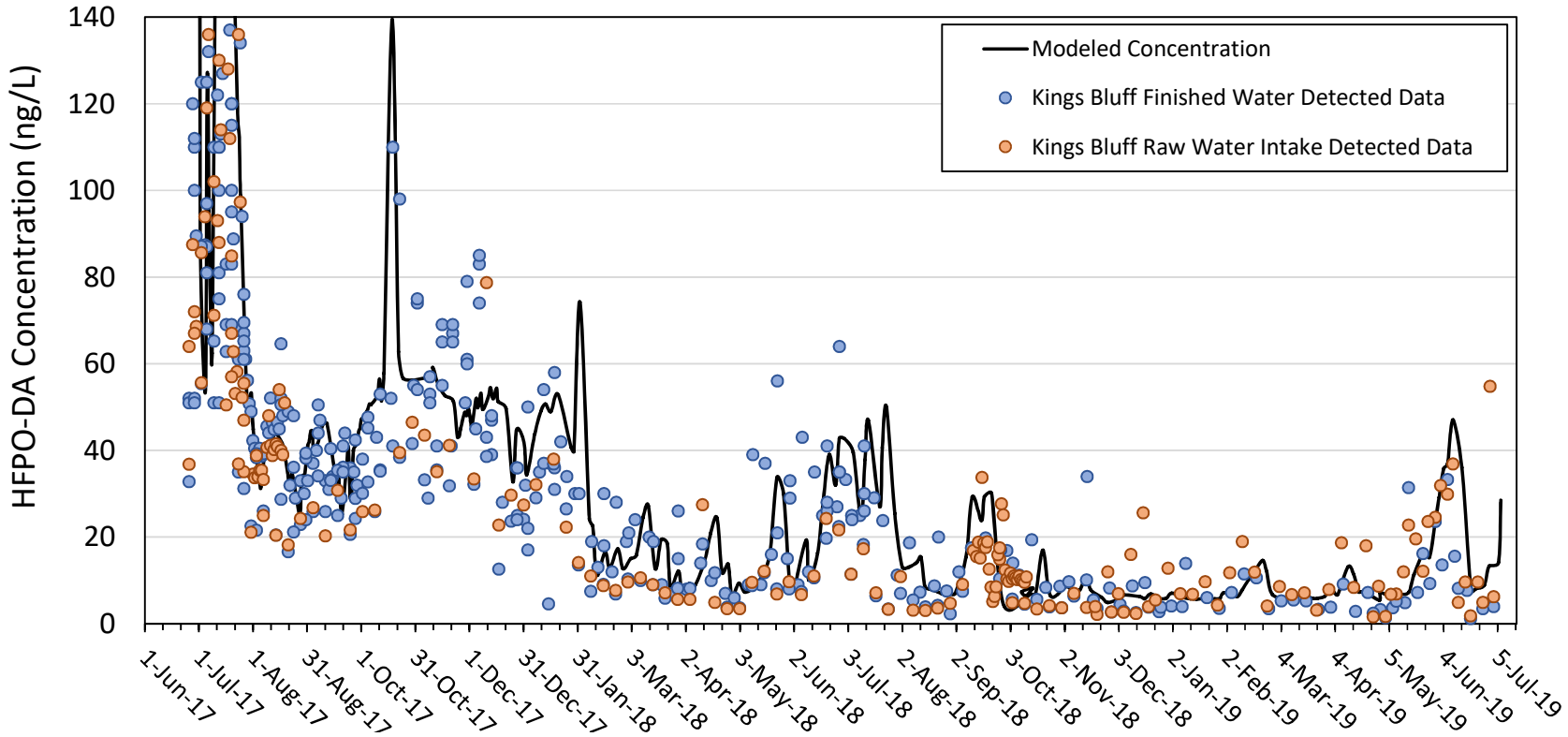
Figure 5



Notes:

- Modeled HFPO-DA concentrations are calculated based on calculated and estimated mass fluxes from off-Site and on-Site groundwater, nearby tributaries, Outfall 002.
- All water intake HFPO-DA results are detected.
- Plotted Kings Bluff Data are a combined set of publicly accessed data from downriver intakes including Cape Fear Public Utility Authority, North Carolina Department of Environmental Quality, Brunswick County, Pender County and data provided directly from Cape Fear Public Utility Authority.

Acronyms:

- HFPO-DA: Hexafluoropropylene oxide dimer acid
- ng / L: nanograms per liter

Modeled and Empirical HFPO-DA Time Series at Kings Bluff
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
NC License No.: C-3500 and C-296

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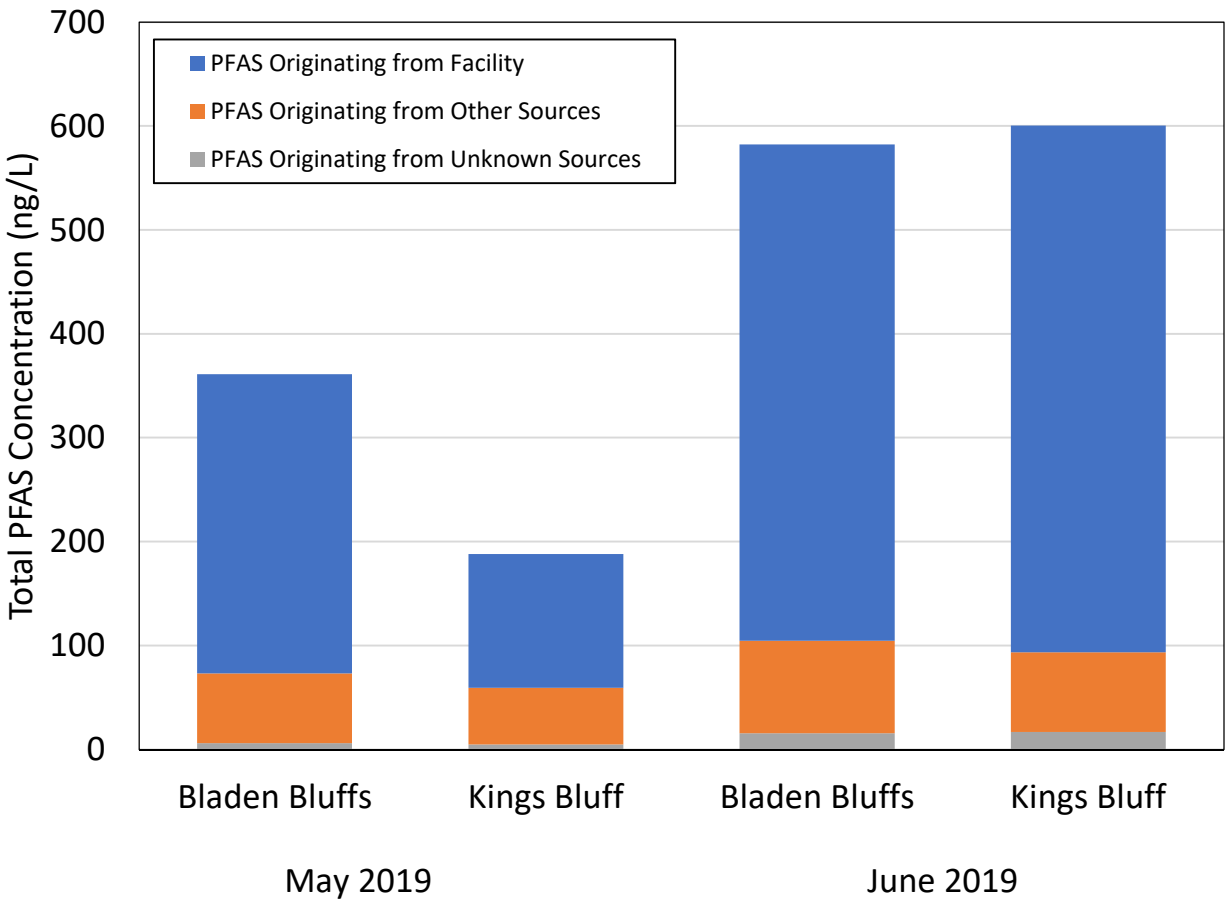
Figure 6



Acronyms:
- PFAS: per- and polyflouroalkyl substances
- ng/L: nanograms per liter

Notes:
- Source of Total PFAS based on the estimated contribution percentage of each pathway to the total mass loading and the estimated origination of that pathway from Site, Other or Unknown sources for compounds analyzed for and detected in samples of river water.

Estimated Source of Observed Total PFAS Concentration at Bladen Bluffs and Kings Bluff

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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Figure 7

APPENDIX A

SUPPLEMENTAL ANALYTICAL DATA

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorooctadecanoic acid	16517-11-6	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00260	U		N	0.00260	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	0.00290		J	Y	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00260	U		N	0.00260	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	PFOA	335-67-1	0.00610			Y	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.00260	U		N	0.00260	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorododecanoic Acid	307-55-1	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorohexanoic Acid	307-24-4	0.00570			Y	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00790	U	UJ	N	0.00790	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorodecanoic Acid	335-76-2	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00350			Y	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorobutanoic Acid	375-22-4	0.00520	U		N	0.00520	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200		J	Y	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptanoic Acid	375-85-9	0.00370			Y	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorononanoic Acid	375-95-1	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorotetradecanoic Acid	376-06-7	0.00087	U		N	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.00520	U		N	0.00520	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.10000	U		N	0.10000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00790	U	UJ	N	0.00790	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorooctane Sulfonamide	754-91-6	0.00260	U		N	0.00260	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorotridecanoic Acid	72629-94-8	0.00087	U		N	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	F-53B Major	73606-19-6	0.00087	U	UJ	N	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorononanesulfonic acid	68259-12-1	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00087	U		N	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.00260	U		N	0.00260	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluoropentanoic Acid	2706-90-3	0.00520	U		N	0.00520	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.00260	U		N	0.00260	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	PFOS	1763-23-1	0.00780			Y	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluoroundecanoic Acid	2058-94-8	0.00170	U		N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00260	U		N	0.00260	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	F-53B Minor	83329-89-9	0.00170	U	UJ	N	0.00170	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	ADONA	958445-44-8	0.00087	U	UJ	N	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	EPA 537 Rev. 1.1 modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00087	U		N	0.00087	2027918
1	FAY-SW-CFR-RM-76-020219	LANC	CFR-MILE-76	2/4/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.05000	2027918
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.00410	H		Y	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.01000	U,H		N	0.01000	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.00400	U		N	0.00400	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.02000	280-124268-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.00840			Y	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00310			Y	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.00620			Y	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00470			Y	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.02000	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	PFOA	335-67-1	0.00690			Y	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.00350	H		Y	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.02000	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.00500	U,H		N	0.00500	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.02000	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	PFOS	1763-23-1	0.01300			Y	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.02000	U,H		N	0.02000	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.02000	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.01200			Y	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.00200	280-124268-1
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.00520	H,F1	J	Y	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.00200	U,H,F1		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.00200	U,H,F1		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-052219	TAL-SAC	CFR-MILE-76	5/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.00200	U,H		N	0.00200	280-124268-3
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.00690			Y	0.00400	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.01800			Y	0.01000	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.00740			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.00440			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.02000	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	PFOA	335-67-1	0.00830			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.02000	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.00200	280-124971-1

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00680			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.00850			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00450			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.01200			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.00500	U		N	0.00500	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.02000	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.02000			Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.02000	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.02000	U		N	0.02000	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	PFOS	1763-23-1	0.01500	I		Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.02000	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.00790	F1	J	Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.00200	F1,^	J	Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.02300	F1,^	J	Y	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.00200	280-124971-1
1	FAY-SW-CFR-RM-76-060719	TAL-SAC	CFR-MILE-76	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.04600	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00260	U		N	0.00260	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.05400	U,H		N	0.05400	320-51045-1
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.06000	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	0.29000		J	Y	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.44000			Y	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	1.20000	H		Y	0.57000	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorooctadecanoic acid	16517-11-6	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U,H		N	0.01500	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00770	U	UJ	N	0.00770	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.03500	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	PFOA	335-67-1	0.00470			Y	0.00085	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorododecanoic Acid	307-55-1	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorohexanoic Acid	307-24-4	0.00250			Y	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.00260	U		N	0.00260	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U,H		N	0.02700	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorodecanoic Acid	335-76-2	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00310			Y	0.00085	2028553

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorobutanoic Acid	375-22-4	0.00540			Y	0.00510	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptanoic Acid	375-85-9	0.00180			Y	0.00085	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorotetradecanoic Acid	376-06-7	0.00085	U		N	0.00085	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.00510	U		N	0.00510	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorononanoic Acid	375-95-1	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00770	U	UJ	N	0.00770	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.03700	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.10000	U		N	0.10000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.03400	H		Y	0.03400	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.05000	U		N	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.07900	U,H		N	0.07900	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.31000			Y	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.33000	H		Y	0.08100	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.05200			Y	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.05800	H		Y	0.05800	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.05000	U		N	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.03000	U,H		N	0.03000	320-51045-1
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U,H		N	0.02400	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorotridecanoic Acid	72629-94-8	0.00085	U		N	0.00085	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	F-53B Major	73606-19-6	0.00085	U	UJ	N	0.00085	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.49000			Y	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.21000	U,H		N	0.21000	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorononanesulfonic acid	68259-12-1	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00085	U		N	0.00085	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorooctane Sulfonamide	754-91-6	0.00260	U		N	0.00260	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.00260	U		N	0.00260	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.05000	U		N	0.05000	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.00260	U		N	0.00260	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00260	U	UJ	N	0.00260	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11000	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	PFOS	1763-23-1	0.00230			Y	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoroundecanoic Acid	2058-94-8	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00260	U	UJ	N	0.00260	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.06000	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.13000			Y	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.19000	H		Y	0.04700	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00170	U		N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoropentanoic Acid	2706-90-3	0.00670			Y	0.00510	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.16000	U,H		N	0.16000	320-51045-1
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.07000	U,H		N	0.07000	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.05000	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.04100	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	F-53B Minor	83329-89-9	0.00170	U	UJ	N	0.00170	2028553
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	ADONA	958445-44-8	0.00085	U	UJ	N	0.00085	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.02800	U,H		N	0.02800	320-51045-1
2	FAY-SW-WC-1-020719	LANC	WC-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00085	U		N	0.00085	2028553
2	FAY-SW-WC-1-020719	TAL-SAC	WC-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.09100	H		Y	0.05800	320-51045-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.06000	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	2.40000			Y	0.57000	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.05400	U		N	0.05400	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.04600	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U		N	0.01500	280-124323-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U		N	0.02700	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U		N	0.03500	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.38000			Y	0.05800	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	2.00000			Y	0.08100	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.20000			Y	0.07900	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.03400	U		N	0.03400	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U		N	0.03700	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	1.30000			Y	0.21000	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U		N	0.02400	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.05900			Y	0.03000	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.72000			Y	0.04700	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.06000	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11000	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.05800	U,F1	UJ	N	0.05800	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.02800	U		N	0.02800	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.04100	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.07000	U		N	0.07000	280-124323-1
2	FAY-SW-WC-1-TR2-052219	TAL-SAC	WC-1	5/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.16000	U		N	0.16000	280-124323-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.04600	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.05400	U,H		N	0.05400	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	1.20000	H		Y	0.57000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.81000	E		Y	0.00400	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.06000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U,H		N	0.01500	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.03500	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	PFOA	335-67-1	0.00880			Y	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U,H		N	0.02700	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.02000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.00260			Y	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00220	I		Y	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00360			Y	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.01000			Y	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.02000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.03700	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.04500	H		Y	0.03400	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.07900	U,H		N	0.07900	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.73000	H		Y	0.08100	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.12000	H		Y	0.05800	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.03000	U,H		N	0.03000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U,H		N	0.02400	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	1.40000	H		Y	0.21000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.02000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.02000	280-124599-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.06000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	PFOS	1763-23-1	0.00420	I		Y	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.24000	H		Y	0.04700	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.01200			Y	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.02000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.16000	U,H		N	0.16000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.07000	U,H		N	0.07000	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.04100	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.02800	U,H		N	0.02800	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.00200	280-124599-1
2	FAY-SW-WC-1-053019	TAL-SAC	WC-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.22000	H,F1	J	Y	0.05800	280-124599-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.00200	U,H		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.32000			Y	0.00400	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.54000	H,F1	J	Y	0.01000	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.01400	H		Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.00200	U,H		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.00200	U,H		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.02000	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.00870			Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00370			Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00260			Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.00250			Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.02000	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.00200	U,H		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	PFOA	335-67-1	0.00550			Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00200	U,H,*		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.06700	H		Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.42000	H,F1	J	Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.01600	H		Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.00400	H,*	J	Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00200	U,H,*		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.02000	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.81000	H		Y	0.00500	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.00200	U,H		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.01700	H		Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.02000	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.00970			Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.14000	H		Y	0.02000	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	PFOS	1763-23-1	0.00360	I		Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00200	U,H		N	0.00200	280-124971-1

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.02000	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00200	U,H		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.27000	H,F1	J	Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.00540	H		Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.00200	U,H		N	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.02800	H,F1	J	Y	0.00200	280-124971-1
2	FAY-SW-WC-1-060719	TAL-SAC	WC-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.04100	H,F1	J	Y	0.00200	280-124971-1
4	O90618	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.02700	H		Y	0.01000	280-125541-1
4	O90620	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.03300	H		Y	0.01000	280-125541-1
4	O90625	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04400			Y	0.01000	280-125815-1
4	O90627	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.02800			Y	0.01000	280-125815-1
4	O90701	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.03300			Y	0.01000	280-125979-1
4	O90703	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04200			Y	0.01000	280-125979-1
4	O90708	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.32000			Y	0.01000	280-126229-1
4	O90712	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.06800			Y	0.01000	280-126229-1
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00492			Y	0.01136	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00091			Y	0.00120	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01215			Y	0.00481	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.03812			Y	0.01168	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00035			Y	0.00346	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00798			Y	0.02348	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.00771			Y	0.00936	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02806			Y	0.00481	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00773			Y	0.00925	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.01155			Y	0.00815	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01135			Y	0.00703	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.01632			N	0.01632	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.02213			Y	0.01055	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00215			Y	0.00521	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.01210			Y	0.00729	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00268			Y	0.00204	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00048			Y	0.00619	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00183			Y	0.01075	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00302			Y	0.00729	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00554			Y	0.00665	
4	O90503.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00171			Y	0.00115	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.02926			Y	0.01136	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00109			Y	0.00120	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.02522			Y	0.00481	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.14104			Y	0.01168	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00028			Y	0.00346	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.01249			Y	0.02348	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.42711			Y	0.00936	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.04330			Y	0.00481	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.01617			Y	0.00925	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.01226			Y	0.00815	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01229			Y	0.00703	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.02079			Y	0.01632	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.02767			Y	0.01055	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00780			Y	0.00521	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.03906			Y	0.00729	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00473			Y	0.00204	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00054			Y	0.00619	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00138			Y	0.01075	

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00949			Y	0.00729	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00961			Y	0.00665	
4	O90507.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00281			Y	0.00115	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00701			Y	0.01136	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00088			Y	0.00120	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01036			Y	0.00481	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.17133			Y	0.01168	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00028			Y	0.00346	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00521			Y	0.02348	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.01767			Y	0.00936	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02595			Y	0.00481	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00570			Y	0.00925	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00443			Y	0.00815	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.00301			Y	0.00703	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.05074			Y	0.01632	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.02653			Y	0.01055	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00807			Y	0.00521	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.01955			Y	0.00729	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00369			Y	0.00204	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00060			Y	0.00619	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00092			Y	0.01075	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.01607			Y	0.00729	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00525			Y	0.00665	
4	O90509.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00485			Y	0.00115	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.01027			Y	0.01136	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00094			Y	0.00120	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01183			Y	0.00481	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04667			Y	0.01168	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00023			Y	0.00346	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00576			Y	0.02348	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.02445			Y	0.00936	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.03233			Y	0.00481	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00581			Y	0.00925	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00541			Y	0.00815	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.00382			Y	0.00703	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.01632			N	0.01632	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.02563			Y	0.01055	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00398			Y	0.00521	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.01643			Y	0.00729	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00141			Y	0.00204	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00044			Y	0.00619	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00064			Y	0.01075	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.03676			Y	0.00729	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00433			Y	0.00665	
4	O90514.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00221			Y	0.00115	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00782			Y	0.01136	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00073			Y	0.00120	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01538			Y	0.00481	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04658			Y	0.01168	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00487			Y	0.02348	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.00588			Y	0.00936	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.03903			Y	0.00481	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.01745			Y	0.00925	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.01569			Y	0.00815	

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01703			Y	0.00703	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.01632			N	0.01632	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.03194			Y	0.01055	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00096			Y	0.00521	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.01319			Y	0.00729	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00154			Y	0.00204	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00619			N	0.00619	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00137			Y	0.01075	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00237			Y	0.00729	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00204			Y	0.00665	
4	O90517.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00166			Y	0.00115	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.01014			Y	0.01136	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00096			Y	0.00120	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01287			Y	0.00481	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04363			Y	0.01168	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			Y	0.00346	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00315			Y	0.02348	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.01787			Y	0.00936	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.03188			Y	0.00481	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00756			Y	0.00925	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00784			Y	0.00815	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.00580			Y	0.00703	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.02336			Y	0.01632	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.01631			Y	0.01055	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00126			Y	0.00521	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.01907			Y	0.00729	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00175			Y	0.00204	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00619			N	0.00619	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00091			Y	0.01075	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00364			Y	0.00729	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00183			Y	0.00665	
4	O90521.d	Onsite-Lab	Outfall 002	5/21/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00183			Y	0.00115	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.04117			Y	0.01136	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00099			Y	0.00120	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01345			Y	0.00481	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.03283			Y	0.01168	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			Y	0.00346	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.00893			Y	0.00936	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.32383			Y	0.00481	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.13017			Y	0.00925	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.06571			Y	0.00815	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.02014			Y	0.00703	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.06665			Y	0.01632	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.46102			Y	0.01055	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00174			Y	0.00521	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.04693			Y	0.00729	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00541			Y	0.00204	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00007			Y	0.00619	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00081			Y	0.01075	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00451			Y	0.00729	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.01186			Y	0.00665	
4	O90524.d	Onsite-Lab	Outfall 002	5/24/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00206			Y	0.00115	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.13190			Y	0.01136	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00090			Y	0.00120	

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.02723			Y	0.00481	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.05115			Y	0.01168	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00006			Y	0.00346	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00725			Y	0.02348	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.01847			Y	0.00936	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.90548			Y	0.00481	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.37753			Y	0.00925	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.21774			Y	0.00815	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.08791			Y	0.00703	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.19608			Y	0.01632	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	1.30581			Y	0.01055	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00648			Y	0.00521	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.17692			Y	0.00729	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.01684			Y	0.00204	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00026			Y	0.00619	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00054			Y	0.01075	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.01783			Y	0.00729	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.06386			Y	0.00665	
4	O90528.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00468			Y	0.00115	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.07938			Y	0.01136	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00076			Y	0.00120	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01617			Y	0.00481	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.03732			Y	0.01168	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			Y	0.00346	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00420			Y	0.02348	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.01820			Y	0.00936	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.39842			Y	0.00481	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.19131			Y	0.00925	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.12740			Y	0.00815	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.06211			Y	0.00703	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.08853			Y	0.01632	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.52438			Y	0.01055	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00635			Y	0.00521	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.13270			Y	0.00729	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00957			Y	0.00204	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00619			N	0.00619	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00064			Y	0.01075	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.01767			Y	0.00729	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.07475			Y	0.00665	
4	O90531.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00367			Y	0.00115	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.06789			Y	0.01136	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00081			Y	0.00120	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.02439			Y	0.00481	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.16473			Y	0.01168	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00008			Y	0.00346	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00909			Y	0.02348	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.32104			Y	0.00936	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.21141			Y	0.00481	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.09458			Y	0.00925	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.07933			Y	0.00815	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.05027			Y	0.00703	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.06669			Y	0.01632	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.24148			Y	0.01055	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.01682			Y	0.00521	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.15901			Y	0.00729	

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00795			Y	0.00204	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00024			Y	0.00619	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00159			Y	0.01075	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.02568			Y	0.00729	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.05853			Y	0.00665	
4	O90604.d	Onsite-Lab	Outfall 002	6/4/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00458			Y	0.00115	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.03399			Y	0.01136	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00103			Y	0.00120	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01474			Y	0.00481	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.06911			Y	0.01168	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00466			Y	0.02348	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.06998			Y	0.00936	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.12436			Y	0.00481	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.05139			Y	0.00925	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.04905			Y	0.00815	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.04487			Y	0.00703	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.00326			Y	0.01632	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.11977			Y	0.01055	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00779			Y	0.00521	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.12631			Y	0.00729	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00677			Y	0.00204	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00619			N	0.00619	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00119			Y	0.01075	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.01750			Y	0.00729	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.05674			Y	0.00665	
4	O90607.d	Onsite-Lab	Outfall 002	6/7/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00329			Y	0.00115	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.01727			Y	0.01136	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00058			Y	0.00120	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00597			Y	0.00481	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.06227			Y	0.01168	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00926			Y	0.02348	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.03956			Y	0.00936	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.04386			Y	0.00481	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.02026			Y	0.00925	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.02288			Y	0.00815	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.03547			Y	0.00703	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.37986			Y	0.01632	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.07790			Y	0.01055	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.01267			Y	0.00521	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.11140			Y	0.00729	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00326			Y	0.00204	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00094			Y	0.00619	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00007			Y	0.01075	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.01409			Y	0.00729	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.09535			Y	0.00665	
4	O90614.d	Onsite-Lab	Outfall 002	6/14/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00350			Y	0.00115	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.01077			Y	0.01136	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00060			Y	0.00120	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.01439			Y	0.01168	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.00883			Y	0.00936	

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02762			Y	0.00481	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00994			Y	0.00925	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.01098			Y	0.00815	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.02102			Y	0.00703	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.01632			N	0.01632	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.01082			Y	0.01055	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00191			Y	0.00521	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.07616			Y	0.00729	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00058			Y	0.00204	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00061			Y	0.00619	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00031			Y	0.01075	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00039			Y	0.00729	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.01185			Y	0.00665	
4	O90618.d	Onsite-Lab	Outfall 002	6/18/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00298			Y	0.00115	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00836			Y	0.01136	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00058			Y	0.00120	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.01883			Y	0.01168	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.01240			Y	0.00936	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02365			Y	0.00481	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00827			Y	0.00925	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00709			Y	0.00815	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01661			Y	0.00703	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.07908			Y	0.01632	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.01000			Y	0.01055	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00289			Y	0.00521	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.07029			Y	0.00729	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00039			Y	0.00204	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00071			Y	0.00619	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.01075			N	0.01075	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00211			Y	0.00729	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.01152			Y	0.00665	
4	O90620.d	Onsite-Lab	Outfall 002	6/20/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00291			Y	0.00115	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.01131			Y	0.01136	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00057			Y	0.00120	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.03321			Y	0.01168	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.04251			Y	0.00936	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02653			Y	0.00481	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00954			Y	0.00925	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.01040			Y	0.00815	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01570			Y	0.00703	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.01632			N	0.01632	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.00181			Y	0.01055	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00491			Y	0.00521	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.08031			Y	0.00729	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00174			Y	0.00204	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00060			Y	0.00619	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00023			Y	0.01075	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00729			N	0.00729	
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.01138			Y	0.00665	

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90625.d	Onsite-Lab	Outfall 002	6/25/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00254			Y	0.00115	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00965			Y	0.01136	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00061			Y	0.00120	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.01337			Y	0.01168	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.07597			Y	0.00936	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.01675			Y	0.00481	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00545			Y	0.00925	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00815			N	0.00815	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01156			Y	0.00703	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.01632			N	0.01632	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.00580			Y	0.01055	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00502			Y	0.00521	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.07592			Y	0.00729	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00047			Y	0.00204	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00063			Y	0.00619	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.01075			N	0.01075	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00031			Y	0.00729	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00968			Y	0.00665	
4	O90628.d	Onsite-Lab	Outfall 002	6/28/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00236			Y	0.00115	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00137			Y	0.01136	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00054			Y	0.00120	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.02300			Y	0.01168	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.01027			Y	0.00936	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02970			Y	0.00481	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00889			Y	0.00925	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00938			Y	0.00815	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01686			Y	0.00703	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.03549			Y	0.01632	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.01161			Y	0.01055	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00290			Y	0.00521	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.06679			Y	0.00729	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00087			Y	0.00204	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00075			Y	0.00619	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00011			Y	0.01075	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00729			N	0.00729	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00835			Y	0.00665	
4	O90701.d	Onsite-Lab	Outfall 002	7/1/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00261			Y	0.00115	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.01322			Y	0.01136	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00058			Y	0.00120	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.02203			Y	0.01168	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.02986			Y	0.00936	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02814			Y	0.00481	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00646			Y	0.00925	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00691			Y	0.00815	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.00752			Y	0.00703	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.02734			Y	0.01632	

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.00682			Y	0.01055	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00766			Y	0.00521	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.06523			Y	0.00729	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00060			Y	0.00204	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00068			Y	0.00619	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00007			Y	0.01075	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00154			Y	0.00729	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00917			Y	0.00665	
4	O90703.d	Onsite-Lab	Outfall 002	7/3/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00204			Y	0.00115	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.03117			Y	0.01136	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00057			Y	0.00120	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.01288			Y	0.00481	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.25504			Y	0.01168	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.00102			Y	0.02348	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.08267			Y	0.00936	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.08130			Y	0.00481	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.02275			Y	0.00925	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.01411			Y	0.00815	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.01599			Y	0.00703	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.02674			Y	0.01632	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.01486			Y	0.01055	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00023			Y	0.00521	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.11438			Y	0.00729	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00058			Y	0.00204	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00066			Y	0.00619	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.00091			Y	0.01075	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00563			Y	0.00729	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.01478			Y	0.00665	
4	O90708.d	Onsite-Lab	Outfall 002	7/8/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00310			Y	0.00115	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00975			Y	0.01136	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00059			Y	0.00120	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04042			Y	0.01168	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.02327			Y	0.00936	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.02695			Y	0.00481	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00548			Y	0.00925	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00708			Y	0.00815	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.00627			Y	0.00703	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.07399			Y	0.01632	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.00323			Y	0.01055	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00372			Y	0.00521	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.06017			Y	0.00729	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00194			Y	0.00204	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00061			Y	0.00619	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.01075			N	0.01075	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00729			N	0.00729	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00681			Y	0.00665	
4	O90712.d	Onsite-Lab	Outfall 002	7/12/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00227			Y	0.00115	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	NVHOS	1132933-86-8	0.00178			Y	0.01136	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PES	113507-82-7	0.00051			Y	0.00120	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PMPA	13140-29-9	0.00481			N	0.00481	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04631			Y	0.01168	

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PFECA_B	151772-58-6	0.00346			N	0.00346	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PEPA	267239-61-2	0.02348			N	0.02348	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	Byproduct 1	29311-67-9	0.01412			Y	0.00936	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PFO2HxA	39492-88-1	0.01526			Y	0.00481	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PFO3OA	39492-89-2	0.00260			Y	0.00925	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PFO4DA	39492-90-5	0.00327			Y	0.00815	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PFO5DA	39492-91-6	0.00558			Y	0.00703	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PPF Acid	422-64-0	0.00496			Y	0.01632	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.01055			N	0.01055	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	EVE-Acid	69087-46-3	0.00365			Y	0.00521	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	Byproduct 2	749836-20-2	0.04769			Y	0.00729	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	Hydro-EVE Acid	773804-62-9	0.00039			Y	0.00204	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	PFECA_G	801212-59-9	0.00071			Y	0.00619	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	R-EVE	EVS1428	0.01075			N	0.01075	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	Byproduct 4	EVS1429	0.00064			Y	0.00729	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	Byproduct 5	EVS1430	0.00754			Y	0.00665	
4	O90716.d	Onsite-Lab	Outfall 002	7/16/2019	Preliminary data from Onsite Lab	Byproduct 6	EVS1431	0.00131			Y	0.00115	
4	O90716.d	Onsite-Lab	Outfall 002	1/3/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.19000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/7/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.34000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/10/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.11000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/14/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.24000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/17/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.09200			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/22/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.19000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/25/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.34000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/28/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.08500			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/1/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.08800			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/4/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.09100			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/7/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.08800			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/11/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.09000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/14/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.24000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/18/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.15000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/25/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.35000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/28/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.05400			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/4/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.29000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/7/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.06200			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/11/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.11000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/14/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04900			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/18/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.12000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/21/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.07200			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/25/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.08700			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/28/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.11000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/1/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.06800			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/5/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.35000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/8/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04800			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/9/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.24000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/12/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.07300			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/16/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.14000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/18/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04800			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/23/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.14000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/24/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.06200			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/26/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.05900			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/30/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.05800			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.05600			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.19000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.29000			Y		

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	O90716.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.08300			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.04700			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.07600			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/30/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.09950			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	HFPO-DA	13252-13-6	0.06800			Y		
4	O90716.d	Onsite-Lab	Outfall 002	1/28/2019	Preliminary data from Onsite Lab	PFOA	335-67-1	0.08500			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/18/2019	Preliminary data from Onsite Lab	PFOA	335-67-1	0.15000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	2/4/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	2/7/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	2/11/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	2/14/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	2/18/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	2/25/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	2/28/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	3/4/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	1.30000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/7/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.72000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	3/11/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	3/14/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	3/18/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	3/21/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	3/25/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	3/28/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/1/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/5/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/8/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/9/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/12/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/16/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/18/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/23/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.12000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/24/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	4/26/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.07000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	4/30/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	5/3/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	5/7/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	5/9/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	5/14/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	5/17/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	5/20/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	0.21000			N		
4	O90716.d	Onsite-Lab	Outfall 002	5/28/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	5.50000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/30/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	2.55000			Y		
4	O90716.d	Onsite-Lab	Outfall 002	5/31/2019	Preliminary data from Onsite Lab	PFMOAA	674-13-5	2.10000			Y		
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.060	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.57000	U		N	0.57	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.046	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.05400	U		N	0.054	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U		N	0.015	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,F1	UJ	N	0.035	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U		N	0.027	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.08100	U		N	0.081	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.05800	U		N	0.058	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.07900	U		N	0.079	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.03400	U		N	0.034	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,F1	UJ	N	0.037	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.21000	U		N	0.21	280-124212-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.03000	U		N	0.030	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U		N	0.024	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.04700	U		N	0.047	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.060	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.02800	U		N	0.028	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.07000	U		N	0.070	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.16000	U		N	0.16	280-124212-1
4	DSTW-OUTFALL 002-052019	TAL-SAC	Outfall 002	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.05800	U		N	0.058	280-124212-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.10000	H		Y	0.054	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.64000	H		Y	0.57	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	Hfpo Dimer Acid	13252-13-6	0.11000	H		Y	0.086	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.035	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.64000	H		Y	0.081	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.14000	H		Y	0.034	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.22000	H		Y	0.079	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.32000	H		Y	0.058	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.037	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.19000	H		Y	0.030	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U,H		N	0.024	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	2.50000	H		Y	0.21	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.02800	U,H		N	0.028	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.04700	U,H		N	0.047	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.03000	H		Y	0.027	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U,H		N	0.015	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	1.30000	H,F1	J	Y	0.058	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.23000	H		Y	0.16	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.07000	U,H		N	0.070	280-124597-1
4	FAY-DSTW-OUTFALL002-053019	TAL-SAC	Outfall 002	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	280-124597-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.01200	U,H		N	0.0060	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00000			Y	0.0040	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.00000	U,H		N	0.057	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00000	H		Y	0.0054	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	PFOA	335-67-1	0.00000	U,H		N	0.0046	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00000	H		Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00000	U		N	0.020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00000	U		N	0.020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.00000	H		Y	0.0027	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00000	U,H,*		N	0.0035	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00000			Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.00000			Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00000			Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00000			Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00000			Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.00000	U		N	0.0020	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.00000	H,*	J	Y	0.0034	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	PFOS	1763-23-1	0.00000	H		Y	0.0081	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00000	H		Y	0.0058	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00000	H		Y	0.0079	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00000	U		N	0.020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.09700	U,H,*		N	0.0037	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.55440	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.00400	H		Y	0.021	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.00280	H		Y	0.0030	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.00450	H		Y	0.0024	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00000	U		N	0.020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.03370	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.00000			Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.00000	U,H		N	0.020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.00000	U		N	0.020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.00000	U,H		N	0.011	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.01400	U,H		N	0.0060	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.21000			Y	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.48000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.09000	U		N	0.0020	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.05130	H		Y	0.0028	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.04600	U,H		N	0.0041	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.06100	H		Y	0.0070	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.00000	H		Y	0.016	280-124971-1
4	WSTW-OUTFALL 002-060719	TAL-SAC	Outfall 002	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.01300	H		Y	0.0058	280-124971-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	22.00000	H,F1	J	Y	17	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Hfpo Dimer Acid	13252-13-6	24.00000			Y	0.13	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	4.50000	U,H		N	4.5	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	PFOS	1763-23-1	0.01200			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	3.30000	U,H		N	3.3	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	20.00000	U,H	UJ	N	20	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.47000			Y	0.043	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	23.00000	U,H	UJ	N	23	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorohexanoic Acid	307-24-4	0.02600			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	10.00000	U,H,*,F1	UJ	N	10	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	PFOA	335-67-1	0.03400			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00540			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorobutanoic Acid	375-22-4	0.19000			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00220			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.05000			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	320-44881-1

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorononanoic Acid	375-95-1	0.00210			Y	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	35.00000	H,F1	J	Y	18	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	18.00000	U,H	UJ	N	18	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	19.00000	U,H	UJ	N	19	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	21.00000	U,H	UJ	N	21	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	16.00000	U,H,*	UJ	N	16	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	59.00000	H		Y	19	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	F-53B Major	73606-19-6	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	19.00000	U,H	UJ	N	19	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U,F1		N	0.020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	19.00000	U,H	UJ	N	19	320-44881-3
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	F-53B Minor	83329-89-9	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	ADONA	958445-44-8	0.00210	U		N	0.0021	320-44881-1
5	PF1018-LTW-01	TAL-SAC	LTW-01	10/31/2018	537 Modified	NaDONA	EVS1361	0.00210	U		N	0.0021	320-44881-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	8.40000	U,H,F1		N	8.4	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Hfpo Dimer Acid	13252-13-6	8.30000			Y	0.12	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	2.30000	U,H		N	2.3	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	1.70000	U,H		N	1.7	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	10.00000	U,H		N	10	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.25000			Y	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	12.00000	U,H	UJ	N	12	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorohexanoic Acid	307-24-4	0.00860			Y	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	5.20000	U,H,F1,*	UJ	N	5.2	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	PFOA	335-67-1	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorobutanoic Acid	375-22-4	0.06700			Y	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.01200			Y	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	15.00000	H		Y	9.2	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	8.80000	U,H,F1		N	8.8	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	9.70000	U,H		N	9.7	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	11.00000	U,H	UJ	N	11	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	8.20000	U,H,F1,*	UJ	N	8.2	1965780

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	44.00000	H		Y	9.5	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00200	U		N	0.0020	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	F-53B Major	73606-19-6	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	9.50000	U,H,F1	UJ	N	9.5	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	9.60000	U,H		N	9.6	320-41147-1
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	F-53B Minor	83329-89-9	0.00200	U		N	0.0020	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	ADONA	958445-44-8	0.00210	U		N	0.0021	1965780
5	PF1018-LTW-02	TAL-SAC	LTW-02	10/31/2018	537 Modified	NaDONA	EVS1361	0.00210	U		N	0.0021	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	10:2 Fluorotelomer sulfonate	120226-60-0	0.00830	U		N	0.0083	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	10.00000			Y	2.0	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	SW8321B	Hfpo Dimer Acid	13252-13-6	8.50000	Z	J	Y	0.092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorooctadecanoic acid	16517-11-6	0.00180	U		N	0.0018	320-45387-2
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00280	U		N	0.0028	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	PFOS	1763-23-1	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluoroundecanoic Acid	2058-94-8	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.00280	U		N	0.0028	320-45387-2
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00280	U		N	0.0028	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	2.70000			Y	2.0	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluoropentanoic Acid	2706-90-3	0.58000			Y	0.055	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	6:2 Fluorotelomer sulfonate	27619-97-2	0.00180	U		N	0.0018	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	1.20000	U		N	2.0	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.00280	U		N	0.0028	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorohexanoic Acid	307-24-4	0.01200			Y	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorododecanoic Acid	307-55-1	0.00180	U		N	0.0018	320-45387-2
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00830	U		N	0.0083	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	PFOA	335-67-1	0.00092	U		N	0.00092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorodecanoic Acid	335-76-2	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorodecane Sulfonic Acid	335-77-3	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorohexane Sulfonic Acid	355-46-4	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorobutanoic Acid	375-22-4	0.13000			Y	0.0055	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorobutane Sulfonic Acid	375-73-5	0.00092	U		N	0.00092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluoroheptanoic Acid	375-85-9	0.01500			Y	0.00092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorononanoic Acid	375-95-1	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorotetradecanoic Acid	376-06-7	0.00092	U		N	0.00092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.00550	U		N	0.0055	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	37.00000	F1	J	Y	2.0	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	5.60000			Y	2.0	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.97000	U		N	2.0	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	1.10000	U		N	2.0	320-45387-2
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00830	U	UJ	N	0.0083	320-45387-2
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorononanesulfonate	474511-07-4	0.00180	U		N	0.0018	320-45387-1
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	151.00000			Y	2.0	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00092	U		N	0.00092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorotridecanoic Acid	72629-94-8	0.00092	U		N	0.00092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	SW8321B	F-53B Major	73606-19-6	0.00092	U	UJ	N	0.00092	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.95000	U		N	2.0	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorooctane Sulfonamide	754-91-6	0.00280	U		N	0.0028	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.00280	U		N	0.0028	320-45387-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	537 Rev. 1.1 MOD.	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00092	U		N	0.00092	320-45387-2
5	GW0718-LTW-03	TAL-SAC	LTW-03	7/13/2018	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.96000	U		N	2.0	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	SW8321B	F-53B Minor	83329-89-9	0.00092	UZ	UJ	N	0.00092	320-45387-1
5	GW0718-LTW-03	LANC	LTW-03	7/13/2018	SW8321B	NaDONA	EVS1361	0.00092	U	UJ	N	0.00092	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	42.00000	U,H		N	42	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Hfpo Dimer Acid	13252-13-6	18.00000			Y	0.14	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	11.00000	U,H,*	UJ	N	11	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	8.30000	U,H		N	8.3	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	50.00000	U,H		N	50	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluoropentanoic Acid	2706-90-3	1.60000			Y	0.047	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	58.00000	U,H		N	58	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorohexanoic Acid	307-24-4	0.03700			Y	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	26.00000	U,H,*	UJ	N	26	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	PFOA	335-67-1	0.00600			Y	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorobutanoic Acid	375-22-4	0.37000			Y	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.06500			Y	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	46.00000	U,H		N	46	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	44.00000	U,H		N	44	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	49.00000	U,H		N	49	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	53.00000	U,H		N	53	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	41.00000	U,H,*	UJ	N	41	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	99.00000	H		Y	47	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	F-53B Major	73606-19-6	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	47.00000	U,H		N	47	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	48.00000	U,H		N	48	320-45387-2
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	F-53B Minor	83329-89-9	0.00200	U		N	0.0020	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	ADONA	958445-44-8	0.00210	U		N	0.0021	320-45387-1
5	PF1018-LTW-04	TAL-SAC	LTW-04	11/12/2018	537 Modified	NaDONA	EVS1361	0.00210	U		N	0.0021	320-45387-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	84.00000	U,H		N	84	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Hfpo Dimer Acid	13252-13-6	33.00000			Y	0.13	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	320-44881-1

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	23.00000	U,H		N	23	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	17.00000	U,H		N	17	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	100.00000	U,H		N	100	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluoropentanoic Acid	2706-90-3	3.10000			Y	0.044	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	120.00000	U,H		N	120	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorohexanoic Acid	307-24-4	0.12000			Y	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	52.00000	U,H		N	52	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	PFOA	335-67-1	0.00330			Y	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorobutanoic Acid	375-22-4	0.40000			Y	0.031	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.28000			Y	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	92.00000	U,H		N	92	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	88.00000	U,H		N	88	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	97.00000	U,H		N	97	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	110.00000	U,H		N	110	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	82.00000	U,H,*	UJ	N	82	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	262.00000	H		Y	95	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	F-53B Major	73606-19-6	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	95.00000	U,H		N	95	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	96.00000	U,H		N	96	320-44881-3
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	F-53B Minor	83329-89-9	0.00200	U		N	0.0020	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	ADONA	958445-44-8	0.00210	U		N	0.0021	320-44881-1
5	PF1018-LTW-05	TAL-SAC	LTW-05	11/12/2018	537 Modified	NaDONA	EVS1361	0.00210	U		N	0.0021	320-44881-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00250	U		N	0.0025	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	320-51045-1
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.98000	H		Y	0.054	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	10.00000		J	Y	0.17	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	19.00000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	25.00000	H		Y	0.57	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorooctadecanoic acid	16517-11-6	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00250	U		N	0.0025	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	320-51045-1
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.04700	H		Y	0.015	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorononanoic Acid	375-95-1	0.02000			Y	0.0017	2028553

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorotetradecanoic Acid	376-06-7	0.00085	U		N	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptanoic Acid	375-85-9	0.09400			Y	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00290			Y	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorobutanoic Acid	375-22-4	0.26000			Y	0.0051	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00140			Y	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorodecanoic Acid	335-76-2	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	PFOA	335-67-1	0.03500			Y	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00760	U	UJ	N	0.0076	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.035	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.00250	U		N	0.0025	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorododecanoic Acid	307-55-1	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorohexanoic Acid	307-24-4	0.03900			Y	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.00510	U		N	0.0051	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	6.80000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	8.10000	H		Y	0.079	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	6.30000			Y	0.10	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	5.60000	H		Y	0.034	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	12.00000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	14.00000	H		Y	0.058	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	35.00000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	41.00000	H		Y	0.081	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00760	U	UJ	N	0.0076	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.037	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	F-53B Major	73606-19-6	0.00085	U	UJ	N	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorotridecanoic Acid	72629-94-8	0.00085	U		N	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.96000	H		Y	0.024	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.20000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.20000	H		Y	0.030	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00085	U		N	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorononanesulfonic acid	68259-12-1	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	62.00000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	84.00000	H		Y	0.21	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.00250	U		N	0.0025	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorooctane Sulfonamide	754-91-6	0.00250	U		N	0.0025	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoroundecanoic Acid	2058-94-8	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	PFOS	1763-23-1	0.00630			Y	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.00250	U		N	0.0025	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00250	U		N	0.0025	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoropentanoic Acid	2706-90-3	0.52000			Y	0.051	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.00170	U		N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	7.10000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	9.90000	H		Y	0.047	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	4.30000			Y	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	4.00000	H		Y	0.027	320-51045-1
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	23.00000	H		Y	0.058	320-51045-1
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	2.20000	H		Y	0.16	320-51045-1
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.20000	H		Y	0.070	320-51045-1
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	F-53B Minor	83329-89-9	0.00170	U	UJ	N	0.0017	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	ADONA	958445-44-8	0.00085	U	UJ	N	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.050	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	320-51045-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
6	FAY-SW-SEEP-A-1-020719	LANC	SEEP-A-1	2/7/2019	EPA 537 Rev. 1.1 modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00085	U		N	0.00085	2028553
6	FAY-SW-SEEP-A-1-020719	TAL-SAC	SEEP-A-1	2/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	1.70000	H		Y	0.028	320-51045-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.060	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.060	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	25.00000	F1	J	Y	0.57	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	24.00000		J	Y	0.57	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.060	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.060	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	1.40000			Y	0.054	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	1.40000			Y	0.054	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.046	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.046	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	47.00000			Y	0.081	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	48.00000			Y	0.081	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U	UJ	N	0.035	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U		N	0.035	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	PFOA	335-67-1	0.03700			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	PFOA	335-67-1	0.03900			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00330			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00330			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.36000			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.36000			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.12000			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.12000			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.02600			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.02800			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U	UJ	N	0.037	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,F1	UJ	N	0.037	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	18.00000			Y	0.058	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	18.00000			Y	0.058	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	6.20000			Y	0.034	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	7.10000			Y	0.034	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	11.00000			Y	0.079	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	11.00000			Y	0.079	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124212-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.50000			Y	0.028	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.50000			Y	0.028	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	103.00000			Y	0.21	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	103.00000	F1	J	Y	0.21	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	1.70000			Y	0.024	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	1.60000			Y	0.024	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.70000			Y	0.030	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.80000			Y	0.030	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	7.40000			Y	0.027	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	7.40000			Y	0.027	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	11.00000			Y	0.047	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	11.00000			Y	0.047	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.69000			Y	0.0023	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.75000			Y	0.0024	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	PFOS	1763-23-1	0.00550			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	PFOS	1763-23-1	0.00570			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.60000			Y	0.070	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.60000			Y	0.070	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	3.00000			Y	0.16	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	3.00000			Y	0.16	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	32.00000			Y	0.058	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	31.00000			Y	0.058	280-124212-1
6	FAY-SW-SEEPA-1-052019	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.06700			Y	0.015	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.07400			Y	0.015	280-124212-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	1.00000	H		Y	0.054	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	20.00000	E		Y	0.014	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	17.00000	H		Y	0.57	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.05000	H		Y	0.015	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.01500			Y	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.07900			Y	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.24000			Y	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00400			Y	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00220			Y	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	PFOA	335-67-1	0.03600			Y	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H,*		N	0.035	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	5.30000	H		Y	0.079	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	4.60000	H,*	J	Y	0.034	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	11.00000	H		Y	0.058	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	30.00000	H		Y	0.081	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H,*		N	0.037	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.97000	H		Y	0.024	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.30000	H		Y	0.030	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	72.00000	H		Y	0.21	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	PFOS	1763-23-1	0.00970			Y	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.49000			Y	0.0045	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	6.90000	H		Y	0.047	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	5.30000	H		Y	0.027	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	18.00000	H		Y	0.058	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	1.70000	H		Y	0.16	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.10000	H		Y	0.070	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	1.40000	H		Y	0.028	280-124971-1
6	FAY-SW-SEEP A-1-060719	TAL-SAC	SEEP-A-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	280-124971-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	1.40000			Y	0.054	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.046	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	25.00000	F1	J	Y	0.57	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.060	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.060	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	PFOS	1763-23-1	0.00550			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	11.00000			Y	0.047	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.75000			Y	0.0024	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124212-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	7.40000			Y	0.027	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U		N	0.035	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	PFOA	335-67-1	0.03700			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00330			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.36000			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.12000			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.02600			Y	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	48.00000			Y	0.081	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	18.00000			Y	0.058	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	11.00000			Y	0.079	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	6.20000			Y	0.034	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,F1	UJ	N	0.037	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	103.00000			Y	0.21	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	1.70000			Y	0.024	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.70000			Y	0.030	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.50000			Y	0.028	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Hfpo Dimer Acid (trial)	EVS1200	38.00000			Y	0.086	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.60000			Y	0.070	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	3.00000			Y	0.16	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	32.00000			Y	0.058	280-124212-1
6	FAY-SW-SEEPA-1-052019-D	TAL-SAC	SEEP-A-1	5/20/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.07400			Y	0.015	280-124212-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorooctadecanoic acid	16517-11-6	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	38.00000			Y	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	42.00000	H		Y	0.57	320-51045-1
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	24.00000		J	Y	1.8	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	3.30000	H		Y	0.054	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.02700	U		N	0.027	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	320-51045-1
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.08400	H		Y	0.015	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.05400	U		N	0.054	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorodecanoic Acid	335-76-2	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorodecane Sulfonic Acid	335-77-3	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00900	U		N	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorobutanoic Acid	375-22-4	0.56000			Y	0.054	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexane Sulfonic Acid	355-46-4	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptanoic Acid	375-85-9	0.17000			Y	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorotetradecanoic Acid	376-06-7	0.00900	U		N	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorononanoic Acid	375-95-1	0.01800			Y	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexanoic Acid	307-24-4	0.04700			Y	0.018	2028125

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorododecanoic Acid	307-55-1	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02700	U		N	0.027	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	PFOA	335-67-1	0.03100			Y	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.08100	U		N	0.081	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.035	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	43.00000			Y	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	43.00000	H		Y	0.081	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	11.00000			Y	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	9.20000	H		Y	0.058	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	2.00000			Y	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.80000	H		Y	0.079	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.46000			Y	0.10	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.53000	H		Y	0.034	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.08100	U		N	0.081	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.037	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02700	U		N	0.027	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorooctane Sulfonamide	754-91-6	0.02700	U		N	0.027	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorononanesulfonic acid	68259-12-1	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00900	U		N	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	150.00000			Y	0.50	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	148.00000	H		Y	0.21	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.10000			Y	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	1.10000	H		Y	0.030	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorotridecanoic Acid	72629-94-8	0.00900	U		N	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	F-53B Major	73606-19-6	0.00900	U		N	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	6.10000	H		Y	0.024	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoropentanoic Acid	2706-90-3	1.60000			Y	0.054	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	15.00000			Y	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	17.00000	H		Y	0.047	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	PFOS	1763-23-1	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroundecanoic Acid	2058-94-8	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.02700	U		N	0.027	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02700	U		N	0.027	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.02700	U		N	0.027	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	4.60000			Y	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	3.50000	H		Y	0.027	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00900	U		N	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.80000	H		Y	0.028	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.050	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	320-51045-1
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	ADONA	958445-44-8	0.00900	U		N	0.009	2028125
7	FAY-SW-SEEP-B-1-020519	LANC	SEEP-B-1	2/5/2019	EPA 537 Rev. 1.1 modified	F-53B Minor	83329-89-9	0.01800	U		N	0.018	2028125
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	3.20000	H		Y	0.070	320-51045-1
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	4.70000	H		Y	0.16	320-51045-1
7	FAY-SW-SEEP-B-1-020519	TAL-SAC	SEEP-B-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	38.00000	H,*		Y	0.058	320-51045-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.046	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	2.70000			Y	0.054	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.060	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	34.00000			Y	0.57	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124257-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.05300			Y	0.015	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U		N	0.035	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	PFOA	335-67-1	0.01700			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.01200			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.14000			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.47000			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00220			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U		N	0.037	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.21000			Y	0.034	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.30000			Y	0.079	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	9.60000			Y	0.058	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	43.00000			Y	0.081	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	2.90000			Y	0.024	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.66000			Y	0.030	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	150.00000			Y	0.21	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	2.00000			Y	0.027	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.060	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	PFOS	1763-23-1	0.00230			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	13.00000			Y	0.047	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	1.20000			Y	0.0023	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	21.00000	F1	J	Y	0.058	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	2.90000			Y	0.16	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	2.00000			Y	0.070	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	1.70000			Y	0.028	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	35.00000	H		Y	0.57	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	27.00000	E		Y	0.014	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	3.20000	H		Y	0.054	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.07800	H		Y	0.015	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00260			Y	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.60000			Y	0.0033	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00220			Y	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.17000			Y	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.01600			Y	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	PFOA	335-67-1	0.02400			Y	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.035	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	39.00000	H		Y	0.081	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	8.80000	H		Y	0.058	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.50000	H		Y	0.079	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.27000	H		Y	0.034	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.037	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	157.00000	H		Y	0.21	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.94000	H		Y	0.030	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	4.30000	H		Y	0.024	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	1.50000			Y	0.0046	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	15.00000	H		Y	0.047	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	PFOS	1763-23-1	0.00220	I		Y	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	2.90000	H		Y	0.027	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.20000	H		Y	0.028	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	3.20000	H		Y	0.070	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	3.90000	H		Y	0.16	280-124971-1
7	FAY-SW-SEEP B-1-060719	TAL-SAC	SEEP-B-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	34.00000	H		Y	0.058	280-124971-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	2.00000			Y	0.027	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U		N	0.035	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	PFOA	335-67-1	0.01700			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00220			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.47000			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.14000			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.01200			Y	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124257-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	43.00000			Y	0.081	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	9.60000			Y	0.058	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.30000			Y	0.079	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.21000			Y	0.034	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U		N	0.037	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	150.00000			Y	0.21	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	2.90000			Y	0.024	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.66000			Y	0.030	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	1.70000			Y	0.028	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Hfpo Dimer Acid (trial)	EVS1200	25.00000			Y	0.086	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	2.00000			Y	0.070	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	2.90000			Y	0.16	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	21.00000	F1	J	Y	0.058	280-124257-1
7	FAY-SW-SEEP-B-1-052119	TAL-SAC	SEEP-B-1	5/21/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.05300			Y	0.015	280-124257-1
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.09200	U,H		N	0.092	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.02700	U		N	0.027	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.02600	U		N	0.026	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	2.00000	H		Y	0.11	320-51045-1
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.12000	U,H		N	0.12	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	27.00000		J	Y	1.8	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	27.00000		J	Y	1.7	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	16.00000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	15.00000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	16.00000	H		Y	1.1	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorooctadecanoic acid	16517-11-6	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorooctadecanoic acid	16517-11-6	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.02700	U		N	0.027	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.02600	U		N	0.026	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.12000	U,H		N	0.12	320-51045-1
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.03100	U,H		N	0.031	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.08200	U		N	0.082	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.07900	U		N	0.079	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.06900	U,H		N	0.069	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	PFOA	335-67-1	0.02000			Y	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	PFOA	335-67-1	0.01700			Y	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02700	U		N	0.027	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02600	U		N	0.026	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorododecanoic Acid	307-55-1	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorododecanoic Acid	307-55-1	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexanoic Acid	307-24-4	0.08100			Y	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexanoic Acid	307-24-4	0.07900			Y	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorononanoic Acid	375-95-1	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorononanoic Acid	375-95-1	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorotetradecanoic Acid	376-06-7	0.00910	U		N	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorotetradecanoic Acid	376-06-7	0.00870	U		N	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.05400	U		N	0.054	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.05200	U		N	0.052	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.01700	U		N	0.017	2028125

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptanoic Acid	375-85-9	0.22000			Y	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptanoic Acid	375-85-9	0.22000			Y	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorobutanoic Acid	375-22-4	0.38000			Y	0.054	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorobutanoic Acid	375-22-4	0.38000			Y	0.052	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00910	U		N	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00870	U		N	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexane Sulfonic Acid	355-46-4	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexane Sulfonic Acid	355-46-4	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorodecanoic Acid	335-76-2	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorodecanoic Acid	335-76-2	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorodecane Sulfonic Acid	335-77-3	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorodecane Sulfonic Acid	335-77-3	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	62.00000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	62.00000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	64.00000	H		Y	0.16	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.08200	U		N	0.082	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.07900	U		N	0.079	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.07500	U,H		N	0.075	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.10000	U		N	0.10	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.10000	U		N	0.10	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.08900	H		Y	0.067	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	4.50000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	4.40000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	4.60000	H		Y	0.16	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	21.00000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	22.00000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	20.00000	H		Y	0.12	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorotridecanoic Acid	72629-94-8	0.00910	U		N	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorotridecanoic Acid	72629-94-8	0.00870	U		N	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	F-53B Major	73606-19-6	0.00910	U		N	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	F-53B Major	73606-19-6	0.00870	U		N	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.59000		J	Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.50000		J	Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.59000	H		Y	0.061	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorooctane Sulfonamide	754-91-6	0.02700	U		N	0.027	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorooctane Sulfonamide	754-91-6	0.02600	U		N	0.026	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	200.00000			Y	0.50	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	200.00000			Y	0.50	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	196.00000	H		Y	0.42	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00910	U		N	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00870	U		N	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.04900	U,H		N	0.049	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorononanesulfonic acid	68259-12-1	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorononanesulfonic acid	68259-12-1	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.30000	H		Y	0.056	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02700	U		N	0.027	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02600	U		N	0.026	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.05000	U		N	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.05000	U		N	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.05300	U,H		N	0.053	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.02700	U		N	0.027	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.02600	U		N	0.026	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.22000	U,H		N	0.22	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroundecanoic Acid	2058-94-8	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoroundecanoic Acid	2058-94-8	0.01700	U		N	0.017	2028125

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02700	U		N	0.027	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02600	U		N	0.026	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	PFOS	1763-23-1	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	PFOS	1763-23-1	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	4.70000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	4.70000			Y	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	5.10000	H		Y	0.093	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoropentanoic Acid	2706-90-3	1.70000			Y	0.054	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoropentanoic Acid	2706-90-3	1.70000			Y	0.052	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	1.60000	H		Y	0.32	320-51045-1
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	3.00000	H		Y	0.12	320-51045-1
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.90000	H		Y	0.14	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.050	2028125
8	FAY-SW-SEEP-C-1-020519	TAL-SAC	SEEP-C-1	2/5/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.08200	U,H		N	0.082	320-51045-1
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	ADONA	958445-44-8	0.00910	U		N	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	ADONA	958445-44-8	0.00870	U		N	0.0087	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	F-53B Minor	83329-89-9	0.01800	U		N	0.018	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	F-53B Minor	83329-89-9	0.01700	U		N	0.017	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00910	U		N	0.0091	2028125
8	FAY-SW-SEEP-C-1-020519	LANC	SEEP-C-1	2/5/2019	EPA 537 Rev. 1.1 modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00870	U		N	0.0087	2028125
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.09000	U		N	0.090	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	14.00000			Y	0.85	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	36.00000	E		Y	0.015	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.09000	U		N	0.090	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	2.00000			Y	0.080	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.06900	U		N	0.069	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	66.00000			Y	0.12	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00220			Y	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.39000			Y	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.24000			Y	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	PFOA	335-67-1	0.01800			Y	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.05200	U		N	0.052	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	19.00000			Y	0.087	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	4.90000			Y	0.12	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.09700			Y	0.050	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.05600	U		N	0.056	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.50000			Y	0.042	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124325-1

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.03600	U		N	0.036	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	193.00000			Y	0.32	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.72000			Y	0.045	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	1.80000			Y	0.0048	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	5.00000			Y	0.070	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	PFOS	1763-23-1	0.00220			Y	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.16000	U		N	0.16	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.04000	U		N	0.040	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.06100	U		N	0.061	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.20000	F1		Y	0.11	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	1.90000	F1		Y	0.087	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	1.30000			Y	0.24	280-124325-1
8	FAY-SW-SEEP-C-1-052319	TAL-SAC	SEEP-C-1	5/23/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.05200			Y	0.023	280-124325-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.09200	U,H		N	0.092	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	2.10000	H		Y	0.11	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.12000	U,H		N	0.12	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	42.00000	E		Y	0.016	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	13.00000	H		Y	1.1	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.12000	U,H		N	0.12	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.04000	H		Y	0.031	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.06900	U,H,*		N	0.069	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	PFOA	335-67-1	0.01600			Y	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.23000			Y	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.40000			Y	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00230			Y	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.07500	U,H,*		N	0.075	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.06700	U,H,F1,*		N	0.067	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	3.60000	H		Y	0.16	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	17.00000	H		Y	0.12	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	56.00000	H		Y	0.16	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.04900	U,H		N	0.049	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.66000	H,F1		Y	0.061	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	199.00000	H		Y	0.42	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.05300	U,H		N	0.053	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.22000	U,H		N	0.22	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	4.00000	H		Y	0.093	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	1.70000			Y	0.0051	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	1.50000	H		Y	0.32	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	3.10000	H		Y	0.12	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.90000	H		Y	0.14	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	2.10000	H		Y	0.056	280-124971-1
8	FAY-SW-SEEP C-1-060719	TAL-SAC	SEEP-C-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.08200	U,H		N	0.082	280-124971-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.81000	H		Y	0.054	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.80000	H		Y	0.054	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	19.00000	E		Y	0.0071	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	15.00000	E		Y	0.0070	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	9.00000	H		Y	0.57	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	9.20000	H		Y	0.57	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.035	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.035	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	PFOA	335-67-1	0.01200			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	PFOA	335-67-1	0.01100			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	I		Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	I		Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.21000			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.21000			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.09700			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.09300			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124599-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00270			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00260			Y	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	29.00000	H		Y	0.081	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	29.00000	H		Y	0.081	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.037	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.037	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.15000	H		Y	0.034	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.15000	H		Y	0.034	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	2.50000	H		Y	0.079	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	2.30000	H		Y	0.079	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	7.90000	H		Y	0.058	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	8.10000	H		Y	0.058	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.32000	H		Y	0.030	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.34000	H		Y	0.030	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	91.00000	H		Y	0.21	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	91.00000	H		Y	0.21	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U,H		N	0.024	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U,H		N	0.024	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	1.30000	H		Y	0.028	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	1.30000	H		Y	0.028	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U,H		N	0.027	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U,H		N	0.027	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	2.90000	H		Y	0.047	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	3.00000	H		Y	0.047	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.73000			Y	0.0023	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.76000			Y	0.0023	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U,H		N	0.015	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	H		Y	0.015	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	2.60000	H		Y	0.058	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	2.50000	H		Y	0.058	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.10000	H		Y	0.070	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.10000	H		Y	0.070	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	1.00000	H		Y	0.16	280-124599-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.97000	H		Y	0.16	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	280-124599-1
9	FAY-SW-SEEP-D-1-053019	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP-D-1-053019-D	TAL-SAC	SEEP-D-1	5/30/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124599-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	7.20000	H		Y	0.57	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	16.00000	E		Y	0.014	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.90000	H		Y	0.054	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01700	H		Y	0.015	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00280			Y	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.10000			Y	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.21000			Y	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00210			Y	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	PFOA	335-67-1	0.01400			Y	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H,*		N	0.035	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	7.40000	H		Y	0.058	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	24.00000	H		Y	0.081	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.80000	H		Y	0.079	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.12000	H,*	J	Y	0.034	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H,*		N	0.037	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	90.00000	H		Y	0.21	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U,H		N	0.024	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.39000	H		Y	0.030	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.79000			Y	0.0046	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	2.40000	H		Y	0.047	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U,H		N	0.027	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	1.20000	H		Y	0.028	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	1.00000	H		Y	0.070	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	2.20000	H		Y	0.058	280-124971-1
9	FAY-SW-SEEP D-1-060719	TAL-SAC	SEEP-D-1	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.84000	H		Y	0.16	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	5.90000			Y	0.18	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	5.80000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	6.00000	H		Y	0.57	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.80000	H		Y	0.054	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U,H		N	0.015	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H		N	0.035	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.82000			Y	0.10	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.95000	H	J	Y	0.034	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.80000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.60000	H		Y	0.079	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	22.00000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	18.00000	H		Y	0.081	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	6.40000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	5.20000	H		Y	0.058	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H		N	0.037	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.20000	H		Y	0.028	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.33000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.34000	H		Y	0.030	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U,H		N	0.024	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	83.00000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	92.00000	H		Y	0.21	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	1.90000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	2.00000	H		Y	0.047	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.18000			Y	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.14000	H		Y	0.027	320-51031-1
10	FAY-SW-OLDOF-2-020119	LANC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.050	2027689
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.19000	H		Y	0.070	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.42000	H		Y	0.16	320-51031-1
10	FAY-SW-OLDOF-2-020119	TAL-SAC	OLDOF-2	2/1/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	1.30000	H		Y	0.058	320-51031-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.060	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.83000			Y	0.054	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.046	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	5.60000			Y	0.57	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.060	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U		N	0.015	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U		N	0.035	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	PFOA	335-67-1	0.03200			Y	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.08600			Y	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.02500			Y	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124472-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00750			Y	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U		N	0.037	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	4.80000			Y	0.058	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	18.00000			Y	0.081	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.60000			Y	0.079	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.62000			Y	0.034	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	71.00000			Y	0.21	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U		N	0.024	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.31000			Y	0.030	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.20000			Y	0.028	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U		N	0.027	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	PFOS	1763-23-1	0.00200			Y	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	1.90000			Y	0.047	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.15000			Y	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.79000			Y	0.058	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.41000			Y	0.16	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.17000	F1	J	Y	0.070	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124472-1
10	FAY-SW-OLDOF-2-052419	TAL-SAC	OLDOF-2	5/24/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124472-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U,H		N	0.060	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	6.20000	E		Y	0.0040	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	5.40000	H		Y	0.57	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U,H		N	0.046	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.90000	H		Y	0.054	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U,H		N	0.060	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	H		Y	0.015	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00710			Y	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.02600			Y	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.09000			Y	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	PFOA	335-67-1	0.03400			Y	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U,H,*		N	0.035	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	18.00000	H		Y	0.081	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.57000	H,*	J	Y	0.034	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	1.40000	H		Y	0.079	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	4.70000	H		Y	0.058	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U,H,*		N	0.037	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.20000	H		Y	0.028	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.35000	H		Y	0.030	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	H		Y	0.024	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	91.00000	H		Y	0.21	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.16000			Y	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	1.80000	H		Y	0.047	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	PFOS	1763-23-1	0.00200			Y	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U,H		N	0.11	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.30000	H,F1		Y	0.027	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U,H		N	0.041	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.20000	H		Y	0.070	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.39000	H,F1		Y	0.16	280-124971-1
10	FAY-SW-OLDOF-2-060719	TAL-SAC	OLDOF-2	6/7/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	1.10000	H		Y	0.058	280-124971-1
11	Residential Well		Residential Well	12/14/2017		Hfpo Dimer Acid	13252-13-6	0.02100			Y		
11	Residential Well		Residential Well	12/12/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/13/2017		Hfpo Dimer Acid	13252-13-6	0.03800			Y		
11	Residential Well		Residential Well	1/24/2018		Hfpo Dimer Acid	13252-13-6	0.05000			Y		
11	Residential Well		Residential Well	1/24/2018		Hfpo Dimer Acid	13252-13-6	0.01500			Y		
11	Residential Well		Residential Well	1/24/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	4/25/2018		Hfpo Dimer Acid	13252-13-6	0.00179			Y		
11	Residential Well		Residential Well	4/25/2018		Hfpo Dimer Acid	13252-13-6	0.00179			Y		
11	Residential Well		Residential Well	4/25/2018		Hfpo Dimer Acid	13252-13-6	0.00179			Y		
11	Residential Well		Residential Well	1/9/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	4/11/2018		Hfpo Dimer Acid	13252-13-6	0.03690			Y		
11	Residential Well		Residential Well	12/11/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	1/15/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	11/30/2017		Hfpo Dimer Acid	13252-13-6	0.01300			Y		
11	Residential Well		Residential Well	11/30/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	4/11/2018		Hfpo Dimer Acid	13252-13-6	0.00186			Y		
11	Residential Well		Residential Well	4/11/2018		Hfpo Dimer Acid	13252-13-6	0.00182			Y		
11	Residential Well		Residential Well	3/18/2019		Hfpo Dimer Acid	13252-13-6	0.94000			Y		
11	Residential Well		Residential Well	8/6/2018		Hfpo Dimer Acid	13252-13-6	0.78000			Y		
11	Residential Well		Residential Well	10/18/2017		Hfpo Dimer Acid	13252-13-6	0.04900			Y		
11	Residential Well		Residential Well	12/15/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	1/31/2018		Hfpo Dimer Acid	13252-13-6	0.52700			Y		
11	Residential Well		Residential Well	11/30/2017		Hfpo Dimer Acid	13252-13-6	0.02000			Y		
11	Residential Well		Residential Well	11/29/2017		Hfpo Dimer Acid	13252-13-6	0.00400			N		
11	Residential Well		Residential Well	8/14/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/12/2017		Hfpo Dimer Acid	13252-13-6	0.07600			Y		
11	Residential Well		Residential Well	12/14/2017		Hfpo Dimer Acid	13252-13-6	0.07800			Y		
11	Residential Well		Residential Well	1/5/2018		Hfpo Dimer Acid	13252-13-6	0.01200			Y		
11	Residential Well		Residential Well	1/5/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/7/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/6/2017		Hfpo Dimer Acid	13252-13-6	0.08500			Y		
11	Residential Well		Residential Well	4/30/2019		Hfpo Dimer Acid	13252-13-6	0.24000			Y		

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
11	Residential Well		Residential Well	5/9/2018		Hfpo Dimer Acid	13252-13-6	0.03600			Y		
11	Residential Well		Residential Well	1/4/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	9/22/2017		Hfpo Dimer Acid	13252-13-6	0.25000			Y		
11	Residential Well		Residential Well	12/5/2017		Hfpo Dimer Acid	13252-13-6	0.02400			Y		
11	Residential Well		Residential Well	12/6/2017		Hfpo Dimer Acid	13252-13-6	0.06300			Y		
11	Residential Well		Residential Well	12/5/2017		Hfpo Dimer Acid	13252-13-6	0.09400			Y		
11	Residential Well		Residential Well	12/5/2017		Hfpo Dimer Acid	13252-13-6	0.15000			Y		
11	Residential Well		Residential Well	2/1/2018		Hfpo Dimer Acid	13252-13-6	0.01800			Y		
11	Residential Well		Residential Well	2/8/2018		Hfpo Dimer Acid	13252-13-6	0.01400			Y		
11	Residential Well		Residential Well	12/14/2017		Hfpo Dimer Acid	13252-13-6	0.07800			Y		
11	Residential Well		Residential Well	3/1/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	2/7/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/15/2017		Hfpo Dimer Acid	13252-13-6	0.02300			Y		
11	Residential Well		Residential Well	2/8/2018		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	11/13/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/6/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/7/2017		Hfpo Dimer Acid	13252-13-6	0.42000			Y		
11	Residential Well		Residential Well	12/7/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	12/7/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	7/27/2018		Hfpo Dimer Acid	13252-13-6	0.12000			Y		
11	Residential Well		Residential Well	7/27/2018		Hfpo Dimer Acid	13252-13-6	0.02200			Y		
11	Residential Well		Residential Well	10/20/2017		Hfpo Dimer Acid	13252-13-6	0.36000			Y		
11	Residential Well		Residential Well	10/16/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	4/9/2019		Hfpo Dimer Acid	13252-13-6	0.40000			Y		
11	Residential Well		Residential Well	10/20/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	10/23/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	10/23/2017		Hfpo Dimer Acid	13252-13-6	0.09500			Y		
11	Residential Well		Residential Well	10/23/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	10/23/2017		Hfpo Dimer Acid	13252-13-6	0.01000			N		
11	Residential Well		Residential Well	11/6/2017		Hfpo Dimer Acid	13252-13-6	0.34000			Y		
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.06000	U		N	0.060	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	1.30000			Y	0.57	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.04600	U		N	0.046	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.05400	U		N	0.054	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.06000	U		N	0.060	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.42000			Y	0.081	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.00240			Y	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.01100			Y	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.03500	U		N	0.035	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	PFOA	335-67-1	0.00380			Y	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.03400	U		N	0.034	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.05800	U		N	0.058	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.07900	U		N	0.079	280-124472-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.03700	U		N	0.037	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.02800	U		N	0.028	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.03300			Y	0.030	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.02400	U		N	0.024	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.21000	U		N	0.21	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.30000			Y	0.047	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.02700	U		N	0.027	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.01000			Y	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.11000	U		N	0.11	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	PFOS	1763-23-1	0.00240			Y	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.04100	U		N	0.041	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.16000	U		N	0.16	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.07000	U		N	0.070	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.05800	U		N	0.058	280-124472-1
12	FAY-SW-GBC-1-052919	TAL-SAC	GBC-1	05/29/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.01500	U		N	0.015	280-124472-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.00450			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.90000			Y	0.010	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.61000	E		Y	0.0040	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	PFOA	335-67-1	0.00370			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00200	U,*		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.01100			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.00230			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.40000			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00200	U,*		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.01700			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.06000			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.00200	*	J	Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.14000	F1	J	Y	0.0050	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.02900			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.00220			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	PFOS	1763-23-1	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.00990			Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.28000			Y	0.020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.00200	U,F1		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.02400	F1	J	Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.04900	F1	J	Y	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.00200	U		N	0.0020	280-124971-1
12	FAY-SW-GBC-1-060719	TAL-SAC	GBC-1	06/07/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.02800			Y	0.0040	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.03100	H		Y	0.010	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.00610	H		Y	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	PFOA	335-67-1	0.00680			Y	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00500			Y	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.00680			Y	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00330			Y	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.00820			Y	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.04000	H		Y	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.00350	H		Y	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.00990	H		Y	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.13000	H		Y	0.0050	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.01300			Y	0.0020	280-124268-1

APPENDIX A
SUMMARY OF ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.02000	U,H		N	0.020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	PFOS	1763-23-1	0.01300			Y	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124268-1
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.03100	H,F1	J	Y	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.00960	H,F1	J	Y	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.00400	H,F1	J	Y	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.00200	U,H		N	0.0020	280-124268-3
13	FAY-SW-CFR-BLADEN-052219	TAL-SAC	CFR-BLADEN	05/22/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124268-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	NVHOS	1132933-86-8	0.00870			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PES	113507-82-7	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.05500			Y	0.010	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFECA B	151772-58-6	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Hfpo Dimer Acid	13252-13-6	0.05700			Y	0.0040	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorooctadecanoic acid	16517-11-6	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 6	EVS1431	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.06400			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.02000	U		N	0.020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorotetradecanoic Acid	376-06-7	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorononanoic Acid	375-95-1	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluoroheptanoic Acid	375-85-9	0.01000			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00430			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorobutanoic Acid	375-22-4	0.00850			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00670			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorodecanoic Acid	335-76-2	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorododecanoic Acid	307-55-1	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.02000	U		N	0.020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	PFOA	335-67-1	0.00870			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.01600			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.00340			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.00640			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorooctane Sulfonamide	754-91-6	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.02000	U		N	0.020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.18000			Y	0.0050	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorononanesulfonic acid	68259-12-1	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	EVE Acid	69087-46-3	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorotridecanoic Acid	72629-94-8	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.00490			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.00240			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.02000	U		N	0.020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	PFOS	1763-23-1	0.01500			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluoroundecanoic Acid	2058-94-8	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.02000	U		N	0.020	280-124971-1

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.02000	U		N	0.020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluoropentanoic Acid	2706-90-3	0.02000			Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	537 Modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	Hydro-EVE Acid	773804-62-9	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.00200	U		N	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	R-EVE	EVS1428	0.00630	F1,^	J	Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 5	EVS1430	0.06900	F1,^	J	Y	0.0020	280-124971-1
13	FAY-SW-CFR-BLADEN-060719	TAL-SAC	CFR-BLADEN	06/07/2019	Cl. Spec. Table 3 Compound SOP	Byproduct 4	EVS1429	0.01900	F1	J	Y	0.0020	280-124971-1
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	10:2 Fluorotelomer sulfonate	120226-60-0	0.00270	U		N	0.0027	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PMPA	13140-29-9	0.05000	U		N	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Hfpo Dimer Acid	13252-13-6	0.01300			Y	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	1691-99-2	0.00270	U		N	0.0027	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorooctadecanoic acid	16517-11-6	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorotetradecanoic Acid	376-06-7	0.00089	U		N	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	39108-34-4	0.00530	U		N	0.0053	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorononanoic Acid	375-95-1	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluoroheptanoic Acid	375-85-9	0.00350			Y	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorobutane Sulfonic Acid	375-73-5	0.00220		J	Y	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorobutanoic Acid	375-22-4	0.00530	U		N	0.0053	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorohexane Sulfonic Acid	355-46-4	0.00330			Y	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorodecane Sulfonic Acid	335-77-3	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluoro-1-octanesulfonamide	31506-32-8	0.00800	U	UJ	N	0.008	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorododecanoic Acid	307-55-1	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorohexanoic Acid	307-24-4	0.00560			Y	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	N-ethyl perfluorooctane sulfonamidoacetic acid	2991-50-6	0.00270	U		N	0.0027	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	PFOA	335-67-1	0.00570			Y	0.00089	2027918

Pathway	Field Sample ID	Lab ID	Location ID	Sample Date	Laboratory Analytical Method	Parameter Name	Parameter Code	Report Result (µg/L)	Lab Qualifier	Validation Qualifier	Detected	Report Detection Limit (µg/L)	Sample Delivery Group (SDG)
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorodecanoic Acid	335-76-2	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFO2HxA	39492-88-1	0.05000	U		N	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	N-ethylperfluoro-1-octanesulfonamide	4151-50-2	0.00800	U	UJ	N	0.008	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFO4DA	39492-90-5	0.05000	U		N	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFO3OA	39492-89-2	0.05000	U		N	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFO5DA	39492-91-6	0.10000	U		N	0.10	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	757124-72-4	0.00270	U		N	0.0027	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFMOAA	674-13-5	0.05600			Y	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorononanesulfonic acid	68259-12-1	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.00089	U		N	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP2	749836-20-2	0.05000	U		N	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	F-53B Major	73606-19-6	0.00089	U		N	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorotridecanoic Acid	72629-94-8	0.00089	U		N	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorooctane Sulfonamide	754-91-6	0.00270	U		N	0.0027	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	N-methyl perfluorooctane sulfonamidoacetic acid	2355-31-9	0.00270	U		N	0.0027	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	24448-09-7	0.00270	U		N	0.0027	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluoroundecanoic Acid	2058-94-8	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	PFOS	1763-23-1	0.00840			Y	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PEPA	267239-61-2	0.05000			Y	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFESA-BP1	29311-67-9	0.05000	U		N	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	6:2 Fluorotelomer sulfonate	27619-97-2	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluoropentanoic Acid	2706-90-3	0.00580			Y	0.0053	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00180	U		N	0.0018	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	Cl. Spec. Table 3 Compound SOP	PFECA-G	801212-59-9	0.05000	U		N	0.050	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.00089	U		N	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	ADONA	958445-44-8	0.00089	U		N	0.00089	2027918
13	FAY-SW-CFR-RM-84-020219	LANC	CFR-MILE-84	02/04/2019	EPA 537 Rev. 1.1 modified	F-53B Minor	83329-89-9	0.00180	U		N	0.0018	2027918

Notes:

1. Pathway numbers correspond to Table 1 of the *Chemours Fayetteville Works Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes* (Geosyntec, 2019).
2. Sampling locations, analytical methods, assessment techniques, and laboratory reports for PFAS concentrations are described in detail in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019).
3. Onsite laboratory data available only for Outfall 002.
4. Abbreviations

LANC - Eurofins Lancaster
TAL-SAC - TestAmerica Sacramento
J - Analyte detected. Reported value may not be accurate or precise
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
U – Analyte not detected. Reporting limit may not be accurate or precise.
µg/L - micrograms per liter
-- - No data reported
N - Analyte not detected above associated reporting limit.
Y - Analyte detected above associated reporting limit.
FS - Field Sample
DUP - Duplicate sample
* - Laboratory control spike or laboratory control spike duplicate is outside acceptance limits.
^ - Instrument related quality control is outside acceptance limits.
E - Result exceeded calibration range.
F1 - Matrix spike and/or matrix spike duplicate recovery is outside acceptance limits.
H - Sample was prepped or analyzed beyond the specified holding time.
I - Value is estimated maximum possible concentration.

APPENDIX B

SUPPLEMENTAL FLOW GAUGING DATA

APPENDIX B-1
SUMMARY OF FLOW CALCULATIONS
Chemours Fayetteville Works, North Carolina

Pathway	Sampling Event	Start Date	End Date	Minimum Flow (L/s)	1st Quartile Flow (L/s)	Median Flow (L/s)	3rd Quartile Flow (L/s)	Maximum Flow (L/s)	Average Flow (L/s)	Geomean Flow (L/s)	Comments
1	Surface Water 02/19	2/1/2019	2/7/2019	123,986	138,290	164,036	182,549	267,449	171,093	165,871	
2	Surface Water 02/19	2/1/2019	2/7/2019	184	NA	NA	NA	309	NA	NA	
3	Surface Water 02/19	2/1/2019	2/7/2019	NA	NA	NA	NA	NA	NA	NA	
4	Surface Water 02/19	2/1/2019	2/7/2019	773	813	836	871	1,099	868	863	
5	Surface Water 02/19	2/1/2019	2/7/2019	10	19	20	24	15	22	21	
6	Surface Water 02/19	2/1/2019	2/7/2019	1.7	NA	NA	NA	4.3	NA	NA	
7	Surface Water 02/19	2/1/2019	2/7/2019	2.2	NA	NA	NA	5.5	NA	NA	
8	Surface Water 02/19	2/1/2019	2/7/2019	0.5	NA	NA	NA	1.3	NA	NA	
9	Surface Water 06/19	6/4/2019	6/7/2019	1.2	NA	NA	NA	3.1	NA	NA	Flows at Seep D were not measured in February 2019; Measurements from June 2019 were used.
10	Surface Water 02/19	2/1/2019	2/7/2019	25	NA	NA	NA	55	NA	NA	
11	Surface Water 02/19	2/1/2019	2/7/2019	195	NA	NA	NA	313	NA	NA	
12	Surface Water 05/19	5/20/2019	5/30/2019	154	NA	NA	NA	258	NA	NA	Flows at GBC were not measured in February 2019; Measurements from May 2019 were used.
1	Surface Water 05/19	5/20/2019	5/30/2019	30,821	33,756	38,547	44,609	55,558	40,173	39,466	
2	Surface Water 05/19	5/20/2019	5/30/2019	183	NA	NA	NA	184	NA	NA	
3	Surface Water 05/19	5/20/2019	5/30/2019	NA	NA	NA	NA	NA	NA	NA	
4	Surface Water 05/19	5/20/2019	5/30/2019	971	1,052	1,082	1,106	1,200	1,082	1,081	
5	Surface Water 05/19	5/20/2019	5/30/2019	10	19	20	24	16	22	21	
6A	Surface Water 05/19	5/20/2019	5/30/2019	1.9	NA	NA	NA	3.8	NA	NA	
6B	Surface Water 02/19	2/1/2019	2/7/2019	2.2	NA	NA	NA	5.5	NA	NA	Flows at Seep B were not measured in May 2019; Measurements from Feb 2019 were used.
6C	Surface Water 05/19	5/20/2019	5/30/2019	0.4	NA	NA	NA	1.2	NA	NA	
6D	Surface Water 06/19	6/4/2019	6/7/2019	1.2	NA	NA	NA	3.1	NA	NA	Flows at Seep D were not measured in May 2019; Measurements from June 2019 were used.
7	Surface Water 05/19	5/20/2019	5/30/2019	22	NA	NA	NA	44	NA	NA	
8	Surface Water 05/19	5/20/2019	5/30/2019	195	NA	NA	NA	313	NA	NA	
9	Surface Water 05/19	5/20/2019	5/30/2019	154	NA	NA	NA	258	NA	NA	
1	Surface Water 06/19	6/4/2019	6/7/2019	26,703	27,044	29,670	32,450	32,885	29,824	29,687	
2	Surface Water 06/19	6/4/2019	6/7/2019	183	NA	NA	NA	184	NA	NA	
3	Surface Water 06/19	6/4/2019	6/7/2019	NA	NA	NA	NA	NA	NA	NA	
4	Surface Water 06/19	6/4/2019	6/7/2019	1,139	1,151	1,173	1,197	1,214	1,175	1,174	
5	Surface Water 06/19	6/4/2019	6/7/2019	6.3	19	20	24	11	22	21	
6A	Surface Water 06/19	6/4/2019	6/7/2019	6.9	NA	NA	NA	12	NA	NA	
6B	Surface Water 06/19	6/4/2019	6/7/2019	1.3	NA	NA	NA	3.2	NA	NA	
6C	Surface Water 06/19	6/4/2019	6/7/2019	0.3	NA	NA	NA	0.8	NA	NA	
6D	Surface Water 06/19	6/4/2019	6/7/2019	1.2	NA	NA	NA	3.1	NA	NA	
7	Surface Water 06/19	6/4/2019	6/7/2019	28	NA	NA	NA	32	NA	NA	
8	Surface Water 06/19	6/4/2019	6/7/2019	195	NA	NA	NA	313	NA	NA	
9	Surface Water 06/19	6/4/2019	6/7/2019	161	NA	NA	NA	271	NA	NA	

Notes:
1) L/s: Liter per second.

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
1/1/2017	2,500	2.4	0.02	70,792	251	19	2	8,911	0.3	0.2	287.5	12.0
1/2/2017	2,780	2.6	0.61	78,721	251	19	2	9,792	0.3	0.2	284.1	11.8
1/3/2017	5,380	3.7	0.52	152,345	251	20	2	16,796	0.3	0.2	251.8	10.5
1/4/2017	8,630	4.9	0	244,374	251	21	2	24,128	0.4	0.2	225.5	9.4
1/5/2017	8,800	4.9	0	249,188	251	21	2	24,446	0.4	0.2	224.1	9.3
1/6/2017	7,100	4.4	0.35	201,050	251	21	2	20,843	0.3	0.2	236.8	9.9
1/7/2017	7,990	4.7	0.57	226,252	251	21	2	22,734	0.4	0.2	229.5	9.6
1/8/2017	9,260	5.1	0.01	262,214	251	22	2	25,402	0.4	0.2	221.3	9.2
1/9/2017	8,760	4.9	0.04	248,056	251	21	2	24,383	0.4	0.2	224.5	9.4
1/10/2017	7,560	4.5	0.05	214,075	251	21	2	21,850	0.3	0.2	233.1	9.7
1/11/2017	6,720	4.2	0	190,289	251	21	2	19,965	0.3	0.2	239.7	10.0
1/12/2017	6,210	4.1	0	175,848	251	20	2	18,904	0.3	0.2	245.6	10.2
1/13/2017	6,020	4.0	0	170,467	251	20	2	18,468	0.3	0.2	247.5	10.3
1/14/2017	6,040	4.0	0	171,034	251	20	2	18,530	0.3	0.2	247.5	10.3
1/15/2017	5,230	3.7	0	148,097	251	20	2	16,611	0.3	0.2	256.2	10.7
1/16/2017	4,230	3.3	0	119,780	251	20	2	14,103	0.3	0.2	268.9	11.2
1/17/2017	3,810	3.1	0	107,887	251	20	2	12,953	0.3	0.2	274.2	11.4
1/18/2017	3,510	2.9	0	99,392	251	19	2	12,111	0.3	0.2	278.3	11.6
1/19/2017	2,950	2.7	0	83,535	251	19	2	10,383	0.3	0.2	283.9	11.8
1/20/2017	2,680	2.5	0	75,889	251	19	2	9,557	0.3	0.2	287.6	12.0
1/21/2017	2,630	2.5	0.03	74,473	251	19	2	9,322	0.3	0.2	285.9	11.9
1/22/2017	2,670	2.5	0.31	75,606	251	19	2	9,498	0.3	0.2	286.9	12.0
1/23/2017	3,140	2.8	0.04	88,915	251	19	2	10,976	0.3	0.2	282.0	11.7
1/24/2017	5,060	3.6	0	143,283	251	20	2	15,996	0.3	0.2	255.0	10.6
1/25/2017	9,720	5.2	0	275,240	251	22	2	26,360	0.4	0.3	218.8	9.1
1/26/2017	9,340	5.1	0.01	264,479	251	22	2	25,593	0.4	0.2	221.0	9.2
1/27/2017	8,280	4.8	0	234,463	251	21	2	23,367	0.4	0.2	227.6	9.5
1/28/2017	7,470	4.5	0	211,527	251	21	2	21,661	0.3	0.2	233.9	9.7
1/29/2017	7,090	4.4	0	200,766	251	21	2	20,843	0.3	0.2	237.1	9.9
1/30/2017	6,800	4.3	0	192,555	251	21	2	20,153	0.3	0.2	239.1	10.0
1/31/2017	5,970	4.0	0	169,052	251	20	2	18,344	0.3	0.2	247.9	10.3
2/1/2017	4,590	3.4	0	129,974	251	20	2	14,955	0.3	0.2	262.8	11.0
2/2/2017	2,960	2.7	0	83,818	251	19	2	10,442	0.3	0.2	284.6	11.9
2/3/2017	2,660	2.5	0.03	75,323	251	19	2	9,498	0.3	0.2	288.0	12.0
2/4/2017	2,530	2.4	0	71,642	251	19	2	9,028	0.3	0.2	287.9	12.0
2/5/2017	2,410	2.4	0	68,244	251	19	2	8,619	0.3	0.2	288.5	12.0
2/6/2017	2,390	2.3	0	67,677	251	19	2	8,561	0.3	0.2	288.9	12.0
2/7/2017	2,290	2.3	0	64,846	251	19	2	8,153	0.3	0.2	287.2	12.0
2/8/2017	2,030	2.1	0.14	57,483	251	19	2	7,170	0.3	0.2	284.9	11.9
2/9/2017	2,040	2.1	0.16	57,766	251	19	2	7,227	0.3	0.2	285.8	11.9

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
2/10/2017	2,170	2.2	0	61,448	251	19	2	7,747	0.3	0.2	288.0	12.0
2/11/2017	2,300	2.3	0	65,129	251	19	2	8,211	0.3	0.2	288.0	12.0
2/12/2017	2,390	2.3	0	67,677	251	19	2	8,561	0.3	0.2	288.9	12.0
2/13/2017	2,260	2.3	0	63,996	251	19	2	8,095	0.3	0.2	288.9	12.0
2/14/2017	2,120	2.2	0	60,032	251	19	2	7,574	0.3	0.2	288.2	12.0
2/15/2017	2,270	2.3	0.7	64,279	251	19	2	8,095	0.3	0.2	287.7	12.0
2/16/2017	3,000	2.7	0	84,951	251	19	2	10,561	0.3	0.2	284.0	11.8
2/17/2017	3,300	2.8	0	93,446	251	19	2	11,513	0.3	0.2	281.4	11.7
2/18/2017	3,240	2.8	0	91,747	251	19	2	11,333	0.3	0.2	282.2	11.8
2/19/2017	2,980	2.7	0	84,384	251	19	2	10,501	0.3	0.2	284.3	11.8
2/20/2017	2,720	2.5	0	77,022	251	19	2	9,674	0.3	0.2	286.9	12.0
2/21/2017	2,540	2.4	0	71,925	251	19	2	9,028	0.3	0.2	286.7	11.9
2/22/2017	2,310	2.3	0	65,412	251	19	2	8,270	0.3	0.2	288.8	12.0
2/23/2017	1,910	2.0	0	54,085	251	18	2	6,710	0.3	0.2	283.4	11.8
2/24/2017	1,800	2.0	0	50,970	251	18	2	6,310	0.3	0.2	282.8	11.8
2/25/2017	1,730	1.9	0	48,988	251	18	2	6,025	0.3	0.2	280.9	11.7
2/26/2017	1,730	1.9	0	48,988	251	18	2	6,025	0.3	0.2	280.9	11.7
2/27/2017	1,690	1.9	0	47,855	251	18	2	5,854	0.3	0.2	279.4	11.6
2/28/2017	1,650	1.8	0	46,723	251	18	2	5,684	0.3	0.2	277.9	11.6
3/1/2017	1,630	1.8	0.46	46,156	251	18	2	5,627	0.3	0.2	278.5	11.6
3/2/2017	1,900	2.0	0.09	53,802	251	18	2	6,710	0.3	0.2	284.9	11.9
3/3/2017	2,240	2.2	0	63,430	251	19	2	7,979	0.3	0.2	287.3	12.0
3/4/2017	2,640	2.5	0	74,756	251	19	2	9,380	0.3	0.2	286.6	11.9
3/5/2017	2,610	2.5	0	73,907	251	19	2	9,322	0.3	0.2	288.1	12.0
3/6/2017	2,180	2.2	0	61,731	251	19	2	7,747	0.3	0.2	286.7	11.9
3/7/2017	1,920	2.0	0	54,368	251	18	2	6,767	0.3	0.2	284.3	11.8
3/8/2017	2,360	2.3	0.01	66,828	251	19	2	8,386	0.3	0.2	286.6	11.9
3/9/2017	2,420	2.4	0	68,527	251	19	2	8,678	0.3	0.2	289.3	12.1
3/10/2017	2,390	2.3	0.06	67,677	251	19	2	8,561	0.3	0.2	288.9	12.0
3/11/2017	2,330	2.3	0	65,978	251	19	2	8,328	0.3	0.2	288.3	12.0
3/12/2017	1,930	2.0	0.19	54,652	251	18	2	6,825	0.3	0.2	285.3	11.9
3/13/2017	1,810	2.0	0.88	51,253	251	18	2	6,367	0.3	0.2	283.7	11.8
3/14/2017	2,320	2.3	0.34	65,695	251	19	2	8,270	0.3	0.2	287.5	12.0
3/15/2017	2,790	2.6	0	79,004	251	19	2	9,910	0.3	0.2	286.5	11.9
3/16/2017	2,860	2.6	0	80,986	251	19	2	10,146	0.3	0.2	286.2	11.9
3/17/2017	2,760	2.6	0	78,154	251	19	2	9,792	0.3	0.2	286.2	11.9
3/18/2017	2,510	2.4	0.24	71,075	251	19	2	8,970	0.3	0.2	288.3	12.0
3/19/2017	2,400	2.3	0	67,960	251	19	2	8,561	0.3	0.2	287.7	12.0
3/20/2017	2,240	2.3	0	63,430	251	19	2	8,037	0.3	0.2	289.4	12.1
3/21/2017	2,280	2.3	0.01	64,562	251	19	2	8,153	0.3	0.2	288.5	12.0

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
3/22/2017	2,610		0.37	73,907	251	16	2	-5,339	-0.5	-0.3	-165.0	-6.9
3/23/2017	2,730	2.5	0	77,305	251	19	2	9,674	0.3	0.2	285.9	11.9
3/24/2017	2,590	2.5	0	73,341	251	19	2	9,204	0.3	0.2	286.7	11.9
3/25/2017	2,060	2.1	0	58,333	251	19	2	7,343	0.3	0.2	287.5	12.0
3/26/2017	1,820	2.0	0	51,537	251	18	2	6,367	0.3	0.2	282.2	11.8
3/27/2017	1,640	1.8	0	46,440	251	18	2	5,627	0.3	0.2	276.8	11.5
3/28/2017	1,580	1.8	0.14	44,741	251	18	2	5,344	0.3	0.2	272.8	11.4
3/29/2017	1,580	1.8	0	44,741	251	18	2	5,400	0.3	0.2	275.7	11.5
3/30/2017	1,540	1.8	0	43,608	251	18	2	5,231	0.3	0.2	274.0	11.4
3/31/2017	1,790	1.9	1.24	50,687	251	18	2	6,253	0.3	0.2	281.8	11.7
4/1/2017	2,820	2.6	0	79,854	251	19	2	9,969	0.3	0.2	285.2	11.9
4/2/2017	3,000	2.7	0	84,951	251	19	2	10,561	0.3	0.2	284.0	11.8
4/3/2017	2,640	2.5	0.57	74,756	251	19	2	9,380	0.3	0.2	286.6	11.9
4/4/2017	3,040	2.7	0	86,083	251	19	2	10,679	0.3	0.2	283.4	11.8
4/5/2017	4,200	3.3	0.84	118,931	251	20	2	13,981	0.3	0.2	268.5	11.2
4/6/2017	5,620	3.8	0.01	159,141	251	20	2	17,538	0.3	0.2	251.7	10.5
4/7/2017	6,570	4.2	0	186,042	251	21	2	19,653	0.3	0.2	241.3	10.1
4/8/2017	7,730	4.6	0	218,889	251	21	2	22,228	0.3	0.2	232.0	9.7
4/9/2017	6,980	4.3	0	197,652	251	21	2	20,592	0.3	0.2	238.0	9.9
4/10/2017	4,940	3.6	0	139,885	251	20	2	15,812	0.3	0.2	258.2	10.8
4/11/2017	2,670	2.5	0	75,606	251	19	2	9,439	0.3	0.2	285.2	11.9
4/12/2017	2,070	2.1	0	58,616	251	19	2	7,343	0.3	0.2	286.1	11.9
4/13/2017	1,850	2.0	0	52,386	251	18	2	6,481	0.3	0.2	282.6	11.8
4/14/2017	1,740	1.9	0	49,271	251	18	2	6,082	0.3	0.2	281.9	11.7
4/15/2017	1,670	1.9	0	47,289	251	18	2	5,797	0.3	0.2	280.0	11.7
4/16/2017	1,580	1.8	0	44,741	251	18	2	5,400	0.3	0.2	275.7	11.5
4/17/2017	1,510	1.7	0.04	42,758	251	18	2	5,062	0.3	0.2	270.4	11.3
4/18/2017	1,480	1.7	0.02	41,909	251	18	2	4,949	0.3	0.2	269.8	11.2
4/19/2017	1,360	1.6	0	38,511	251	18	2	4,388	0.3	0.2	260.3	10.8
4/20/2017	1,290	1.6	0	36,529	251	18	2	4,053	0.3	0.2	253.5	10.6
4/21/2017	1,260	1.5	0	35,679	251	18	2	3,942	0.3	0.2	252.4	10.5
4/22/2017	1,260	1.5	0.18	35,679	251	18	2	3,942	0.3	0.2	252.4	10.5
4/23/2017	1,300	1.6	0.13	36,812	251	18	2	4,109	0.3	0.2	255.0	10.6
4/24/2017	2,160	2.1	3.07	61,164	251	19	2	7,343	0.3	0.2	274.2	11.4
4/25/2017	12,700		0.12	359,624	251	16	2	-5,339	-2.4	-1.6	-33.9	-1.4
4/26/2017	24,500	14.9	0	693,763	251	31	2	88,288	0.3	0.2	290.7	12.1
4/27/2017	23,200	15.7	0	656,951	251	32	2	92,911	0.2	0.2	323.1	13.5
4/28/2017	22,000	15.2	0	622,971	251	32	2	90,038	0.2	0.2	330.1	13.8
4/29/2017	19,800	13.7	0	560,674	251	30	2	80,690	0.2	0.2	328.7	13.7
4/30/2017	17,600	11.7	0	498,377	251	28	2	68,031	0.3	0.2	311.8	13.0

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
5/1/2017	16,000	10.0	0.39	453,070	251	26	2	57,525	0.3	0.2	290.0	12.1
5/2/2017	15,000	9.1	0	424,753	251	25	2	51,207	0.3	0.2	275.4	11.5
5/3/2017	14,300	8.4	0	404,931	251	25	2	46,829	0.3	0.2	264.2	11.0
5/4/2017	13,800	7.9	0.02	390,772	251	24	2	43,493	0.3	0.2	254.2	10.6
5/5/2017	13,700	7.7	0.83	387,941	251	24	2	42,512	0.3	0.2	250.3	10.4
5/6/2017	14,700	8.3	0	416,258	251	25	2	46,044	0.3	0.2	252.7	10.5
5/7/2017	14,400	8.3	0	407,763	251	25	2	45,978	0.3	0.2	257.6	10.7
5/8/2017	11,400	6.6	0	322,812	251	23	2	35,270	0.3	0.2	249.6	10.4
5/9/2017	7,790	4.7	0	220,588	251	21	2	22,860	0.3	0.2	236.7	9.9
5/10/2017	5,710	3.9	0	161,689	251	20	2	18,220	0.3	0.2	257.4	10.7
5/11/2017	3,560	3.1	0	100,808	251	19	2	12,772	0.3	0.2	289.4	12.1
5/12/2017	3,130	2.8	0	88,632	251	19	2	11,513	0.3	0.2	296.7	12.4
5/13/2017	2,770	2.7	0.02	78,438	251	19	2	10,383	0.3	0.2	302.4	12.6
5/14/2017	2,530	2.5	0	71,642	251	19	2	9,557	0.3	0.2	304.7	12.7
5/15/2017	2,410	2.4	0	68,244	251	19	2	9,146	0.3	0.2	306.1	12.8
5/16/2017	2,150	2.3	0	60,881	251	19	2	8,153	0.3	0.2	305.9	12.7
5/17/2017	1,650	1.9	0	46,723	251	18	2	6,196	0.3	0.2	302.9	12.6
5/18/2017	1,460	1.8	0	41,343	251	18	2	5,400	0.3	0.2	298.4	12.4
5/19/2017	1,360	1.7	0	38,511	251	18	2	4,893	0.3	0.2	290.2	12.1
5/20/2017	1,270	1.6	0	35,962	251	18	2	4,444	0.3	0.2	282.3	11.8
5/21/2017	1,480	1.8	0	41,909	251	18	2	5,457	0.3	0.2	297.4	12.4
5/22/2017	1,490	1.8	1.25	42,192	251	18	2	5,514	0.3	0.2	298.5	12.4
5/23/2017	2,520	2.5	0.76	71,358	251	19	2	9,204	0.3	0.2	294.6	12.3
5/24/2017	5,640	3.9	0.35	159,707	251	20	2	18,033	0.3	0.2	257.9	10.7
5/25/2017	9,210	5.2	0	260,798	251	22	2	25,848	0.4	0.2	226.4	9.4
5/26/2017	11,900	6.0	0	336,970	251	22	2	30,990	0.4	0.3	210.1	8.8
5/27/2017	12,900	6.6	0	365,287	251	23	2	35,074	0.4	0.3	219.3	9.1
5/28/2017	10,700	5.6	0.06	302,990	251	22	2	28,926	0.4	0.3	218.1	9.1
5/29/2017	7,890		0.26	223,420	251	16	2	-5,339	-1.5	-1.0	-54.6	-2.3
5/30/2017	6,800		0.08	192,555	251	16	2	-5,339	-1.3	-0.9	-63.3	-2.6
5/31/2017	6,860		0	194,254	251	16	2	-5,339	-1.3	-0.9	-62.8	-2.6
6/1/2017	7,510		0	212,660	251	16	2	-5,339	-1.4	-1.0	-57.3	-2.4
6/2/2017	7,680	4.7	0	217,473	251	21	2	22,671	0.3	0.2	238.1	9.9
6/3/2017	6,570	4.3	0.13	186,042	251	21	2	20,216	0.3	0.2	248.2	10.3
6/4/2017	4,360	3.4	0	123,461	251	20	2	14,955	0.3	0.2	276.7	11.5
6/5/2017	2,810	2.7	1.66	79,570	251	19	2	10,501	0.3	0.2	301.5	12.6
6/6/2017	3,460	3.0	0	97,976	251	19	2	12,471	0.3	0.2	290.8	12.1
6/7/2017	4,190	3.4	0	118,648	251	20	2	14,589	0.3	0.2	280.9	11.7
6/8/2017	4,530	3.5	0.02	128,275	251	20	2	15,444	0.3	0.2	275.0	11.5
6/9/2017	4,540	3.5	0	128,558	251	20	2	15,444	0.3	0.2	274.4	11.4

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
6/10/2017	3,500	3.0	0	99,109	251	19	2	12,591	0.3	0.2	290.2	12.1
6/11/2017	2,340	2.4	0	66,261	251	19	2	8,853	0.3	0.2	305.2	12.7
6/12/2017	1,960	2.2	0	55,501	251	19	2	7,458	0.3	0.2	307.0	12.8
6/13/2017	1,530	1.8	0	43,325	251	18	2	5,684	0.3	0.2	299.7	12.5
6/14/2017	1,130	1.5	0.96	31,998	251	18	2	3,775	0.3	0.2	269.5	11.2
6/15/2017	1,300	1.7	0.03	36,812	251	18	2	4,612	0.3	0.2	286.2	11.9
6/16/2017	1,530	1.8	0.04	43,325	251	18	2	5,684	0.3	0.2	299.7	12.5
6/17/2017	1,460	1.8	0.03	41,343	251	18	2	5,400	0.3	0.2	298.4	12.4
6/18/2017	1,900	2.1	0	53,802	251	19	2	7,170	0.3	0.2	304.4	12.7
6/19/2017	2,010	2.2	0	56,917	251	19	2	7,631	0.3	0.2	306.3	12.8
6/20/2017	3,220	2.8	0.74	91,180	251	19	2	11,453	0.3	0.2	286.9	12.0
6/21/2017	5,400	3.8	0.12	152,911	251	20	2	17,538	0.3	0.2	262.0	10.9
6/22/2017	9,480	5.2	0.4	268,444	251	22	2	26,360	0.4	0.2	224.3	9.3
6/23/2017	8,360	4.9	0	236,729	251	21	2	24,128	0.3	0.2	232.8	9.7
6/24/2017	8,710	5.0	1.93	246,640	251	21	2	24,764	0.4	0.2	229.4	9.6
6/25/2017	11,700	5.9	0.01	331,307	251	22	2	30,602	0.4	0.3	211.0	8.8
6/26/2017	11,600	5.9	0	328,475	251	22	2	30,538	0.4	0.3	212.4	8.8
6/27/2017	10,200	5.5	0	288,832	251	22	2	27,833	0.4	0.2	220.1	9.2
6/28/2017	9,160	5.1	0	259,382	251	22	2	25,721	0.4	0.2	226.5	9.4
6/29/2017	8,060	4.8	0	228,234	251	21	2	23,430	0.3	0.2	234.5	9.8
6/30/2017	6,560	4.3	1.84	185,759	251	21	2	20,216	0.3	0.2	248.6	10.4
7/1/2017	5,420	3.8	0.01	153,477	251	20	2	17,538	0.3	0.2	261.0	10.9
7/2/2017	3,110	2.8	0	88,065	251	19	2	11,453	0.3	0.2	297.1	12.4
7/3/2017	2,730	2.6	0.2	77,305	251	19	2	10,205	0.3	0.2	301.5	12.6
7/4/2017	3,170	2.9	0.03	89,764	251	19	2	11,632	0.3	0.2	296.0	12.3
7/5/2017	2,820	2.7	0	79,854	251	19	2	10,501	0.3	0.2	300.4	12.5
7/6/2017	2,300	2.4	0	65,129	251	19	2	8,736	0.3	0.2	306.4	12.8
7/7/2017	1,880	2.1	0	53,236	251	19	2	7,170	0.3	0.2	307.6	12.8
7/8/2017	1,710	2.0	0	48,422	251	18	2	6,481	0.3	0.2	305.7	12.7
7/9/2017	1,680	2.0	0	47,572	251	18	2	6,310	0.3	0.2	303.0	12.6
7/10/2017	1,630	1.9	0.82	46,156	251	18	2	6,082	0.3	0.2	301.0	12.5
7/11/2017	1,510	1.8	0	42,758	251	18	2	5,570	0.3	0.2	297.6	12.4
7/12/2017	1,530	1.8	0	43,325	251	18	2	5,684	0.3	0.2	299.7	12.5
7/13/2017	1,430	1.8	0	40,493	251	18	2	5,231	0.3	0.2	295.1	12.3
7/14/2017	1,220	1.6	0	34,547	251	18	2	4,221	0.3	0.2	279.1	11.6
7/15/2017	1,130	1.5	0.33	31,998	251	18	2	3,775	0.3	0.2	269.5	11.2
7/16/2017	1,310	1.7	0.12	37,095	251	18	2	4,668	0.3	0.2	287.5	12.0
7/17/2017	1,430	1.8	0.05	40,493	251	18	2	5,231	0.3	0.2	295.1	12.3
7/18/2017	1,420	1.8	0.31	40,210	251	18	2	5,175	0.3	0.2	294.0	12.2
7/19/2017	1,320	1.7	0	37,378	251	18	2	4,724	0.3	0.2	288.7	12.0

APPENDIX B-2
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Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
7/20/2017	1,320	1.7	0	37,378	251	18	2	4,724	0.3	0.2	288.7	12.0
7/21/2017	1,410	1.7	0	39,927	251	18	2	5,118	0.3	0.2	292.8	12.2
7/22/2017	1,480	1.8	0	41,909	251	18	2	5,457	0.3	0.2	297.4	12.4
7/23/2017	1,360	1.7	0.13	38,511	251	18	2	4,893	0.3	0.2	290.2	12.1
7/24/2017	1,490	1.8	0	42,192	251	18	2	5,457	0.3	0.2	295.4	12.3
7/25/2017	1,420	1.8	0	40,210	251	18	2	5,175	0.3	0.2	294.0	12.2
7/26/2017	1,300	1.7	0	36,812	251	18	2	4,612	0.3	0.2	286.2	11.9
7/27/2017	1,140	1.5	0	32,281	251	18	2	3,831	0.3	0.2	271.1	11.3
7/28/2017	1,050	1.4	0	29,733	251	18	2	3,384	0.3	0.2	260.0	10.8
7/29/2017	1,060	1.4	0.44	30,016	251	18	2	3,384	0.3	0.2	257.5	10.7
7/30/2017	1,050	1.4	0	29,733	251	18	2	3,384	0.3	0.2	260.0	10.8
7/31/2017	1,050	1.4	0	29,733	251	18	2	3,328	0.3	0.2	255.7	10.7
8/1/2017	1,010	1.4	0	28,600	251	18	2	3,159	0.3	0.2	252.3	10.5
8/2/2017	964	1.3	0	27,297	251	18	2	2,877	0.3	0.2	240.7	10.0
8/3/2017	946	1.3	0	26,788	251	18	2	2,763	0.3	0.2	235.6	9.8
8/4/2017	929	1.3	0.02	26,306	251	18	2	2,650	0.4	0.2	230.1	9.6
8/5/2017	943	1.3	0	26,703	251	18	2	2,763	0.3	0.2	236.4	9.8
8/6/2017	941	1.3	0	26,646	251	18	2	2,763	0.3	0.2	236.9	9.9
8/7/2017	994	1.4	0.12	28,147	251	18	2	3,047	0.3	0.2	247.2	10.3
8/8/2017	1,210	1.6	1.4	34,263	251	18	2	4,165	0.3	0.2	277.7	11.6
8/9/2017	1,380	1.7	0.11	39,077	251	18	2	5,005	0.3	0.2	292.6	12.2
8/10/2017	1,460	1.8	0	41,343	251	18	2	5,344	0.3	0.2	295.3	12.3
8/11/2017	1,300	1.7	0.01	36,812	251	18	2	4,612	0.3	0.2	286.2	11.9
8/12/2017	1,270	1.6	0.47	35,962	251	18	2	4,444	0.3	0.2	282.3	11.8
8/13/2017	2,290	2.3	1.72	64,846	251	19	2	8,561	0.3	0.2	301.6	12.6
8/14/2017	2,880	2.7	0.01	81,553	251	19	2	10,679	0.3	0.2	299.1	12.5
8/15/2017	1,910	2.1	0.05	54,085	251	19	2	7,227	0.3	0.2	305.2	12.7
8/16/2017	1,460	1.8	0	41,343	251	18	2	5,400	0.3	0.2	298.4	12.4
8/17/2017	1,280	1.6	0.24	36,246	251	18	2	4,500	0.3	0.2	283.6	11.8
8/18/2017	1,360	1.7	0	38,511	251	18	2	4,893	0.3	0.2	290.2	12.1
8/19/2017	1,330	1.7	0	37,661	251	18	2	4,780	0.3	0.2	289.9	12.1
8/20/2017	1,160	1.5	0	32,848	251	18	2	3,942	0.3	0.2	274.1	11.4
8/21/2017	1,030	1.4	0	29,166	251	18	2	3,272	0.3	0.2	256.2	10.7
8/22/2017	1,020	1.4	0	28,883	251	18	2	3,216	0.3	0.2	254.3	10.6
8/23/2017	1,000	1.4	1.02	28,317	251	18	2	3,103	0.3	0.2	250.3	10.4
8/24/2017	1,060	1.4	0	30,016	251	18	2	3,384	0.3	0.2	257.5	10.7
8/25/2017	1,110	1.5	0	31,432	251	18	2	3,664	0.3	0.2	266.3	11.1
8/26/2017	984	1.4	0	27,864	251	18	2	2,990	0.3	0.2	245.1	10.2
8/27/2017	892	1.3	0	25,259	251	18	2	2,479	0.4	0.2	224.1	9.3
8/28/2017	999	1.4	0.22	28,289	251	18	2	3,047	0.3	0.2	246.0	10.2

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
8/29/2017	1,000	1.4	0.01	28,317	251	18	2	3,103	0.3	0.2	250.3	10.4
8/30/2017	930	1.3	0	26,335	251	18	2	2,650	0.4	0.2	229.8	9.6
8/31/2017	885	1.3	0.29	25,060	251	18	2	2,421	0.4	0.2	220.7	9.2
9/1/2017	994	1.4	0.93	28,147	251	18	2	2,990	0.3	0.2	242.6	10.1
9/2/2017	2,240	2.3	0.05	63,430	251	19	2	8,503	0.3	0.2	306.2	12.8
9/3/2017	2,290	2.4	0	64,846	251	19	2	8,678	0.3	0.2	305.7	12.7
9/4/2017	1,630	1.9	0	46,156	251	18	2	6,082	0.3	0.2	301.0	12.5
9/5/2017	1,330	1.7	0.05	37,661	251	18	2	4,780	0.3	0.2	289.9	12.1
9/6/2017	1,480	1.8	0.57	41,909	251	18	2	5,457	0.3	0.2	297.4	12.4
9/7/2017	1,680	2.0	0	47,572	251	18	2	6,310	0.3	0.2	303.0	12.6
9/8/2017	1,750	2.0	0	49,554	251	18	2	6,596	0.3	0.2	304.0	12.7
9/9/2017	1,410	1.7	0	39,927	251	18	2	5,118	0.3	0.2	292.8	12.2
9/10/2017	1,250	1.6	0	35,396	251	18	2	4,388	0.3	0.2	283.2	11.8
9/11/2017	1,160	1.5	0.05	32,848	251	18	2	3,887	0.3	0.2	270.3	11.3
9/12/2017	1,310	1.7	0.96	37,095	251	18	2	4,612	0.3	0.2	284.0	11.8
9/13/2017	1,500	1.8	0	42,475	251	18	2	5,570	0.3	0.2	299.6	12.5
9/14/2017	1,380	1.7	0	39,077	251	18	2	5,005	0.3	0.2	292.6	12.2
9/15/2017	1,250	1.6	0	35,396	251	18	2	4,388	0.3	0.2	283.2	11.8
9/16/2017	1,170	1.5	0	33,131	251	18	2	3,942	0.3	0.2	271.8	11.3
9/17/2017	1,090	1.5	0	30,865	251	18	2	3,552	0.3	0.2	262.9	11.0
9/18/2017	1,010	1.4	0	28,600	251	18	2	3,159	0.3	0.2	252.3	10.5
9/19/2017	948	1.3	0	26,844	251	18	2	2,763	0.3	0.2	235.1	9.8
9/20/2017	923	1.3	0.28	26,136	251	18	2	2,650	0.3	0.2	231.6	9.6
9/21/2017	943	1.3	0	26,703	251	18	2	2,763	0.3	0.2	236.4	9.8
9/22/2017	892	1.3	0	25,259	251	18	2	2,479	0.4	0.2	224.1	9.3
9/23/2017	860	1.2	0	24,352	251	18	2	2,250	0.4	0.3	211.0	8.8
9/24/2017	839	1.2	0	23,758	251	18	2	2,135	0.4	0.3	205.2	8.6
9/25/2017	814	1.2	0	23,050	251	18	2	1,962	0.4	0.3	194.4	8.1
9/26/2017	820	1.2	0	23,220	251	18	2	2,020	0.4	0.3	198.7	8.3
9/27/2017	804	1.2	0	22,767	251	18	2	1,904	0.4	0.3	191.0	8.0
9/28/2017	786	1.2	0	22,257	251	18	2	1,788	0.4	0.3	183.5	7.6
9/29/2017	793	1.2	0	22,455	251	18	2	1,846	0.4	0.3	187.8	7.8
9/30/2017	777	1.1	0	22,002	251	18	2	1,730	0.4	0.3	179.7	7.5
10/1/2017	775	1.1	0	21,946	251	18	2	1,730	0.4	0.3	180.1	7.5
10/2/2017	758	1.1	0	21,464	251	18	2	1,614	0.5	0.3	171.8	7.2
10/3/2017	766	1.1	0	21,691	251	18	2	1,672	0.5	0.3	176.1	7.3
10/4/2017	792	1.2	0	22,427	251	18	2	1,846	0.4	0.3	188.0	7.8
10/5/2017	790	1.2	0	22,370	251	18	2	1,788	0.4	0.3	182.6	7.6
10/6/2017	791	1.2	0	22,399	251	18	2	1,846	0.4	0.3	188.3	7.8
10/7/2017	786	1.2	1.86	22,257	251	18	2	1,788	0.4	0.3	183.5	7.6

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
10/8/2017	893	1.3	1.14	25,287	251	18	2	2,421	0.4	0.3	218.7	9.1
10/9/2017	1,040	1.4	0.08	29,450	251	18	2	3,272	0.3	0.2	253.8	10.6
10/10/2017	1,050	1.4	0	29,733	251	18	2	3,328	0.3	0.2	255.7	10.7
10/11/2017	1,030	1.4	0	29,166	251	18	2	3,216	0.3	0.2	251.8	10.5
10/12/2017	957	1.3	0	27,099	251	18	2	2,820	0.3	0.2	237.7	9.9
10/13/2017	974	1.4	0	27,581	251	18	2	2,933	0.3	0.2	242.9	10.1
10/14/2017	986	1.4	0	27,920	251	18	2	2,990	0.3	0.2	244.6	10.2
10/15/2017	907	1.3	0	25,683	251	18	2	2,536	0.4	0.2	225.5	9.4
10/16/2017	841	1.2	0.09	23,814	251	18	2	2,135	0.4	0.3	204.8	8.5
10/17/2017	839	1.2	0.01	23,758	251	18	2	2,135	0.4	0.3	205.2	8.6
10/18/2017	814	1.2	0	23,050	251	18	2	1,962	0.4	0.3	194.4	8.1
10/19/2017	780	1.1	0	22,087	251	18	2	1,730	0.5	0.3	179.0	7.5
10/20/2017	771	1.1	0	21,832	251	18	2	1,672	0.5	0.3	175.0	7.3
10/21/2017	770	1.1	0	21,804	251	18	2	1,672	0.5	0.3	175.2	7.3
10/22/2017	761	1.1	0	21,549	251	18	2	1,614	0.5	0.3	171.1	7.1
10/23/2017	741	1.1	0.15	20,983	251	18	2	1,498	0.5	0.3	163.1	6.8
10/24/2017	928	1.3	0.01	26,278	251	18	2	2,650	0.4	0.2	230.3	9.6
10/25/2017	1,370	1.7	0	38,794	251	18	2	4,949	0.3	0.2	291.4	12.1
10/26/2017	1,360	1.7	0	38,511	251	18	2	4,893	0.3	0.2	290.2	12.1
10/27/2017	1,190	1.6	0	33,697	251	18	2	4,109	0.3	0.2	278.5	11.6
10/28/2017	1,050	1.4	0.73	29,733	251	18	2	3,328	0.3	0.2	255.7	10.7
10/29/2017	1,250	1.6	0.03	35,396	251	18	2	4,388	0.3	0.2	283.2	11.8
10/30/2017	1,220	1.6	0	34,547	251	18	2	4,221	0.3	0.2	279.1	11.6
10/31/2017	1,040	1.4	0	29,450	251	18	2	3,272	0.3	0.2	253.8	10.6
11/1/2017	900	1.3	0	25,485	251	18	2	2,479	0.4	0.2	222.2	9.3
11/2/2017	803	1.2	0	22,738	251	18	2	1,904	0.4	0.3	191.3	8.0
11/3/2017	776	1.1	0	21,974	251	18	2	1,730	0.4	0.3	179.9	7.5
11/4/2017	792	1.2	0	22,427	251	18	2	1,846	0.4	0.3	188.0	7.8
11/5/2017	755	1.1	0	21,379	251	18	2	1,556	0.5	0.3	166.3	6.9
11/6/2017	756	1.1	0	21,408	251	18	2	1,556	0.5	0.3	166.1	6.9
11/7/2017	792	1.2	0	22,427	251	18	2	1,846	0.4	0.3	188.0	7.8
11/8/2017	804	1.2	0.03	22,767	251	18	2	1,904	0.4	0.3	191.0	8.0
11/9/2017	819	1.2	0.22	23,191	251	18	2	2,020	0.4	0.3	198.9	8.3
11/10/2017	881	1.3	0.01	24,947	251	18	2	2,364	0.4	0.3	216.5	9.0
11/11/2017	897	1.3	0	25,400	251	18	2	2,479	0.4	0.2	222.9	9.3
11/12/2017	874	1.3	0	24,749	251	18	2	2,364	0.4	0.3	218.2	9.1
11/13/2017	863	1.2	0.14	24,437	251	18	2	2,250	0.4	0.3	210.3	8.8
11/14/2017	899	1.3	0	25,457	251	18	2	2,479	0.4	0.2	222.4	9.3
11/15/2017	955	1.3	0	27,043	251	18	2	2,820	0.3	0.2	238.2	9.9
11/16/2017	973	1.4	0	27,552	251	18	2	2,933	0.3	0.2	243.2	10.1

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
11/17/2017	917	1.3	0	25,967	251	18	2	2,593	0.4	0.2	228.1	9.5
11/18/2017	854	1.2	0	24,183	251	18	2	2,192	0.4	0.3	207.1	8.6
11/19/2017	856	1.2	0.06	24,239	251	18	2	2,250	0.4	0.3	212.0	8.8
11/20/2017	856	1.2	0	24,239	251	18	2	2,250	0.4	0.3	212.0	8.8
11/21/2017	832	1.2	0	23,560	251	18	2	2,077	0.4	0.3	201.4	8.4
11/22/2017	829	1.2	0.03	23,475	251	18	2	2,077	0.4	0.3	202.1	8.4
11/23/2017	867	1.2	0	24,551	251	18	2	2,307	0.4	0.3	214.6	8.9
11/24/2017	890	1.3	0	25,202	251	18	2	2,421	0.4	0.3	219.5	9.1
11/25/2017	863	1.2	0	24,437	251	18	2	2,250	0.4	0.3	210.3	8.8
11/26/2017	830	1.2	0	23,503	251	18	2	2,077	0.4	0.3	201.9	8.4
11/27/2017	799	1.2	0	22,625	251	18	2	1,846	0.4	0.3	186.4	7.8
11/28/2017	797	1.2	0	22,569	251	18	2	1,846	0.4	0.3	186.9	7.8
11/29/2017	793	1.2	0	22,455	251	18	2	1,846	0.4	0.3	187.8	7.8
11/30/2017	790	1.2	0	22,370	251	18	2	1,788	0.4	0.3	182.6	7.6
12/1/2017	814	1.2	0	23,050	251	18	2	1,962	0.4	0.3	194.4	8.1
12/2/2017	803	1.2	0.09	22,738	251	18	2	1,904	0.4	0.3	191.3	8.0
12/3/2017	792	1.2	0.01	22,427	251	18	2	1,846	0.4	0.3	188.0	7.8
12/4/2017	797	1.2	0	22,569	251	18	2	1,846	0.4	0.3	186.9	7.8
12/5/2017	802	1.2	0	22,710	251	18	2	1,904	0.4	0.3	191.5	8.0
12/6/2017	843	1.2	0.24	23,871	251	18	2	2,135	0.4	0.3	204.3	8.5
12/7/2017	870	1.2	0.07	24,636	251	18	2	2,307	0.4	0.3	213.9	8.9
12/8/2017	994	1.4	2.43	28,147	251	18	2	3,047	0.3	0.2	247.2	10.3
12/9/2017	1,950	2.1	0.3	55,218	251	19	2	7,400	0.3	0.2	306.1	12.8
12/10/2017	2,350	2.4	0	66,545	251	19	2	8,911	0.3	0.2	305.9	12.7
12/11/2017	2,190	2.3	0	62,014	251	19	2	8,328	0.3	0.2	306.7	12.8
12/12/2017	1,850	2.1	0	52,386	251	19	2	7,055	0.3	0.2	307.6	12.8
12/13/2017	1,560	1.9	0	44,174	251	18	2	5,797	0.3	0.2	299.8	12.5
12/14/2017	1,360	1.7	0	38,511	251	18	2	4,893	0.3	0.2	290.2	12.1
12/15/2017	1,160	1.5	0	32,848	251	18	2	3,942	0.3	0.2	274.1	11.4
12/16/2017	1,040	1.4	0	29,450	251	18	2	3,272	0.3	0.2	253.8	10.6
12/17/2017	966	1.3	0	27,354	251	18	2	2,877	0.3	0.2	240.2	10.0
12/18/2017	934	1.3	0	26,448	251	18	2	2,707	0.3	0.2	233.8	9.7
12/19/2017	898	1.3	0	25,429	251	18	2	2,479	0.4	0.2	222.6	9.3
12/20/2017	962	1.3	0.57	27,241	251	18	2	2,877	0.3	0.2	241.2	10.1
12/21/2017	1,270	1.6	0	35,962	251	18	2	4,444	0.3	0.2	282.3	11.8
12/22/2017	1,460	1.8	0	41,343	251	18	2	5,344	0.3	0.2	295.3	12.3
12/23/2017	1,410	1.8	0	39,927	251	18	2	5,175	0.3	0.2	296.0	12.3
12/24/2017	1,290	1.6	0.03	36,529	251	18	2	4,556	0.3	0.2	284.9	11.9
12/25/2017	1,150	1.5	0.01	32,564	251	18	2	3,887	0.3	0.2	272.6	11.4
12/26/2017	1,050	1.4	0	29,733	251	18	2	3,384	0.3	0.2	260.0	10.8

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
12/27/2017	1,010	1.4	0.15	28,600	251	18	2	3,103	0.3	0.2	247.8	10.3
12/28/2017	991	1.4	0	28,062	251	18	2	3,047	0.3	0.2	248.0	10.3
12/29/2017	966	1.3	0	27,354	251	18	2	2,877	0.3	0.2	240.2	10.0
12/30/2017	911	1.3	0	25,797	251	18	2	2,593	0.4	0.2	229.6	9.6
12/31/2017	897	1.3	0	25,400	251	18	2	2,479	0.4	0.2	222.9	9.3
1/1/2018	867	1.2	0	24,551	251	18	2	2,307	0.4	0.3	214.6	8.9
1/2/2018	837	1.2	0	23,701	251	18	2	2,135	0.4	0.3	205.7	8.6
1/3/2018	828	1.2	0	23,446	251	18	2	2,077	0.4	0.3	202.4	8.4
1/4/2018	823	1.2	0.01	23,305	251	18	2	2,020	0.4	0.3	197.9	8.2
1/5/2018	827	1.2	0	23,418	251	18	2	2,077	0.4	0.3	202.6	8.4
1/6/2018	814	1.2	0	23,050	251	18	2	1,962	0.4	0.3	194.4	8.1
1/7/2018	806	1.2	0	22,823	251	18	2	1,904	0.4	0.3	190.6	7.9
1/8/2018	830	1.2	0	23,503	251	18	2	2,077	0.4	0.3	201.9	8.4
1/9/2018	853	1.2	0	24,154	251	18	2	2,192	0.4	0.3	207.3	8.6
1/10/2018	854	1.2	0	24,183	251	18	2	2,192	0.4	0.3	207.1	8.6
1/11/2018	893	1.3	0.09	25,287	251	18	2	2,479	0.4	0.2	223.9	9.3
1/12/2018	933	1.3	0.22	26,420	251	18	2	2,707	0.3	0.2	234.0	9.8
1/13/2018	1,090	1.5	0	30,865	251	18	2	3,552	0.3	0.2	262.9	11.0
1/14/2018	1,300	1.7	0	36,812	251	18	2	4,612	0.3	0.2	286.2	11.9
1/15/2018	1,290	1.6	0	36,529	251	18	2	4,556	0.3	0.2	284.9	11.9
1/16/2018	1,200	1.6	0	33,980	251	18	2	4,109	0.3	0.2	276.2	11.5
1/17/2018	1,230	1.6	0.2	34,830	251	18	2	4,276	0.3	0.2	280.5	11.7
1/18/2018	1,200	1.6	0.07	33,980	251	18	2	4,109	0.3	0.2	276.2	11.5
1/19/2018	1,140	1.5	0.01	32,281	251	18	2	3,831	0.3	0.2	271.1	11.3
1/20/2018	1,060	1.4	0	30,016	251	18	2	3,384	0.3	0.2	257.5	10.7
1/21/2018	1,040	1.4	0	29,450	251	18	2	3,272	0.3	0.2	253.8	10.6
1/22/2018	1,020	1.4	0	28,883	251	18	2	3,216	0.3	0.2	254.3	10.6
1/23/2018	1,060	1.4	0.08	30,016	251	18	2	3,384	0.3	0.2	257.5	10.7
1/24/2018	1,150	1.5	0	32,564	251	18	2	3,887	0.3	0.2	272.6	11.4
1/25/2018	1,330	1.7	0	37,661	251	18	2	4,724	0.3	0.2	286.5	11.9
1/26/2018	1,830	2.1	0	51,820	251	18	2	6,940	0.3	0.2	305.9	12.7
1/27/2018	1,530	1.8	0	43,325	251	18	2	5,684	0.3	0.2	299.7	12.5
1/28/2018	1,280	1.6	1.04	36,246	251	18	2	4,556	0.3	0.2	287.1	12.0
1/29/2018	3,320	2.8	1.04	94,012	251	19	2	11,513	0.3	0.2	279.7	11.7
1/30/2018	7,650	4.5	0.03	216,624	251	21	2	21,913	0.3	0.2	231.1	9.6
1/31/2018	9,060	5.0	0	256,551	251	21	2	24,764	0.4	0.2	220.5	9.2
2/1/2018	6,040	3.9	0	171,034	251	20	2	18,220	0.3	0.2	243.3	10.1
2/2/2018	3,940	3.1	0.18	111,568	251	20	2	13,073	0.3	0.2	267.7	11.2
2/3/2018	2,930	2.6	0	82,968	251	19	2	10,087	0.3	0.2	277.7	11.6
2/4/2018	2,540	2.4	1.12	71,925	251	19	2	8,853	0.3	0.2	281.2	11.7

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
2/5/2018	3,960	3.1	0	112,135	251	20	2	13,073	0.3	0.2	266.3	11.1
2/6/2018	6,030	3.9	0	170,751	251	20	2	18,220	0.3	0.2	243.7	10.2
2/7/2018	6,480	4.1	0.08	183,493	251	21	2	19,215	0.3	0.2	239.2	10.0
2/8/2018	4,680	3.4	0.03	132,523	251	20	2	15,016	0.3	0.2	258.8	10.8
2/9/2018	3,650	3.0	0	103,356	251	19	2	12,231	0.3	0.2	270.3	11.3
2/10/2018	3,930	3.1	0.21	111,285	251	20	2	13,013	0.3	0.2	267.1	11.1
2/11/2018	3,930	3.1	0	111,285	251	20	2	13,073	0.3	0.2	268.3	11.2
2/12/2018	3,410	2.9	0.01	96,560	251	19	2	11,572	0.3	0.2	273.8	11.4
2/13/2018	3,870	3.1	0	109,586	251	19	2	12,832	0.3	0.2	267.5	11.1
2/14/2018	4,820	3.5	0	136,487	251	20	2	15,383	0.3	0.2	257.5	10.7
2/15/2018	4,280	3.3	0	121,196	251	20	2	14,042	0.3	0.2	264.7	11.0
2/16/2018	4,030	3.1	0	114,117	251	20	2	13,315	0.3	0.2	266.5	11.1
2/17/2018	3,840	3.1	0	108,737	251	19	2	12,832	0.3	0.2	269.6	11.2
2/18/2018	3,610	3.0	0	102,224	251	19	2	12,171	0.3	0.2	272.0	11.3
2/19/2018	3,330	2.8	0.04	94,295	251	19	2	11,333	0.3	0.2	274.5	11.4
2/20/2018	3,260	2.8	0.01	92,313	251	19	2	11,155	0.3	0.2	276.0	11.5
2/21/2018	3,200	2.8	0	90,614	251	19	2	10,976	0.3	0.2	276.7	11.5
2/22/2018	3,100	2.7	0	87,782	251	19	2	10,679	0.3	0.2	277.9	11.6
2/23/2018	2,840	2.6	0	80,420	251	19	2	9,792	0.3	0.2	278.1	11.6
2/24/2018	2,080	2.1	0	58,899	251	19	2	7,170	0.3	0.2	278.1	11.6
2/25/2018	1,930	2.0	0	54,652	251	18	2	6,596	0.3	0.2	275.7	11.5
2/26/2018	1,810	1.9	0.22	51,253	251	18	2	6,139	0.3	0.2	273.6	11.4
2/27/2018	1,780	1.9	0.01	50,404	251	18	2	5,968	0.3	0.2	270.4	11.3
2/28/2018	1,730	1.9	0.07	48,988	251	18	2	5,797	0.3	0.2	270.3	11.3
3/1/2018	1,830	1.9	0.9	51,820	251	18	2	6,196	0.3	0.2	273.1	11.4
3/2/2018	2,760	2.5	0	78,154	251	19	2	9,557	0.3	0.2	279.3	11.6
3/3/2018	3,570	2.9	0	101,091	251	19	2	12,051	0.3	0.2	272.3	11.3
3/4/2018	4,610	3.4	0	130,541	251	20	2	14,894	0.3	0.2	260.6	10.9
3/5/2018	4,180	3.2	0	118,364	251	20	2	13,739	0.3	0.2	265.1	11.0
3/6/2018	3,450	2.9	0.26	97,693	251	19	2	11,692	0.3	0.2	273.4	11.4
3/7/2018	2,810	2.5	0.02	79,570	251	19	2	9,733	0.3	0.2	279.4	11.6
3/8/2018	2,440	2.3	0	69,093	251	19	2	8,503	0.3	0.2	281.1	11.7
3/9/2018	2,680	2.5	0	75,889	251	19	2	9,263	0.3	0.2	278.8	11.6
3/10/2018	3,070	2.7	0	86,933	251	19	2	10,561	0.3	0.2	277.5	11.6
3/11/2018	2,710	2.5	0.02	76,739	251	19	2	9,380	0.3	0.2	279.2	11.6
3/12/2018	2,540	2.4	0.63	71,925	251	19	2	8,794	0.3	0.2	279.3	11.6
3/13/2018	4,120	3.2	0.01	116,665	251	20	2	13,375	0.3	0.2	261.9	10.9
3/14/2018	7,530	4.5	0	213,226	251	21	2	21,535	0.3	0.2	230.7	9.6
3/15/2018	7,930	4.6	0	224,553	251	21	2	22,418	0.4	0.2	228.0	9.5
3/16/2018	7,540	4.5	0	213,509	251	21	2	21,535	0.4	0.2	230.4	9.6

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
3/17/2018	6,180	4.0	0	174,998	251	20	2	18,530	0.3	0.2	241.9	10.1
3/18/2018	5,000	3.6	0	141,584	251	20	2	15,812	0.3	0.2	255.1	10.6
3/19/2018	4,480	3.3	0.01	126,859	251	20	2	14,528	0.3	0.2	261.6	10.9
3/20/2018	4,650	3.4	0.57	131,673	251	20	2	14,955	0.3	0.2	259.4	10.8
3/21/2018	7,350	4.4	0.1	208,129	251	21	2	21,094	0.3	0.2	231.5	9.6
3/22/2018	10,900	5.6	0	308,654	251	22	2	28,540	0.4	0.3	211.2	8.8
3/23/2018	11,000	5.6	0	311,485	251	22	2	28,797	0.4	0.3	211.2	8.8
3/24/2018	8,390	4.8	0.43	237,578	251	21	2	23,304	0.4	0.2	224.1	9.3
3/25/2018	6,990	4.3	0.21	197,935	251	21	2	20,341	0.3	0.2	234.7	9.8
3/26/2018	7,550	4.5	0	213,792	251	21	2	21,598	0.3	0.2	230.8	9.6
3/27/2018	7,950	4.6	0.01	225,119	251	21	2	22,418	0.4	0.2	227.5	9.5
3/28/2018	7,540	4.5	0	213,509	251	21	2	21,535	0.4	0.2	230.4	9.6
3/29/2018	7,250	4.4	0	205,297	251	21	2	20,906	0.3	0.2	232.6	9.7
3/30/2018	6,730	4.2	0	190,572	251	21	2	19,778	0.3	0.2	237.1	9.9
3/31/2018	5,530	3.8	0	156,592	251	20	2	17,043	0.3	0.2	248.6	10.4
4/1/2018	3,900	3.1	0	110,436	251	20	2	12,953	0.3	0.2	267.9	11.2
4/2/2018	3,440	2.9	0	97,410	251	19	2	11,692	0.3	0.2	274.2	11.4
4/3/2018	2,880	2.6	0	81,553	251	19	2	9,969	0.3	0.2	279.2	11.6
4/4/2018	2,360	2.3	0	66,828	251	19	2	8,211	0.3	0.2	280.7	11.7
4/5/2018	2,200	2.2	0	62,297	251	19	2	7,574	0.3	0.2	277.7	11.6
4/6/2018	1,990	2.0	0	56,351	251	18	2	6,825	0.3	0.2	276.7	11.5
4/7/2018	1,940	2.0	0.68	54,935	251	18	2	6,653	0.3	0.2	276.6	11.5
4/8/2018	2,440	2.3	0.25	69,093	251	19	2	8,444	0.3	0.2	279.2	11.6
4/9/2018	3,280	2.8	0.04	92,879	251	19	2	11,214	0.3	0.2	275.8	11.5
4/10/2018	4,250	3.2	0	120,347	251	20	2	13,860	0.3	0.2	263.1	11.0
4/11/2018	5,210	3.6	0	147,531	251	20	2	16,365	0.3	0.2	253.4	10.6
4/12/2018	4,640	3.4	0	131,390	251	20	2	14,955	0.3	0.2	260.0	10.8
4/13/2018	3,450	2.9	0	97,693	251	19	2	11,632	0.3	0.2	272.0	11.3
4/14/2018	2,260	2.2	0	63,996	251	19	2	7,805	0.3	0.2	278.6	11.6
4/15/2018	2,000	2.0	1.06	56,634	251	18	2	6,825	0.3	0.2	275.3	11.5
4/16/2018	5,330	3.5	0	150,929	251	20	2	15,322	0.3	0.2	231.9	9.7
4/17/2018	15,300	7.7	0	433,248	251	24	2	42,120	0.4	0.2	222.1	9.3
4/18/2018	13,900	7.7	0	393,604	251	24	2	42,316	0.3	0.2	245.6	10.2
4/19/2018	13,100	7.4	0	370,951	251	24	2	40,355	0.3	0.2	248.5	10.4
4/20/2018	11,800	6.2	0	334,139	251	23	2	32,608	0.4	0.2	222.9	9.3
4/21/2018	9,910	5.3	0	280,620	251	22	2	26,488	0.4	0.3	215.6	9.0
4/22/2018	8,180	4.7	0	231,632	251	21	2	22,924	0.4	0.2	226.1	9.4
4/23/2018	7,570	4.5	0.23	214,359	251	21	2	21,598	0.4	0.2	230.1	9.6
4/24/2018	6,600	4.1	1.18	186,891	251	21	2	19,465	0.3	0.2	237.9	9.9
4/25/2018	7,670	4.5	0	217,190	251	21	2	21,724	0.4	0.2	228.5	9.5

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
4/26/2018	14,600	7.3	0	413,426	251	24	2	39,441	0.4	0.3	217.9	9.1
4/27/2018	13,700	7.8	0.13	387,941	251	24	2	42,839	0.3	0.2	252.2	10.5
4/28/2018	12,000	6.3	0	339,802	251	23	2	33,191	0.4	0.2	223.1	9.3
4/29/2018	12,000	5.9	0	339,802	251	22	2	30,538	0.4	0.3	205.3	8.6
4/30/2018	9,520	5.1	0	269,576	251	22	2	25,721	0.4	0.3	217.9	9.1
5/1/2018	8,010	4.6	0	226,818	251	21	2	22,544	0.4	0.2	227.0	9.5
5/2/2018	7,290	4.4	0	206,430	251	21	2	21,031	0.3	0.2	232.7	9.7
5/3/2018	6,830	4.2	0	193,404	251	21	2	19,965	0.3	0.2	235.8	9.8
5/4/2018	6,690	4.2	0	189,440	251	21	2	19,653	0.3	0.2	237.0	9.9
5/5/2018	5,470	3.7	0	154,893	251	20	2	16,920	0.3	0.2	249.5	10.4
5/6/2018	4,220	3.2	0.04	119,497	251	20	2	13,860	0.3	0.2	264.9	11.0
5/7/2018	4,000	3.1	0	113,267	251	20	2	13,255	0.3	0.2	267.3	11.1
5/8/2018	3,560	2.9	0	100,808	251	19	2	11,991	0.3	0.2	271.7	11.3
5/9/2018	2,730	2.5	0	77,305	251	19	2	9,439	0.3	0.2	278.9	11.6
5/10/2018	2,130	2.1	0.08	60,315	251	19	2	7,343	0.3	0.2	278.1	11.6
5/11/2018	1,850	1.9	0	52,386	251	18	2	6,253	0.3	0.2	272.6	11.4
5/12/2018	1,420	1.6	0	40,210	251	18	2	4,444	0.3	0.2	252.5	10.5
5/13/2018	1,350	1.6	0	38,228	251	18	2	4,109	0.3	0.2	245.5	10.2
5/14/2018	1,290	1.5	0	36,529	251	18	2	3,831	0.3	0.2	239.6	10.0
5/15/2018	1,280	1.5	0	36,246	251	18	2	3,831	0.3	0.2	241.4	10.1
5/16/2018	1,280	1.5	0.25	36,246	251	18	2	3,831	0.3	0.2	241.4	10.1
5/17/2018	1,490	1.7	0.8	42,192	251	18	2	4,780	0.3	0.2	258.8	10.8
5/18/2018	2,030	2.1	0.01	57,483	251	18	2	6,940	0.3	0.2	275.8	11.5
5/19/2018	2,930	2.6	0.23	82,968	251	19	2	10,087	0.3	0.2	277.7	11.6
5/20/2018	4,260	3.2	0	120,630	251	20	2	13,799	0.3	0.2	261.3	10.9
5/21/2018	7,970	4.6	0	225,685	251	21	2	22,481	0.4	0.2	227.5	9.5
5/22/2018	7,440	4.4	0	210,677	251	21	2	21,346	0.3	0.2	231.4	9.6
5/23/2018	7,830	4.6	0.07	221,721	251	21	2	22,165	0.4	0.2	228.4	9.5
5/24/2018	8,620	4.8	1.86	244,091	251	21	2	23,874	0.4	0.2	223.4	9.3
5/25/2018	7,540	4.5	0	213,509	251	21	2	21,661	0.3	0.2	231.7	9.7
5/26/2018	5,430	3.7	0.02	153,760	251	20	2	16,981	0.3	0.2	252.3	10.5
5/27/2018	3,330	2.9	0	94,295	251	19	2	11,632	0.3	0.2	281.8	11.7
5/28/2018	2,520	2.4	0.58	71,358	251	19	2	9,146	0.3	0.2	292.8	12.2
5/29/2018	2,910	2.7	0.13	82,402	251	19	2	10,501	0.3	0.2	291.1	12.1
5/30/2018	4,410	3.4	0	124,877	251	20	2	14,955	0.3	0.2	273.6	11.4
5/31/2018	6,070	4.1	0	171,883	251	20	2	18,966	0.3	0.2	252.0	10.5
6/1/2018	7,590	4.6	0	214,925	251	21	2	22,481	0.3	0.2	238.9	10.0
6/2/2018	5,750	4.0	0	162,822	251	20	2	18,406	0.3	0.2	258.2	10.8
6/3/2018	4,240	3.4	0	120,063	251	20	2	14,650	0.3	0.2	278.7	11.6
6/4/2018	2,970	2.8	0	84,101	251	19	2	10,976	0.3	0.2	298.1	12.4

APPENDIX B-2
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Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
6/5/2018	2,290	2.4	0	64,846	251	19	2	8,678	0.3	0.2	305.7	12.7
6/6/2018	1,800	2.0	0	50,970	251	18	2	6,825	0.3	0.2	305.9	12.7
6/7/2018	1,510	1.8	0	42,758	251	18	2	5,627	0.3	0.2	300.6	12.5
6/8/2018	1,270	1.6	0	35,962	251	18	2	4,444	0.3	0.2	282.3	11.8
6/9/2018	1,140	1.5	0.02	32,281	251	18	2	3,831	0.3	0.2	271.1	11.3
6/10/2018	1,040	1.4	0	29,450	251	18	2	3,272	0.3	0.2	253.8	10.6
6/11/2018	1,060	1.4	1.81	30,016	251	18	2	3,384	0.3	0.2	257.5	10.7
6/12/2018	1,770	2.0	0.73	50,121	251	18	2	6,653	0.3	0.2	303.2	12.6
6/13/2018	2,000	2.2	0	56,634	251	19	2	7,574	0.3	0.2	305.5	12.7
6/14/2018	1,510	1.8	0	42,758	251	18	2	5,570	0.3	0.2	297.6	12.4
6/15/2018	1,270	1.6	0	35,962	251	18	2	4,500	0.3	0.2	285.8	11.9
6/16/2018	1,130	1.5	0	31,998	251	18	2	3,775	0.3	0.2	269.5	11.2
6/17/2018	1,040	1.4	0	29,450	251	18	2	3,328	0.3	0.2	258.1	10.8
6/18/2018	971	1.4	0.35	27,496	251	18	2	2,933	0.3	0.2	243.7	10.2
6/19/2018	941	1.3	0	26,646	251	18	2	2,763	0.3	0.2	236.9	9.9
6/20/2018	907	1.3	0	25,683	251	18	2	2,536	0.4	0.2	225.5	9.4
6/21/2018	999	1.4	0	28,289	251	18	2	3,047	0.3	0.2	246.0	10.2
6/22/2018	1,060	1.4	0	30,016	251	18	2	3,440	0.3	0.2	261.8	10.9
6/23/2018	1,020	1.4	0	28,883	251	18	2	3,159	0.3	0.2	249.9	10.4
6/24/2018	940	1.3	0.07	26,618	251	18	2	2,763	0.3	0.2	237.1	9.9
6/25/2018	1,040	1.4	0.45	29,450	251	18	2	3,272	0.3	0.2	253.8	10.6
6/26/2018	1,340	1.7	0.76	37,945	251	18	2	4,780	0.3	0.2	287.8	12.0
6/27/2018	2,170	2.3	0.01	61,448	251	19	2	8,270	0.3	0.2	307.4	12.8
6/28/2018	1,990	2.2	0	56,351	251	19	2	7,574	0.3	0.2	307.0	12.8
6/29/2018	1,650	1.9	0	46,723	251	18	2	6,196	0.3	0.2	302.9	12.6
6/30/2018	1,390	1.7	0	39,360	251	18	2	5,062	0.3	0.2	293.8	12.2
7/1/2018	1,230	1.6	0	34,830	251	18	2	4,276	0.3	0.2	280.5	11.7
7/2/2018	1,090	1.5	0	30,865	251	18	2	3,552	0.3	0.2	262.9	11.0
7/3/2018	965	1.3	0	27,326	251	18	2	2,877	0.3	0.2	240.5	10.0
7/4/2018	881	1.3	0	24,947	251	18	2	2,364	0.4	0.3	216.5	9.0
7/5/2018	857	1.2	0.38	24,268	251	18	2	2,250	0.4	0.3	211.7	8.8
7/6/2018	931	1.3	0.01	26,363	251	18	2	2,707	0.3	0.2	234.5	9.8
7/7/2018	1,120	1.5	0.16	31,715	251	18	2	3,664	0.3	0.2	263.9	11.0
7/8/2018	1,670	2.0	0	47,289	251	18	2	6,310	0.3	0.2	304.8	12.7
7/9/2018	1,700	2.0	0	48,139	251	18	2	6,424	0.3	0.2	304.8	12.7
7/10/2018	1,570	1.9	0	44,457	251	18	2	5,854	0.3	0.2	300.8	12.5
7/11/2018	1,190	1.6	0	33,697	251	18	2	4,053	0.3	0.2	274.8	11.4
7/12/2018	998	1.4	0.12	28,260	251	18	2	3,047	0.3	0.2	246.2	10.3
7/13/2018	957	1.3	0	27,099	251	18	2	2,820	0.3	0.2	237.7	9.9
7/14/2018	851	1.2	0	24,098	251	18	2	2,192	0.4	0.3	207.8	8.7

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
7/15/2018	799	1.2	0	22,625	251	18	2	1,846	0.4	0.3	186.4	7.8
7/16/2018	811	1.2	0	22,965	251	18	2	1,962	0.4	0.3	195.1	8.1
7/17/2018	802	1.2	0.07	22,710	251	18	2	1,904	0.4	0.3	191.5	8.0
7/18/2018	1,670	1.9	0	47,289	251	18	2	6,025	0.3	0.2	291.0	12.1
7/19/2018	1,700	2.0	0	48,139	251	18	2	6,367	0.3	0.2	302.1	12.6
7/20/2018	1,100	1.5	0.01	31,149	251	18	2	3,608	0.3	0.2	264.6	11.0
7/21/2018	893	1.3	0.01	25,287	251	18	2	2,479	0.4	0.2	223.9	9.3
7/22/2018	1,400	1.7	0.01	39,644	251	18	2	4,837	0.3	0.2	278.7	11.6
7/23/2018	3,880	3.2	0	109,869	251	20	2	13,436	0.3	0.2	279.3	11.6
7/24/2018	6,730	4.3	0.02	190,572	251	21	2	20,592	0.3	0.2	246.8	10.3
7/25/2018	4,670	3.5	0.09	132,240	251	20	2	15,751	0.3	0.2	272.1	11.3
7/26/2018	3,900	3.2	0	110,436	251	20	2	13,739	0.3	0.2	284.2	11.8
7/27/2018	3,040	2.8	0	86,083	251	19	2	11,214	0.3	0.2	297.6	12.4
7/28/2018	2,720	2.6	1.96	77,022	251	19	2	10,205	0.3	0.2	302.7	12.6
7/29/2018	3,270	2.9	0.06	92,596	251	19	2	11,931	0.3	0.2	294.3	12.3
7/30/2018	3,520	3.0	0.78	99,675	251	19	2	12,652	0.3	0.2	289.9	12.1
7/31/2018	4,160	3.3	0.19	117,798	251	20	2	14,468	0.3	0.2	280.5	11.7
8/1/2018	3,820	3.2	0.43	108,170	251	20	2	13,557	0.3	0.2	286.3	11.9
8/2/2018	3,720	3.1	0.66	105,339	251	20	2	13,255	0.3	0.2	287.4	12.0
8/3/2018	3,510	3.0	0.46	99,392	251	19	2	12,652	0.3	0.2	290.8	12.1
8/4/2018	8,470	4.9	0.59	239,844	251	21	2	24,192	0.4	0.2	230.4	9.6
8/5/2018	9,730	5.3	0.08	275,523	251	22	2	26,872	0.4	0.2	222.8	9.3
8/6/2018	8,560	4.9	0.01	242,392	251	21	2	24,510	0.3	0.2	231.0	9.6
8/7/2018	8,030	4.8	0	227,384	251	21	2	23,430	0.3	0.2	235.4	9.8
8/8/2018	7,660	4.6	0.11	216,907	251	21	2	22,607	0.3	0.2	238.1	9.9
8/9/2018	8,590	4.9	0	243,242	251	21	2	24,510	0.4	0.2	230.2	9.6
8/10/2018	9,930	5.4	0.12	281,186	251	22	2	27,192	0.4	0.2	220.9	9.2
8/11/2018	6,660	4.3	0.01	188,590	251	21	2	20,466	0.3	0.2	247.9	10.3
8/12/2018	7,350	4.5	0.73	208,129	251	21	2	21,913	0.3	0.2	240.5	10.0
8/13/2018	10,500	5.5	0.43	297,327	251	22	2	28,283	0.4	0.3	217.3	9.1
8/14/2018	12,400	6.1	0	351,129	251	23	2	32,025	0.4	0.3	208.3	8.7
8/15/2018	12,700	6.6	0	359,624	251	23	2	35,270	0.4	0.2	224.0	9.3
8/16/2018	11,600	6.0	0	328,475	251	22	2	31,119	0.4	0.3	216.4	9.0
8/17/2018	9,160	5.1	0.27	259,382	251	22	2	25,721	0.4	0.2	226.5	9.4
8/18/2018	6,580	4.3	0.16	186,325	251	21	2	20,216	0.3	0.2	247.8	10.3
8/19/2018	5,850	4.0	0.17	165,654	251	20	2	18,468	0.3	0.2	254.7	10.6
8/20/2018	11,600	5.9	0.55	328,475	251	22	2	30,473	0.4	0.3	211.9	8.8
8/21/2018	14,000	7.0	0.01	396,436	251	23	2	37,549	0.4	0.3	216.4	9.0
8/22/2018	14,300	8.1	0	404,931	251	24	2	44,670	0.3	0.2	252.0	10.5
8/23/2018	11,700	6.3	0	331,307	251	23	2	33,256	0.4	0.2	229.3	9.6

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
8/24/2018	10,900	5.7	0	308,654	251	22	2	29,119	0.4	0.3	215.5	9.0
8/25/2018	7,430	4.6	0	210,394	251	21	2	22,039	0.3	0.2	239.3	10.0
8/26/2018	4,220	3.4	0	119,497	251	20	2	14,589	0.3	0.2	278.9	11.6
8/27/2018	3,160	2.9	0	89,481	251	19	2	11,572	0.3	0.2	295.4	12.3
8/28/2018	2,070	2.2	0	58,616	251	19	2	7,863	0.3	0.2	306.4	12.8
8/29/2018	1,600	1.9	0	45,307	251	18	2	5,968	0.3	0.2	300.9	12.5
8/30/2018	1,440	1.8	0	40,776	251	18	2	5,231	0.3	0.2	293.0	12.2
8/31/2018	1,360	1.7	0	38,511	251	18	2	4,893	0.3	0.2	290.2	12.1
9/1/2018	1,350	1.7		38,228	251	18	2	4,893	0.3	0.2	292.4	12.2
9/2/2018	1,580	1.9		44,741	251	18	2	5,911	0.3	0.2	301.8	12.6
9/3/2018	1,770	2.0		50,121	251	18	2	6,653	0.3	0.2	303.2	12.6
9/4/2018	1,830	2.1		51,820	251	18	2	6,940	0.3	0.2	305.9	12.7
9/5/2018	1,670	1.9		47,289	251	18	2	6,253	0.3	0.2	302.0	12.6
9/6/2018	1,430	1.8		40,493	251	18	2	5,231	0.3	0.2	295.1	12.3
9/7/2018	1,300	1.7		36,812	251	18	2	4,612	0.3	0.2	286.2	11.9
9/8/2018	1,230	1.6		34,830	251	18	2	4,276	0.3	0.2	280.5	11.7
9/9/2018	1,320	1.7		37,378	251	18	2	4,724	0.3	0.2	288.7	12.0
9/10/2018	1,390	1.7		39,360	251	18	2	5,062	0.3	0.2	293.8	12.2
9/11/2018	1,580	1.9		44,741	251	18	2	5,911	0.3	0.2	301.8	12.6
9/12/2018	2,390	2.4		67,677	251	19	2	9,028	0.3	0.2	304.7	12.7
9/13/2018	2,880	2.7		81,553	251	19	2	10,738	0.3	0.2	300.8	12.5
9/14/2018	3,450	3.0		97,693	251	19	2	12,411	0.3	0.2	290.2	12.1
9/15/2018	14,200	8.0		402,099	251	24	2	44,343	0.3	0.2	251.9	10.5
9/16/2018	35,400	21.2		1,002,416	251	38	2	123,534	0.3	0.2	281.5	11.7
9/17/2018	60,500	31.0		1,713,169	251	47	2	164,735	0.4	0.3	219.6	9.2
9/18/2018	77,500	36.0		2,194,556	251	52	2	178,236	0.4	0.3	185.5	7.7
9/19/2018	83,200	38.3		2,355,962	251	55	2	182,750	0.5	0.3	177.2	7.4
9/20/2018	79,100	38.4		2,239,863	251	55	2	182,938	0.4	0.3	186.6	7.8
9/21/2018	64,200	36.4	0	1,817,942	251	53	2	179,125	0.4	0.2	225.1	9.4
9/22/2018	38,500	31.2	0	1,090,199	251	48	2	165,282	0.2	0.2	346.3	14.4
9/23/2018	17,000	23.3	0	481,386	251	40	2	133,677	0.1	0.1	634.3	26.4
9/24/2018	8,520	15.2	0	241,260	251	32	2	89,797	0.1	0.1	850.2	35.4
9/25/2018	9,940	9.3	0	281,469	251	26	2	53,034	0.2	0.1	430.4	17.9
9/26/2018	8,740	6.4	0.35	247,489	251	23	2	33,645	0.3	0.2	310.5	12.9
9/27/2018	10,500	5.7	0.13	297,327	251	22	2	29,634	0.4	0.2	227.7	9.5
9/28/2018	12,300	7.0	0.28	348,297	251	23	2	37,679	0.3	0.2	247.1	10.3
9/29/2018	15,000	8.8	0	424,753	251	25	2	49,444	0.3	0.2	265.9	11.1
9/30/2018	15,300	9.2	0	433,248	251	26	2	52,186	0.3	0.2	275.1	11.5
10/1/2018	14,300	8.6	0	404,931	251	25	2	48,006	0.3	0.2	270.8	11.3
10/2/2018	13,100	7.8	0	370,951	251	24	2	43,166	0.3	0.2	265.8	11.1

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
10/3/2018	12,100	7.2	0	342,634	251	24	2	38,919	0.3	0.2	259.5	10.8
10/4/2018	11,400	6.7	0	322,812	251	23	2	35,855	0.3	0.2	253.7	10.6
10/5/2018	11,500	6.4	0	325,644	251	23	2	33,840	0.3	0.2	237.4	9.9
10/6/2018	11,900	6.1	0	336,970	251	23	2	31,830	0.4	0.3	215.8	9.0
10/7/2018	11,500	5.8	0	325,644	251	22	2	30,215	0.4	0.3	211.9	8.8
10/8/2018	11,100	5.7	0	314,317	251	22	2	29,506	0.4	0.3	214.4	8.9
10/9/2018	10,800	5.6	0	305,822	251	22	2	28,862	0.4	0.3	215.6	9.0
10/10/2018	6,320	4.1	0.07	178,962	251	21	2	19,340	0.3	0.2	246.9	10.3
10/11/2018	2,820	2.7	0.67	79,854	251	19	2	10,501	0.3	0.2	300.4	12.5
10/12/2018	8,900	4.9	0	252,020	251	21	2	24,319	0.4	0.2	220.4	9.2
10/13/2018	16,200	9.1	0	458,733	251	26	2	51,729	0.3	0.2	257.6	10.7
10/14/2018	16,200	9.7	0	458,733	251	26	2	55,184	0.3	0.2	274.8	11.4
10/15/2018	12,500	7.8	0	353,961	251	24	2	42,970	0.3	0.2	277.3	11.6
10/16/2018	11,400	6.0	0.24	322,812	251	22	2	31,313	0.4	0.2	221.6	9.2
10/17/2018	12,300	6.8	0.03	348,297	251	23	2	36,246	0.3	0.2	237.7	9.9
10/18/2018	12,400	7.2	0	351,129	251	24	2	39,180	0.3	0.2	254.9	10.6
10/19/2018	11,900	7.0	0	336,970	251	23	2	37,810	0.3	0.2	256.3	10.7
10/20/2018	11,200	6.5	0	317,149	251	23	2	34,749	0.3	0.2	250.3	10.4
10/21/2018	11,700	6.0	0	331,307	251	22	2	31,378	0.4	0.3	216.3	9.0
10/22/2018	11,400	5.8	0	322,812	251	22	2	30,086	0.4	0.3	212.9	8.9
10/23/2018	10,300	5.5	0	291,664	251	22	2	28,026	0.4	0.3	219.5	9.1
10/24/2018	8,600	5.0	0	243,525	251	21	2	24,573	0.3	0.2	230.5	9.6
10/25/2018	7,530	4.6	0	213,226	251	21	2	22,355	0.3	0.2	239.5	10.0
10/26/2018	6,910	4.4	1.05	195,669	251	21	2	20,969	0.3	0.2	244.8	10.2
10/27/2018	9,040	5.1	0.02	255,984	251	22	2	25,402	0.4	0.2	226.7	9.4
10/28/2018	14,800	7.8	0	419,089	251	24	2	43,100	0.3	0.2	234.9	9.8
10/29/2018	14,600	8.6	0	413,426	251	25	2	48,136	0.3	0.2	266.0	11.1
10/30/2018	11,500	6.9	0	325,644	251	23	2	37,223	0.3	0.2	261.1	10.9
10/31/2018	10,300	5.6	0	291,664	251	22	2	28,476	0.4	0.2	223.0	9.3
11/1/2018	8,640	5.0	0.11	244,658	251	21	2	24,701	0.3	0.2	230.6	9.6
11/2/2018	6,460	4.2	0.04	182,927	251	21	2	19,965	0.3	0.2	249.3	10.4
11/3/2018	4,960	3.7	0	140,452	251	20	2	16,488	0.3	0.2	268.2	11.2
11/4/2018	6,150	4.1	0.08	174,149	251	21	2	19,340	0.3	0.2	253.7	10.6
11/5/2018	5,970	4.1	0.18	169,052	251	20	2	18,904	0.3	0.2	255.4	10.6
11/6/2018	7,320	4.5	0.04	207,279	251	21	2	21,787	0.3	0.2	240.1	10.0
11/7/2018	12,500	6.2	0.05	353,961	251	23	2	32,478	0.4	0.3	209.6	8.7
11/8/2018	10,400	5.5	0.3	294,495	251	22	2	28,219	0.4	0.3	218.9	9.1
11/9/2018	8,940	5.1	0.04	253,153	251	21	2	25,274	0.4	0.2	228.1	9.5
11/10/2018	9,150	5.1	0.01	259,099	251	22	2	25,721	0.4	0.2	226.8	9.4
11/11/2018	8,660	5.0	0	245,224	251	21	2	24,701	0.4	0.2	230.1	9.6

APPENDIX B-2
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Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
11/12/2018	8,920	5.1	1.5	252,586	251	21	2	25,274	0.4	0.2	228.6	9.5
11/13/2018	19,600	10.4	1.57	555,010	251	27	2	59,859	0.3	0.2	246.4	10.3
11/14/2018	37,400	21.6	0.07	1,059,050	251	38	2	125,662	0.3	0.2	271.0	11.3
11/15/2018	36,400	23.7	0.64	1,030,733	251	40	2	135,558	0.3	0.2	300.4	12.5
11/16/2018	39,200	25.0	0	1,110,020	251	41	2	141,602	0.3	0.2	291.4	12.1
11/17/2018	35,300	24.7	0	999,585	251	41	2	140,223	0.3	0.2	320.4	13.4
11/18/2018	27,100	21.7	0	767,387	251	38	2	125,863	0.2	0.1	374.6	15.6
11/19/2018	18,200	16.9	0.11	515,367	251	33	2	100,017	0.2	0.1	443.3	18.5
11/20/2018	15,900	12.0	0	450,238	251	28	2	70,262	0.2	0.2	356.5	14.9
11/21/2018	16,700	10.6	0	472,891	251	27	2	61,541	0.3	0.2	297.3	12.4
11/22/2018	15,100	9.4	0	427,584	251	26	2	53,686	0.3	0.2	286.8	12.0
11/23/2018	11,500	7.1	0	325,644	251	24	2	38,592	0.3	0.2	270.7	11.3
11/24/2018	11,500	6.2	1.09	325,644	251	23	2	32,672	0.4	0.2	229.2	9.5
11/25/2018	13,200	7.3	0	373,782	251	24	2	40,029	0.3	0.2	244.6	10.2
11/26/2018	14,800	8.6	0	419,089	251	25	2	48,071	0.3	0.2	262.0	10.9
11/27/2018	15,400	9.1	0	436,079	251	26	2	51,403	0.3	0.2	269.3	11.2
11/28/2018	15,300	9.1	0	433,248	251	26	2	51,599	0.3	0.2	272.0	11.3
11/29/2018	15,100	9.0	0	427,584	251	25	2	50,554	0.3	0.2	270.1	11.3
11/30/2018	15,500	9.2	0	438,911	251	26	2	52,447	0.3	0.2	273.0	11.4
12/1/2018	15,700	9.4	1.11	444,574	251	26	2	53,425	0.3	0.2	274.5	11.4
12/2/2018	17,300	10.4	0.01	489,881	251	27	2	59,989	0.3	0.2	279.7	11.7
12/3/2018	18,700	11.7	0	529,525	251	28	2	68,158	0.3	0.2	294.0	12.3
12/4/2018	18,900	12.0	0	535,188	251	28	2	70,325	0.3	0.2	300.2	12.5
12/5/2018	18,100	11.5	0	512,535	251	28	2	67,199	0.3	0.2	299.5	12.5
12/6/2018	17,200	10.7	0	487,050	251	27	2	62,057	0.3	0.2	291.0	12.1
12/7/2018	13,600	8.6	0	385,109	251	25	2	48,267	0.3	0.2	286.3	11.9
12/8/2018	9,960	5.7	0.39	282,036	251	22	2	29,506	0.3	0.2	239.0	10.0
12/9/2018	10,400	5.4	1.56	294,495	251	22	2	27,641	0.4	0.3	214.4	8.9
12/10/2018	17,000	9.4	0.35	481,386	251	26	2	53,230	0.3	0.2	252.6	10.5
12/11/2018	23,300	15.0	0.02	659,783	251	31	2	88,892	0.3	0.2	307.8	12.8
12/12/2018	21,500	15.1	0	608,812	251	32	2	89,375	0.2	0.2	335.3	14.0
12/13/2018	17,900	12.6	0	506,872	251	29	2	73,746	0.2	0.2	332.3	13.8
12/14/2018	13,600	8.9	1.49	385,109	251	25	2	50,032	0.3	0.2	296.8	12.4
12/15/2018	15,900	9.6	0.43	450,238	251	26	2	54,533	0.3	0.2	276.7	11.5
12/16/2018	22,000	14.1	0.01	622,971	251	31	2	83,529	0.3	0.2	306.3	12.8
12/17/2018	21,400	14.7	0	605,981	251	31	2	87,014	0.2	0.2	328.0	13.7
12/18/2018	19,200	13.4	0	543,683	251	30	2	78,764	0.2	0.2	330.9	13.8
12/19/2018	16,500	10.9	0	467,228	251	27	2	63,347	0.3	0.2	309.7	12.9
12/20/2018	14,100	8.9	0.39	399,268	251	25	2	50,097	0.3	0.2	286.6	11.9
12/21/2018	12,600	7.6	0.15	356,792	251	24	2	41,662	0.3	0.2	266.7	11.1

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
12/22/2018	18,400	10.9	0	521,030	251	27	2	63,476	0.3	0.2	278.3	11.6
12/23/2018	20,400	13.0	0	577,664	251	29	2	76,514	0.3	0.2	302.6	12.6
12/24/2018	19,400	12.8	0	549,347	251	29	2	75,321	0.3	0.2	313.2	13.0
12/25/2018	17,200	11.0	0	487,050	251	27	2	63,862	0.3	0.2	299.5	12.5
12/26/2018	15,600	9.7	0	441,743	251	26	2	55,314	0.3	0.2	286.0	11.9
12/27/2018	15,200	9.2	0.05	430,416	251	26	2	51,925	0.3	0.2	275.6	11.5
12/28/2018	13,900	8.5	0.6	393,604	251	25	2	47,286	0.3	0.2	274.4	11.4
12/29/2018	14,600	8.5	0.01	413,426	251	25	2	47,679	0.3	0.2	263.4	11.0
12/30/2018	20,200	12.4	0.2	572,000	251	29	2	72,482	0.3	0.2	289.5	12.1
12/31/2018	21,200	13.8	0	600,317	251	30	2	81,804	0.3	0.2	311.3	13.0
1/1/2019	20,600	13.8	0.01	583,327	251	30	2	81,433	0.3	0.2	318.9	13.3
1/2/2019	19,800	13.2	0	560,674	251	30	2	78,077	0.3	0.2	318.1	13.3
1/3/2019	19,600	12.9	0.22	555,010	251	29	2	76,137	0.3	0.2	313.4	13.1
1/4/2019	19,900	13.1	0.76	563,505	251	30	2	77,140	0.3	0.2	312.7	13.0
1/5/2019	20,800	13.8	0	588,990	251	30	2	81,309	0.3	0.2	315.3	13.1
1/6/2019	21,700	14.6	0	614,476	251	31	2	86,527	0.3	0.2	321.7	13.4
1/7/2019	20,100	13.9	0	569,169	251	30	2	81,989	0.2	0.2	329.0	13.7
1/8/2019	19,400	12.9	0	549,347	251	29	2	76,137	0.3	0.2	316.6	13.2
1/9/2019	19,300	12.7	0	546,515	251	29	2	74,881	0.3	0.2	313.0	13.0
1/10/2019	18,600	12.1	0	526,693	251	29	2	70,770	0.3	0.2	306.9	12.8
1/11/2019	17,900	11.4	0	506,872	251	28	2	66,431	0.3	0.2	299.4	12.5
1/12/2019	17,300	10.8	0	489,881	251	27	2	62,509	0.3	0.2	291.5	12.1
1/13/2019	17,100	10.5	0.7	484,218	251	27	2	60,765	0.3	0.2	286.6	11.9
1/14/2019	19,400	12.0	0	549,347	251	28	2	70,071	0.3	0.2	291.4	12.1
1/15/2019	20,900	13.5	0	591,822	251	30	2	79,946	0.3	0.2	308.6	12.9
1/16/2019	19,400	12.9	0	549,347	251	29	2	75,698	0.3	0.2	314.8	13.1
1/17/2019	17,300	11.2	0.17	489,881	251	28	2	65,148	0.3	0.2	303.8	12.7
1/18/2019	14,400	9.0	0	407,763	251	25	2	51,077	0.3	0.2	286.1	11.9
1/19/2019	9,790	6.0	0	277,222	251	22	2	31,507	0.3	0.2	259.6	10.8
1/20/2019	7,940	4.7	0.5	224,836	251	21	2	22,671	0.4	0.2	230.3	9.6
1/21/2019	10,200	5.4	0	288,832	251	22	2	27,256	0.4	0.3	215.6	9.0
1/22/2019	11,700	5.8	0	331,307	251	22	2	30,279	0.4	0.3	208.8	8.7
1/23/2019	11,200	5.7	0	317,149	251	22	2	29,248	0.4	0.3	210.7	8.8
1/24/2019	12,500	6.4	0.83	353,961	251	23	2	34,165	0.4	0.2	220.5	9.2
1/25/2019	12,900	7.4	0	365,287	251	24	2	40,355	0.3	0.2	252.4	10.5
1/26/2019	16,100	9.3	0	455,901	251	26	2	53,099	0.3	0.2	266.0	11.1
1/27/2019	16,600	10.1	0	470,060	251	27	2	58,109	0.3	0.2	282.4	11.8
1/28/2019	14,200	8.7	0	402,099	251	25	2	48,659	0.3	0.2	276.4	11.5
1/29/2019	11,900	7.2	0.09	336,970	251	24	2	39,245	0.3	0.2	266.0	11.1
1/30/2019	11,100	6.4	0	314,317	251	23	2	33,645	0.3	0.2	244.5	10.2

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
1/31/2019	12,000	6.0	0	339,802	251	22	2	31,442	0.4	0.3	211.4	8.8
2/1/2019	9,470	5.1	0	268,161	251	22	2	25,785	0.4	0.3	219.6	9.2
2/2/2019	6,770	4.2	0	191,705	251	21	2	20,090	0.3	0.2	239.4	10.0
2/3/2019	6,140	4.0	0	173,865	251	20	2	18,717	0.3	0.2	245.9	10.2
2/4/2019	5,800	3.9	0	164,238	251	20	2	17,971	0.3	0.2	249.9	10.4
2/5/2019	5,180	3.7	0	146,681	251	20	2	16,488	0.3	0.2	256.8	10.7
2/6/2019	4,600	3.4	0	130,257	251	20	2	15,077	0.3	0.2	264.4	11.0
2/7/2019	4,390	3.3	0	124,311	251	20	2	14,528	0.3	0.2	267.0	11.1
2/8/2019	4,210	3.3	0	119,214	251	20	2	14,042	0.3	0.2	269.1	11.2
2/9/2019	3,810	3.1	0	107,887	251	20	2	12,953	0.3	0.2	274.2	11.4
2/10/2019	3,570	3.0	0	101,091	251	19	2	12,291	0.3	0.2	277.7	11.6
2/11/2019	3,460	2.9	0.25	97,976	251	19	2	11,931	0.3	0.2	278.2	11.6
2/12/2019	3,700	3.0	0.25	104,772	251	19	2	12,652	0.3	0.2	275.8	11.5
2/13/2019	4,500	3.4	0.02	127,426	251	20	2	14,833	0.3	0.2	265.9	11.1
2/14/2019	5,050	3.6	0	143,000	251	20	2	16,181	0.3	0.2	258.5	10.8
2/15/2019	6,340	4.1	0	179,529	251	21	2	19,153	0.3	0.2	243.7	10.2
2/16/2019	7,770	4.6	0.6	220,022	251	21	2	22,291	0.3	0.2	231.4	9.6
2/17/2019	11,500	5.8	0.04	325,644	251	22	2	29,828	0.4	0.3	209.2	8.7
2/18/2019	12,700	7.0	0.12	359,624	251	23	2	37,875	0.3	0.2	240.6	10.0
2/19/2019	13,200	7.6	0.11	373,782	251	24	2	41,597	0.3	0.2	254.2	10.6
2/20/2019	13,900	8.1	0.19	393,604	251	25	2	45,193	0.3	0.2	262.3	10.9
2/21/2019	15,300	8.9	0.16	433,248	251	25	2	50,228	0.3	0.2	264.8	11.0
2/22/2019	18,500	11.2	0.28	523,862	251	28	2	64,955	0.3	0.2	283.2	11.8
2/23/2019	21,600	13.6	0.46	611,644	251	30	2	80,566	0.3	0.2	300.9	12.5
2/24/2019	23,800	15.9	0.01	673,941	251	32	2	94,099	0.3	0.2	318.9	13.3
2/25/2019	23,600	16.7	0	668,278	251	33	2	98,914	0.2	0.2	338.1	14.1
2/26/2019	21,200	15.5	0	600,317	251	32	2	91,598	0.2	0.2	348.5	14.5
2/27/2019	17,200	12.1	0	487,050	251	29	2	71,151	0.2	0.2	333.7	13.9
2/28/2019	14,700	9.3	0	416,258	251	26	2	52,904	0.3	0.2	290.3	12.1
3/1/2019	14,000	8.5	0.68	396,436	251	25	2	47,482	0.3	0.2	273.6	11.4
3/2/2019	14,800	8.7	0.01	419,089	251	25	2	48,921	0.3	0.2	266.6	11.1
3/3/2019	16,100	9.7	1.04	455,901	251	26	2	55,445	0.3	0.2	277.8	11.6
3/4/2019	15,600	9.4	0.14	441,743	251	26	2	53,425	0.3	0.2	276.3	11.5
3/5/2019	18,400	11.3	0	521,030	251	28	2	65,790	0.3	0.2	288.4	12.0
3/6/2019	16,400	10.3	0	464,396	251	27	2	59,600	0.3	0.2	293.2	12.2
3/7/2019	12,600	7.8	0	356,792	251	24	2	42,970	0.3	0.2	275.1	11.5
3/8/2019	12,800	7.5	0.51	362,456	251	24	2	41,074	0.3	0.2	258.9	10.8
3/9/2019	15,000	8.7	0.07	424,753	251	25	2	49,182	0.3	0.2	264.5	11.0
3/10/2019	16,700	10.0	0	472,891	251	26	2	57,460	0.3	0.2	277.6	11.6
3/11/2019	17,300	10.6	0	489,881	251	27	2	60,959	0.3	0.2	284.2	11.8

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
3/12/2019	17,300	10.6	0	489,881	251	27	2	61,411	0.3	0.2	286.3	11.9
3/13/2019	16,800	10.3	0	475,723	251	27	2	59,406	0.3	0.2	285.2	11.9
3/14/2019	16,100	9.8	0	455,901	251	26	2	56,355	0.3	0.2	282.4	11.8
3/15/2019	15,500	9.4	0.7	438,911	251	26	2	53,686	0.3	0.2	279.4	11.6
3/16/2019	15,300	9.2	0	433,248	251	26	2	52,317	0.3	0.2	275.8	11.5
3/17/2019	15,000	9.0	0	424,753	251	25	2	51,011	0.3	0.2	274.3	11.4
3/18/2019	14,800	8.8	0	419,089	251	25	2	49,836	0.3	0.2	271.6	11.3
3/19/2019	14,400	8.6	0	407,763	251	25	2	48,006	0.3	0.2	268.9	11.2
3/20/2019	12,400	7.5	0.19	351,129	251	24	2	41,074	0.3	0.2	267.2	11.1
3/21/2019	10,500	5.8	0.15	297,327	251	22	2	30,279	0.3	0.2	232.6	9.7
3/22/2019	13,000	6.8	0.01	368,119	251	23	2	36,376	0.4	0.2	225.7	9.4
3/23/2019	14,400	8.4	0	407,763	251	25	2	46,698	0.3	0.2	261.6	10.9
3/24/2019	11,300	6.7	0	319,980	251	23	2	36,050	0.3	0.2	257.4	10.7
3/25/2019	10,400	5.4	0.53	294,495	251	22	2	27,705	0.4	0.3	214.9	9.0
3/26/2019	10,700	5.5	0.07	302,990	251	22	2	28,347	0.4	0.3	213.7	8.9
3/27/2019	12,200	6.0	0	345,466	251	22	2	31,184	0.4	0.3	206.2	8.6
3/28/2019	12,400	6.1	0	351,129	251	22	2	31,701	0.4	0.3	206.2	8.6
3/29/2019	11,400	5.8	0	322,812	251	22	2	29,699	0.4	0.3	210.1	8.8
3/30/2019	7,730	4.6	0	218,889	251	21	2	22,039	0.4	0.2	230.0	9.6
3/31/2019	4,330	3.3	0	122,612	251	20	2	14,346	0.3	0.2	267.3	11.1
4/1/2019	3,950	3.2	0	111,852	251	20	2	13,375	0.3	0.2	273.2	11.4
4/2/2019	4,520	3.4	1.02	127,992	251	20	2	14,772	0.3	0.2	263.6	11.0
4/3/2019	6,470	4.1	0	183,210	251	21	2	19,465	0.3	0.2	242.7	10.1
4/4/2019	6,450	4.1	0	182,644	251	21	2	19,403	0.3	0.2	242.7	10.1
4/5/2019	6,020	4.0	1.03	170,467	251	20	2	18,468	0.3	0.2	247.5	10.3
4/6/2019	7,320	4.4	0	207,279	251	21	2	21,283	0.3	0.2	234.5	9.8
4/7/2019	11,200	5.7	0	317,149	251	22	2	29,312	0.4	0.3	211.1	8.8
4/8/2019	9,860	5.3	0	279,204	251	22	2	26,616	0.4	0.3	217.7	9.1
4/9/2019	11,300	5.8	0.03	319,980	251	22	2	30,086	0.4	0.3	214.8	8.9
4/10/2019	18,000	10.4	0	509,703	251	27	2	60,247	0.3	0.2	270.0	11.2
4/11/2019	16,400	10.2	0	464,396	251	27	2	58,693	0.3	0.2	288.7	12.0
4/12/2019	12,300	7.6	1.1	348,297	251	24	2	41,531	0.3	0.2	272.4	11.3
4/13/2019	17,500	10.1	1.18	495,545	251	26	2	57,849	0.3	0.2	266.7	11.1
4/14/2019	24,500	15.8	0.23	693,763	251	32	2	93,743	0.3	0.2	308.7	12.9
4/15/2019	22,900	16.1	0	648,456	251	33	2	95,459	0.2	0.2	336.3	14.0
4/16/2019	21,800	15.5	0	617,307	251	32	2	91,717	0.2	0.2	339.4	14.1
4/17/2019	16,100	11.6	0	455,901	251	28	2	67,903	0.2	0.2	340.2	14.2
4/18/2019	10,500	7.0	0	297,327	251	23	2	37,614	0.3	0.2	289.0	12.0
4/19/2019	8,840	5.1	0.48	250,321	251	21	2	25,274	0.3	0.2	230.6	9.6
4/20/2019	8,550	4.8	0	242,109	251	21	2	23,684	0.4	0.2	223.5	9.3

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
4/21/2019	12,500	6.6	0	353,961	251	23	2	35,270	0.4	0.2	227.6	9.5
4/22/2019	11,000	5.7	0	311,485	251	22	2	29,634	0.4	0.3	217.3	9.1
4/23/2019	12,300	6.2	0	348,297	251	23	2	32,737	0.4	0.3	214.7	8.9
4/24/2019	12,700	7.3	0	359,624	251	24	2	39,833	0.3	0.2	253.0	10.5
4/25/2019	12,300	7.2	0	348,297	251	24	2	39,114	0.3	0.2	256.5	10.7
4/26/2019	11,600	6.8	0.05	328,475	251	23	2	36,506	0.3	0.2	253.9	10.6
4/27/2019	11,500	6.5	0	325,644	251	23	2	34,684	0.3	0.2	243.3	10.1
4/28/2019	11,800	6.3	0	334,139	251	23	2	33,450	0.4	0.2	228.7	9.5
4/29/2019	12,200	6.2	0	345,466	251	23	2	32,543	0.4	0.3	215.2	9.0
4/30/2019	12,400	6.1	0	351,129	251	22	2	31,766	0.4	0.3	206.6	8.6
5/1/2019	12,200	5.9	0	345,466	251	22	2	30,925	0.4	0.3	204.5	8.5
5/2/2019	11,900	5.8	0	336,970	251	22	2	30,279	0.4	0.3	205.3	8.6
5/3/2019	11,700	5.8	0	331,307	251	22	2	29,892	0.4	0.3	206.1	8.6
5/4/2019	10,800	5.5	0.16	305,822	251	22	2	27,898	0.4	0.3	208.4	8.7
5/5/2019	10,100	5.3	0.39	286,000	251	22	2	26,552	0.4	0.3	212.1	8.8
5/6/2019	10,700	5.5	0	302,990	251	22	2	27,769	0.4	0.3	209.4	8.7
5/7/2019	11,000	5.5	0	311,485	251	22	2	28,347	0.4	0.3	207.9	8.7
5/8/2019	8,570	4.7	0	242,675	251	21	2	23,240	0.4	0.3	218.8	9.1
5/9/2019	5,530	3.7	0	156,592	251	20	2	16,488	0.3	0.2	240.5	10.0
5/10/2019	3,500	2.8	0	99,109	251	19	2	11,333	0.3	0.2	261.2	10.9
5/11/2019	2,800	2.4	0	79,287	251	19	2	9,146	0.3	0.2	263.5	11.0
5/12/2019	2,700	2.4	0.13	76,455	251	19	2	8,794	0.3	0.2	262.7	10.9
5/13/2019	2,670	2.4	0	75,606	251	19	2	8,678	0.3	0.2	262.2	10.9
5/14/2019	2,860	2.5	0	80,986	251	19	2	9,263	0.3	0.2	261.3	10.9
5/15/2019	2,980	2.5	0	84,384	251	19	2	9,615	0.3	0.2	260.3	10.8
5/16/2019	3,110	2.6	0	88,065	251	19	2	10,028	0.3	0.2	260.1	10.8
5/17/2019	3,150	2.6	0	89,198	251	19	2	10,146	0.3	0.2	259.8	10.8
5/18/2019	2,750	2.4	0	77,871	251	19	2	8,853	0.3	0.2	259.7	10.8
5/19/2019	2,200	2.1	0	62,297	251	18	2	6,997	0.3	0.2	256.6	10.7
5/20/2019	1,980	1.9	0.24	56,067	251	18	2	6,139	0.3	0.2	250.1	10.4
5/21/2019	1,820	1.8	0	51,537	251	18	2	5,570	0.3	0.2	246.9	10.3
5/22/2019	1,640	1.7	0	46,440	251	18	2	4,780	0.3	0.2	235.1	9.8
5/23/2019	1,530	1.6	0	43,325	251	18	2	4,332	0.4	0.2	228.4	9.5
5/24/2019	1,440	1.5	0	40,776	251	18	2	3,942	0.4	0.2	220.8	9.2
5/25/2019	1,370	1.5	0	38,794	251	18	2	3,608	0.4	0.3	212.4	8.9
5/26/2019	1,280	1.4	0	36,246	251	18	2	3,159	0.4	0.3	199.1	8.3
5/27/2019	1,220	1.3	0	34,547	251	18	2	2,877	0.4	0.3	190.2	7.9
5/28/2019	1,180	1.3	0	33,414	251	18	2	2,707	0.4	0.3	185.0	7.7
5/29/2019	1,140	1.3	0	32,281	251	18	2	2,479	0.5	0.3	175.4	7.3
5/30/2019	1,100	1.2	0	31,149	251	18	2	2,250	0.5	0.3	165.0	6.9

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
5/31/2019	1,130	1.3	0.1	31,998	251	18	2	2,421	0.5	0.3	172.9	7.2
6/1/2019	1,110	1.2	0	31,432	251	18	2	2,307	0.5	0.3	167.6	7.0
6/2/2019	1,060	1.2	0	30,016	251	18	2	2,020	0.5	0.4	153.7	6.4
6/3/2019	1,000	1.1	0	28,317	251	18	2	1,730	0.6	0.4	139.6	5.8
6/4/2019	959	1.1	0	27,156	251	18	2	1,498	0.6	0.4	126.0	5.3
6/5/2019	967	1.1	0.84	27,382	251	18	2	1,498	0.6	0.4	125.0	5.2
6/6/2019	1,150	1.3	0.01	32,564	251	18	2	2,536	0.5	0.3	177.9	7.4
6/7/2019	1,180	1.3	0	33,414	251	18	2	2,707	0.4	0.3	185.0	7.7
6/8/2019	1,400	1.5	0.01	39,644	251	18	2	3,720	0.4	0.3	214.3	8.9
6/9/2019	2,910	2.5	2.19	82,402	251	19	2	9,322	0.3	0.2	258.4	10.8
6/10/2019	7,470	4.3	0.79	211,527	251	21	2	20,466	0.4	0.2	221.0	9.2
6/11/2019	11,500	5.7	0.06	325,644	251	22	2	29,183	0.4	0.3	204.7	8.5
6/12/2019	11,200	5.6	0.39	317,149	251	22	2	28,476	0.4	0.3	205.1	8.5
6/13/2019	9,290	4.9	0.02	263,064	251	21	2	24,510	0.4	0.3	212.8	8.9
6/14/2019	8,460	4.7	0	239,561	251	21	2	22,797	0.4	0.3	217.4	9.1
6/15/2019	8,400	4.7	0	237,862	251	21	2	22,671	0.4	0.3	217.7	9.1
6/16/2019	8,170	4.6	0	231,349	251	21	2	22,228	0.4	0.3	219.5	9.1
6/17/2019	7,360	4.3	0	208,412	251	21	2	20,466	0.4	0.2	224.3	9.3
6/18/2019	6,800	4.1	0	192,555	251	21	2	19,215	0.4	0.2	227.9	9.5
6/19/2019	5,260	3.5	0	148,947	251	20	2	15,751	0.3	0.2	241.6	10.1
6/20/2019	3,760	2.9	0.08	106,471	251	19	2	11,871	0.3	0.2	254.7	10.6
6/21/2019	3,080	2.6	0	87,216	251	19	2	9,910	0.3	0.2	259.5	10.8
6/22/2019	2,920	2.5	0.23	82,685	251	19	2	9,439	0.3	0.2	260.8	10.9
6/23/2019	2,610	2.3	0	73,907	251	19	2	8,444	0.3	0.2	261.0	10.9
6/24/2019	2,860	2.5	0	80,986	251	19	2	9,204	0.3	0.2	259.6	10.8
6/25/2019	3,500	2.8	0	99,109	251	19	2	11,214	0.3	0.2	258.5	10.8
6/26/2019	3,110	2.6	0	88,065	251	19	2	9,969	0.3	0.2	258.6	10.8
6/27/2019	2,000	1.9	0	56,634	251	18	2	6,196	0.3	0.2	249.9	10.4
6/28/2019	1,460	1.5	0	41,343	251	18	2	3,998	0.4	0.2	220.9	9.2
6/29/2019	1,160	1.3	0	32,848	251	18	2	2,593	0.4	0.3	180.3	7.5
6/30/2019	1,120	1.3	0	31,715	251	18	2	2,364	0.5	0.3	170.3	7.1
7/1/2019	1,080	1.2	0	30,582	251	18	2	2,135	0.5	0.3	159.4	6.6
7/2/2019	1,020	1.2	0.03	28,883	251	18	2	1,846	0.6	0.4	146.0	6.1
7/3/2019	1,040	1.2	0	29,450	251	18	2	1,962	0.5	0.4	152.2	6.3
7/4/2019	1,250	1.3	1.72	35,396	251	18	2	2,877	0.4	0.3	185.6	7.7
7/5/2019	2,430	2.2	0	68,810	251	19	2	7,805	0.3	0.2	259.1	10.8
7/6/2019	2,360	2.2	0	66,828	251	19	2	7,516	0.3	0.2	256.9	10.7
7/7/2019	1,750	1.8	0	49,554	251	18	2	5,231	0.3	0.2	241.1	10.0
7/8/2019	1,830	1.8	0.43	51,820	251	18	2	5,514	0.3	0.2	243.0	10.1
7/9/2019	2,130	2.0	0	60,315	251	18	2	6,710	0.3	0.2	254.1	10.6

APPENDIX B-2
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[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)	Calculated River Velocity (mph)	Calculated Travel Time to Kelly (hrs)	Calculated Travel Time to Kelly (days)
7/10/2019	2,000	1.9	0.01	56,634	251	18	2	6,253	0.3	0.2	252.2	10.5
7/11/2019	1,780	1.8	0	50,404	251	18	2	5,400	0.3	0.2	244.7	10.2
7/12/2019	2,490	2.2	0.15	70,509	251	19	2	7,921	0.3	0.2	256.6	10.7
7/13/2019	3,090	2.6	0	87,499	251	19	2	9,969	0.3	0.2	260.2	10.8
7/14/2019	2,520	2.3	0	71,358	251	19	2	8,095	0.3	0.2	259.1	10.8
7/15/2019	2,270	2.1	0	64,279	251	19	2	7,227	0.3	0.2	256.8	10.7
7/16/2019	1,820	1.8	0	51,537	251	18	2	5,514	0.3	0.2	244.4	10.2
7/17/2019	1,470	1.6	0	41,626	251	18	2	4,053	0.4	0.2	222.4	9.3

Notes:
1) Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2019).
2) The minimum value recorded by a USGS raingage is 0.01 inches. Anything detected below this threshold is recorded as 0 inches.
3) Z value is an estimated factor used to compute total cross sectional area from river depth.
cfs: cubic feet per second.
ft: feet.
ft^2: feet squared.
hrs: hours.
L/s: Liter per second.
mph: miles per hour.
USGS - United States Geological Survey.

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
1/1/2017	3,150	16	0.10	89,198
1/2/2017	3,270	17	1.63	92,596
1/3/2017	4,160	17	0.10	117,798
1/4/2017	6,550	18	0.00	185,475
1/5/2017	8,490	18	0.00	240,410
1/6/2017	8,400	18	0.05	237,862
1/7/2017	7,650	18	0.47	216,624
1/8/2017	8,450	18	0.00	239,277
1/9/2017	9,110	19	0.00	257,966
1/10/2017	8,650	18	0.00	244,941
1/11/2017	7,660	18	0.01	216,907
1/12/2017	6,860	18	0.00	194,254
1/13/2017	6,410	18	0.00	181,511
1/14/2017	6,260	18	0.00	177,263
1/15/2017	6,090	18	0.00	172,450
1/16/2017	5,280	17	0.00	149,513
1/17/2017	4,570	17	0.00	129,408
1/18/2017	4,210	17	0.00	119,214
1/19/2017	3,770	17	0.00	106,755
1/20/2017	3,190	16	0.00	90,331
1/21/2017	2,950	16	0.30	83,535
1/22/2017	2,910	16	0.38	82,402
1/23/2017	3,190	16	0.05	90,331
1/24/2017	3,830	17	0.00	108,454
1/25/2017	6,160	18	0.00	174,432
1/26/2017	8,620	18	0.02	244,091
1/27/2017	8,370	18	0.00	237,012
1/28/2017	7,540	18	0.00	213,509
1/29/2017	6,770	18	0.00	191,705
1/30/2017	6,370	18	0.00	180,378
1/31/2017	6,140	18	0.00	173,865
2/1/2017	5,740	18	0.00	162,539
2/2/2017	4,440	17	0.00	125,727
2/3/2017	3,360	17	0.09	95,145
2/4/2017	2,980	16	0.00	84,384
2/5/2017	2,790	16	0.00	79,004
2/6/2017	2,690	16	0.00	76,172
2/7/2017	2,630	16	0.00	74,473
2/8/2017	2,520	16	0.50	71,358
2/9/2017	2,420	16	0.20	68,527
2/10/2017	2,400	16	0.00	67,960

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
2/11/2017	2,500	16	0.00	70,792
2/12/2017	2,620	16	0.00	74,190
2/13/2017	2,630	16	0.00	74,473
2/14/2017	2,470	16	0.00	69,943
2/15/2017	2,380	16	0.81	67,394
2/16/2017	2,820	16	0.00	79,854
2/17/2017	3,300	17	0.00	93,446
2/18/2017	3,480	17	0.00	98,543
2/19/2017	3,390	17	0.00	95,994
2/20/2017	3,120	16	0.00	88,349
2/21/2017	2,870	16	0.00	81,269
2/22/2017	2,690	16	0.00	76,172
2/23/2017	2,400	16	0.00	67,960
2/24/2017	2,120	16	0.00	60,032
2/25/2017	2,010	16	0.00	56,917
2/26/2017	1,940	16	0.00	54,935
2/27/2017	1,880	16	0.00	53,236
2/28/2017	1,840	16	0.08	52,103
3/1/2017	1,790	16	0.01	50,687
3/2/2017	1,860	16	0.10	52,669
3/3/2017	2,040	16	0.00	57,766
3/4/2017	2,380	16	0.00	67,394
3/5/2017	2,690	16	0.00	76,172
3/6/2017	2,570	16	0.00	72,774
3/7/2017	2,240	16	0.00	63,430
3/8/2017	2,260	16	0.00	63,996
3/9/2017	2,460	16	0.00	69,659
3/10/2017	2,460	16	0.02	69,659
3/11/2017	2,350	16	0.00	66,545
3/12/2017	2,210	16	0.35	62,580
3/13/2017	1,960	16	0.68	55,501
3/14/2017	2,160	16	0.13	61,164
3/15/2017	2,680	16	0.00	75,889
3/16/2017	2,960	16	0.00	83,818
3/17/2017	3,050	16	0.00	86,366
3/18/2017	2,900	16	0.12	82,119
3/19/2017	2,840	16	0.01	80,420
3/20/2017	2,650	16	0.00	75,040

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
3/21/2017	2,440	16	0.00	69,093
3/22/2017	2,560	16	0.13	72,491
3/23/2017	2,760	16	0.00	78,154
3/24/2017	2,740	16	0.00	77,588
3/25/2017	2,500	16	0.00	70,792
3/26/2017	2,140	16	0.00	60,598
3/27/2017	1,920	16	0.00	54,368
3/28/2017	1,820	16	0.41	51,537
3/29/2017	1,730	16	0.00	48,988
3/30/2017	1,680	16	0.00	47,572
3/31/2017	1,800	16	0.41	50,970
4/1/2017	2,380	16	0.00	67,394
4/2/2017	3,070	16	0.00	86,933
4/3/2017	3,090	16	0.56	87,499
4/4/2017	3,110	16	0.01	88,065
4/5/2017	3,580	17	0.73	101,374
4/6/2017	5,000	17	0.30	141,584
4/7/2017	6,090	18	0.00	172,450
4/8/2017	6,710	18	0.00	190,006
4/9/2017	7,110	18	0.00	201,333
4/10/2017	6,220	18	0.00	176,131
4/11/2017	4,370	17	0.00	123,745
4/12/2017	2,890	16	0.00	81,836
4/13/2017	2,270	16	0.39	64,279
4/14/2017	2,030	16	0.00	57,483
4/15/2017	1,870	16	0.00	52,953
4/16/2017	1,740	16	0.00	49,271
4/17/2017	1,660	16	0.00	47,006
4/18/2017	1,590	16	0.02	45,024
4/19/2017	1,560	16	0.15	44,174
4/20/2017	1,510	16	0.00	42,758
4/21/2017	1,430	15	0.00	40,493
4/22/2017	1,390	15	0.00	39,360
4/23/2017	1,350	15	0.02	38,228
4/24/2017	1,710	16	2.43	48,422
4/25/2017	5,040	17	0.44	142,717
4/26/2017	12,600	19	0.00	356,792
4/27/2017	17,100	20	0.00	484,218
4/28/2017	19,000	21	0.00	538,020
4/29/2017	20,000	21	0.00	566,337
4/30/2017	20,200	21	0.00	572,000

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
5/1/2017	19,200	21	0.01	543,683
5/2/2017	17,800	20	0.37	504,040
5/3/2017	16,300	20	0.00	461,565
5/4/2017	15,200	20	0.06	430,416
5/5/2017	14,400	20	0.50	407,763
5/6/2017	14,000	20	0.09	396,436
5/7/2017	14,100	20	0.06	399,268
5/8/2017	14,000	20	0.00	396,436
5/9/2017	12,200	19	0.00	345,466
5/10/2017	8,810	18	0.00	249,471
5/11/2017	5,820	18	0.00	164,804
5/12/2017	4,090	17	0.00	115,816
5/13/2017	3,480	17	0.00	98,543
5/14/2017	3,060	16	0.00	86,650
5/15/2017	2,810	16	0.00	79,570
5/16/2017	2,630	16	0.00	74,473
5/17/2017	2,260	16	0.00	63,996
5/18/2017	1,850	16	0.00	52,386
5/19/2017	1,650	16	0.00	46,723
5/20/2017	1,520	16	0.00	43,042
5/21/2017	1,470	15	0.00	41,626
5/22/2017	1,630	16	0.66	46,156
5/23/2017	1,890	16	1.18	53,519
5/24/2017	3,550	17	0.51	100,525
5/25/2017	6,340	18	0.28	179,529
5/26/2017	8,780	18	0.00	248,622
5/27/2017	10,800	19	0.00	305,822
5/28/2017	11,700	19	0.19	331,307
5/29/2017	10,400	19	0.25	294,495
5/30/2017	8,160	18	0.12	231,065
5/31/2017	6,980	18	0.00	197,652
6/1/2017	7,030	18	0.00	199,067
6/2/2017	7,680	18	0.03	217,473
6/3/2017	7,640	18	0.00	216,341
6/4/2017	6,370	18	0.00	180,378
6/5/2017	4,390	17	0.64	124,311
6/6/2017	3,460	17	0.09	97,976
6/7/2017	4,020	17	0.30	113,834
6/8/2017	4,470	17	0.34	126,576
6/9/2017	4,840	17	0.00	137,054
6/10/2017	4,550	17	0.00	128,842

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
6/11/2017	3,510	17	0.00	99,392
6/12/2017	2,560	16	0.00	72,491
6/13/2017	2,090	16	0.00	59,182
6/14/2017	1,670	16	0.77	47,289
6/15/2017	1,580	16	0.08	44,741
6/16/2017	1,770	16	0.25	50,121
6/17/2017	1,890	16	0.03	53,519
6/18/2017	1,920	16	0.03	54,368
6/19/2017	2,300	16	0.07	65,129
6/20/2017	2,500	16	0.59	70,792
6/21/2017	4,250	17	0.04	120,347
6/22/2017	6,620	18	0.14	187,458
6/23/2017	8,950	19	0.00	253,436
6/24/2017	8,630	18	0.42	244,374
6/25/2017	9,630	19	0.01	272,691
6/26/2017	11,100	19	0.02	314,317
6/27/2017	11,200	19	0.00	317,149
6/28/2017	10,500	19	0.00	297,327
6/29/2017	9,510	19	0.00	269,293
6/30/2017	8,210	18	1.68	232,481
7/1/2017	7,200	18	0.02	203,881
7/2/2017	5,400	17	0.00	152,911
7/3/2017	3,640	17	0.00	103,073
7/4/2017	3,390	17	0.00	95,994
7/5/2017	3,330	17	0.00	94,295
7/6/2017	2,950	16	0.00	83,535
7/7/2017	2,510	16	0.28	71,075
7/8/2017	2,240	16	0.38	63,430
7/9/2017	2,040	16	0.60	57,766
7/10/2017	1,950	16	0.46	55,218
7/11/2017	1,970	16	0.05	55,784
7/12/2017	1,840	16	0.01	52,103
7/13/2017	1,800	16	0.00	50,970
7/14/2017	1,580	16	0.00	44,741
7/15/2017	1,400	15	0.67	39,644
7/16/2017	1,400	15	0.02	39,644
7/17/2017	1,490	15	0.04	42,192
7/18/2017	1,870	16	0.16	52,953
7/19/2017	1,930	16	0.10	54,652
7/20/2017	1,630	16	0.01	46,156
7/21/2017	1,550	16	0.00	43,891

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
7/22/2017	1,590	16	0.00	45,024
7/23/2017	1,550	16	0.00	43,891
7/24/2017	1,550	16	0.00	43,891
7/25/2017	1,590	16	0.00	45,024
7/26/2017	1,510	16	0.00	42,758
7/27/2017	1,370	15	0.00	38,794
7/28/2017	1,220	15	0.00	34,547
7/29/2017	1,150	15	0.62	32,564
7/30/2017	1,120	15	0.00	31,715
7/31/2017	1,090	15	0.00	30,865
8/1/2017	1,060	15	0.00	30,016
8/2/2017	1,030	15	0.00	29,166
8/3/2017	976	15	0.00	27,637
8/4/2017	956	15	0.01	27,071
8/5/2017	957	15	0.01	27,099
8/6/2017	982	15	0.00	27,807
8/7/2017	974	15	0.24	27,581
8/8/2017	1,130	15	1.40	31,998
8/9/2017	1,460	15	0.00	41,343
8/10/2017	1,590	16	0.05	45,024
8/11/2017	1,550	16	0.21	43,891
8/12/2017	1,400	15	0.26	39,644
8/13/2017	1,590	16	0.77	45,024
8/14/2017	2,950	16	0.01	83,535
8/15/2017	2,980	16	0.42	84,384
8/16/2017	2,180	16	0.00	61,731
8/17/2017	1,680	16	0.00	47,572
8/18/2017	1,580	16	0.00	44,741
8/19/2017	1,640	16	1.27	46,440
8/20/2017	1,580	16	0.00	44,741
8/21/2017	1,370	15	0.00	38,794
8/22/2017	1,210	15	0.01	34,263
8/23/2017	1,150	15	0.57	32,564
8/24/2017	1,260	15	0.57	35,679
8/25/2017	1,590	16	0.65	45,024
8/26/2017	1,520	16	0.00	43,042
8/27/2017	1,280	15	0.00	36,246
8/28/2017	1,110	15	0.02	31,432
8/29/2017	1,160	15	0.07	32,848
8/30/2017	1,130	15	0.00	31,998
8/31/2017	1,060	15	0.29	30,016

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
9/1/2017	1,110	15	0.01	31,432
9/2/2017	1,550	16	0.52	43,891
9/3/2017	2,540	16	0.00	71,925
9/4/2017	2,480	16	0.00	70,226
9/5/2017	1,850	16	0.19	52,386
9/6/2017	1,750	16	1.17	49,554
9/7/2017	2,000	16	0.00	56,634
9/8/2017	2,180	16	0.00	61,731
9/9/2017	2,090	16	0.00	59,182
9/10/2017	1,740	16	0.00	49,271
9/11/2017	1,530	16	0.08	43,325
9/12/2017	1,980	16	3.08	56,067
9/13/2017	2,530	16	0.00	71,642
9/14/2017	2,350	16	0.00	66,545
9/15/2017	2,130	16	0.00	60,315
9/16/2017	1,840	16	0.00	52,103
9/17/2017	1,600	16	0.00	45,307
9/18/2017	1,430	15	0.00	40,493
9/19/2017	1,310	15	0.00	37,095
9/20/2017	1,220	15	0.16	34,547
9/21/2017	1,210	15	0.24	34,263
9/22/2017	1,180	15	0.00	33,414
9/23/2017	1,120	15	0.00	31,715
9/24/2017	1,070	15	0.00	30,299
9/25/2017	1,010	15	0.00	28,600
9/26/2017	991	15	0.00	28,062
9/27/2017	965	15	0.00	27,326
9/28/2017	929	15	0.00	26,306
9/29/2017	909	15	0.00	25,740
9/30/2017	875	15	0.00	24,777
10/1/2017	822	15	0.00	23,276
10/2/2017	812	15	0.00	22,993
10/3/2017	825	15	0.00	23,361
10/4/2017	837	15	0.00	23,701
10/5/2017	849	15	0.00	24,041
10/6/2017	855	15	0.00	24,211
10/7/2017	862	15	0.15	24,409
10/8/2017	919	15	0.06	26,023
10/9/2017	1,080	15	0.50	30,582
10/10/2017	1,250	15	0.01	35,396
10/11/2017	1,280	15	0.03	36,246

APPENDIX B-3
SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
10/12/2017	1,240	15	0.01	35,113
10/13/2017	1,150	15	0.00	32,564
10/14/2017	1,120	15	0.00	31,715
10/15/2017	1,100	15	0.00	31,149
10/16/2017	1,040	15	0.24	29,450
10/17/2017	958	15	0.00	27,128
10/18/2017	933	15	0.00	26,420
10/19/2017	901	15	0.00	25,513
10/20/2017	863	15	0.00	24,437
10/21/2017	847	15	0.00	23,984
10/22/2017	837	15	0.00	23,701
10/23/2017	803	15	0.96	22,738
10/24/2017	893	15	0.01	25,287
10/25/2017	1,080	15	0.00	30,582
10/26/2017	1,410	15	0.00	39,927
10/27/2017	1,430	15	0.00	40,493
10/28/2017	1,300	15	0.26	36,812
10/29/2017	1,340	15	0.57	37,945
10/30/2017	1,430	15	0.00	40,493
10/31/2017	1,370	15	0.00	38,794
11/1/2017	1,200	15	0.00	33,980
11/2/2017	1,050	15	0.00	29,733
11/3/2017	929	15	0.00	26,306
11/4/2017	886	15	0.00	25,089
11/5/2017	880	15	0.00	24,919
11/6/2017	852	15	0.00	24,126
11/7/2017	848	15	0.00	24,013
11/8/2017	874	15	0.01	24,749
11/9/2017	914	15	0.42	25,882
11/10/2017	970	15	0.00	27,467
11/11/2017	1,030	15	0.00	29,166
11/12/2017	1,060	15	0.00	30,016
11/13/2017	1,060	15	0.18	30,016
11/14/2017	1,050	15	0.00	29,733
11/15/2017	1,080	15	0.00	30,582
11/16/2017	1,130	15	0.00	31,998
11/17/2017	1,150	15	0.00	32,564
11/18/2017	1,090	15	0.00	30,865
11/19/2017	1,050	15	0.02	29,733
11/20/2017	1,010	15	0.00	28,600
11/21/2017	1,010	15	0.01	28,600

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
11/22/2017	1,010	15	0.03	28,600
11/23/2017	996	15	0.00	28,204
11/24/2017	1,050	15	0.00	29,733
11/25/2017	1,070	15	0.00	30,299
11/26/2017	1,050	15	0.00	29,733
11/27/2017	1,000	15	0.00	28,317
11/28/2017	964	15	0.00	27,297
11/29/2017	963	15	0.00	27,269
11/30/2017	957	15	0.00	27,099
12/1/2017	966	15	0.00	27,354
12/2/2017	996	15	0.00	28,204
12/3/2017	1,010	15	0.00	28,600
12/4/2017	996	15	0.00	28,204
12/5/2017	1,000	15	0.01	28,317
12/6/2017	1,040	15	0.25	29,450
12/7/2017	1,100	15	0.21	31,149
12/8/2017	1,270	15	1.37	35,962
12/9/2017	2,160	16	0.42	61,164
12/10/2017	3,080	16	0.00	87,216
12/11/2017	3,200	17	0.00	90,614
12/12/2017	2,770	16	0.00	78,438
12/13/2017	2,220	16		62,863
12/14/2017	1,850	16	0.00	52,386
12/15/2017	1,560	16	0.01	44,174
12/16/2017	1,290	15	0.00	36,529
12/17/2017	1,100	15	0.00	31,149
12/18/2017	988	15	0.02	27,977
12/19/2017	921	15	0.00	26,080
12/20/2017	935	15	0.72	26,476
12/21/2017	1,210	15	0.01	34,263
12/22/2017	1,490	16	0.01	42,192
12/23/2017	1,650	16	0.00	46,723
12/24/2017	1,660	16	0.50	47,006
12/25/2017	1,520	16	0.01	43,042
12/26/2017	1,330	16	0.00	37,661
12/27/2017	1,250	16	0.34	35,396
12/28/2017	1,210	15	0.00	34,263
12/29/2017	1,180	15	0.00	33,414
12/30/2017	1,220	15	0.00	34,547
12/31/2017	1,110	15	0.00	31,432
1/1/2018	1,030	15	0.00	29,166

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
1/2/2018	971	15	0.00	27,496
1/3/2018	974	15		27,581
1/4/2018	967	15		27,382
1/5/2018	906	15	0.00	25,655
1/6/2018	883	15	0.00	25,004
1/7/2018	854	15	0.00	24,183
1/8/2018	840	15	0.00	23,786
1/9/2018	866	15	0.00	24,522
1/10/2018	883	15	0.01	25,004
1/11/2018	863	15	0.14	24,437
1/12/2018	919	15	1.32	26,023
1/13/2018	1,180	15	0.01	33,414
1/14/2018	1,380	16	0.00	39,077
1/15/2018	1,540	16	0.00	43,608
1/16/2018	1,520	16	0.00	43,042
1/17/2018	1,480	16	0.08	41,909
1/18/2018	1,530	16	0.00	43,325
1/19/2018	1,500	16	0.00	42,475
1/20/2018	1,420	16	0.00	40,210
1/21/2018	1,340	16	0.00	37,945
1/22/2018	1,300	16	0.06	36,812
1/23/2018	1,290	16	0.07	36,529
1/24/2018	1,340	16	0.00	37,945
1/25/2018	1,400	16	0.00	39,644
1/26/2018	1,700	16	0.00	48,139
1/27/2018	2,000	16	0.00	56,634
1/28/2018	1,780	16	1.16	50,404
1/29/2018	2,500	16	0.54	70,792
1/30/2018	5,250	17	0.00	148,663
1/31/2018	8,090	18	0.00	229,083
2/1/2018	8,200	18	0.00	232,198
2/2/2018	5,930	18	0.09	167,919
2/3/2018	4,200	17	0.00	118,931
2/4/2018	3,250	17	0.54	92,030
2/5/2018	3,340	17	0.00	94,578
2/6/2018	4,680	17	0.00	132,523
2/7/2018	6,290	18		178,113
2/8/2018	6,050	18		171,317
2/9/2018	4,730	17		133,939
2/10/2018	4,030	17		114,117
2/11/2018	4,260	17		120,630

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
2/12/2018	4,070	17		115,250
2/13/2018	3,650	17	0.00	103,356
2/14/2018	4,390	17	0.00	124,311
2/15/2018	4,680	17	0.00	132,523
2/16/2018	4,350	17	0.00	123,178
2/17/2018	4,120	17	0.00	116,665
2/18/2018	3,890	17	0.00	110,153
2/19/2018	3,660	17	0.11	103,640
2/20/2018	3,420	17	0.01	96,844
2/21/2018	3,340	17	0.00	94,578
2/22/2018	3,270	17	0.00	92,596
2/23/2018	3,220	16	0.00	91,180
2/24/2018	2,690	16	0.00	76,172
2/25/2018	2,170	16	0.00	61,448
2/26/2018	1,970	16	0.08	55,784
2/27/2018	1,870	16	0.00	52,953
2/28/2018	1,790	16	0.12	50,687
3/1/2018	1,820	16	0.82	51,537
3/2/2018	2,300	16	0.01	65,129
3/3/2018	3,080	16	0.00	87,216
3/4/2018	3,960	17	0.00	112,135
3/5/2018	4,510	17	0.00	127,709
3/6/2018	4,110	17	0.09	116,382
3/7/2018	3,520	17	0.22	99,675
3/8/2018	2,860	16	0.00	80,986
3/9/2018	2,570	16	0.00	72,774
3/10/2018	2,850	16	0.00	80,703
3/11/2018	2,980	16	0.05	84,384
3/12/2018	2,730	16	0.47	77,305
3/13/2018	2,850	16	0.01	80,703
3/14/2018	4,930	17	0.00	139,602
3/15/2018	7,050	18	0.00	199,634
3/16/2018	7,530	18	0.00	213,226
3/17/2018	7,070	18	0.00	200,200
3/18/2018	5,820	18	0.00	164,804
3/19/2018	4,920	17	0.00	139,319
3/20/2018	4,590	17	1.89	129,974
3/21/2018	5,310	17	0.01	150,362
3/22/2018	7,830	18	0.00	221,721
3/23/2018	10,300	19	0.00	291,664
3/24/2018	10,300	19	0.14	291,664

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
3/25/2018	8,270	18	0.18	234,180
3/26/2018	7,260	18	0.00	205,580
3/27/2018	7,540	18	0.00	213,509
3/28/2018	7,560	18	0.00	214,075
3/29/2018	7,390	18	0.00	209,261
3/30/2018	6,950	18	0.00	196,802
3/31/2018	6,420	18	0.00	181,794
4/1/2018	5,040	17	0.00	142,717
4/2/2018	3,980	17	0.00	112,701
4/3/2018	3,500	17	0.00	99,109
4/4/2018	2,860	16	0.04	80,986
4/5/2018	2,360	16	0.00	66,828
4/6/2018	2,260	16	0.00	63,996
4/7/2018	2,160	16	0.85	61,164
4/8/2018	2,390	16	0.20	67,677
4/9/2018	3,020	16	0.29	85,517
4/10/2018	3,690	17	0.01	104,489
4/11/2018	4,810	17	0.00	136,204
4/12/2018	5,120	17	0.00	144,982
4/13/2018	4,620	17	0.00	130,824
4/14/2018	3,340	17	0.00	94,578
4/15/2018	2,450	16	0.75	69,376
4/16/2018	2,640	16	0.01	74,756
4/17/2018	8,050	18	0.00	227,951
4/18/2018	13,100	20	0.00	370,951
4/19/2018	14,100	20	0.00	399,268
4/20/2018	13,900	20	0.00	393,604
4/21/2018	12,700	19	0.00	359,624
4/22/2018	10,300	19	0.00	291,664
4/23/2018	8,410	18	0.25	238,145
4/24/2018	7,960	18	1.36	225,402
4/25/2018	7,310	18	0.00	206,996
4/26/2018	9,520	19	0.00	269,576
4/27/2018	13,500	20	0.09	382,277
4/28/2018	14,400	20	0.00	407,763
4/29/2018	13,700	20	0.00	387,941
4/30/2018	12,400	19	0.00	351,129
5/1/2018	10,300	19	0.00	291,664
5/2/2018	8,500	18	0.00	240,693
5/3/2018	7,490	18	0.00	212,093
5/4/2018	6,940	18	0.00	196,519

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
5/5/2018	6,570	18	0.00	186,042
5/6/2018	5,310	17	0.50	150,362
5/7/2018	4,430	17	0.00	125,444
5/8/2018	4,030	17	0.00	114,117
5/9/2018	3,450	17	0.00	97,693
5/10/2018	2,780	16	0.00	78,721
5/11/2018	2,370	16	0.00	67,111
5/12/2018	1,840	16	0.00	52,103
5/13/2018	1,480	15	0.00	41,909
5/14/2018	1,350	15	0.00	38,228
5/15/2018	1,300	15	0.07	36,812
5/16/2018	1,330	15	0.00	37,661
5/17/2018	1,410	15	0.06	39,927
5/18/2018	1,770	16	0.55	50,121
5/19/2018	2,480	16	1.46	70,226
5/20/2018	3,550	17	0.02	100,525
5/21/2018	5,610	17	0.00	158,858
5/22/2018	7,540	18	0.01	213,509
5/23/2018	7,360	18	0.02	208,412
5/24/2018	8,300	18	0.00	235,030
5/25/2018	8,730	18	0.08	247,206
5/26/2018	7,540	18	0.08	213,509
5/27/2018	5,200	17	0.14	147,248
5/28/2018	3,710	17	2.15	105,056
5/29/2018	3,800	17	0.77	107,604
5/30/2018	4,280	17	0.01	121,196
5/31/2018	5,230	17	0.06	148,097
6/1/2018	6,800	18	0.01	192,555
6/2/2018	7,360	18	0.04	208,412
6/3/2018	6,050	18	0.00	171,317
6/4/2018	4,450	17	0.00	126,010
6/5/2018	3,170	17	0.00	89,764
6/6/2018	2,340	16	0.00	66,261
6/7/2018	1,830	16	0.03	51,820
6/8/2018	1,480	16	0.00	41,909
6/9/2018	1,290	15	1.00	36,529
6/10/2018	1,200	15	0.01	33,980
6/11/2018	1,070	15	0.60	30,299
6/12/2018	1,440	16	0.02	40,776
6/13/2018	2,120	16	0.00	60,032

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
6/14/2018	2,030	16	0.36	57,483
6/15/2018	1,660	16	0.00	47,006
6/16/2018	1,420	16	0.00	40,210
6/17/2018	1,230	15	0.00	34,830
6/18/2018	1,100	15	0.00	31,149
6/19/2018	1,050	15	0.00	29,733
6/20/2018	988	15	0.00	27,977
6/21/2018	948	15	0.00	26,844
6/22/2018	1,000	15	0.02	28,317
6/23/2018	1,000	15	0.12	28,317
6/24/2018	973	15	1.37	27,552
6/25/2018	1,040	15	0.95	29,450
6/26/2018	1,260	15	1.06	35,679
6/27/2018	1,920	16	0.00	54,368
6/28/2018	2,370	16	0.00	67,111
6/29/2018	2,530	16	0.00	71,642
6/30/2018	2,150	16	0.07	60,881
7/1/2018	1,660	16	0.05	47,006
7/2/2018	1,340	15	0.00	37,945
7/3/2018	1,110	15	0.00	31,432
7/4/2018	954	15	0.00	27,014
7/5/2018	859	15	0.37	24,324
7/6/2018	852	15	0.01	24,126
7/7/2018	965	15	0.00	27,326
7/8/2018	1,290	15	0.00	36,529
7/9/2018	1,670	16	0.00	47,289
7/10/2018	1,670	16	0.00	47,289
7/11/2018	1,520	16	0.00	43,042
7/12/2018	1,190	15	0.54	33,697
7/13/2018	1,050	15	0.01	29,733
7/14/2018	970	15	0.00	27,467
7/15/2018	851	15	0.00	24,098
7/16/2018	792	15	0.00	22,427
7/17/2018	784	15	0.02	22,200
7/18/2018	906	15	0.27	25,655
7/19/2018	1,800	16	0.00	50,970
7/20/2018	1,600	16	0.42	45,307
7/21/2018	1,140	15	0.05	32,281
7/22/2018	926	15	0.00	26,221
7/23/2018	1,960	16	0.11	55,501
7/24/2018	5,140	17	0.63	145,549

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
7/25/2018	6,340	18	0.38	179,529
7/26/2018	5,050	17	0.01	143,000
7/27/2018	4,210	17	0.00	119,214
7/28/2018	3,370	17	0.01	95,428
7/29/2018	3,470	17	0.03	98,259
7/30/2018	3,920	17	0.67	111,002
7/31/2018	4,350	17	0.09	123,178
8/1/2018	4,550	17	0.31	128,842
8/2/2018	4,420	17	0.88	125,160
8/3/2018	4,290	17	0.10	121,479
8/4/2018	5,250	17	0.09	148,663
8/5/2018	8,980	19	0.12	254,285
8/6/2018	9,550	19	0.01	270,426
8/7/2018	9,010	19	0.00	255,135
8/8/2018	8,620	18	0.14	244,091
8/9/2018	8,390	18	0.00	237,578
8/10/2018	9,610	19	0.00	272,125
8/11/2018	9,570	19	0.22	270,992
8/12/2018	7,910	18	0.00	223,986
8/13/2018	9,060	19	0.19	256,551
8/14/2018	11,300	19	0.02	319,980
8/15/2018	12,500	19	0.00	353,961
8/16/2018	13,300	20	0.00	376,614
8/17/2018	12,500	19	0.11	353,961
8/18/2018	10,200	19	0.02	288,832
8/19/2018	6,960	18	0.00	197,085
8/20/2018	7,680	18	0.00	217,473
8/21/2018	11,300	19	0.00	319,980
8/22/2018	13,800	20	0.00	390,772
8/23/2018	14,600	20	0.02	413,426
8/24/2018	13,700	20	0.00	387,941
8/25/2018	12,100	19	0.00	342,634
8/26/2018	8,090	18	0.00	229,083
8/27/2018	4,930	17	0.00	139,602
8/28/2018	3,310	17	0.00	93,729
8/29/2018	2,200	16	0.00	62,297
8/30/2018	1,680	16	0.00	47,572
8/31/2018	1,470	16	0.00	41,626
9/1/2018	1,370	15	0.00	38,794
9/2/2018	1,420	16	0.00	40,210
9/3/2018	1,610	16	0.16	45,590

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
9/4/2018	1,810	16	0.00	51,253
9/5/2018	1,810	16	0.00	51,253
9/6/2018	1,610	16	0.00	45,590
9/7/2018	1,370	15	0.08	38,794
9/8/2018	1,240	15	0.01	35,113
9/9/2018	1,200	15	0.02	33,980
9/10/2018	1,280	15	0.67	36,246
9/11/2018	1,390	16	0.08	39,360
9/12/2018	1,790	16	0.00	50,687
9/13/2018	2,710	16	0.64	76,739
9/14/2018	3,500	17	6.37	99,109
9/15/2018	11,300	19	9.03	319,980
9/16/2018	27,600	22	6.07	781,545
9/17/2018	43,200	24	2.37	1,223,288
9/18/2018	56,800		0.00	1,608,397
9/19/2018	65,700		0.00	1,860,417
9/20/2018	73,700	30	0.00	2,086,952
9/21/2018	76,300	31	0.00	2,160,575
9/22/2018	75,400	30	0.00	2,135,090
9/23/2018	72,200	30	0.00	2,044,476
9/24/2018	65,800	28	0.00	1,863,249
9/25/2018	56,300	27	0.00	1,594,238
9/26/2018	42,300	24	0.00	1,197,803
9/27/2018	26,200	22	0.00	741,901
9/28/2018	18,000	20	0.00	509,703
9/29/2018	16,000	20	0.00	453,070
9/30/2018	16,200	20	0.00	458,733
10/1/2018	16,400	20	0.00	464,396
10/2/2018	16,000	20	0.00	453,070
10/3/2018	15,100	20	0.00	427,584
10/4/2018	14,300	20	0.00	404,931
10/5/2018	13,600	20	0.00	385,109
10/6/2018	13,000	19	0.04	368,119
10/7/2018	12,300	19	0.00	348,297
10/8/2018	11,600	19	0.07	328,475
10/9/2018	11,100	19	0.00	314,317
10/10/2018	10,400	19	0.16	294,495
10/11/2018	6,420	18	0.13	181,794
10/12/2018	4,530	17	0.00	128,275
10/13/2018	9,740	19	0.00	275,806
10/14/2018	13,500	20	0.00	382,277

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
10/15/2018	14,500	20	0.00	410,594
10/16/2018	13,600	20	0.64	385,109
10/17/2018	12,500	19	0.09	353,961
10/18/2018	12,700	19	0.00	359,624
10/19/2018	12,900	19	0.00	365,287
10/20/2018	12,800	19	0.00	362,456
10/21/2018	12,300	19	0.00	348,297
10/22/2018	11,500	19	0.00	325,644
10/23/2018	10,900	19	0.00	308,654
10/24/2018	9,980	19	0.00	282,602
10/25/2018	8,600	18	0.00	243,525
10/26/2018	7,500	18	0.62	212,376
10/27/2018	7,200	18	0.00	203,881
10/28/2018	9,440	19	0.00	267,311
10/29/2018	12,500	19	0.00	353,961
10/30/2018	13,400	20	0.00	379,446
10/31/2018	12,600	19	0.00	356,792
11/1/2018	10,800	19	0.11	305,822
11/2/2018	8,860	18	0.02	250,887
11/3/2018	6,420	18	0.00	181,794
11/4/2018	5,680	18	0.07	160,840
11/5/2018	6,040	18	0.09	171,034
11/6/2018	6,020	18	0.16	170,467
11/7/2018	7,880	18	0.12	223,137
11/8/2018	10,700	19	0.96	302,990
11/9/2018	10,100	19	0.00	286,000
11/10/2018	9,320	19	0.01	263,913
11/11/2018	8,980	19	0.00	254,285
11/12/2018	8,560	18	0.20	242,392
11/13/2018	9,740	19	0.30	275,806
11/14/2018	15,700	20	0.02	444,574
11/15/2018	20,600	21	0.23	583,327
11/16/2018	27,400	22	0.00	775,882
11/17/2018	34,700	23	0.00	982,595
11/18/2018	39,500	24	0.00	1,118,515
11/19/2018	39,200	24	0.44	1,110,020
11/20/2018	33,800	23	0.00	957,109
11/21/2018	26,500	22	0.00	750,396
11/22/2018	21,600	21	0.01	611,644
11/23/2018	19,200	21	0.00	543,683
11/24/2018	16,700	20	0.49	472,891

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
11/25/2018	15,200	20	0.00	430,416
11/26/2018	15,600	20	0.03	441,743
11/27/2018	16,300	20	0.00	461,565
11/28/2018	16,900	20	0.00	478,555
11/29/2018	17,000	20	0.00	481,386
11/30/2018	17,100	20	0.00	484,218
12/1/2018	17,300	20	0.61	489,881
12/2/2018	17,600	20	0.05	498,377
12/3/2018	18,300	20	0.01	518,198
12/4/2018	19,000	21	0.00	538,020
12/5/2018	19,500	21	0.00	552,179
12/6/2018	19,600	21	0.00	555,010
12/7/2018	19,100	21	0.00	540,852
12/8/2018	17,400	20	0.74	492,713
12/9/2018	14,800	20	1.16	419,089
12/10/2018	14,600	20	0.21	413,426
12/11/2018	17,400	20	0.01	492,713
12/12/2018	19,900	21	0.00	563,505
12/13/2018	21,400	21	0.00	605,981
12/14/2018	21,500	21	1.87	608,812
12/15/2018	20,200	21	0.42	572,000
12/16/2018	19,600	21	0.01	555,010
12/17/2018	20,600	21	0.00	583,327
12/18/2018	21,600	21	0.00	611,644
12/19/2018	21,800	21	0.00	617,307
12/20/2018	20,800	21	0.37	588,990
12/21/2018	18,900	21	0.26	535,188
12/22/2018	17,600	20	0.00	498,377
12/23/2018	18,600	20	0.01	526,693
12/24/2018	19,800	21	0.00	560,674
12/25/2018	20,300	21	0.00	574,832
12/26/2018	19,900	21	0.00	563,505
12/27/2018	18,800	21	0.04	532,357
12/28/2018	18,100	20	0.79	512,535
12/29/2018	17,300	20	0.00	489,881
12/30/2018	17,500	20	0.21	495,545
12/31/2018	19,100	21	0.00	540,852
1/1/2019	20,300	21	0.00	574,832
1/2/2019	21,000	21	0.02	594,654
1/3/2019	21,200	21	0.03	600,317
1/4/2019	21,000	21	0.31	594,654

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
1/5/2019	21,000	21	0.00	594,654
1/6/2019	21,300	21	0.00	603,149
1/7/2019	21,600	21	0.00	611,644
1/8/2019	21,800	21	0.00	617,307
1/9/2019	21,300	21	0.00	603,149
1/10/2019	20,900	21	0.00	591,822
1/11/2019	20,500	21	0.00	580,495
1/12/2019	20,000	21	0.00	566,337
1/13/2019	19,400	21	0.25	549,347
1/14/2019	19,000	21	0.00	538,020
1/15/2019	19,500	21	0.00	552,179
1/16/2019	20,200	21	0.00	572,000
1/17/2019	20,500	21	0.12	580,495
1/18/2019	20,000	21	0.01	566,337
1/19/2019	18,200	20	0.00	515,367
1/20/2019	14,500	20	0.15	410,594
1/21/2019	11,600	19	0.00	328,475
1/22/2019	11,900	19	0.00	336,970
1/23/2019	12,300	19	0.00	348,297
1/24/2019	12,800		0.68	362,456
1/25/2019	14,500		0.00	410,594
1/26/2019	16,700		0.00	472,891
1/27/2019	18,400		0.00	521,030
1/28/2019	17,900		0.00	506,872
1/29/2019	16,200		0.00	458,733
1/30/2019	14,800	20	0.00	419,089
1/31/2019	13,600	19	0.00	385,109
2/1/2019	12,500	19	0.00	353,961
2/2/2019	10,200	19	0.00	288,832
2/3/2019	7,860	18	0.11	222,570
2/4/2019	6,900	18	0.01	195,386
2/5/2019	6,360	17	0.00	180,095
2/6/2019	5,740	17	0.00	162,539
2/7/2019	5,310	17	0.00	150,362
2/8/2019	5,110	17	0.00	144,699
2/9/2019	4,820	17	0.00	136,487
2/10/2019	4,430	17	0.00	125,444
2/11/2019	4,230	17	0.47	119,780
2/12/2019	4,300	17	0.01	121,762
2/13/2019	4,750	17	0.03	134,505
2/14/2019	5,350	17	0.00	151,495

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
2/15/2019	5,960	17	0.00	168,768
2/16/2019	7,210	18	0.25	204,164
2/17/2019	8,680	18	0.00	245,790
2/18/2019	11,300	19	0.02	319,980
2/19/2019	13,000	19	0.10	368,119
2/20/2019	14,100	20	0.20	399,268
2/21/2019	14,700	20	0.00	416,258
2/22/2019	15,700	20	0.14	444,574
2/23/2019	17,100	20	0.10	484,218
2/24/2019	18,600	21	0.01	526,693
2/25/2019	19,900	21	0.00	563,505
2/26/2019	21,100	21	0.00	597,485
2/27/2019	21,800	21	0.00	617,307
2/28/2019	20,600	21	0.00	583,327
3/1/2019	18,500	20	0.53	523,862
3/2/2019	16,900	20	0.15	478,555
3/3/2019	16,500	20	0.51	467,228
3/4/2019	16,800	20	0.09	475,723
3/5/2019	17,000	20	0.28	481,386
3/6/2019	17,700	20	0.00	501,208
3/7/2019	17,500	20	0.00	495,545
3/8/2019	16,000	20	0.24	453,070
3/9/2019	15,400	20	0.02	436,079
3/10/2019	15,900	20	0.00	450,238
3/11/2019	16,700	20	0.00	472,891
3/12/2019	17,200	20	0.00	487,050
3/13/2019	17,400	20	0.00	492,713
3/14/2019	17,400	20	0.00	492,713
3/15/2019	17,100	20	0.00	484,218
3/16/2019	16,700	20	0.00	472,891
3/17/2019	16,400	20	0.00	464,396
3/18/2019	16,100	20	0.00	455,901
3/19/2019	15,900	20	0.00	450,238
3/20/2019	15,500	20	0.23	438,911
3/21/2019	14,500	20	0.22	410,594
3/22/2019	12,900	19	0.01	365,287
3/23/2019	13,600	19	0.00	385,109
3/24/2019	14,400	20	0.00	407,763
3/25/2019	13,300	19	0.01	376,614
3/26/2019	11,700	19	0.05	331,307
3/27/2019	11,400	19	0.00	322,812

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
3/28/2019	11,900	19	0.00	336,970
3/29/2019	12,000	19	0.00	339,802
3/30/2019	11,400	19	0.00	322,812
3/31/2019	8,160	18	0.00	231,065
4/1/2019	5,650	17	0.00	159,990
4/2/2019	5,160	17	1.21	146,115
4/3/2019	6,220	17	0.00	176,131
4/4/2019	7,180	18	0.00	203,315
4/5/2019	7,280	18	1.24	206,147
4/6/2019	8,090	18	0.07	229,083
4/7/2019	9,490	18	0.00	268,727
4/8/2019	11,200	19	0.00	317,149
4/9/2019	10,700	19	0.02	302,990
4/10/2019	12,600	19	0.00	356,792
4/11/2019	15,800	20	0.00	447,406
4/12/2019	16,500	20	0.65	467,228
4/13/2019	15,800	20	0.04	447,406
4/14/2019	17,100	20	0.01	484,218
4/15/2019	19,500	21	0.00	552,179
4/16/2019	21,100	21	0.00	597,485
4/17/2019	21,900	21	0.00	620,139
4/18/2019	20,800	21	0.00	588,990
4/19/2019	17,300	20	1.35	489,881
4/20/2019	13,300	19	0.00	376,614
4/21/2019	12,000	19	0.00	339,802
4/22/2019	13,000	19	0.00	368,119
4/23/2019	12,400	19	0.00	351,129
4/24/2019	13,000	19	0.00	368,119
4/25/2019	13,800	20	0.00	390,772
4/26/2019	14,000	20	0.07	396,436
4/27/2019	13,700	20	0.00	387,941
4/28/2019	13,300	19	0.00	376,614
4/29/2019	12,900	19	0.00	365,287
4/30/2019	12,500	19	0.00	353,961
5/1/2019	12,200	19	0.00	345,466
5/2/2019	11,800	19	0.00	334,139
5/3/2019	11,600	19	0.00	328,475
5/4/2019	11,300	19	0.00	319,980
5/5/2019	10,600	19	0.13	300,159
5/6/2019	10,200	19	0.00	288,832
5/7/2019	10,500	19	0.00	297,327

SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
5/8/2019	10,100	19	0.00	286,000
5/9/2019	8,000	18	0.00	226,535
5/10/2019	5,390	17	0.00	152,628
5/11/2019	3,740	17	0.00	105,905
5/12/2019	3,070	16	0.16	86,933
5/13/2019	2,910	16	0.00	82,402
5/14/2019	2,870	16	0.00	81,269
5/15/2019	2,990	16	0.00	84,667
5/16/2019	3,120	16	0.00	88,349
5/17/2019	3,260	16	0.00	92,313
5/18/2019	3,190	16	0.00	90,331
5/19/2019	2,730	16	0.00	77,305
5/20/2019	2,320	16	0.00	65,695
5/21/2019	2,110	16	0.00	59,749
5/22/2019	1,920	16	0.00	54,368
5/23/2019	1,790	16	0.00	50,687
5/24/2019	1,700	15	0.00	48,139
5/25/2019	1,590	15	0.00	45,024
5/26/2019	1,550	15	0.00	43,891
5/27/2019	1,440	15	0.00	40,776
5/28/2019	1,380	15	0.00	39,077
5/29/2019	1,340	15	0.00	37,945
5/30/2019	1,280	15	0.00	36,246
5/31/2019	1,280	15	0.01	36,246
6/1/2019	1,320	15	0.00	37,378
6/2/2019	1,290	15	0.00	36,529
6/3/2019	1,240	15	0.00	35,113
6/4/2019	1,120	15	0.00	31,715
6/5/2019	1,020	15	0.05	28,883
6/6/2019	1,220	15	0.01	34,547
6/7/2019	1,360	15	0.54	38,511
6/8/2019	1,490	15	1.40	42,192
6/9/2019	2,090	16	0.59	59,182
6/10/2019	4,140	17	0.03	117,232
6/11/2019	8,110	18	0.01	229,650
6/12/2019	10,300	19	0.16	291,664
6/13/2019	10,400	19	0.19	294,495
6/14/2019	9,290	18	0.00	263,064
6/15/2019	8,460	18	0.00	239,561
6/16/2019	8,180	18	0.00	231,632
6/17/2019	7,750	18	0.00	219,456

APPENDIX B-3
SUMMARY OF FLOW IN CAPE FEAR RIVER AT LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	USGS Reported Average Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)
6/18/2019	7,040	18	0.06	199,351
6/19/2019	6,400	18	0.00	181,228
6/20/2019	4,990	17	0.03	141,301
6/21/2019	3,820	17	0.00	108,170
6/22/2019	3,310	16	0.06	93,729
6/23/2019	3,020	16	0.00	85,517
6/24/2019	2,800	16	0.00	79,287
6/25/2019	3,190	16	0.00	90,331
6/26/2019	3,490	16	0.00	98,826
6/27/2019	2,910	16	0.00	82,402
6/28/2019	2,080	16	0.00	58,899
6/29/2019	1,600	15	0.00	45,307
6/30/2019	1,380	15	0.00	39,077
7/1/2019	1,320	15	0.00	37,378
7/2/2019	1,260	15	0.00	35,679
7/3/2019	1,230	15	1.07	34,830
7/4/2019	1,270	15	0.06	35,962
7/5/2019	2,030	16	0.36	57,483
7/6/2019	2,600	16	0.03	73,624
7/7/2019	2,330	16	0.01	65,978
7/8/2019	1,920	16	1.58	54,368
7/9/2019	2,020	16	2.36	57,200
7/10/2019	2,310	16	0.00	65,412
7/11/2019	2,250	16	0.25	63,713
7/12/2019	2,130	16	0.00	60,315
7/13/2019	3,050	16	2.67	86,366
7/14/2019	3,410	16	0.00	96,560
7/15/2019	2,810	16	0.00	79,570
7/16/2019	2,370	16	0.00	67,111
7/17/2019	1,920	16	0.00	54,368
7/18/2019	1,580	15	0.08	44,741
7/19/2019	1,380	15	0.00	39,077
7/20/2019	1,430	15	0.00	40,493
7/21/2019	1,380	15	0.00	39,077
7/22/2019	1,350	15	0.00	38,228
7/23/2019	1,460	15	0.68	41,343
7/24/2019	1,840	16	0.00	52,103

Notes:

1) Measurements are recorded from the USGS flow gauging station at the Lock #1 near Kelly, ID 02105769 (USGS, 2019).

2) The minimum value recorded by a USGS raingage is 0.01 inches. Anything detected below this threshold is recorded as 0 inches.

cfs: cubic feet per L/s: Liter per second.

ft: feet. USGS - United States Geological Survey.

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
1/1/2017	11.6	509
1/2/2017	14.3	626
1/3/2017	14.0	613
1/4/2017	10.8	474
1/5/2017	11.4	500
1/6/2017	16.2	710
1/7/2017	17.5	766
1/8/2017	16.0	702
1/9/2017	15.6	681
1/10/2017	15.7	687
1/11/2017	16.2	710
1/12/2017	15.7	688
1/13/2017	15.6	684
1/14/2017	15.9	696
1/15/2017	15.7	687
1/16/2017	15.8	693
1/17/2017	15.9	696
1/18/2017	15.5	680
1/19/2017	16.6	729
1/20/2017	16.0	699
1/21/2017	15.8	693
1/22/2017	15.0	659
1/23/2017	15.6	685
1/24/2017	16.1	706
1/25/2017	15.6	685
1/26/2017	17.3	758
1/27/2017	14.3	625
1/28/2017	16.1	703
1/29/2017	15.8	694
1/30/2017	16.2	708
1/31/2017	15.5	679
2/1/2017	15.4	674
2/2/2017	16.0	699
2/3/2017	15.5	680
2/4/2017	16.2	712
2/5/2017	15.5	677
2/6/2017	16.0	701
2/7/2017	15.8	693
2/8/2017	14.7	642

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
2/9/2017	11.3	495
2/10/2017	11.2	490
2/11/2017	9.6	419
2/12/2017	9.7	425
2/13/2017	10.7	470
2/14/2017	10.4	456
2/15/2017	12.3	539
2/16/2017	11.6	509
2/17/2017	11.0	482
2/18/2017	10.9	477
2/19/2017	10.1	441
2/20/2017	10.0	436
2/21/2017	11.6	510
2/22/2017	9.7	424
2/23/2017	9.9	433
2/24/2017	15.7	686
2/25/2017	17.0	744
2/26/2017	15.9	696
2/27/2017	17.1	749
2/28/2017	17.7	775
3/1/2017	18.2	797
3/2/2017	17.8	780
3/3/2017	16.6	727
3/4/2017	15.9	697
3/5/2017	12.9	564
3/6/2017	12.2	532
3/7/2017	12.4	544
3/8/2017	15.1	661
3/9/2017	12.3	539
3/10/2017	11.2	491
3/11/2017	9.5	417
3/12/2017	10.5	461
3/13/2017	14.6	638
3/14/2017	10.9	477
3/15/2017	12.3	538
3/16/2017	13.6	596
3/17/2017	14.3	626
3/18/2017	13.5	594
3/19/2017	14.1	617
3/20/2017	13.5	591

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
3/21/2017	10.6	465
3/22/2017	10.3	450
3/23/2017	10.8	473
3/24/2017	12.0	526
3/25/2017	10.6	464
3/26/2017	12.6	554
3/27/2017	13.5	590
3/28/2017	12.4	542
3/29/2017	10.9	477
3/30/2017	14.8	646
3/31/2017	14.8	650
4/1/2017	11.5	503
4/2/2017	13.1	574
4/3/2017	11.9	523
4/4/2017	10.8	474
4/5/2017	12.8	560
4/6/2017	12.4	542
4/7/2017	12.2	535
4/8/2017	13.4	589
4/9/2017	19.9	873
4/10/2017	20.6	901
4/11/2017	20.5	898
4/12/2017	21.8	954
4/13/2017	20.9	915
4/14/2017	22.2	972
4/15/2017	20.6	904
4/16/2017	20.7	909
4/17/2017	20.5	898
4/18/2017	19.5	854
4/19/2017	18.5	810
4/20/2017	19.9	872
4/21/2017	19.2	840
4/22/2017	19.7	863
4/23/2017	18.0	791
4/24/2017	25.5	1,117
4/25/2017	13.9	609
4/26/2017	10.6	463
4/27/2017	9.9	434
4/28/2017	11.8	519
4/29/2017	11.8	516

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
4/30/2017	16.2	709
5/1/2017	17.5	766
5/2/2017	16.4	720
5/3/2017	16.5	723
5/4/2017	18.9	826
5/5/2017	19.1	837
5/6/2017	14.9	655
5/7/2017	15.0	656
5/8/2017	17.0	746
5/9/2017	15.6	684
5/10/2017	17.5	768
5/11/2017	15.9	697
5/12/2017	18.5	810
5/13/2017	14.6	639
5/14/2017	15.7	688
5/15/2017	23.5	1,031
5/16/2017	29.6	1,297
5/17/2017	20.7	909
5/18/2017	22.9	1,005
5/19/2017	22.0	962
5/20/2017	22.6	989
5/21/2017	23.4	1,024
5/22/2017	25.3	1,107
5/23/2017	23.4	1,026
5/24/2017	24.0	1,050
5/25/2017	22.2	972
5/26/2017	21.6	948
5/27/2017	21.9	961
5/28/2017	23.3	1,020
5/29/2017	21.5	942
5/30/2017	22.5	984
5/31/2017	21.7	949
6/1/2017	21.1	924
6/2/2017	22.5	987
6/3/2017	21.8	953
6/4/2017	22.0	965
6/5/2017	26.5	1,160
6/6/2017	22.4	983
6/7/2017	22.1	967
6/8/2017	21.4	938

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
6/9/2017	21.6	948
6/10/2017	21.5	941
6/11/2017	22.0	962
6/12/2017	22.7	994
6/13/2017	22.4	983
6/14/2017	22.1	969
6/15/2017	24.3	1,063
6/16/2017	23.8	1,045
6/17/2017	23.8	1,044
6/18/2017	22.9	1,005
6/19/2017	22.9	1,005
6/20/2017	23.9	1,049
6/21/2017	19.0	832
6/22/2017	22.8	1,000
6/23/2017	22.2	973
6/24/2017	26.8	1,172
6/25/2017	21.6	946
6/26/2017	20.6	902
6/27/2017	21.3	934
6/28/2017	19.4	852
6/29/2017	21.0	919
6/30/2017	24.8	1,085
7/1/2017	21.7	949
7/2/2017	22.1	969
7/3/2017	23.3	1,023
7/4/2017	21.8	956
7/5/2017	23.7	1,039
7/6/2017	23.7	1,039
7/7/2017	24.3	1,063
7/8/2017	24.7	1,082
7/9/2017	23.6	1,032
7/10/2017	25.0	1,095
7/11/2017	23.6	1,032
7/12/2017	24.1	1,057
7/13/2017	24.0	1,052
7/14/2017	23.7	1,037
7/15/2017	24.1	1,057
7/16/2017	24.0	1,052
7/17/2017	24.2	1,062
7/18/2017	24.4	1,068

APPENDIX B-4

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES

Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
7/19/2017	24.2	1,060
7/20/2017	24.5	1,073
7/21/2017	24.5	1,071
7/22/2017	25.0	1,096
7/23/2017	23.9	1,046
7/24/2017	26.8	1,175
7/25/2017	22.4	981
7/26/2017	24.5	1,075
7/27/2017	24.8	1,087
7/28/2017	24.5	1,074
7/29/2017	24.0	1,051
7/30/2017	25.2	1,102
7/31/2017	23.8	1,043
8/1/2017	23.5	1,028
8/2/2017	22.1	966
8/3/2017	23.1	1,011
8/4/2017	23.2	1,016
8/5/2017	23.6	1,035
8/6/2017	23.9	1,045
8/7/2017	24.4	1,068
8/8/2017	24.5	1,072
8/9/2017	22.6	991
8/10/2017	23.8	1,044
8/11/2017	24.1	1,056
8/12/2017	23.7	1,039
8/13/2017	27.0	1,181
8/14/2017	23.6	1,034
8/15/2017	23.1	1,012
8/16/2017	25.0	1,097
8/17/2017	25.6	1,121
8/18/2017	25.0	1,097
8/19/2017	24.7	1,081
8/20/2017	26.8	1,174
8/21/2017	24.9	1,089
8/22/2017	26.3	1,154
8/23/2017	26.7	1,169
8/24/2017	26.1	1,144
8/25/2017	25.6	1,123
8/26/2017	25.0	1,096
8/27/2017	25.3	1,109

APPENDIX B-4

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES

Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
8/28/2017	25.0	1,094
8/29/2017	24.6	1,079
8/30/2017	25.0	1,096
8/31/2017	25.1	1,099
9/1/2017	26.5	1,160
9/2/2017	24.4	1,069
9/3/2017	24.8	1,085
9/4/2017	22.7	993
9/5/2017	24.8	1,085
9/6/2017	25.0	1,095
9/7/2017	23.9	1,046
9/8/2017	23.5	1,031
9/9/2017	21.1	926
9/10/2017	21.1	924
9/11/2017	21.8	954
9/12/2017	22.2	974
9/13/2017	21.5	944
9/14/2017	22.4	980
9/15/2017	21.1	925
9/16/2017	21.7	951
9/17/2017	21.2	929
9/18/2017	22.3	976
9/19/2017	21.8	956
9/20/2017	22.4	981
9/21/2017	22.1	970
9/22/2017	20.4	894
9/23/2017	17.7	777
9/24/2017	17.6	772
9/25/2017	16.8	737
9/26/2017	19.7	862
9/27/2017	21.9	958
9/28/2017	22.4	983
9/29/2017	21.6	945
9/30/2017	20.8	909
10/1/2017	21.9	961
10/2/2017	19.1	838
10/3/2017	19.0	834
10/4/2017	21.1	927
10/5/2017	21.3	935
10/6/2017	20.5	897

APPENDIX B-4

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES

Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
10/7/2017	25.1	1,100
10/8/2017	22.0	963
10/9/2017	20.5	897
10/10/2017	20.8	910
10/11/2017	20.6	902
10/12/2017	20.3	889
10/13/2017	15.7	690
10/14/2017	14.7	644
10/15/2017	14.6	639
10/16/2017	16.3	713
10/17/2017	4.6	203
10/18/2017	0.0	0
10/19/2017	0.0	0
10/20/2017	0.0	0
10/21/2017	0.0	0
10/22/2017	0.0	0
10/23/2017	0.7	30
10/24/2017	0.0	0
10/25/2017	0.0	0
10/26/2017	0.0	0
10/27/2017	2.2	98
10/28/2017	3.8	167
10/29/2017	8.9	391
10/30/2017	8.9	388
10/31/2017	9.0	392
11/1/2017	10.3	450
11/2/2017	22.0	963
11/3/2017	27.5	1,205
11/4/2017	28.9	1,264
11/5/2017	28.3	1,242
11/6/2017	29.3	1,285
11/7/2017	27.3	1,197
11/8/2017	20.1	883
11/9/2017	24.7	1,080
11/10/2017	24.7	1,083
11/11/2017	23.4	1,026
11/12/2017	24.5	1,074
11/13/2017	24.5	1,075
11/14/2017	24.4	1,069
11/15/2017	24.1	1,056

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
11/16/2017	24.0	1,053
11/17/2017	25.4	1,111
11/18/2017	23.8	1,042
11/19/2017	24.8	1,086
11/20/2017	23.3	1,022
11/21/2017	24.1	1,057
11/22/2017	24.3	1,063
11/23/2017	24.0	1,052
11/24/2017	24.4	1,067
11/25/2017	24.3	1,066
11/26/2017	25.6	1,123
11/27/2017	23.9	1,048
11/28/2017	24.7	1,084
11/29/2017	23.5	1,028
11/30/2017	24.3	1,063
12/1/2017	23.1	1,012
12/2/2017	24.1	1,057
12/3/2017	24.0	1,053
12/4/2017	23.2	1,018
12/5/2017	23.1	1,010
12/6/2017	23.9	1,047
12/7/2017	23.4	1,024
12/8/2017	28.8	1,263
12/9/2017	24.0	1,050
12/10/2017	25.3	1,109
12/11/2017	22.2	974
12/12/2017	23.7	1,037
12/13/2017	23.7	1,040
12/14/2017	23.7	1,039
12/15/2017	23.4	1,023
12/16/2017	24.5	1,072
12/17/2017	24.0	1,052
12/18/2017	24.6	1,076
12/19/2017	24.3	1,066
12/20/2017	25.4	1,111
12/21/2017	12.5	547
12/22/2017	14.2	620
12/23/2017	12.5	547
12/24/2017	13.6	597
12/25/2017	12.3	539

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
12/26/2017	12.4	542
12/27/2017	10.7	468
12/28/2017	15.5	677
12/29/2017	13.1	575
12/30/2017	14.0	613
12/31/2017	13.5	590
1/1/2018	15.9	695
1/2/2018	17.4	762
1/3/2018	19.4	851
1/4/2018	19.5	856
1/5/2018	18.1	793
1/6/2018	20.0	876
1/7/2018	18.1	793
1/8/2018	14.2	621
1/9/2018	13.9	607
1/10/2018	16.2	712
1/11/2018	18.6	815
1/12/2018	19.0	834
1/13/2018	19.9	873
1/14/2018	21.2	930
1/15/2018	16.7	730
1/16/2018	17.2	755
1/17/2018	19.0	831
1/18/2018	15.4	674
1/19/2018	17.3	759
1/20/2018	16.8	736
1/21/2018	16.9	739
1/22/2018	17.4	761
1/23/2018	15.3	669
1/24/2018	18.1	793
1/25/2018	20.9	914
1/26/2018	17.4	760
1/27/2018	18.8	825
1/28/2018	20.7	906
1/29/2018	20.4	896
1/30/2018	18.1	793
1/31/2018	17.8	781
2/1/2018	18.6	814
2/2/2018	19.4	849
2/3/2018	18.4	805

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
2/4/2018	21.2	928
2/5/2018	18.6	814
2/6/2018	19.1	838
2/7/2018	18.5	811
2/8/2018	16.3	715
2/9/2018	18.7	817
2/10/2018	19.6	858
2/11/2018	19.6	858
2/12/2018	18.8	824
2/13/2018	19.1	836
2/14/2018	19.4	848
2/15/2018	19.3	846
2/16/2018	19.4	849
2/17/2018	19.8	868
2/18/2018	19.5	853
2/19/2018	19.5	854
2/20/2018	18.9	830
2/21/2018	19.3	845
2/22/2018	18.4	808
2/23/2018	11.6	508
2/24/2018	10.8	472
2/25/2018	10.9	479
2/26/2018	10.7	470
2/27/2018	11.0	481
2/28/2018	11.1	486
3/1/2018	12.0	528
3/2/2018	11.2	493
3/3/2018	10.1	441
3/4/2018	11.8	515
3/5/2018	7.9	345
3/6/2018	9.8	427
3/7/2018	9.4	410
3/8/2018	9.3	407
3/9/2018	9.0	396
3/10/2018	9.2	405
3/11/2018	9.7	424
3/12/2018	10.6	462
3/13/2018	9.1	400
3/14/2018	9.0	395
3/15/2018	9.6	421

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
3/16/2018	10.2	447
3/17/2018	12.2	536
3/18/2018	13.9	610
3/19/2018	13.1	572
3/20/2018	12.0	527
3/21/2018	12.6	552
3/22/2018	14.1	618
3/23/2018	13.5	593
3/24/2018	12.1	530
3/25/2018	13.3	581
3/26/2018	13.7	601
3/27/2018	12.8	563
3/28/2018	12.6	553
3/29/2018	12.7	554
3/30/2018	14.3	626
3/31/2018	16.2	711
4/1/2018	16.3	715
4/2/2018	17.4	764
4/3/2018	18.6	814
4/4/2018	18.0	788
4/5/2018	18.1	793
4/6/2018	18.8	826
4/7/2018	19.3	846
4/8/2018	15.7	690
4/9/2018	17.9	784
4/10/2018	16.8	735
4/11/2018	16.5	723
4/12/2018	14.8	649
4/13/2018	15.3	672
4/14/2018	18.6	815
4/15/2018	18.6	815
4/16/2018	19.4	848
4/17/2018	18.8	825
4/18/2018	16.4	719
4/19/2018	23.6	1,035
4/20/2018	17.3	756
4/21/2018	21.2	930
4/22/2018	20.4	896
4/23/2018	19.8	867
4/24/2018	16.0	703

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
4/25/2018	14.2	620
4/26/2018	12.5	548
4/27/2018	18.4	808
4/28/2018	17.4	760
4/29/2018	17.8	782
4/30/2018	18.1	793
5/1/2018	17.5	767
5/2/2018	19.8	866
5/3/2018	20.5	899
5/4/2018	20.9	917
5/5/2018	21.4	939
5/6/2018	22.3	975
5/7/2018	21.0	919
5/8/2018	20.2	883
5/9/2018	22.9	1,004
5/10/2018	20.8	910
5/11/2018	21.6	948
5/12/2018	21.9	959
5/13/2018	20.0	878
5/14/2018	21.6	948
5/15/2018	20.4	892
5/16/2018	20.1	878
5/17/2018	23.1	1,013
5/18/2018	21.0	919
5/19/2018	20.9	915
5/20/2018	19.4	851
5/21/2018	20.7	905
5/22/2018	20.2	885
5/23/2018	19.4	852
5/24/2018	30.0	1,313
5/25/2018	22.2	973
5/26/2018	23.9	1,046
5/27/2018	22.8	998
5/28/2018	24.2	1,061
5/29/2018	24.1	1,057
5/30/2018	22.7	995
5/31/2018	22.7	994
6/1/2018	23.1	1,014
6/2/2018	22.2	975
6/3/2018	23.0	1,008

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
6/4/2018	22.7	993
6/5/2018	22.5	986
6/6/2018	22.0	963
6/7/2018	22.2	972
6/8/2018	23.7	1,037
6/9/2018	22.4	982
6/10/2018	22.7	997
6/11/2018	25.0	1,095
6/12/2018	24.9	1,090
6/13/2018	22.6	988
6/14/2018	23.5	1,029
6/15/2018	22.9	1,005
6/16/2018	22.3	979
6/17/2018	23.6	1,032
6/18/2018	23.5	1,030
6/19/2018	21.7	951
6/20/2018	30.3	1,327
6/21/2018	20.2	884
6/22/2018	26.1	1,142
6/23/2018	25.4	1,113
6/24/2018	25.8	1,130
6/25/2018	26.1	1,145
6/26/2018	29.3	1,285
6/27/2018	26.2	1,147
6/28/2018	26.5	1,161
6/29/2018	28.1	1,231
6/30/2018	28.1	1,232
7/1/2018	28.3	1,239
7/2/2018	26.6	1,165
7/3/2018	25.2	1,105
7/4/2018	26.2	1,150
7/5/2018	27.1	1,186
7/6/2018	26.3	1,151
7/7/2018	26.1	1,142
7/8/2018	25.4	1,114
7/9/2018	27.0	1,182
7/10/2018	26.2	1,146
7/11/2018	26.1	1,141
7/12/2018	26.4	1,158
7/13/2018	25.5	1,118

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
7/14/2018	26.8	1,174
7/15/2018	27.7	1,212
7/16/2018	26.0	1,140
7/17/2018	27.3	1,195
7/18/2018	27.0	1,183
7/19/2018	27.3	1,195
7/20/2018	28.7	1,256
7/21/2018	27.8	1,220
7/22/2018	27.2	1,193
7/23/2018	32.4	1,420
7/24/2018	23.3	1,019
7/25/2018	28.3	1,241
7/26/2018	25.4	1,111
7/27/2018	29.4	1,290
7/28/2018	28.6	1,254
7/29/2018	29.0	1,271
7/30/2018	29.0	1,270
7/31/2018	27.7	1,214
8/1/2018	27.7	1,212
8/2/2018	27.5	1,205
8/3/2018	28.3	1,238
8/4/2018	24.4	1,071
8/5/2018	23.2	1,017
8/6/2018	23.7	1,037
8/7/2018	25.9	1,134
8/8/2018	26.5	1,161
8/9/2018	23.0	1,006
8/10/2018	26.4	1,155
8/11/2018	25.7	1,125
8/12/2018	26.7	1,169
8/13/2018	24.6	1,080
8/14/2018	25.9	1,135
8/15/2018	26.2	1,147
8/16/2018	25.1	1,100
8/17/2018	25.3	1,107
8/18/2018	25.0	1,095
8/19/2018	25.2	1,105
8/20/2018	27.0	1,183
8/21/2018	24.6	1,076
8/22/2018	25.8	1,131

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
8/23/2018	23.4	1,027
8/24/2018	25.5	1,119
8/25/2018	22.9	1,004
8/26/2018	26.0	1,138
8/27/2018	25.4	1,114
8/28/2018	27.0	1,183
8/29/2018	26.7	1,171
8/30/2018	26.5	1,159
8/31/2018	28.4	1,243
9/1/2018	26.3	1,150
9/2/2018	26.9	1,178
9/3/2018	28.8	1,262
9/4/2018	27.8	1,218
9/5/2018	28.3	1,239
9/6/2018	30.1	1,317
9/7/2018	25.2	1,104
9/8/2018	28.0	1,227
9/9/2018	25.4	1,112
9/10/2018	30.1	1,320
9/11/2018	28.0	1,225
9/12/2018	15.5	681
9/13/2018	14.1	618
9/14/2018	24.1	1,057
9/15/2018	32.0	1,403
9/16/2018	48.3	2,117
9/17/2018	11.4	500
9/18/2018	12.7	557
9/19/2018	18.4	804
9/20/2018	18.6	815
9/21/2018	18.1	792
9/22/2018	17.9	786
9/23/2018	23.4	1,026
9/24/2018	22.9	1,005
9/25/2018	22.7	993
9/26/2018	22.9	1,002
9/27/2018	25.9	1,133
9/28/2018	23.3	1,020
9/29/2018	24.8	1,086
9/30/2018	23.8	1,043
10/1/2018	23.3	1,021

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
10/2/2018	24.6	1,078
10/3/2018	22.9	1,003
10/4/2018	22.9	1,003
10/5/2018	23.3	1,022
10/6/2018	24.7	1,080
10/7/2018	24.4	1,070
10/8/2018	22.5	984
10/9/2018	18.2	795
10/10/2018	16.6	728
10/11/2018	18.5	810
10/12/2018	3.0	133
10/13/2018	0.0	0
10/14/2018	0.0	0
10/15/2018	0.0	0
10/16/2018	0.0	0
10/17/2018	0.0	0
10/18/2018	0.0	0
10/19/2018	0.0	0
10/20/2018	0.0	0
10/21/2018	0.0	0
10/22/2018	21.6	946
10/23/2018	21.6	946
10/24/2018	21.6	946
10/25/2018	21.6	946
10/26/2018	21.6	946
10/27/2018	21.6	946
10/28/2018	21.6	946
10/29/2018	21.6	946
10/30/2018	21.6	946
10/31/2018	19.0	832
11/1/2018	18.3	803
11/2/2018	19.8	869
11/3/2018	19.3	845
11/4/2018	19.5	854
11/5/2018	19.7	863
11/6/2018	20.8	912
11/7/2018	19.1	835
11/8/2018	22.0	963
11/9/2018	21.8	953
11/10/2018	21.0	921

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
11/11/2018	22.2	972
11/12/2018	30.6	1,342
11/13/2018	22.5	986
11/14/2018	22.7	995
11/15/2018	21.5	944
11/16/2018	22.1	968
11/17/2018	21.7	949
11/18/2018	21.0	919
11/19/2018	21.2	931
11/20/2018	21.6	948
11/21/2018	21.2	928
11/22/2018	21.7	951
11/23/2018	22.1	968
11/24/2018	23.9	1,047
11/25/2018	19.3	844
11/26/2018	19.3	845
11/27/2018	19.4	851
11/28/2018	19.7	865
11/29/2018	19.9	872
11/30/2018	20.1	882
12/1/2018	22.4	981
12/2/2018	19.9	870
12/3/2018	18.4	807
12/4/2018	19.0	831
12/5/2018	19.2	840
12/6/2018	19.2	842
12/7/2018	19.7	862
12/8/2018	21.0	918
12/9/2018	23.4	1,026
12/10/2018	20.4	893
12/11/2018	20.1	881
12/12/2018	19.0	834
12/13/2018	19.7	862
12/14/2018	26.1	1,144
12/15/2018	20.7	906
12/16/2018	20.2	883
12/17/2018	21.0	921
12/18/2018	14.9	653
12/19/2018	17.5	766
12/20/2018	19.3	847

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
12/21/2018	17.8	779
12/22/2018	18.4	807
12/23/2018	18.9	829
12/24/2018	17.3	759
12/25/2018	18.4	805
12/26/2018	18.4	804
12/27/2018	17.7	778
12/28/2018	18.7	821
12/29/2018	18.9	826
12/30/2018	16.8	738
12/31/2018	17.8	779
1/1/2019	18.3	802
1/2/2019	18.1	793
1/3/2019	18.5	811
1/4/2019	20.8	912
1/5/2019	18.5	811
1/6/2019	18.4	808
1/7/2019	18.7	819
1/8/2019	18.9	829
1/9/2019	18.8	823
1/10/2019	18.6	815
1/11/2019	18.2	795
1/12/2019	19.6	860
1/13/2019	19.1	838
1/14/2019	19.5	855
1/15/2019	18.6	815
1/16/2019	19.0	831
1/17/2019	19.7	863
1/18/2019	19.6	857
1/19/2019	20.2	885
1/20/2019	20.1	880
1/21/2019	20.1	880
1/22/2019	18.7	819
1/23/2019	21.8	953
1/24/2019	17.4	761
1/25/2019	18.9	826
1/26/2019	19.5	854
1/27/2019	18.5	811
1/28/2019	19.0	832
1/29/2019	18.8	825

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
1/30/2019	18.8	823
1/31/2019	12.8	560
2/1/2019	25.1	1,099
2/2/2019	19.2	842
2/3/2019	19.1	836
2/4/2019	18.7	821
2/5/2019	18.4	805
2/6/2019	20.5	899
2/7/2019	17.6	773
2/8/2019	19.2	843
2/9/2019	19.3	846
2/10/2019	19.6	858
2/11/2019	19.2	839
2/12/2019	21.6	947
2/13/2019	21.3	933
2/14/2019	22.3	976
2/15/2019	23.5	1,031
2/16/2019	22.2	973
2/17/2019	23.2	1,015
2/18/2019	22.0	962
2/19/2019	22.5	987
2/20/2019	22.8	1,001
2/21/2019	23.8	1,043
2/22/2019	23.7	1,037
2/23/2019	25.0	1,094
2/24/2019	20.1	883
2/25/2019	23.6	1,034
2/26/2019	22.9	1,005
2/27/2019	23.0	1,010
2/28/2019	22.8	999
3/1/2019	24.1	1,057
3/2/2019	23.1	1,011
3/3/2019	25.7	1,125
3/4/2019	23.8	1,042
3/5/2019	22.8	999
3/6/2019	23.9	1,047
3/7/2019	22.8	1,000
3/8/2019	24.0	1,049
3/9/2019	22.2	974
3/10/2019	23.5	1,031

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
3/11/2019	23.3	1,021
3/12/2019	22.9	1,004
3/13/2019	22.7	993
3/14/2019	23.0	1,006
3/15/2019	23.9	1,045
3/16/2019	23.0	1,006
3/17/2019	22.7	994
3/18/2019	22.6	990
3/19/2019	22.7	995
3/20/2019	22.0	964
3/21/2019	22.1	969
3/22/2019	21.0	921
3/23/2019	22.9	1,004
3/24/2019	20.9	917
3/25/2019	21.7	953
3/26/2019	21.3	935
3/27/2019	21.3	933
3/28/2019	21.9	961
3/29/2019	22.0	964
3/30/2019	21.8	954
3/31/2019	23.1	1,014
4/1/2019	19.4	848
4/2/2019	22.9	1,005
4/3/2019	21.2	927
4/4/2019	22.7	994
4/5/2019	23.9	1,046
4/6/2019	22.2	972
4/7/2019	20.6	904
4/8/2019	21.2	929
4/9/2019	21.1	925
4/10/2019	22.2	971
4/11/2019	22.5	985
4/12/2019	23.2	1,016
4/13/2019	23.0	1,009
4/14/2019	22.7	996
4/15/2019	21.9	962
4/16/2019	22.0	964
4/17/2019	22.3	978
4/18/2019	21.6	945
4/19/2019	22.7	994

APPENDIX B-4
SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
4/20/2019	22.7	994
4/21/2019	21.8	955
4/22/2019	21.2	930
4/23/2019	21.6	947
4/24/2019	21.1	922
4/25/2019	21.1	926
4/26/2019	22.5	984
4/27/2019	20.5	899
4/28/2019	21.0	921
4/29/2019	20.7	907
4/30/2019	22.4	983
5/1/2019	22.6	989
5/2/2019	21.4	936
5/3/2019	21.9	958
5/4/2019	24.4	1,070
5/5/2019	21.4	939
5/6/2019	21.9	961
5/7/2019	22.0	964
5/8/2019	23.4	1,026
5/9/2019	22.4	979
5/10/2019	23.8	1,044
5/11/2019	22.3	978
5/12/2019	23.1	1,014
5/13/2019	16.8	735
5/14/2019	23.6	1,034
5/15/2019	20.7	905
5/16/2019	20.8	913
5/17/2019	22.2	971
5/18/2019	21.3	934
5/19/2019	23.0	1,006
5/20/2019	22.2	971
5/21/2019	23.6	1,034
5/22/2019	23.4	1,027
5/23/2019	24.4	1,071
5/24/2019	24.5	1,076
5/25/2019	25.1	1,098
5/26/2019	25.2	1,105
5/27/2019	25.3	1,107
5/28/2019	24.7	1,082
5/29/2019	25.9	1,134

SUMMARY OF OUTFALL 002 DAILY DISCHARGE RATES
Chemours Fayetteville Works, North Carolina

Date	Outfall 002 Flow (MGD)*	Outfall 002 Flow (L/s)
5/30/2019	27.4	1,200
5/31/2019	27.0	1,182
6/1/2019	25.3	1,108
6/2/2019	27.0	1,181
6/3/2019	26.9	1,177
6/4/2019	26.0	1,139
6/5/2019	27.7	1,214
6/6/2019	27.2	1,192
6/7/2019	26.4	1,155
6/8/2019	26.2	1,150
6/9/2019	33.5	1,466
6/10/2019	28.9	1,267
6/11/2019	28.9	1,267
6/12/2019	26.4	1,155
6/13/2019	25.1	1,099
6/14/2019	23.8	1,044
6/15/2019	24.2	1,059
6/16/2019	24.3	1,064
6/17/2019	24.0	1,053
6/18/2019	24.3	1,065
6/19/2019	24.3	1,063
6/20/2019	23.1	1,010
6/21/2019	24.3	1,064
6/22/2019	24.2	1,060
6/23/2019	23.6	1,035
6/24/2019	24.1	1,057
6/25/2019	23.2	1,017
6/26/2019	23.8	1,044
6/27/2019	24.2	1,061
6/28/2019	24.2	1,061
6/29/2019	23.8	1,043
6/30/2019	23.3	1,022

Notes:

1) *Data provided by Chemours Fayetteville Works.
2) MGD: Millions of gallons per day.
3) L/s: Liter per second

APPENDIX C

SUPPORTING CALCULATIONS – DIRECT AERIAL DEPOSITION ON CAPE FEAR RIVER

INTRODUCTION AND OBJECTIVE

Nine potential pathways (**Table 1**) 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 design (**Section 4**) of the *Chemours Fayetteville Works Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes* (Geosyntec, 2019). The mass loading from direct aerial deposition of PFAS to the Cape Fear River was estimated using air deposition modeling results for HFPO-DA (ERM, 2018).

The objective of the supporting calculations presented in this appendix is to estimate aerial deposited PFAS directly on the Cape Fear River.

APPROACH

HFPO-DA mass loading directly to the Cape Fear River was first estimated using the reported aerial extent and deposition contours modeled for October 2018 (ERM, 2018). As depicted in (**Table C-1)**, the HFPO-DA air loading data (ug/m^2) provided from ERM (2018) was used to calculate the net hourly deposition rate (ng/m^2/hr) using the following equation:

$$Net\ hourly\ deposition\ rate = \frac{Air\ loading}{Time}$$

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 C-1)** provided from FEMA (2007) were selected along the Cape Fear River to measure the average river width (m). Cross section width calculations are shown in **Table C-2.** As depicted in **Figures C-2, C-3, C-4, C-5, and C-6**, sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 ug/m^2 were selected, and the length of the Cape Fear River along each of the sections was measured. Section lengths and river widths were used to calculate section areas (m^2) **(Table C-3)**. Start and end deposition rates (ng/m^2/hr) for each section along the Cape Fear River were estimated based on the deposition contours and corresponding net hourly deposition rate **(Table C-1)**; a combined deposition rate for each section was calculated as the average of the start and end deposition rates. River velocity (m/hr) was estimated from measured flow rates and the calculated river cross sectional area. Section lengths were used to calculate HFPO-DA travel time based on the river velocity **(Table C-3)**. Finally, as depicted in **Table C-3**, combined deposition rate (ng/m^2/hr), section area (m^2), and travel time (hr) were used to calculate mass HFPO-DA deposited (ng) as follows:

$$Mass\ HFPO-DA\ deposited = Combined\ deposition\ rate\ x\ Section\ area\ x\ Travel\ time$$

Residential well data from six locations in the Granular Activated Carbon Pilot Well testing program (Chemours, 2019) were used to build a relationship between HFPO-DA and other PFAS compounds since modeled aerial deposition results are only available for HFPO-DA. The average ratios of measured HFPO-DA to other compounds across the six locations were used to

estimate mass loading of other PFAS compounds. This relationship is provided in **Table E-3** of **Appendix E**.

REFERENCES

Chemours, 2019. Residential Well Carbon Pilot Testing Data. Available at: https://www.chemours.com/Fayetteville-Works/en-us/c3-dimer-acid/compliance-testing/

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.

APPENDIX C

TABLES

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

HFPO-DA Air Loading[1] (µg/m^2)	HFPO-DA Air Loading (ng/m^2)	Time (year)	Time (hour)	HFPO-DA Net Hourly Deposition Rate (ng/m^2/hr)
40	40,000	1	8,760	4.6
80	80,000	1	8,760	9.1
160	160,000	1	8,760	18.3
320	320,000	1	8,760	36.5
640	640,000	1	8,760	73.1

Notes:

1. HFPO-DA model values are from ERM (2018). Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

2. Abbreviations

HFPO-DA: Hexafluoropropylene oxide dimer acid; or dimer acid.

ug/m^2: micrograms per meter square.

ng /L: nanograms per liter.

ng/m^2/hr: nanograms per meter square per hour.

TABLE C-2
ESTIMATION OF AVERAGE RIVER WIDTH
Chemours Fayetteville Works, North Carolina

Cross section ID*	Model point ID**	Easting (ft NAD83)	Northing (ft NAD83)	River Depth (ft NAVD88)	Distance (ft)	Cross Section Width (m)
619506	0	2,052,368	399,949	38.75	0	
	1	2,052,366	399,949	38.22	2	
	2	2,052,334	399,946	28.90	34	
	3	2,052,254	399,938	7.90	114	
	4	2,052,155	399,928	7.90	213	
	5	2,052,095	399,922	28.90	273	
	6	2,052,093	399,922	31.58	275	84
614224	18	2,053,460	394,655	29.54	0	
	19	2,053,436	394,649	27.24	24	
	20	2,053,281	394,613	23.00	179	
	21	2,053,277	394,612	22.15	183	
	22	2,053,180	394,590	1.00	280	
	23	2,053,079	394,566	1.00	381	
	24	2,052,977	394,543	23.00	483	
	25	2,052,949	394,536	28.11	512	
	26	2,052,924	394,531	30.19	536	163
616535	7	2,053,113	396,901	39.02	0	
	8	2,053,070	396,895	28.07	43	
	9	2,052,990	396,886	7.07	122	
	10	2,052,891	396,874	7.07	222	
	11	2,052,831	396,867	28.07	281	
	12	2,052,815	396,865	36.27	298	91
613542	21	2,053,373	393,937	29.14	0	
	22	2,053,349	393,931	21.75	24	
	23	2,053,271	393,913	0.75	102	
	24	2,053,174	393,891	0.75	200	
	25	2,053,115	393,877	21.75	258	
	26	2,053,081	393,869	33.29	292	89
614517	13	2,053,209	394,897	26.00	0	
	14	2,053,130	394,878	4.59	80	
	15	2,053,032	394,854	4.59	177	
	16	2,052,974	394,840	26.00	235	
	17	2,052,961	394,837	36.39	248	76***
610240	31	2,053,769	390,652	22.07	0	
	32	2,053,729	390,645	1.07	40	
	33	2,053,643	390,630	1.07	126	
	34	2,053,602	390,623	22.07	167	
	35	2,053,572	390,618	25.37	197	60***
612082	27	2,053,560	392,482	0.75	0	
	28	2,053,430	392,455	0.75	129	
	29	2,053,370	392,443	21.75	190	
	30	2,053,322	392,433	45.09	238	72
606667	1271	2,054,059	387,249	50.87	0	
	1272	2,054,022	387,215	39.63	37	
	1273	2,053,995	387,190	22.50	65	
	1274	2,053,946	387,145	-0.50	113	
	1275	2,053,861	387,067	-0.50	199	
	1276	2,053,812	387,023	22.50	247	
	1277	2,053,801	387,012	38.10	258	
	1278	2,053,727	386,945	72.26	332	101
608468	1193	2,053,950	388,876	37.23	0	
	1194	2,053,902	388,874	21.86	49	
	1195	2,053,843	388,871	0.86	107	
	1196	2,053,717	388,866	0.86	233	
	1197	2,053,659	388,864	21.86	291	
	1198	2,053,650	388,863	30.55	300	
	1199	2,053,600	388,861	46.74	350	107
606667	1271	2,054,059	387,249	50.87	0	
	1272	2,054,022	387,215	39.63	37	
	1273	2,053,995	387,190	22.50	65	
	1274	2,053,946	387,145	-0.50	113	
	1275	2,053,861	387,067	-0.50	199	
	1276	2,053,812	387,023	22.50	247	
	1277	2,053,801	387,012	38.10	258	
	1278	2,053,727	386,945	72.26	332	101
600052	1498	2,057,643	382,269	37.28	0	
	1499	2,057,610	382,246	21.69	34	
	1500	2,057,556	382,208	-1.31	87	
	1501	2,057,461	382,141	-1.31	182	
	1502	2,057,408	382,103	21.69	236	
	1503	2,057,398	382,096	23.87	245	
	1504	2,057,358	382,067	34.27	286	87

TABLE C-2
ESTIMATION OF AVERAGE RIVER WIDTH
Chemours Fayetteville Works, North Carolina

Cross section ID*	Model point ID**	Easting (ft NAD83)	Northing (ft NAD83)	River Depth (ft NAVD88)	Distance (ft)	Cross Section Width (m)
604474	1331	2,055,879	386,154	41.88	0	
	1332	2,055,812	386,120	21.60	66	
	1333	2,055,753	386,090	-1.40	126	
	1334	2,055,647	386,037	-1.40	232	
	1335	2,055,588	386,007	21.60	291	
	1336	2,055,566	385,996	32.19	312	95
597968	1565	2,058,901	380,593	36.02	0	
	1566	2,058,830	380,549	22.16	71	
	1567	2,058,774	380,515	-0.84	127	
	1568	2,058,675	380,453	-0.84	225	
	1569	2,058,619	380,418	22.16	281	
	1570	2,058,518	380,356	44.33	382	116
602061	1406	2,056,453	383,857	38.32	0	
	1407	2,056,356	383,798	22.26	97	
	1408	2,056,301	383,763	-0.74	152	
	1409	2,056,202	383,702	-0.74	251	
	1410	2,056,146	383,667	22.26	307	
	1411	2,056,113	383,647	32.30	340	104
594185	1717	2,060,560	377,186	40.59	0	
	1718	2,060,482	377,157	21.78	78	
	1719	2,060,421	377,134	-1.22	140	
	1720	2,060,312	377,094	-1.22	249	
	1721	2,060,250	377,071	21.78	310	
	1722	2,060,232	377,065	37.79	328	100
596259	1644	2,059,549	379,003	30.99	0	
	1645	2,059,534	378,996	21.71	15	
	1646	2,059,474	378,970	-1.29	75	
	1647	2,059,368	378,923	-1.29	181	
	1648	2,059,308	378,896	21.71	241	
	1649	2,059,275	378,881	36.48	274	84
587968	2042	2,061,270	371,304	30.59	0	
	2043	2,061,246	371,290	20.10	24	
	2044	2,061,179	371,252	-2.90	91	
	2045	2,061,092	371,203	-2.90	178	
	2046	2,061,042	371,174	20.10	228	
	2047	2,060,966	371,131	42.37	305	93
591595	1825	2,060,295	374,663	23.04	0	
	1826	2,060,270	374,661	20.21	24	
	1827	2,060,201	374,658	-2.79	93	
	1828	2,060,079	374,653	-2.79	215	
	1829	2,060,010	374,650	20.21	284	
	1830	2,059,995	374,649	35.89	300	91
590322	1931	2,060,424	373,459	40.67	0	
	1932	2,060,378	373,442	23.21	47	
	1933	2,060,372	373,439	20.40	52	
	1934	2,060,311	373,416	-2.60	114	
	1935	2,060,202	373,376	-2.60	223	
	1936	2,060,140	373,353	20.40	284	
	1937	2,060,097	373,336	31.19	328	100
***Average River Cross Section Width (m)=						99
***Median River Cross Section Width (m)=						94
***Geomean River Cross Section Width (m)=						97

Notes:

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

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

***Excluded from average, median and geomean river cross section width calculation due to model points not clearly visible.

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).

4. Abbreviations

ft: feet

m: meter

TABLE C-3
CALCULATION OF HFPO-DA DEPOSITED MASS AND MASS FLUX
Chemours Fayetteville Works, North Carolina

Section	Depositon Rate at Section Start ($\mu g/m^2/yr$)	Depositon Rate at Section End ($\mu g/m^2/yr$)	Start Deposition Rate** ($ng/m^2/hr$)	End Deposition Rate** ($ng/m^2/hr$)	Combined Deposition Rate ($ng/m^2/hr$)	Average River Width (m)	Section Area (m^2)	Estimated River Velocity*** (ft/s)	Estimated River Velocity (m/hr)	Estimated Travel Time (hr)	Calculated Mass Deposited (ng)	Calculated Mass Loading (ng/s)
Center	160	160	18	18	18	99	89,028	0.2	219	4.1	6,694,345	452
Up River	160	80	18	9	14	99	48,300	0.2	219	2.2	1,477,776	184
Up River	80	40	9	5	7	99	89,570	0.2	219	4.1	2,541,053	170
Down River	160	80	18	9	14	99	57,813	0.2	219	2.7	2,117,225	220
Down River	80	40	9	5	7	99	55,672	0.2	219	2.6	981,677	106
Total												**1,132**

Notes:

*River cross sections are shown in Figures C-2 through C-6

**Based on model deposition rate, Table C-1, Appendix C

***River velocity is calculated from data from May 2019, Table B-2, Appendix B

1. Abbreviations

HFPO-DA: Hexafluoropropylene oxide dimer acid; or dimer acid

$\mu g/m^2/yr$: micrograms per meter square per year

$ng/m^2/hr$: nanograms per meter square per hour

m: meter

m^2: meter square

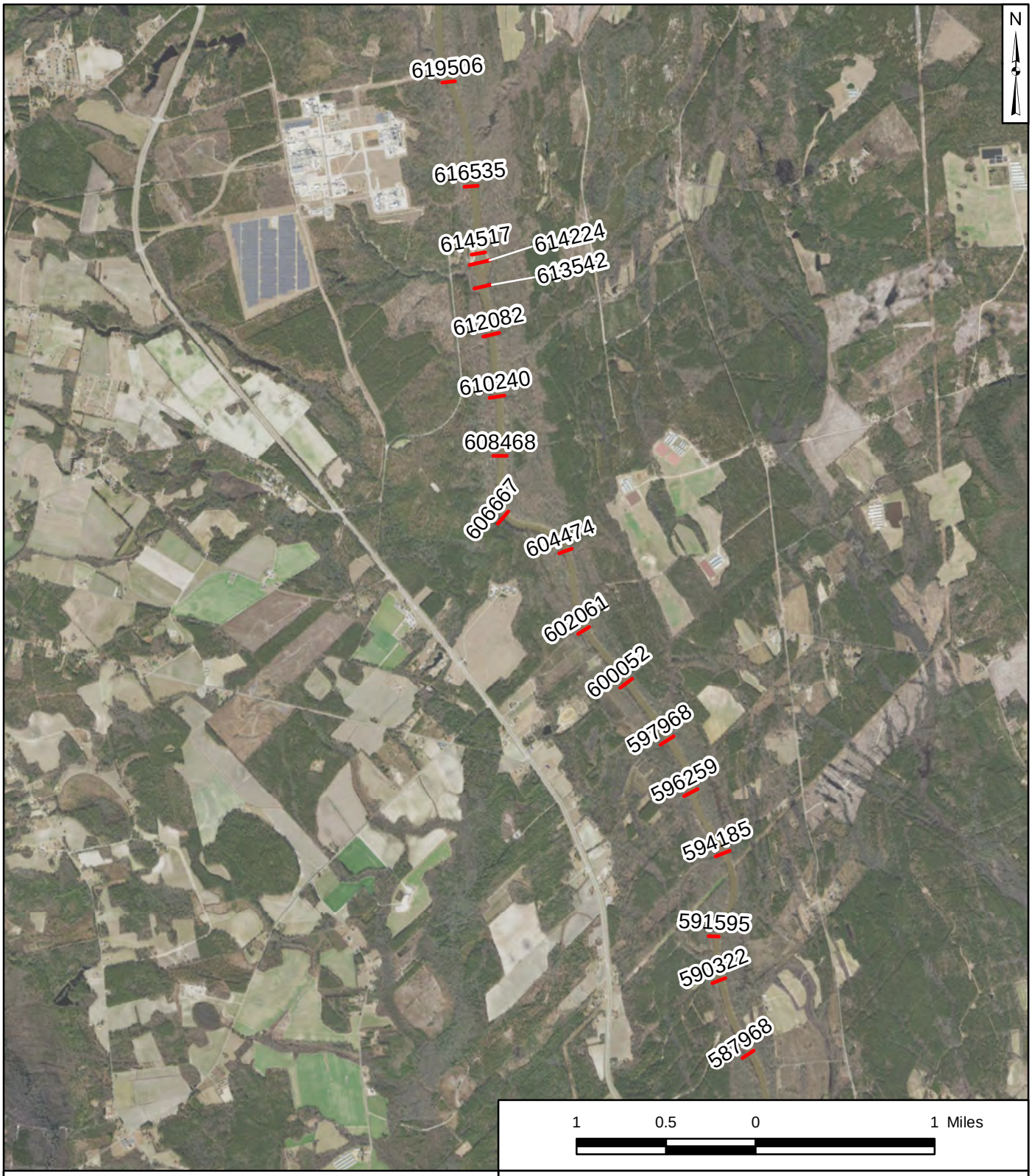
ft/s: feet per second

hr: hours

ng/s: nanograms per second

APPENDIX C

FIGURES



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

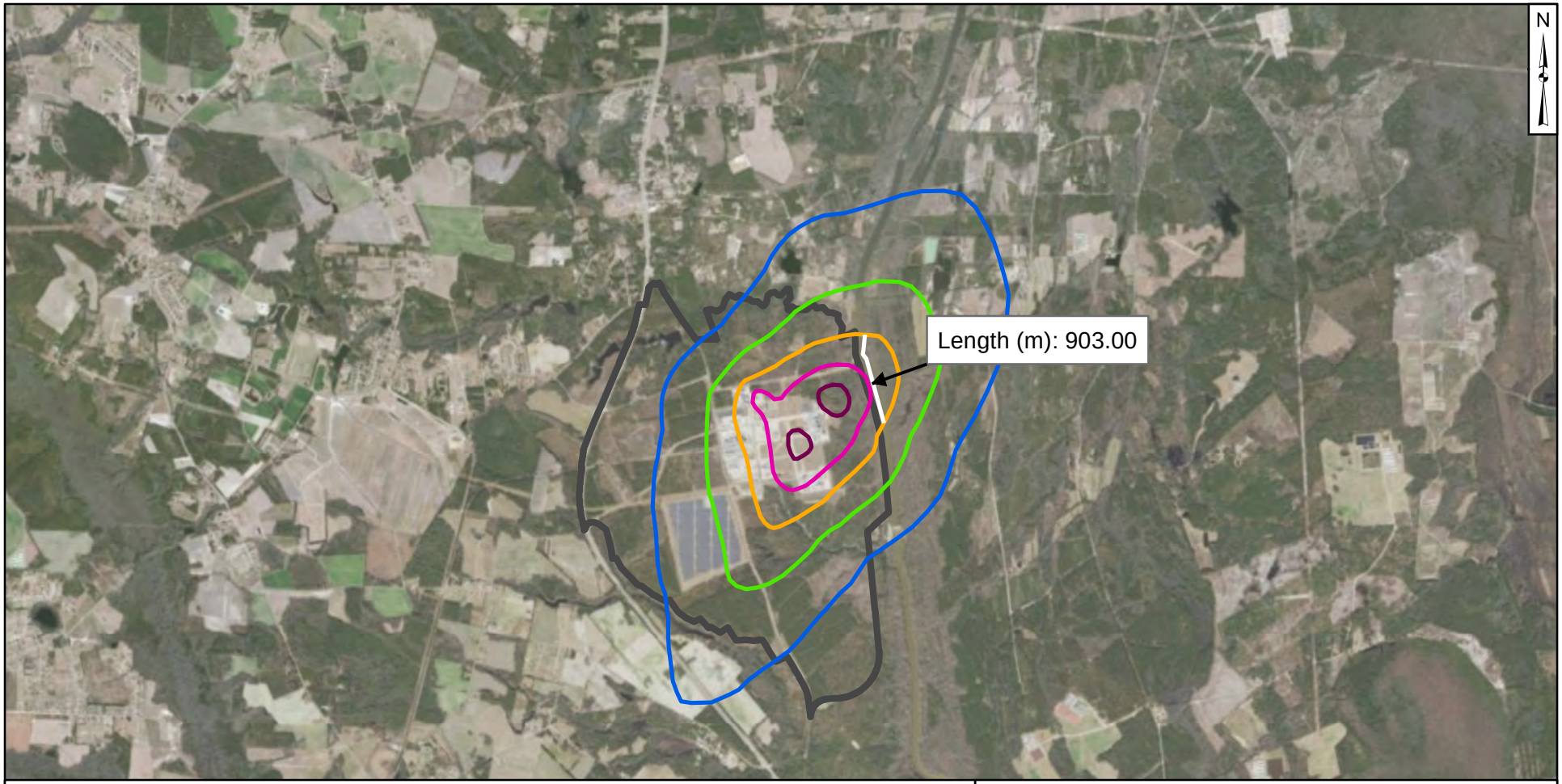
Geosyntec Consultants of NC, PC
NC License No.: C-3500 and C-295

Raleigh, NC | August 2019

Figure

C-1

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



Legend

Site Boundary

Modeled Deposition Contours,October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

µg / m^2/yr - micrograms per square meter per year

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

1 0.5 0 1 Miles

Measurement of Cape Fear River Length at Center Section

Chemours Fayetteville Works, North Carolina

Geosyntec

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

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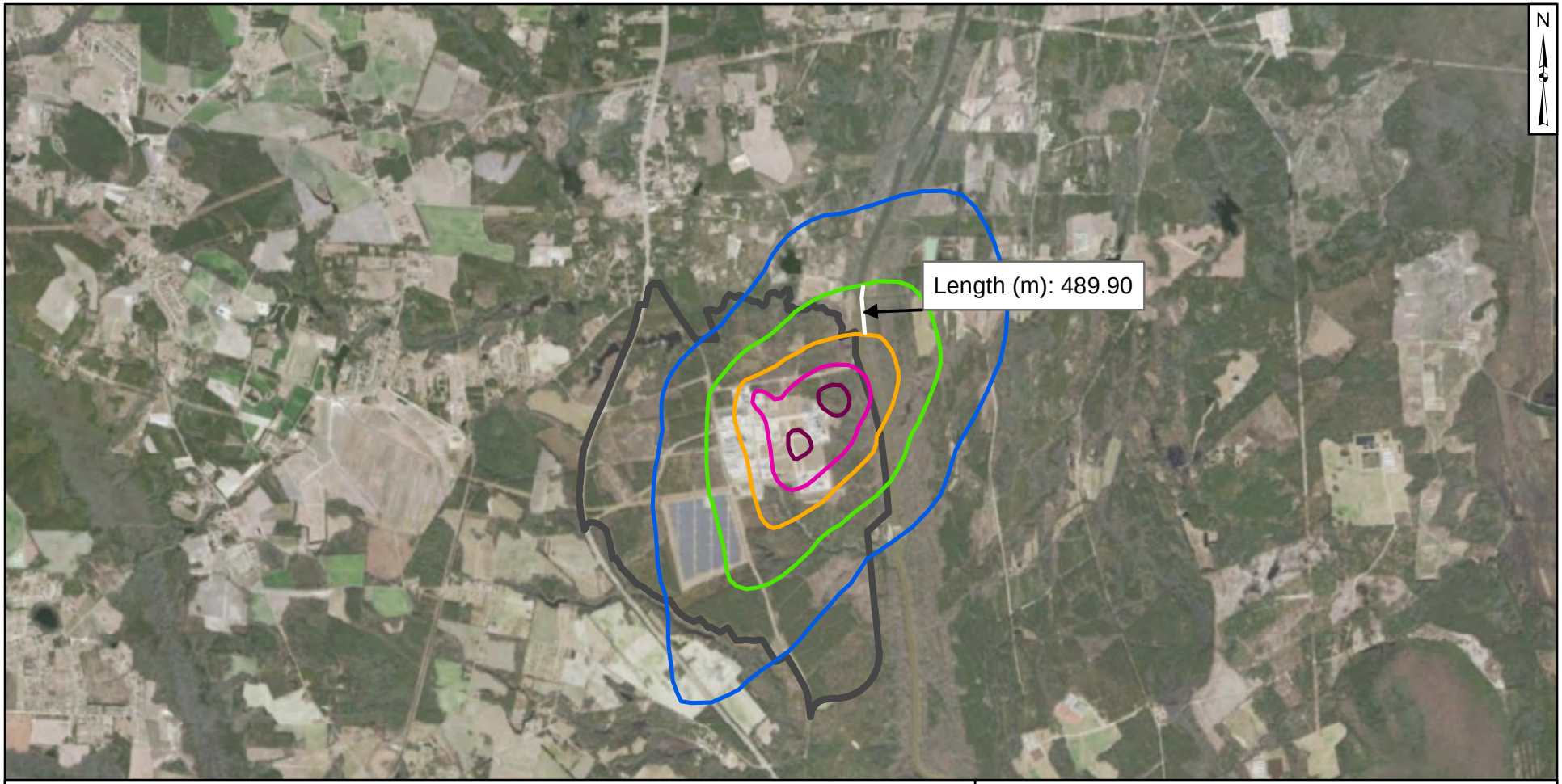
Figure **C-2**

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

µg /m^2/yr - micrograms per square meter per year

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

1 0.5 0 1 Miles

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

Chemours Fayetteville Works, North Carolina

Geosyntec

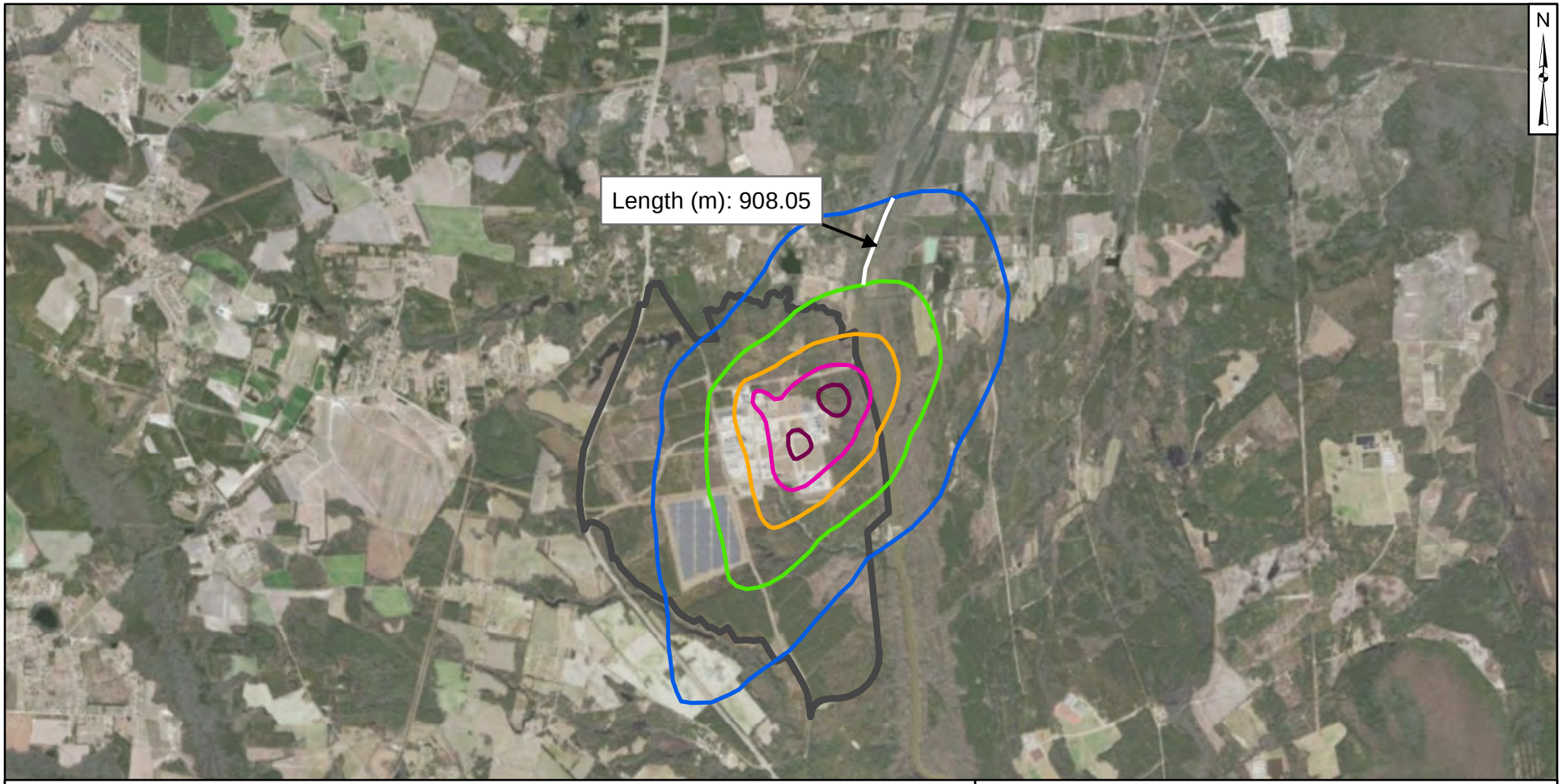
Geosyntec Consultants of NC, PC
NC License No.: C-3500 and C-295

Figure

C-3

Raleigh, NC | August 2019

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

µg / m^2/yr - micrograms per square meter per year

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

1 0.5 0 1 Miles

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

Chemours Fayetteville Works, North Carolina

Geosyntec

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

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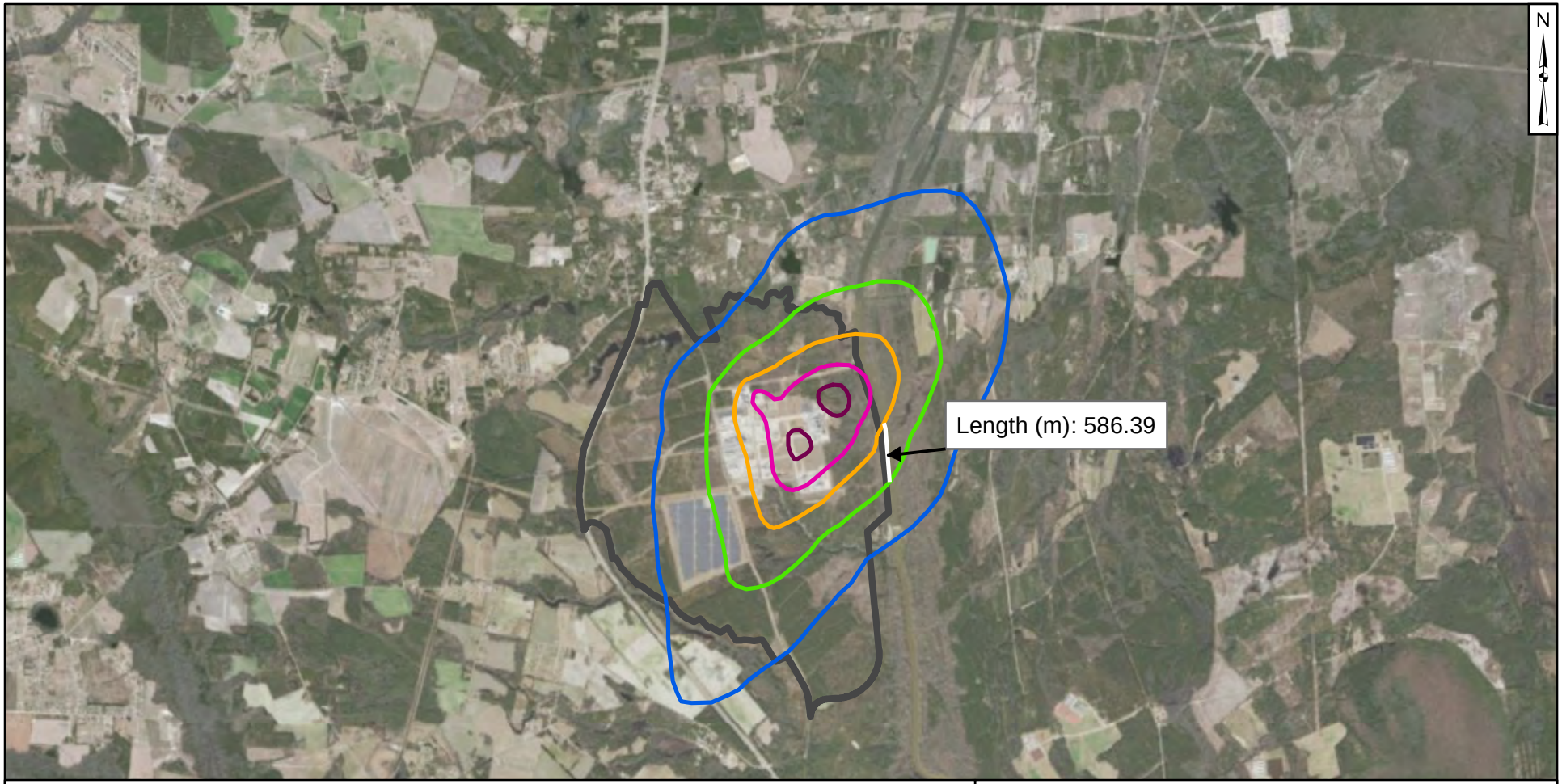
Figure

C-4

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

µg /m^2/yr - micrograms per square meter per year

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

1 0.5 0 1 Miles

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

Chemours Fayetteville Works, North Carolina

Geosyntec

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

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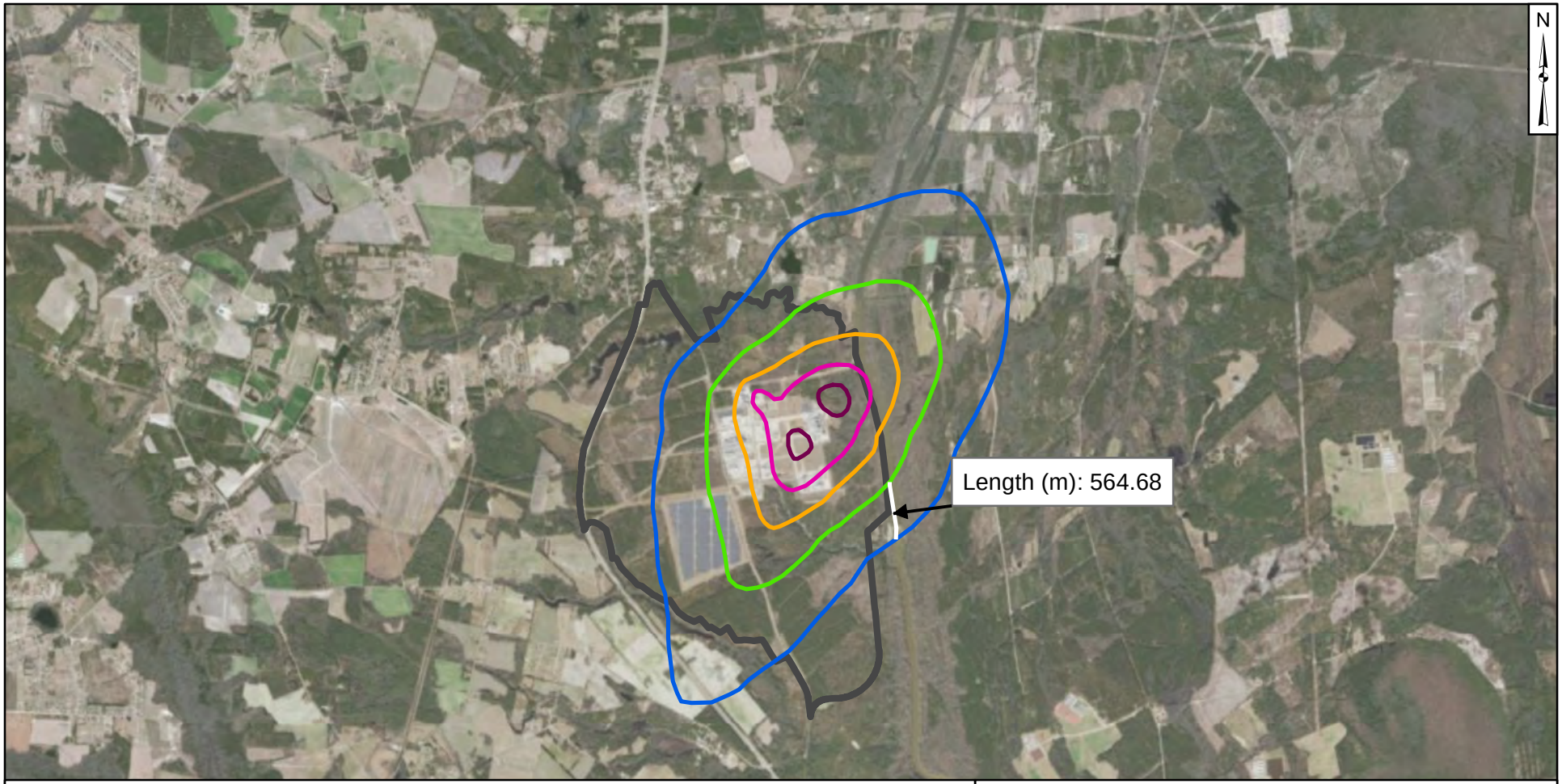
Figure

C-5

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
HFPO-DA - Hexafluoropropylene oxide dimer acid; or dimer acid; or GenX

µg /m^2/yr - micrograms per square meter per year

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

1 0.5 0 1 Miles

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

Chemours Fayetteville Works, North Carolina

Geosyntec

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Figure

C-6

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

APPENDIX D

SUPPORTING CALCULATIONS - ONSITE GROUNDWATER FLOW ESTIMATE

INTRODUCTION AND OBJECTIVE

Based on the current understanding of the conceptual site model, the Black Creek Aquifer is the primary hydrogeologic unit that is potentially in hydraulic connection with the Cape Fear River. The Cape Fear River stage appears to typically be 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 6 in the PFAS mass loading design (**Section 4**) of the *Chemours Fayetteville Works Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes* (Geosyntec, 2019). The objective of the supporting calculations presented in this appendix is to estimate PFAS mass loading from onsite groundwater discharge through a forward assessment based on Darcy's Law using available hydrogeological data as described below.

APPROACH

The PFAS mass loading from onsite groundwater discharge was estimated using groundwater concentration data from the five LTW wells located along the Cape Fear River bank and estimated volumetric groundwater discharge. Groundwater samples from the five LTW wells were collected in July-November 2018, as part of the *Post Hurricane Florence PFAS Characterization Report* (Geosyntec, 2019) and for other sampling programs implemented since June 2017. PFAS analytical results for these groundwater samples are presented in **Appendix A**.

Volumetric groundwater discharge was estimated using Darcy's Law:

$$Q = KiA$$

where Q, the volumetric discharge [L^3T^{-1}], is the groundwater discharge being estimated;

K, the hydraulic conductivity of the aquifer [LT^{-1}];

i, the hydraulic gradient [LL^{-1}]; and,

A, the cross-sectional area of discharge from the Black Creek Aquifer into the Cape Fear River [L^2].

The hydraulic gradient is calculated as:

$$i = \frac{(LTW\ Water\ Level\ Elevation\ \ - Cape\ Fear\ River\ Stage\ Elevation)}{Estimated\ distance\ from\ LTW\ well\ to\ river}$$

Available LTW water level elevations measured in April 2014, September 2015 and June 2019 along with corresponding Cape Fear River stage elevations measured at the USGS flow gauging station located at the W.O. Huske Dam, ID (USGS# 02105500; USGS, 2019), approximately 0.5 river miles downstream of the Site (**Appendix B**) were used to compute hydraulic gradients (**Table D-1**). Summary statistics for calculated gradients from all five LTW wells indicate gradients vary between 0.045 to 0.083 feet/feet (**Table D-1**). This range in computed gradients from all LTW

wells were compared with computed gradients at LTW-05 for the entire year of 2018 to account for any seasonal variations (**Figure D-1**). This comparison shows that calculated gradients from all five LTW wells used in this calculation is a conservative measure. Summary statistics for calculated gradients from all five LTW wells were used in computing minimum, 1st quartile, median, 3rd quartile and maximum volumetric groundwater discharge.

The hydraulic conductivity of the Black Creek aquifer is selected from literature values based on the observed soil lithologies described for the LTW wells (**Table D-2**; Freeze and Cherry, 1979). Cross-sectional discharge area along the Cape Fear River is discretized into four layers based on representative lithologic materials encountered: (1) Upper Black Creek Aquifer consists of fine grained material including silts, clays and silty sands; (2) Black Creek Confining Unit consists of lignitic, fat clay; (3) Lower Black Creek Aquifer consists of medium to coarse-grained sands; and (4) Upper Cape Fear Confining Unit consists of hard, fat clay. Unit thicknesses for the four layers are estimated from LTW well lithology and shown in **Table D-2**. Estimated representative discharge areas in contact with the Cape Fear River is estimated based on an assumed discharge length of 5,000 feet between Willis Creek and W.O. Huske Dam along the river and the approximate thickness of the Black Creek Aquifer in that area (**Table D-2**). The calculated discharge area was varied as part of model calibration. As a refinement to the model, an assessment of Cape Fear River bottom sediment temperatures adjacent to the Site is ongoing to identify potential zones of increased groundwater upwelling.

Minimum, 1st quartile, median, 3rd quartile and maximum volumetric groundwater discharge calculated using Darcy's Law are presented in **Table D-3**.

REFERENCES

Freeze, R. A. and J. A. Cherry. 1979. Groundwater, Prentice Hall, Englewood Cliffs, N.J.

Geosyntec, 2019. Post Hurricane Florence PFAS Characterization. April 2019.

USGS, 2019. National Water Information System: Web Interface. Accessed March 2019. https://waterdata.usgs.gov/nwis/uv?site_no=02105500

APPENDIX D

TABLES

TABLE D-1
ONSITE GROUNDWATER HYDRAULIC GRADIENTS
Chemours Fayetteville Works, North Carolina

Location	Date and Time	W.O. Huske Gage Height[1] (ft NGVD 29)	W.O. Huske Gage Height[2] (ft)	W.O. Huske Water Level (ft NGVD 29)	W.O. Huske Water Level (ft NAVD 88)	Measured Top of Casing Elevation (ft NAVD 88)	Measured Depth to Water (ft btoc)	Calculated Water Level (ft NAVD 88)	Estimated Distance to River (ft)	Calculated Delta Head (ft)	Calculated Hydraulic Gradient[3] (ft/ft)	Calculated Hydraulic Gradient[3] (m/m)
LTW-01	4/3/2014 18:30	28.97	3.71	32.68	33.59	53.83	15.39	38.44	85	4.854	0.0571	0.0571
LTW-02	4/3/2014 17:20	28.97	3.75	32.72	33.63	52.48	9.53	42.95	130	9.324	0.0717	0.0717
LTW-03	4/3/2014 15:40	28.97	3.74	32.71	33.62	52.91	10.69	42.22	110	8.604	0.0782	0.0782
LTW-04	4/3/2014 9:47	28.97	3.85	32.82	33.73	51.86	7.89	43.97	170	10.244	0.0603	0.0603
LTW-05	4/3/2014 11:07	28.97	3.83	32.80	33.71	52.01	10.76	41.25	145	7.544	0.0520	0.0520
LTW-01	9/16/2015 9:13	28.97	1.23	30.20	31.11	53.83	18.02	35.81	85	4.704	0.0553	0.0553
LTW-02	9/16/2015 13:47	28.97	1.23	30.20	31.11	52.48	10.58	41.9	130	10.794	0.0830	0.0830
LTW-03	9/15/2015 15:12	28.97	1.20	30.17	31.08	52.91	14.23	38.68	110	7.604	0.0691	0.0691
LTW-04	9/15/2015 17:45	28.97	1.20	30.17	31.08	51.86	11.85	40.01	170	8.934	0.0526	0.0526
LTW-05	9/16/2015 10:52	28.97	1.22	30.19	31.10	52.01	11.02	40.99	145	9.894	0.0682	0.0682
LTW-01	6/13/2019 15:40	28.97	4.87	33.84	34.75	53.83	15.23	38.6	85	3.854	0.0453	0.0453
LTW-02	6/13/2019 15:41	28.97	4.87	33.84	34.75	52.48	9.78	42.7	130	7.954	0.0612	0.0612
LTW-03	6/13/2019 15:50	28.97	4.87	33.84	34.75	52.91	12.23	40.68	110	5.934	0.0539	0.0539
LTW-04	6/13/2019 14:02	28.97	4.90	33.87	34.78	51.86	8.14	43.72	170	8.944	0.0526	0.0526
LTW-05	6/13/2019 13:57	28.97	4.91	33.88	34.79	52.01	9.18	42.83	145	8.044	0.0555	0.0555

Notes:
1. The datum of the USGS Gaging Station 02105500 at W.O. Huske is 28.97 feet above NGVD29 (USGS, 2019).
2. Daily mean gage heights are obtained from the USGS Gaging Station 02105500 at the W.O. Huske Dam (USGS, 2019).
3. W.O. Huske water level datum converted from feet above NGVD29 to feet above NAVD88 by a datum shift factor of +0.276 obtained from the VERTCON tool at the National Geodetic Survey (https://www.ngs.noaa.gov/TOOLS/Vertcon/vertcon.html).
4. Calculated hydraulic gradient, *i (feet/ feet) = (Water level elevation in LTW well - Cape Fear River Stage elevation) / (Estimated distance from LTW well to river)*
5. Abbreviations
ft - feet
ft btoc - feet below top of casing
ft NGVD 29 - feet above the National Geodetic Vertical Datum of 1929
ft NAVD 88 - feet above the North American Vertical Datum of 1988
ft/ft - feet per feet
m/m - meter per meter

TABLE D-2

ONSITE GROUNDWATER ESTIMATED DISCHARGE AREA AND HYDRAULIC CONDUCTIVITY

Chemours Fayetteville Works, North Carolina

Geologic Unit	Estimated unit thickness (feet)	Discharge Area length (feet)	Estimated Discharge Area ($feet^2$)	Hydraulic Conductivity (m/s)	Representative Lithologic Material
Upper Black Creek Aquifer	21 - 24	2900	65,250	1.0×10^{-6}	Silts, Silty Sand
Blac Creek Confining Unit	1 - 3	2900	5,800	1.0×10^{-8}	Clay
Lower Black Creek Aquifer	10 - 20	2900	43,500	1.5×10^{-4}	Medium to coarse-grained Sands
Upper Cape Fear Confining Unit	> 35	2900	26,100	1.0×10^{-9}	Clay

Notes:

1. Discharge area length presented is from the calibrated mass loading model, assumed to be 58% of total length.
2. Upper Cape Fear Confining Unit is not fully penetrated at the Site and is assumed to be 10 feet in thickness for discharge area calculations. However, this unit does not discharge significant groundwater due to low hydraulic conductivity values.
3. Unit thickness estimated from available onsite lithology for LTW wells.
4. Hydraulic conductivity values presented in this table are within the range of literature values provided for representative lithologic material. Final hydraulic conductivity values from the calibrated mass loading model are indicated here. Representative literature hydraulic conductivity values based on range presented in Freeze, R. A. and J. A. Cherry. 1979. *Groundwater,* Prentice Hall, Englewood Cliffs, N.J.
5. Abbreviations:

m/s - meters per second

TABLE D-3
ONSITE GROUNDWATER UPWELLING FLOW RATES
Chemours Fayetteville Works, North Carolina

Geologic Completion Zone	Estimated Discharge Area[1] (feet^2)	Estimated Discharge Area[1] (m^2)	Estimated Hydraulic Conductivty[2] (m/s)	Hydraulic Gradient (m/m)	Upwelling Rate (m^3/s)	Upwelling Rate (L/s)
Minimum						
Upper Black Creek Aquifer	65,250	6,062	1.00E-06	0.045	0.028	28
Black Creek Confining Unit	5,800	539	1.00E-08			
Lower Black Creek Aquifer	43,500	4,041	1.50E-04			
Upper Cape Fear Confining Unit	26,100	2,425	1.00E-09			
1st Quartile						
Upper Black Creek Aquifer	65,250	6,062	1.00E-06	0.053	0.033	33
Black Creek Confining Unit	5,800	539	1.00E-08			
Lower Black Creek Aquifer	43,500	4,041	1.50E-04			
Upper Cape Fear Confining Unit	26,100	2,425	1.00E-09			
Median						
Upper Black Creek Aquifer	65,250	6,062	1.00E-06	0.057	0.035	35
Black Creek Confining Unit	5,800	539	1.00E-08			
Lower Black Creek Aquifer	43,500	4,041	1.50E-04			
Upper Cape Fear Confining Unit	26,100	2,425	1.00E-09			
3rd Quartile						
Upper Black Creek Aquifer	65,250	6,062	1.00E-06	0.069	0.042	42
Black Creek Confining Unit	5,800	539	1.00E-08			
Lower Black Creek Aquifer	43,500	4,041	1.50E-04			
Upper Cape Fear Confining Unit	26,100	2,425	1.00E-09			
Maximum						
Upper Black Creek Aquifer	65,250	6,062	1.00E-06	0.083	0.051	51
Black Creek Confining Unit	5,800	539	1.00E-08			
Lower Black Creek Aquifer	43,500	4,041	1.50E-04			
Upper Cape Fear Confining Unit	26,100	2,425	1.00E-09			
Average						
Upper Black Creek Aquifer	65,250	6,062	1.00E-06	0.061	0.037	37
Black Creek Confining Unit	5,800	539	1.00E-08			
Lower Black Creek Aquifer	43,500	4,041	1.50E-04			
Upper Cape Fear Confining Unit	26,100	2,425	1.00E-09			
Geometric Mean						
Upper Black Creek Aquifer	65,250	6,062	1.00E-06	0.060	0.037	37
Black Creek Confining Unit	5,800	539	1.00E-08			
Lower Black Creek Aquifer	43,500	4,041	1.50E-04			
Upper Cape Fear Confining Unit	26,100	2,425	1.00E-09			

Notes:

1. The estimated discharge area is calculated based on geologic unit thickess provided in Table D-2 and a model-calibrated discharge length of 2600 feet along the Cape Fear River.

2. Hydraulic conductivity values presented in this table are within the range of literature values provided for representative lithologic material. Final hydraulic conductivity values from the calibrated mass loading model are indicated here. Representative literature hydraulic conductivity values based on range presented in Freeze, R. A. and J. A. Cherry. 1979. *Groundwater*. Prentice Hall, Englewood Cliffs, N.J.

L/s - liter per second

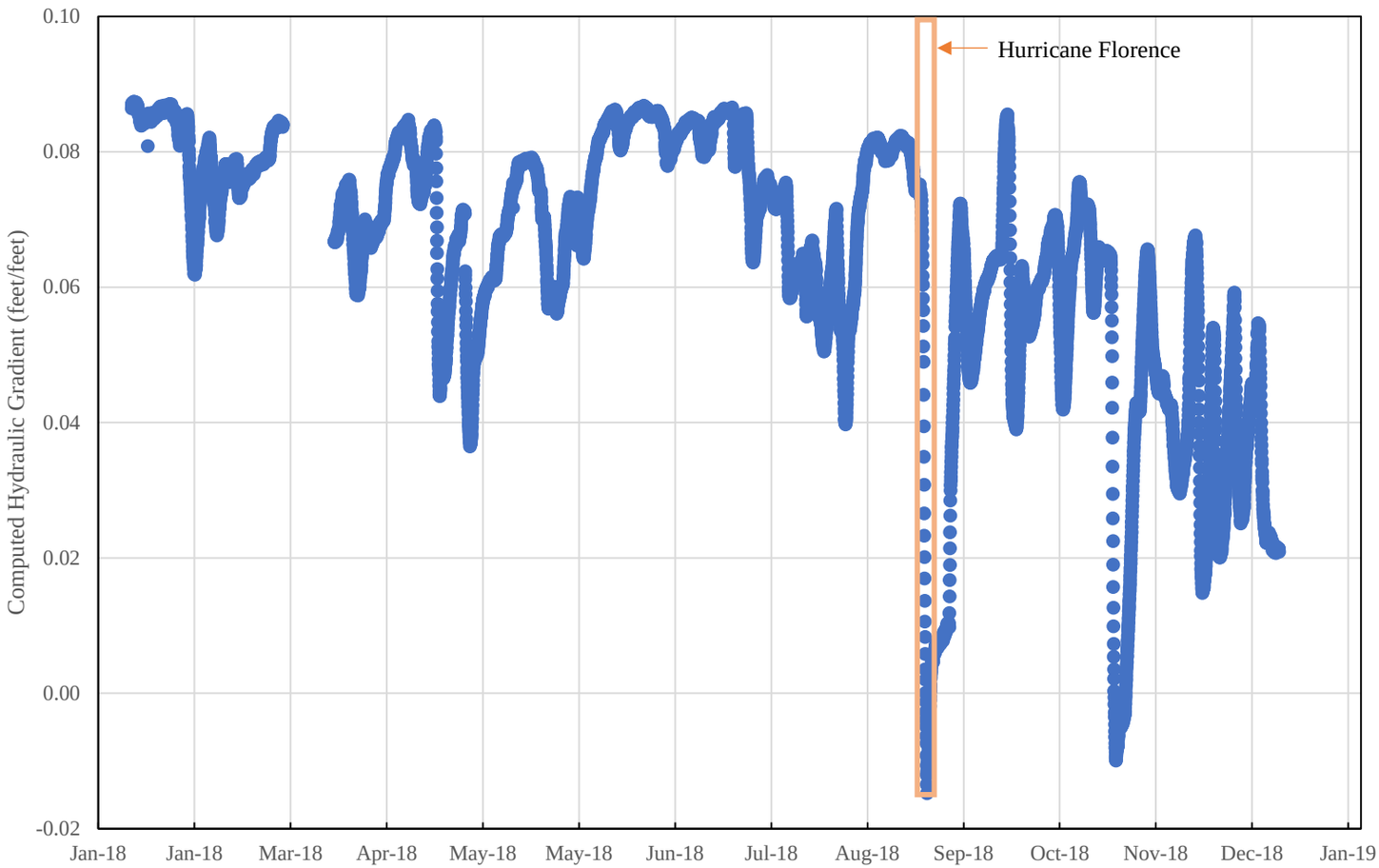
m^2 - squared meters

m/s - meters per second

m/m - meter per meter

APPENDIX D

FIGURES



Notes:

1. Hydraulic gradients between LTW-05 and Cape Fear River calculated as:
i = ((LTW Water Level Elevation) - (Cape Fear River Stage Elevation)) / (Estimated distance from LTW well to river).
2. Cape Fear River stage elevations measured at the USGS flow gauging station located at the W.O. Huske Dam, ID (USGS# 02105500; USGS, 2019), approximately 0.5 river miles downstream of the Site.
3. Estimated distance from LTW-05 to Cape Fear River is 145 feet.

Computed Hydraulic Gradient between LTW-05 and Cape Fear River
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure

D-1

APPENDIX E

SUPPORTING CALCULATIONS - OFFSITE GROUNDWATER MASS LOADING ESTIMATE

INTRODUCTION AND OBJECTIVE

Sampling of residential offsite groundwater wells indicate that aerial deposition has potentially contributed to the detection of PFAS compounds in the groundwater outside the Site property boundary. Offsite groundwater upwelling 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 8 in the PFAS mass loading design (**Section 4**) of the *Chemours Fayetteville Works Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes* (Geosyntec, 2019). The objective of the supporting calculations presented in this appendix is to estimate PFAS mass loading from offsite groundwater discharge through a forward assessment based on Darcy's Law using available hydrogeological data as described below.

APPROACH

The discharge and PFAS concentrations in offsite groundwater used to estimate the PFAS mass loading from offsite groundwater (Transport Pathway 8) were limited by data availability and therefore required the assumptions described below.

Volumetric groundwater discharge upwelling to the Cape Fear River is estimated using Darcy's Law similar to the estimation of onsite groundwater flow (**Appendix D**):

$$Q = KiA$$

where Q, the volumetric discharge [L^3T^{-1}], is the groundwater discharge being estimated;

K, the hydraulic conductivity of the aquifer [LT^{-1}], assumed to be 2.5 x 10^{-4} m/s, derived from onsite pump tests in the Surficial Aquifer (Parsons, 2018b);

i, the hydraulic gradient [LL^{-1}]; an estimated value that is calculated based on the onsite groundwater hydraulic gradient (refer to **Appendix D**) and an adjustment factor that is based on topographic variations which is assumed to be reflective of gradient variations in an unconfined aquifer system. This gradient adjustment factor is computed from slope differences using LiDAR digital elevation models in ArcGIS (refer to **Figure E-1**); and,

A, the cross-sectional area of groundwater discharge into the Cape Fear River [L^2], estimated based on measurements presented in **Appendix C** and the approximate thickness of the aquifer estimated from onsite information.

Minimum, 1st quartile, median, 3rd quartile and maximum volumetric groundwater discharge was calculated using Darcy's Law as presented in **Table E-1**.

PFAS concentrations were estimated from spatial monitoring well clusters; offsite groundwater wells were grouped together by observed HFPO-DA concentrations from the Offsite Residential Well program (**Table E-2, Figure E-2**). The offsite groundwater wells were grouped in to the following clusters:

A. 3 to 5 miles from the Site on the east side of the Cape Fear River;

B. 5 to 6 miles away from the Site on the east side of the Cape Fear River;
C. 1 to 3 miles from the Site on the east side of the Cape Fear River;
D. 3 to 4 miles from the Site on the west side of the Cape Fear River; and
E. 1 to 3 miles from the Site on the west side of the Cape Fear River.

Statistics were performed on the concentration clusters to analyze the correlation of HFPO-DA concentration with both (1) distance from the Site and (2) the side of the river where the sampling location is situated. These concentrations were used to develop minimum, 1st quartile, median, 3rd quartile and maximum HFPO-DA concentrations for input into the Mass Loading Model (**Table E-1**).

Data from six locations in the Granular Activated Carbon Pilot Well testing program (Chemours, 2019) were used to build a relationship between HFPO-DA and other PFAS compounds. The average ratios of the measured HFPO-DA to other compounds across the six locations were used to estimate concentrations of other PFAS compounds (**Table E-3**).

REFERENCES

Chemours, 2019. Residential Well Carbon Pilot Testing Data. Available at: https://www.chemours.com/Fayetteville-Works/en-us/c3-dimer-acid/compliance-testing/

Geosyntec, 2019. Chemours Fayetteville Works Cape Fear River PFAS Mass Loading Model Assessment and Paragraph 11.1 Characterization of PFAS at Intakes. August 2019.

APPENDIX E

TABLES

TABLE E-1
OFFSITE GROUNDWATER FLOW ESTIMATE
Chemours Fayetteville Works, North Carolina

Statistics	Area	Section	River Length[1] (m)	River Depth[2] (m)	Proportion of Upwelling in the River Bottom[3]	Upwelling Area (m^2)	On-Site Hydraulic Gradient[4] (m/m)	Gradient Adjustment Factor[5]	Adjusted Upwelling Hydraulic Gradient (m/m)	Hydraulic Conductivity (m/s)	Upwelling Rate (m^3/s)	HFPO-DA Concentrations[6] (ng/L)	Mass Loading (ng/s)	Mass Loading (ng/s)
Minimum	A	East, Adjacent Site	3,303	14	41%	19,068	0.045	0.48	0.022	2.55E-04	0.105	1.8	188	2345.8
	B	East, Downstream	2,048	14		11,825	0.045	0.48	0.022		0.065	1.8	118	
	C	East, Downstream	5,206	14		30,056	0.045	0.48	0.022		0.165	4.0	661	
	D	West, Downstream	1,757	14		10,146	0.045	0.48	0.022		0.056	10	558	
	E	West, Downstream	2,591	14		14,957	0.045	0.48	0.022		0.082	10	822	
1st Quartile	A	East, Adjacent Site	3,303	14	49%	22,888	0.045	0.48	0.022	2.55E-04	0.126	8.0	1,002	4880.8
	B	East, Downstream	2,048	14		14,194	0.045	0.48	0.022		0.078	1.8	142	
	C	East, Downstream	5,206	14		36,076	0.045	0.48	0.022		0.198	11	2,081	
	D	West, Downstream	1,757	14		12,179	0.045	0.48	0.022		0.067	10	669	
	E	West, Downstream	2,591	14		17,954	0.045	0.48	0.022		0.099	10	987	
Median	A	East, Adjacent Site	3,303	14	63%	29,194	0.045	0.48	0.022	2.55E-04	0.160	10	1,604	18398.6
	B	East, Downstream	2,048	14		18,105	0.045	0.48	0.022		0.099	1.8	181	
	C	East, Downstream	5,206	14		46,017	0.045	0.48	0.022		0.253	56	14,160	
	D	West, Downstream	1,757	14		15,535	0.045	0.48	0.022		0.085	14	1,195	
	E	West, Downstream	2,591	14		22,901	0.045	0.48	0.022		0.126	10	1,258	
3rd Quartile	A	East, Adjacent Site	3,303	16	76%	38,780	0.045	0.48	0.022	2.55E-04	0.213	17	3,516	81012.0
	B	East, Downstream	2,048	16		24,049	0.045	0.48	0.022		0.132	1.8	241	
	C	East, Downstream	5,206	16		61,126	0.045	0.48	0.022		0.336	136	45,679	
	D	West, Downstream	1,757	16		20,635	0.045	0.48	0.022		0.113	21	2,324	
	E	West, Downstream	2,591	16		30,420	0.045	0.48	0.022		0.167	175	29,252	
Maximum	A	East, Adjacent Site	3,303	16	80%	41,275	0.045	0.48	0.022	2.55E-04	0.227	50	11,340	431766.8
	B	East, Downstream	2,048	16		25,597	0.045	0.48	0.022		0.141	1.8	256	
	C	East, Downstream	5,206	16		65,058	0.045	0.48	0.022		0.357	940	336,037	
	D	West, Downstream	1,757	16		21,963	0.045	0.48	0.022		0.121	78	9,413	
	E	West, Downstream	2,591	16		32,377	0.045	0.48	0.022		0.178	420	74,720	
Average	A	East, Adjacent Site	3,303	16	62%	31,788	0.045	0.48	0.022	2.55E-04	0.175	15	2,632	64335.5
	B	East, Downstream	2,048	16		19,713	0.045	0.48	0.022		0.108	1.8	197	
	C	East, Downstream	5,206	16		50,104	0.045	0.48	0.022		0.275	158	43,525	
	D	West, Downstream	1,757	16		16,915	0.045	0.48	0.022		0.093	23	2,164	
	E	West, Downstream	2,591	16		24,935	0.045	0.48	0.022		0.137	115	15,817	
Geometric Mean	A	East, Adjacent Site	3,303	16	60%	30,689	0.045	0.48	0.022	2.55E-04	0.169	9.3	1,566	21576.8
	B	East, Downstream	2,048	16		19,032	0.045	0.48	0.022		0.105	1.8	190	
	C	East, Downstream	5,206	16		48,372	0.045	0.48	0.022		0.266	51	13,639	
	D	West, Downstream	1,757	16		16,330	0.045	0.48	0.022		0.090	17	1,547	
	E	West, Downstream	2,591	16		24,073	0.045	0.48	0.022		0.132	35	4,635	

Notes:
1. River lengths are estimated based on the aerial deposition calculations in Appendix C.
2. River depths are measured in the onsite groundwater flow calculations in Appendix D.
3. The proportion of groundwater upwelling in the river bottom are estimated by taking the ratio of the Black Creek Aquifer discharge area to the total onsite groundwater discharge area, which can be found in Appendix D.
4. Onsite groundwater hydraulic gradients are calculated in Appendix D.
5. Gradient adjustments were calculated using a 20 ft LiDAR DEM to generate a slope map which was divided into different zones (Figures E-1 and E-2).
6. HFPO-DA concentrations statistics are listed in Table E-2.

HFPO-DA: Hexafluoropropylene oxide dimer acid; or dimer acid
L/s - liter per second
m - meter
m^2 - squared meter
m/m - meter per meter
m/s - meter per second
m^3/s - cubic meter per second
ng/L - nanogram per liter
ng/s - nanogram per second

TABLE E-2
OFFSITE RESIDENTIAL WELL HFPO-DA CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Area	Location	Sample Date	HFPO-DA Concentration (ng/L)	Number of Locations With Detects	Minimum Concentration (ng/L)	1st Quartile Concentration (ng/L)	Median Concentration (ng/L)	3rd Quartile Concentration (ng/L)	Maximum Concentration (ng/L)	Average Concentration (ng/L)	Geometric Mean Concentration (ng/L)
A	Private Well	14-Dec-17	21	10	1.8	8.0	10	17	50	15	9.3
	Private Well	12-Dec-17	<10								
	Private Well	13-Dec-17	38								
	Private Well	24-Jan-18	50								
	Private Well	24-Jan-18	15								
	Private Well	24-Jan-18	<10								
	Private Well	25-Apr-18	1.79								
	Private Well	25-Apr-18	1.79								
	Private Well	25-Apr-18	1.79								
	Private Well	9-Jan-18	<10								
	Private Well	11-Apr-18	36.9								
	Private Well	11-Dec-17	<10								
	Private Well	15-Jan-18	<10								
	Private Well	30-Nov-17	13								
	Private Well	30-Nov-17	<10								
	Private Well	11-Apr-18	1.86								
B	Private Well	11-Apr-18	1.82	1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
C	Private Well	18-Oct-17	49	16	1.8	11	56	136	940	158	51
	Private Well	15-Dec-17	<10								
	Private Well	31-Jan-18	527								
	Private Well	30-Nov-17	20								
	Private Well	29-Nov-17	<4								
	Private Well	30-Apr-19	240								
	Private Well	14-Aug-18	<10								
	Private Well	9-May-18	36								
	Private Well	4-Jan-18	<10								
	Private Well	12-Dec-17	76								
	Private Well	18-Mar-19	940								
	Private Well	6-Aug-18	780								
	Private Well	22-Sep-17	250								
	Private Well	14-Dec-17	78								
	Private Well	5-Jan-18	12								
	Private Well	5-Jan-18	<10								
	Private Well	5-Dec-17	24								
	Private Well	6-Dec-17	63								
	Private Well	5-Dec-17	94								
	Private Well	5-Dec-17	150								
	Private Well	7-Dec-17	<10								
	Private Well	6-Dec-17	85								
D	Private Well	1-Feb-18	18	4	1.8	10	14	21	78	23	17
	Private Well	1-Mar-18	<10								
	Private Well	7-Feb-18	<10								
	Private Well	15-Dec-17	23								
	Private Well	8-Feb-18	<10								
	Private Well	8-Feb-18	14								
	Private Well	14-Dec-17	78								
E	Private Well	13-Nov-17	<10	7	1.8	10	10	175	420	115	35
	Private Well	6-Dec-17	<10								
	Private Well	7-Dec-17	420								
	Private Well	7-Dec-17	<10								
	Private Well	7-Dec-17	<10								
	Private Well	27-Jul-18	120								
	Private Well	27-Jul-18	22								
	Private Well	20-Oct-17	360								
	Private Well	16-Oct-17	<10								
	Private Well	9-Apr-19	400								
	Private Well	20-Oct-17	<10								
	Private Well	23-Oct-17	<10								
	Private Well	23-Oct-17	95								
	Private Well	23-Oct-17	<10								
	Private Well	23-Oct-17	<10								
	Private Well	6-Nov-17	340								

Notes:
HFPO-DA: Hexafluoropropylene oxide dimer acid; or dimer acid
ng/L - nanograms per liter
< - not detected

TABLE E-3
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA
Chemours Fayetteville Works, North Carolina

Analytical Method	Common Name	Chemical Name	CASN	Approximate Concentration Ratio to HFPO-DA
Table 3+ Lab SOP	HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	1.00
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	0.67
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	NA
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	0.49
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	1.44
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	0.11
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	0.11
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	2.22
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	NA
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	NA
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	NA
	R-EVE	R-EVE	EVS1428	NA
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	0.22
	Byproduct 4	Byproduct 4	EVS1429	NA
	Byproduct 5	Byproduct 5	EVS1430	NA
	Byproduct 6	Byproduct 6	EVS1431	NA
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	NA
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	NA
	PFESA-BP1	Byproduct 1	29311-67-9	NA
	PFESA-BP2	Byproduct 2	749836-20-2	NA
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	0.03
	PFDA	Perfluorodecanoic acid	335-76-2	NA
	PFDoA	Perfluorododecanoic acid	307-55-1	NA
	PFHpA	Perfluoroheptanoic acid	375-85-9	NA
	PFNA	Perfluorononanoic acid	375-95-1	NA
	PFOA	Perfluorooctanoic acid	335-67-1	0.01
	PFHxA	Perfluorohexanoic acid	307-24-4	0.01
	PFPeA	Perfluoropentanoic acid	2706-90-3	NA
	PFTeA	Perfluorotetradecanoic acid	376-06-7	NA
	PFTriA	Perfluorotridecanoic acid	72629-94-8	NA
	PFUnA	Perfluoroundecanoic acid	2058-94-8	NA
	PFBS	Perfluorobutanesulfonic acid	375-73-5	NA
	PFDS	Perfluorodecanesulfonic acid	335-77-3	NA
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	NA
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	NA
	PFNS	Perfluorononanesulfonic acid	68259-12-1	NA
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	NA
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	NA
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	NA
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	NA
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	NA
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	NA
	NEtFOSAA	NEtFOSAA	2991-50-6	NA
	NEtPFOSA	NEtPFOSA	4151-50-2	NA
	NEtPFOSAE	NEtPFOSAE	1691-99-2	NA
	NMeFOSAA	NMeFOSAA	2355-31-9	NA
	NMePFOSA	NMePFOSA	31506-32-8	NA
	NMePFOSAE	NMePFOSAE	24448-09-7	NA
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	NA
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	NA
	PFODA	Perfluorooctadecanoic acid	16517-11-6	NA
	PFOSA	Perfluorooctanesulfonamide	754-91-6	NA
	F-53B Major	F-53B Major	73606-19-6	NA
	F-53B Minor	F-53B Minor	83329-89-9	NA
	ADONA	4,8-dioxa-3H-perfluorononanoate	958445-44-8	NA
	NaDONA	NaDONA	EVS1361	NA
	DONA	DONA	919005-14-4	NA

Notes:
1. Approximate concentration ratios based on measured PFAS concentrations from Locations 30, 48, 71, 75, 77, and 79 of the Carbon Pilot Well Testing Program. The average of the concentration ratios among the six locations were used. For EPA 537 compounds, compounds detected less than 50% of the time in collected samples were classified as being NA.

APPENDIX E

FIGURES

N

30,000 ft linear length

13,250 ft linear length

Legend

Observed Seep (Natural Drainage)

slope (Degrees)

- 0 - 1.75
- 1.75 - 4.70
- 4.70 - 8.47
- 8.47 - 14.11
- 14.11 - 34.28

Notes:
Aerial provided by ESRI Basemaps 2017

2,500 1,250 0 2,500 Feet

Off-Site Topographic Slope Investigation Extent

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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Figure **E-1**

Path: C:\Users\jvarner\Documents\ArcGIS\Packages\TR0726_ProposedLocations_2385B9CD-94E6-4245-A049-B7CC12D92586\v105\TR0726_ProposedLocations.mxd; JK; 07/29/2019

N
W
E
S
6 mi
4 mi
2 mi
A
B
C
D
E
CUMBERLAND
ROBESON
CUMBERLAND
BLADEN
BLADEN
ROBESON
Cypress Lakes Golf Course
Cape Fear River
Buckhorn Swamp
Cold Camp Creek
Parkton
Lumber Bridge
Gallberry Swamp
Little Marsh Swamp
Big Marsh Swamp
Tenmile Swamp
Goodman Swamp
Phillips Creek
Harrison Creek
Ellis Creek
Turnbull Creek
Beaver Dam
Rennert
St Pauls
White Oak
Tar Heel
95

Legend

Offsite Private Well HFPO-DA Concentrations (ng/L)

- Non-detect or 0-10
- 10-70
- 70-140
- 140-1,400
- >1,400
- Site Boundary

Notes:
1. Black lines represent cardinal directions (N, E, S, W)
2. ng/L = nanograms per liter

2 1 0 2 Miles

HFPO-DA Sampling at Offsite Residential Wells

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
NC License No.: C-1500 and C-295

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Figure **E-2**

Path: H:\MXD\sTR0726 Proposed Off Site Locations All Aquifers.mxd Last Revised: 8/19/2019 Author: SLiu

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

APPENDIX F

SUMMARY OF SENSITIVITY ANALYSIS RESULTS

TABLE F-1
SUMMARY OF SENSTIVITY ANALYSIS RESULTS
Chemours Fayetteville Works, North Carolina

Sensitivity Scenario	Descirption	Transport Pathway Number	Potential PFAS Transport Pathway	Calibrated, Original Total Table3+ Mass Loading Estimate (ng/s)		Modeled Sensitivty Total Table 3+ Mass Loading Estimate (ng/s)		Empirical Total Table 3+ Estimated Loading (%)		Modeled Total Table 3+ Estimated Loading (%)		[Original - Sensitivty] (%)		Observations
				May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	
Aerial deposition on River	Aerial deposition load varied from 1,132 ng/s to 6,638 ng/s	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	15	--	--	Less than 0.5 % variation between original and sensitivity model
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	10	4	--	--	
		3	Aerial Deposition on River	7,093	7,093	41,598	41,598	0.1	0.1	0.4	0.3	-0.3	-0.3	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	22	17	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	9	10	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	16	8	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	23	29	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	0	0	0	0	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	4	3	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	10,412,319	12,789,599	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	
Flow Rates for Willis Creek	Reduced Willis Creek Flow by 10%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	15	0	0	Less than 1% variation between original and sensitivity model
		2	Willis Creek	1,056,363	494,506	948,998	444,246	10	4	9	3	0.9	0.4	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	22	17	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	9	10	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	16	8	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	24	30	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	4	3	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	10,270,448	12,704,833	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	
Flow Rates for Willis Creek	Reduced Willis Creek Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	15	--	--	2 - 5 % variation between original and sensitivity model
		2	Willis Creek	1,056,363	494,506	529,138	247,701	10	4	5	2	5	2	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	23	17	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	10	11	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	17	8	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	25	30	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	4	3	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	9,850,589	12,508,288	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	

TABLE F-1
SUMMARY OF SENSTIVITY ANALYSIS RESULTS
Chemours Fayetteville Works, North Carolina

Sensitivity Scenario	Descirption	Transport Pathway Number	Potential PFAS Transport Pathway	Calibrated, Original Total Table3+ Mass Loading Estimate (ng/s)		Modeled Sensitivty Total Table 3+ Mass Loading Estimate (ng/s)		Empirical Total Table 3+ Estimated Loading (%)		Modeled Total Table 3+ Estimated Loading (%)		[Original - Sensitivty] (%)		Observations
				May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	
Flow Rates for Willis Creek	Increase Willis Creek Flow by 10%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	15	--	--	Less than 2% variation between original and sensitivity model
		2	Willis Creek	1,056,363	494,506	1,161,803	543,865	10	4	11	4	-0.9	-0.4	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	22	17	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	9	10	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	16	8	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	23	29	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	4	3	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	10,483,254	12,804,452	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	
Flow Rates for Willis Creek	Increase Willis Creek Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	14	--	--	2 - 5 % variation between original and sensitivity model
		2	Willis Creek	1,056,363	494,506	1,587,414	743,102	10	4	15	6	-4	-2	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	3	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	21	17	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	9	10	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	15	8	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	22	29	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	4	3	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	10,908,865	13,003,690	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005							
Flow Rates for Seeps	Reduced Seeps Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	5	17	--	--	Less than 8% decrease in overall mass loading between original and sensitivity model. Decrease in mass loading for Seep A between 4% and 8 %, Seep B between 1% and 7 %, Seep C less than 1 %, and Seep D less than 2%
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	12	4	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	8	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	27	19	--	--	
		6A	Seep A	967,485	1,325,336	446,281	296,430	9	10	5	3	4	8	
		6B	Seep B	1,683,557	1,038,907	772,558	845,720	16	8	9	8	7	1	
		6C	Seep C	215,507	282,525	173,835	173,000	2	2	2	2	0	1	
		6D	Seep D	494,879	467,789	246,705	233,201	5	4	3	2	2	2	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	28	34	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	5	4	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	8,655,764	11,188,887	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	

TABLE F-1
SUMMARY OF SENSTIVITY ANALYSIS RESULTS
Chemours Fayetteville Works, North Carolina

Sensitivity Scenario	Descirption	Transport Pathway Number	Potential PFAS Transport Pathway	Calibrated, Original Total Table3+ Mass Loading Estimate (ng/s)		Modeled Sensitivty Total Table 3+ Mass Loading Estimate (ng/s)		Empirical Total Table 3+ Estimated Loading (%)		Modeled Total Table 3+ Estimated Loading (%)		[Original - Sensitivty] (%)		Observations
				May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	
Flow Rates for Seeps	Increase Seeps Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	13	--	--	Less than 14% increase in overall mass loading between original and sensitivity model. Decrease in mass loading for Seep A between 2% and 4 %, Seep B between 4 and 10 %, Seep C between 1 and 23 %, and Seep D less than 1%
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	9	4	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	3	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	20	15	--	--	
		6A	Seep A	967,485	1,325,336	1,338,842	889,290	9	10	11	6	-2	4	
		6B	Seep B	1,683,557	1,038,907	2,317,673	2,537,160	16	8	20	18	-4	-10	
		6C	Seep C	215,507	282,525	521,504	519,000	2	2	4	4	-2	-1	
		6D	Seep D	494,879	467,789	493,410	466,401	5	4	4	3	1	0	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	21	27	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	3	3	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	11,687,814	14,052,387	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	
Flow Rates for Old Outfall 002	Reduced Old Outfall 002 Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	5	18	--	--	Estimated loading lower by 10% to 16% between original and sensitivity model
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	12	5	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	9	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	25	21	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	11	13	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	18	10	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	3	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	1,185,765	1,391,765	23	29	13	13	10	16	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	4	4	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	9,146,422	10,396,278	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	
Flow Rates for Old Outfall 002	Increased Old Outfall 002 Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	3	13	--	--	Estimated loading increased by 9% to 14% between original and sensitivity model
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	8	3	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	3	6	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	18	15	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	8	9	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	13	7	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	4	3	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	4,743,060	5,567,058	23	29	37	38	-14	-9	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	3	3	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	12,703,717	14,571,572	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	

TABLE F-1
SUMMARY OF SENSTIVITY ANALYSIS RESULTS
Chemours Fayetteville Works, North Carolina

Sensitivity Scenario	Descirption	Transport Pathway Number	Potential PFAS Transport Pathway	Calibrated, Original Total Table3+ Mass Loading Estimate (ng/s)		Modeled Sensitivty Total Table 3+ Mass Loading Estimate (ng/s)		Empirical Total Table 3+ Estimated Loading (%)		Modeled Total Table 3+ Estimated Loading (%)		[Original - Sensitivty] (%)		Observations
				May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	
Flow Rates for Old Outfall 002	Increased Old Outfall 002 Flow by 100%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	3	11	--	--	Estimated loading between original and sensitivity model increased by 16% to 21%
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	7	3	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	3	6	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	16	13	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	7	8	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	12	6	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	3	3	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	6,324,080	7,422,744	23	29	44	45	-21	-16	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4	3	3	2	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	14,284,737	16,427,258	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	
Flow Rates for Georgia Branch Creek	Decreased Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	15	--	--	Estimated loading between original and sensitivity model decreased by 2%
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	10	4	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	23	17	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	9	11	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	17	8	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	24	30	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	196,581	193,863	4	3	2	2	2	2	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	10,184,061	12,543,120	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	
Flow Rates for Georgia Branch Creek	Increased Georgia Branch Creek Flow by 50%	1	Up-Stream River	429,550	1,868,529	429,550	1,868,529	4	15	4	14	--	--	50% incease in Georgia Branch Creek flow rate increases estimated loading by 2%
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10	4	10	4	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4	7	4	7	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22	17	22	17	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9	10	9	10	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16	8	16	8	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2	2	2	2	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5	4	5	4	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23	29	23	29	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	617,826	609,283	4	3	6	5	-2	-2	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	10,605,306	12,958,541	100	100	100	100	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	

TABLE F-1
SUMMARY OF SENSTIVITY ANALYSIS RESULTS
Chemours Fayetteville Works, North Carolina

Sensitivity Scenario	Descirption	Transport Pathway Number	Potential PFAS Transport Pathway	Calibrated, Original Total Table3+ Mass Loading Estimate (ng/s)		Modeled Sensitivty Total Table 3+ Mass Loading Estimate (ng/s)		Empirical Total Table 3+ Estimated Loading (%)		Modeled Total Table 3+ Estimated Loading (%)		[Original - Sensitivty] (%)		Observations
				May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	May-19	Jun-19	
On site groundwater	Discharge length varied from 52% - 41%	Total Estimated Mass Flux and Corresponding River Concentration		9,289,800	11,667,623	--	--	--	--	--	--	-7	-13	9% decrease in discharge length < 4% decrease in total mass loading
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	--	--	--	--	--	--	--	--	
	Discharge length varied from 41% - 76%	Total Estimated Mass Flux and Corresponding River Concentration		11,529,828	13,906,533	--	--	--	--	--	--	16	3	35% increase in discharge length < 16% increase in total mass loading
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	--	--	--	--	--	--	--	--	
Off site groundwater	Changed offsite hydraulic conductivity value from 2.5 x 10^{-4} m/s to 1 x 10^{-6} m/s	Total Estimated Mass Flux and Corresponding River Concentration		10,339,952	12,717,236	--	--	--	--	--	--	-0.2	-0.2	2 order of mag increase in offsite K value - less than 0.2% change in mass loading
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		10,364,058	12,741,341	--	--	--	--	--	--	--	--	
Upstream Concentrations	Changed CFR-RM-76 sample non-detect concentrations from zero to method detection limit	1	Up-Stream River	429,550	1,868,529	2,610,860	3,130,323	4%	15%	25%	22%	-20%	-8%	Up-stream River Tranpost Pathway increased 8 - 20% when changing non-detect samples from zero to method detection limit.
		2	Willis Creek	1,056,363	494,506	1,056,363	494,506	10%	4%	10%	4%	--	--	
		3	Aerial Deposition on River	7,093	7,093	7,093	7,093	< 2%	< 2%	< 2%	< 2%	--	--	
		4	Outfall 002	375,836	918,968	375,836	918,968	4%	7%	4%	7%	--	--	
		5	Onsite Groundwater	2,309,468	2,164,439	2,309,468	2,164,439	22%	17%	22%	17%	--	--	
		6A	Seep A	967,485	1,325,336	967,485	1,325,336	9%	10%	9%	10%	--	--	
		6B	Seep B	1,683,557	1,038,907	1,683,557	1,038,907	16%	8%	16%	8%	--	--	
		6C	Seep C	215,507	282,525	215,507	282,525	2%	2%	2%	2%	--	--	
		6D	Seep D	494,879	467,789	494,879	467,789	5%	4%	5%	4%	--	--	
		7	Old Outfall 002	2,417,156	3,750,579	2,417,156	3,750,579	23%	29%	23%	29%	--	--	
		8	Offsite Groundwater	30,587	30,587	30,587	30,587	< 2%	< 2%	< 2%	< 2%	--	--	
		9	Georgia Branch Creek	390,334	405,836	390,334	405,836	4%	3%	4%	3%	--	--	
		Total Estimated Mass Flux and Corresponding River Concentration		10,377,814	12,755,093	10,605,306	14,016,887	--	--	--	--	--	--	
		Measured Concentration and Calculated Mass Loading at Bladen Bluffs		9,959,601	13,447,005	9,959,601	13,447,005	--	--	--	--	--	--	

Notes:

1. For each sensitivity test, one of the above Transport Pathway inputs to the calibrated model is varied and the resulting model estimated Total Table 3+ PFAS mass loading is compared with the original calibrated model Total Table 3+ PFAS mass loading.

- ng/s: nanograms per second
- %: percent

ATTACHMENT 2:

Seeps and Creeks Investigation Report

Geosyntec consultants

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

SEEPS AND CREEKS INVESTIGATION REPORT

Prepared for

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22828 NC Highway 87
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Prepared by

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Geosyntec Project Number TR0795

August 26, 2019

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ACRONYMS AND ABBREVIATIONS

COC – Chain of Custody
DFSA – Difluoro-sulfo-acetic acid
DQO – data quality objectives
DVM – Data Verification Module
EIM – Environmental Information Management
ft bgs – feet below ground surface
GPM – gallons per minute
HDPE – High Density Polyethylene
HFPO-DA – Hexafluoropropylene oxide dimer acid
mL – Milliliter
MMF – Difluoromalonic acid
MS – Matrix spike
MSD – Matrix spike duplicate
MSL – mean sea level
MTP – Perfluoro-2-methoxypropanoic acid
NCDEQ – The North Carolina Department of Environmental Quality
ng/L – Nanograms per liter
NVHOS - Perfluoroethoxysulfonic acid
PFAS – Per- and polyfluoroalkyl substances
PFO5DA – Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid
PPF Acid – Perfluoropropionic acid
QA/QC – Quality assurance/ quality control
RPD – Relative percent difference
SOP –Standard Operating Procedure
µS/cm – microsiemens per centimeter
WWTP – wastewater treatment plant

Geosyntec consultants

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

This report has been prepared under the direction of a North Carolina Licensed Geologist, subject to limitations of currently available data in an ongoing site investigation. Geosyntec Consultants of NC, PC is licensed to practice geology in North Carolina. The certification number (Firm's License Number) is C-295. Geosyntec Consultants of NC, PC is licensed to practice engineering in North Carolina. The certification number (Firm's License Number) is C-3500.

Not considered final until all signatures have been applied.

1. INTRODUCTION

This report was prepared by Geosyntec Consultants of NC, P.C. (Geosyntec) for The Chemours Company FC, LLC (Chemours) to provide a summary of assessment activities conducted to evaluate flow rates and concentrations of per- and polyfluoroalkyl substances ("PFAS") in seeps and creeks in the vicinity of the Chemours Fayetteville Works, North Carolina site (the Site, Figure 1). This report was prepared to support the PFAS mass loading evaluation prepared pursuant to Paragraph 12(a) in the executed Consent Order entered February 25, 2019 between Chemours and the North Carolina Department of Environmental Quality (NCDEQ) with the Cape Fear River Watch as intervenor.

1.1 Site Setting

The Site is located in the northwestern portion of Bladen County and southern portion of Cumberland County about 20 miles from Fayetteville, NC. Chemours operates two manufacturing areas on the Site, the Chemours Monomers IXM Area and the Polymer Processing Aid Area (PPA Area). Chemours also operates the wastewater treatment plant (WWTP) and Power Area at the Site; filtered water and demineralized water are produced in the Power Area. Two tenants also operate on the Site; Kuraray America Inc. (Kuraray) and E.I. du Pont de Nemours and Company (DuPont).

The land surface is relatively flat in the manufacturing areas of the Site and slopes down a bluff with about a 100-foot change in elevation towards the Cape Fear River on the east side of the Site. To the north of the Site, the property slopes towards Willis Creek, which is a tributary that discharges to the Cape Fear River. To the south of the manufacturing area is the Old Outfall Channel, which also discharges to the Cape Fear River. Further south, off the Site, is Georgia Branch Creek which is a tributary to the Cape Fear River.

Site Geology

As described by Parsons (2018), Bladen County is within the Coastal Plain Physiographic Province, which consists of a seaward thickening wedge of sedimentary deposits ranging in age from Cretaceous to Recent. Paleozoic metamorphic and igneous rocks underlie these deposits. The Site is underlain by the Black Creek Formation, which is characterized by lignitic clay with thin beds and laminae of fine-grained micaceous sand as well as thick lenses of cross-bedded sand. The upper portion of the formation may also contain glauconitic, fossiliferous clayey sand lenses. The Black Creek Formation and surficial deposits are the principal potable water aquifers in the region.

Based on the lithology logged during previous on-site investigations, the Site is underlain by a fine- to medium-grained sand unit with thin discontinuous interbedded silt/clay lenses. The sand extends to a depth of approximately 65 feet below ground surface (ft bgs) (elevation of +80 feet mean sea level, MSL). The saturated portion of this unit has been identified as the Surficial Aquifer. Beneath this unit is a 7- to 15-foot-thick, laterally-continuous dense clay that has been identified as the Black Creek Confining Unit.

The elevation of this unit (approximately +65 to +77 ft MSL) indicates that it, too, should outcrop along the bluff face adjacent to the Cape Fear River, and potentially along the embankment near Willis Creek. Beneath this confining unit is the Black Creek Aquifer, which is approximately 8 to 20 ft thick and is encountered at depth between 80 and 100 ft bgs (elevation of approximately +45 to +65 ft MSL) at the top of the bluff. Beneath this aquifer is a massive dense clay (with minor sand stringers) that has been identified as the Upper Cape Fear Confining Unit. This unit was not fully penetrated at the Site; however, it extended to at least 200 ft bgs (elevation of -55 ft MSL).

Beneath the manufacturing area, the uppermost sand unit is locally bisected by an aerially extensive stiff clay lens. This clay lens is limited in lateral extent to the east, north and south by local topography and pinches out (terminates) to the west of the manufacturing area. The depth to the top of the clay lens is approximately 15 to 18 ft bgs. The clay lens becomes thinner moving west across the manufacturing area and ranges from approximately one foot to approximately 19 feet (ft) thick.

Site Hydrogeology

The hydrogeology of the Site includes a perched water zone and two aquifers; the Perched Zone, the Surficial Aquifer and the Black Creek Aquifer.

The Perched Zone is aerially limited and generally is located above the top of a discontinuous clay layer present in the manufacturing area. Based on recent investigations and on-going evaluations, the Perched Zone may have been influenced by seepage of water through the previously unlined sedimentation basins and infiltration of non-contact cooling water from previously unlined drainage ditches. In 2018, the sedimentation basins and cooling water channel were lined. Where perched water is present, it is encountered from between 6 to 20 ft bgs. The lateral extent of the Perched Zone is controlled by topography and the lateral extent of the clay lens.

The Surficial and Black Creek Aquifers are mostly separated by the Black Creek confining unit, a clay layer. This clay layer is not fully confining as geological and geochemical data indicate water and PFAS transfer has occurred from the Surficial

Aquifer to the Black Creek Aquifer. The Black Creek Aquifer is the uppermost identified regional hydrogeologic unit. Flow in the Black Creek Aquifer is toward the Cape Fear River. The Cape Fear River stage is also lower than the base of the Black Creek Aquifer, indicating that the Cape Fear River is also a discharge boundary for the Black Creek Aquifer.

Below the Black Creek Aquifer is the Upper Cape Fear Confining Unit. This clay is over 30-ft thick and is an aquitard to potential further downward flow based on limited on Site geological borings and USGS groundwater wells at the Site that demonstrate minimal hydraulic connection between the Black Creek Aquifer and the Upper Cape Fear Aquifer.

The Surficial Aquifer is a shallow unconfined aquifer encountered at approximately 50 ft bgs. Groundwater elevations range from approximately 100 to 107 ft above MSL in the western areas of the Site to approximately 93 ft above MSL in the eastern areas of the Site, indicating that groundwater flow is generally toward the Cape Fear River. The Cape Fear River stage is typically near +30 ft MSL, which is lower than the base elevation of the Surficial Aquifer, indicating that the Cape Fear River is a discharge boundary for the Surficial Aquifer. Based on groundwater elevations near Willis Creek, portions of the creek are "gaining" (groundwater discharges to the creek) and portions are "losing" (surface water infiltrates to the underlying groundwater). Georgia Branch Creek also appears to be a gaining stream near where State Road 1303 crosses Highway 87.

The focus of this report is to further assess the bluff and evaluate if groundwater is contributing to the seeps.

PFAS Originating from the Site

PFAS is a term used for a group of man-made carbon-based chemicals composed of a fully or partially fluorinated chain of carbon atoms (referred to as a "tail") at one end of the carbon chain and a nonfluorinated, polar functional group (referred to as a "head") at the other end. Recent estimates (Wang et. al., 2017) suggest over 3,000 PFAS are or have been produced across various industries and for various applications. Chemours manufactures per- and polyfluoroalkyl ether compounds and polymers at the Site. The PFAS originating from the Chemours Fayetteville Works Site are characterized primarily by the presence of ether bonds, i.e. two carbons connected by an oxygen atom. To date twenty-four (24) PFAS compounds that are present in Site process water have been identified and had reference standards produced (Geosyntec, 2019a). Of these twenty-four (24) compounds, analytical methods exist for twenty (20), the Table 3+ SOP method, with methods presently being developed for the remaining four (4) compounds [Difluoro-sulfo-acetic acid (DFSA), Difluoromalonic acid (MMF), Perfluoro-2-methoxypropanoic

acid (MTP) and Perfluoropropionic acid (PPF Acid)]. PFAS from other sources are also present in the Cape Fear River (Geosyntec, 2018). The current grouping of Table 3+ PFAS, including Hexafluoropropylene oxide dimer acid (HFPO-DA) which can also be analyzed by other methods, is used to represent PFAS loads originating from the facility

Before modifying operations, PFAS associated with the Site were released through a range of pathways, including: (i) to air via air emissions, (ii) to surface water via Outfall 002, and (iii) to soil and groundwater from piping that has either been replaced or will be replaced as described later in this Reduction Plan. These PFAS releases have resulted in PFAS being detected in environmental media both onsite and offsite. Geosyntec developed a mass loading model (Geosyntec, 2019b) pursuant to Consent Order Paragraph 12 that assesses relative PFAS loading contributions from nine different transport pathways.

1.2 Objectives

Paragraph 12(a) of the Consent Order requires that Chemours develop a plan to achieve the maximum reductions in PFAS loading from the Site to the Cape Fear River that are economically and technically feasible within a two-year period. Development of this plan required evaluation of PFAS loadings from the Site that reach the Cape Fear River. While other investigations are evaluating PFAS loadings from Outfall 002 at the Site, it was also necessary to understand potential PFAS loadings from other pathways in the vicinity of the Site. These pathways included Old Outfall 002, creeks upstream and downstream of the site (Willis Creek and Georgia Branch Creek, respectively) and groundwater seeps north, east, and south of the manufacturing area. Several groundwater seeps were observed at and downgradient of the bluff on the eastern side of the Site, and others were observed along the reaches of Old Outfall 002, Willis Creek, and Georgia Branch Creek. Flow from these seeps and creeks may contribute PFAS loading to the Cape Fear River separate from the contribution due to Outfall 002. The Seeps and Creeks Investigation was implemented to evaluate PFAS loading from the Site to the Cape Fear River associated with the seeps and creeks.

In order to evaluate mass loading from seeps and creeks, Chemours and its contractors conducted three rounds of sample collection and flow measurements in February, May, and June 2019. The field effort was conducted according to the following workplans:

- *Creeks, Old Outfall 002 and Seeps Assessment Workplan* (Geosyntec, 2019c);
- *Additional Creeks, Old Outfall 002 and Seeps Investigation Plan* (Geosyntec, 2019d); and

- *Willis Creek and Seep D Assessment Plan* (Geosyntec, 2019e)

The objectives of the Seeps and Creeks Investigation were as follows:

- Identify seeps and creeks in the vicinity of the Site that enter the Cape Fear River;
- Assess the base volumetric flow rate of seeps and creeks entering the Cape Fear River at and near the Site;
- Assess gain in stream flow of the creeks and seeping water flow towards the Cape Fear River;
- Assess PFAS concentrations in waters to obtain more information on PFAS mass loading as it pertains to the Cape Fear River during wet and dry conditions;
- Assess regions of groundwater upwelling near the stream bed in Willis Creek, Georgia Branch Creek, Old Outfall 002, and the channels with flowing water from seeps.

1.3 Scope of Work

The Seeps and Creeks Investigation was conducted during field events in February, May, and June 2019. Activities conducted to support the Seeps and Creeks Investigation were as follows:

- Collecting water samples from seeps, creeks, and the Cape Fear River for PFAS during wet and dry conditions;
- Gauging seep and creek volumetric flow during wet and dry conditions;
- Assessing temperature contrasts near the stream bed to aid in identification of areas of groundwater upwelling; and
- Observing stream channels to visually identify areas of groundwater seepage.

Further details on scope conducted for each field event are described in Section 2.1 below.

1.4 Report Organization

The remainder of this document is organized as follows:

Section 2 – Scope and Methods: This section describes the scope of work conducted during each field event and the methods implemented in the field and laboratory;

Section 3 – Results and Observations: This section presents the results of the Seeps and Creeks Investigation and discusses the results in the context of the investigation objectives;

Section 4 – Summary and Planned Future Actions: This section summarizes the findings of the Seeps and Creeks Investigation and describes additional planned efforts related to the seeps and creeks; and

Section 5 – References: This section lists the references used in this report.

2. SCOPE AND METHODS

This section describes the methods implemented during the Seeps and Creeks Investigation as well as the scope of work conducted during each field event. A photo log is provided in Appendix A, showing select seep areas and activities.

2.1 Scope of Field Events

2.1.1 February 2019 Event

The February 2019 Event was completed by Geosyntec and Parsons of North Carolina Inc. (Parsons) according to the *Creeks, Old Outfall 002 and Seeps Assessment Workplan* (Geosyntec, 2019c) between February 1 and 7, 2019. Sampling and flow gauging locations are shown on Figure 2A and listed in Table 1. Compounds evaluated as part of this field event are listed in Table 2. Samples for PFAS analysis were collected at thirty-eight locations, and flow rates were measured at fifteen locations. In the three days (72 hours) preceding the start of this field event 0.09 inches of rain was measured in the vicinity of the Site; otherwise there was no measurable precipitation during this event (Table 3). The February 2019 Event was considered a dry weather event for the purposes of the Seeps and Creeks Investigation, since there was a continuous period of 72 hours without rainfall greater than 0.25 inches prior to sample collection.

Samples were collected for PFAS analysis from locations in Seep A, Seep B, Seep C, Old Outfall 002, Willis Creek, and the Cape Fear River (Figure 2A). Flow gauging measurements were conducted at locations in Seep A, Seep B, Seep C, Old Outfall 002, and Willis Creek. Flow was measured at these locations using salt dilution gauging and flow velocity gauging. Temperature contrasts between groundwater and surface water were assessed in Old Outfall 002 using a submersible temperature probe and an infrared camera.

2.1.2 May 2019 Event

The May 2019 Event was completed by Geosyntec and Parsons according to the *Creeks, Old Outfall 002 and Seeps Assessment Workplan* (Geosyntec, 2019c) and the *Additional Creeks, Old Outfall 002 and Seeps Investigation Plan* (Geosyntec, 2019d) between May 20 and 30, 2019. Sampling and flow gauging locations are shown on Figure 2B and listed in Table 1. Compounds evaluated as part of this field event are listed in Table 2. Samples for PFAS analysis were collected at thirty-eight locations, and flow rates were measured at eleven locations. On the first day of this sampling event, approximately 0.24 inches of rain was measured in the vicinity of the Site; otherwise there was no measurable

precipitation during this event (Table 3). The May 2019 Event was considered a dry weather event for the purposes of the Seeps and Creeks Investigation, since there was a continuous period of 72 hours without rainfall greater than 0.25 inches prior to sample collection.

Samples were collected for PFAS analysis from locations in Seep A, Seep B, Seep C, Seep D, Old Outfall 002, Willis Creek, Georgia Branch Creek, the Cape Fear River, the excess river water location, and Outfall 002. Flow gauging measurements were conducted at locations in Seep A, Seep B, Seep C, Seep D, Old Outfall 002, Willis Creek, and Georgia Branch Creek. Flow was measured at these locations using salt dilution gauging, flow velocity gauging, and temporary weir installation. Additional areas were inspected for other channelized seeps that may reach the Cape Fear River so that they could be incorporated into the investigation.

2.1.3 June 2019 Event

The June 2019 Event was completed by Geosyntec and Parsons according to the *Creeks, Old Outfall 002 and Seeps Assessment Workplan* (Geosyntec, 2019c), the *Additional Creeks, Old Outfall 002 and Seeps Investigation Plan* (Geosyntec, 2019d), and the *Willis Creek and Seep D Assessment Plan* (Geosyntec, 2019e) on June 7, 2019. Sampling and flow gauging locations are shown on Figure 2C and listed in Table 1. Compounds evaluated as part of this field event are listed in Table 2. Samples for PFAS analysis were collected at seventeen locations, and flow rates were measured at sixteen locations. In the two days (48 hours) preceding the start of the sampling event approximately 0.8 inches of rain was measured in the vicinity of the Site; otherwise there was no measurable precipitation during this event (Table 3). The June 2019 Event was considered a wet weather event for the purposes of the Seeps and Creeks Investigation, since there was greater than 0.25 inches of rain in the 72 hours prior to sample collection.

Samples were collected for PFAS analysis from locations in Seep A, Seep B, Seep C, Seep D, Old Outfall 002, Willis Creek, Georgia Branch Creek, the Cape Fear River, the excess river water location, and Outfall 002. Flow gauging measurements were conducted at locations in Seep A, Seep B, Seep C, Seep D, Old Outfall 002, Willis Creek, and Georgia Branch Creek. Flow was measured at these locations using salt dilution gauging, flow velocity gauging, and temporary weir installation.

2.2 Field Methods

2.2.1 General Field Procedures

All equipment was inspected by the field program supervisor and calibrated daily prior to use in the field according to the manufacturer's recommendations. Samples were collected for PFAS analysis before flow rate assessment. Samples were collected in 250 milliliter (mL) high density polyethylene (HDPE) bottles with a wide-mouth screw-cap. Sample bottles were filled and caps were securely fastened after sample collection. Each sample was labeled with a unique sample identification number, date, time and location of sampling, and the initials of the individual collecting the sample. A field notebook was used to record information regarding additional items such as quality assurance/ quality control (QA/QC), sample identifications, color, odor, turbidity, and other field parameters. Field parameters recorded from the sampling events are provided in Appendix B.

2.2.2 Decontamination Methods

Sample containers were new and used only once for each sample. Disposable equipment (e.g., gloves, tubing, etc.) was not reused, therefore; these items did not require decontamination.

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

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

2.2.3 Sample Shipping, Chain of Custody, and Holding Times

Upon sample collection, each labeled, containerized sample was placed into a heavy plastic bag inside an insulated sample cooler with ice. Prior to shipment of the samples to the laboratory, a chain of custody (COC) form was completed by the field sample custodian. Sample locations, sample identification numbers, description of samples, number of samples collected, and specific laboratory analyses to be performed on the samples were recorded on the COC form. The COC was signed by the field personnel relinquishing the samples to the courier and was signed by the laboratory upon receipt of the cooler.

2.2.4 Field QA/QC

The following field QA/QC samples were collected and analyzed along with the investigative samples:

- February 2019 Event
  - One equipment blank
  - Six field blanks
- May 2019 Event
  - Three equipment blanks
  - Seven field blanks
  - Five field duplicates
- June 2019 Event
  - One equipment blank
  - One field blank
  - One field duplicate

2.2.5 Creek and Seep Sample Collection Methods

Creek and seep water samples were collected as grab samples. 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.

2.2.6 Cape Fear River Water Sample Collection 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 sample bottle.

2.2.7 Seep Identification Methods

Seeps were identified for incorporation into the investigation by visual inspection and via temperature assessment.

Visual Inspection

Areas downgradient of the Site were inspected visually for channelized seeps. Such seeps were photographed and geolocated, and a sample was collected from the mouth of the seep before it reaches the river. Flow gauging was conducted at such locations using a weir, depending on site conditions.

Temperature Assessment

Areas of groundwater upwelling into surface water bodies were assessed using temperature differentials of groundwater versus surface water. Areas of upwelling were identified by placing a submersible temperature probe at the bottom of the stream and recording the temperature. If the temperature is similar to surface water temperatures, then the stream may not be in a zone of upwelling. However, if the stream bottom temperatures are different than surface water, groundwater is likely upwelling in this zone. Areas of upwelling were also identified by taking photographs of streams using an infrared camera where the water column was shallow enough to observe temperature differentials. The temperature assessment was only completed on Old Outfall 002 and only in the February event. In May and June, the temperature differences between groundwater and surface water were too similar, and the presence of seeping groundwater had been previously been identified in the February event in all seeps features. Infrared photographs are provided in Appendix C. Temperature assessments were conducted at Old Outfall 002 during part of the February Event (Table 1), on days when the ambient temperature was cool enough for the surface water/ groundwater temperature gradient to be observable. Otherwise, seeps were identified visually.

2.2.8 Flow Measurement Methods

Flow rate was measured after sample collection by one or more of several methods, depending on stream bed geometry, stream morphology, site accessibility, and health and safety considerations.

Flow Velocity Gauging

The flow rate of the streams can be measured using a submersible flow meter in deeper (greater than one foot deep), less turbulent and more laminar flow sections of streams. The height of the water and stream bottom is first recorded from a uniform reference plane along the cross section of the stream at a minimum of 4 points along each transect. The flow meter is placed beneath the flowing stream along the cross section of the stream at regular intervals (e.g. 4-5 points along each transect) and the water velocity is recorded

at a minimum of 3 water depths at each point along the transect (e.g. top-third, middle-third and bottom-third of the water column). These measurements are then used to calculate the volumetric flow of water passing through the feature based on the geometry and measured flow rates. A description of flow velocity measurement data is provided in Appendix D.

Salt Dilution Streamflow Gauging

The flow of streams can be measured by dosing at a constant flow rate into the stream a sodium chloride solution at a known concentration (Moore, 2004). Using a Mariotte bottle or constant flow pump, the salt solution was dosed into the flowing stream at a known flow rate. The relative concentration of salt in the stock solution and in the stream was measured using a conductivity probe reporting the result in units of microsiemens per centimeter (µS/cm). Using the known flow rate of the stock solution and the known concentrations of the stream and stock solution, the flow rate of the stream was calculated. Details on the salt dilution gauging data are provided in Appendix E.

Weir Installation

Temporary weirs were installed during the May and June events at some locations to refine previous flow rate estimates determined by flow velocity gauging and salt dilution streamflow gauging. Weirs were installed at accessible locations at the mouths of surface water features where the channel was at least 1.5 feet wide. Weirs were driven into the channel bottoms and sides and then stabilized. Water level, weir plate notch height from the creek bed, horizontal distance of the measurement point from the weir plate along the creek channel, thickness of downstream water column, and creek width at the weir installation location were recorded and used to calculate flow rate. Supporting details on weir installation are provided in Appendix F.

2.2.9 Documentation

The project field team kept a daily record of field activities during the execution of field work including sampling notes and observations, instrument calibration records, sample COC, and shipping records.

2.3 Laboratory Methods

2.3.1 Analytical Methods

Samples were analyzed for PFAS by the following methods:

- Table 3+ Laboratory Standard Operating Procedure (SOP); and
- EPA Method 537 Mod (Laboratory SOP).

PFAS reported under each of these methods are listed in Table 2.

2.3.2 Laboratory QA/QC

Field sampling and laboratory analyses were performed in accordance with the *Creeks, Old Outfall 002 and Seeps Assessment Workplan* (Geosyntec, 2019c). Samples were collected by the field team and shipped to TestAmerica Sacramento (TestAmerica) or Eurofins Lancaster Laboratories (Lancaster) under COC. Laboratory analyses were performed within the guidelines specified by the laboratory SOPs. The collection frequency of field duplicates, matrix spike / matrix spike duplicates (MS/MSD), field blanks, and equipment blanks was largely in accordance with the *Creeks, Old Outfall 002 and Seeps Assessment Workplan* (Geosyntec, 2019c). In some instances, field QA/QC sample collection deviated from the Workplan due to the significant amount of equipment and bottleware that the field team needed to carry with them. Flow measurement and collection of investigative samples were deemed the top priorities. Sufficient field QA/QC samples were collected to evaluate the data quality.

3. RESULTS AND OBSERVATIONS

Over three field events (February, May and June 2019) field teams identified four seeps, of varying size and reach discharging directly from the Site to the Cape Fear River. These seeps (A to D), Old Outfall 002 and Willis and Georgia Branch Creeks were gauged for flow, and samples collected to assess PFAS concentrations. Sampling was conducted under wet and dry conditions. In total 94 discrete water samples were collected from the seeps and creeks for PFAS analysis. A temperature survey of Old Outfall 002 was conducted to evaluate temperature variations as an indicator for groundwater upwelling.

3.1 Laboratory Analytical Data Quality

All data were reviewed using the Data Verification Module (DVM) within the Locus™ Environmental Information Management (EIM) system, which is a commercial software program used to manage data. Following the DVM process, a manual review of the data was conducted. The DVM and the manual review results were combined in a data review narrative report for each set of sample results, which were consistent with Stage 2b of the EPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use (EPA-540-R-08-005 2009). The narrative report summarizes which samples were qualified (if any), the specific reasons for the qualification, and any potential bias in reported results. The data usability, in view of the project's data quality objectives (DQOs), was assessed and the data were entered into the EIM system.

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

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

The manual review includes instrument-related QC results for calibration standards, blanks, and recoveries. The data review process (DVM plus manual review) applied the following data evaluation qualifiers to analysis results, as warranted:

- J – Analyte present. Reported value may not be accurate or precise;
- UJ – Analyte not detected. Reporting limit may not be accurate or precise; and
- B – Analyte detected in a blank sample. Reported value may have high bias.

The data review process described above was performed for all laboratory chemical analysis data generated for the sampling events. The DQOs were met for the analytical results for accuracy and precision. The data collected are believed to be complete, representative, and comparable.

3.1.1 Data Management and Reporting

Chemours's Analytical Data Quality Management team currently uses the EIM system for management of analytical data, xyz Site coordinate data, and field parameter data. Validation and qualification of data are performed by AECOM, who maintains the EIM system for the Chemours Fayetteville Site. A whitebook consisting of the data review narrative and the laboratory analytical report produced by AECOM summarizes the findings of the DVM and manual review process (Appendix G).

3.1.2 QA/QC Samples

PFAS concentrations for all field QA/QC samples are reported in Table 4. The following observations were noted for the QA/QC samples:

- No PFAS were detected above the associated reporting limits in the equipment blanks submitted for analysis.
- No PFAS were detected above the associated reporting limits in the field blanks submitted for analysis, with the following exceptions:
    - Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid (PFO5DA) was detected at or above the associated reporting limit (34 nanograms per liter [ng/L]) in one field blank collected in the February 2019 Event (370 ng/L) and in two field blanks collected in the May 2019 Event (34 ng/L and 37 ng/L). The February 2019 field blank result was J-qualified along with associated investigative samples collected the same day. PFO5DA in the May 2019 field blanks were both detected at or within 5-times the reporting limit. No further qualification was required.
    - Byproduct 5 was detected at the reporting limit (58 ng/L) in one field blank collected in the February 2019 Event. No further qualification was required.

  - HFPO-DA was detected within 5-times the reporting limit (1.8 ng/L) in one field blank collected in the February 2019 Event (2.2 ng/L J). No further qualification was required.
  - Byproduct 1 was detected at the reporting limit (27 ng/L) in one field blank collected in the May 2019 Event. No further qualification was required.
- The RPD for all field duplicate pairs was less than 30% for all PFAS, or less than 50% for PFAS detected within a factor of five of the associated reporting limits, with the following exceptions:
  - Byproduct 4 was detected at 20 ng/L in the parent sample FAY-SW-CFR-KINGS-052319 and was non-detect at the reporting limit (2 ng/L) in the associated field duplicate FAY-SW-CFR-KINGS-052319-D. The parent sample FAY-SW-CFR-KINGS-052319 was J-qualified during the DVM review as estimated.
  - Byproduct 5 was detected at 2 ng/L in the parent sample FAY-SW-CFR-RM-56-060719 and was detected at 4.5 ng/L in the associated field duplicate FAY-SW-CFR-RM-56-060719-D. Both results were J-qualified during the DVM review as estimated.
- In addition to data validation based on the field QA/QC results, field results were qualified based on laboratory QA/QC results, as described in the laboratory reports and DVM reports in Appendix G. Several results were J-qualified due to laboratory hold time exceedances, discussed further below in Section 3.2. In addition, some results, including those for some samples collected in the Cape Fear River upstream of the Site, were J-qualified and biased high due to variable matrix spike recoveries. These sample results are discussed further below in Section 3.3.4.

3.2 Results

Seeps identified during the Seeps and Creeks Investigation are shown on Figures 3A and 3B. The summary of locations identified via temperature assessment are reported in Table 5. Temperature assessments were conducted at Old Outfall 002 during part of the February Event (Table 1), on days when the ambient temperature was cool enough for the surface water/ groundwater temperature gradient to be observable. Otherwise, seeps were identified visually. Infrared photographs are provided in Appendix C. During some days in the February event, the May, and June events, the potential temperature differential was not significant enough to utilize this method to identify groundwater upwelling, and the presence of seeping groundwater had previously been identified in the February event in all seep features.

PFAS concentrations for samples collected during the Seeps and Creeks Investigation are reported in Table 4. Total Table 3+ Laboratory SOP concentrations are also reported in Table 4. Figures 4A, 4B, and 4C present the total Table 3+ Laboratory SOP concentrations reported for samples collected in February, May, and June, respectively. Figures 5A, 5B, and 5C present the HFPO-DA concentrations reported for samples collected in February, May, and June, respectively. Figure 6A presents the total Table 3+ Laboratory SOP concentrations reported for samples collected from the Cape Fear River in February, May, and June. Figure 6B presents the HFPO-DA concentrations reported for samples collected from the Cape Fear River in February, May, and June. Table 6A summarizes the total Table 3+ Laboratory SOP concentrations at select locations, and Table 6B summarizes the HFPO-DA concentrations at select locations. Appendix G provides the analytical reports and data review narrative whitebook for the Seeps and Creeks Investigation.

Several Table 3+ analytical compound results were J-qualified, as estimated, due to laboratory hold time exceedances. The hold time exceedances are largely due to additional time required by the laboratories to complete method development of Table 3+. Since these hold time exceedances did not result in rejection of the results, the J-qualified data still meet data quality standards and are usable as reported.

Calculated flow rates for all locations measured during the Seeps and Creeks Investigation are reported in Table 7. Table 8A presents the estimated flow rates measured for Seeps A through D and Georgia Branch Creek and Willis Creek, respectively, using the specified flow gauging method during each field event. Table 8B presents the estimated flow rates measured for Old Outfall 002 using available flow gauging techniques during each field event. The estimated flow rates are determined based on the geometric mean of field measurements.

3.2.1 Analytical Laboratory Compound Reporting Limits

Several PFAS reported in Table 4 were not detected at elevated reporting limits. The laboratories originally ran the samples using the high-level analysis as a precaution against instrumentation fouling. Now that more information on relative concentrations have been identified, future collected water samples for Table 3+ compounds will be analyzed at low-level analysis where appropriate which should provide lower reporting limits.

3.2.2 Flow Gauging Limitations and Assumptions

The flow gauging methods used in this investigation depended upon stream bed geometry, stream morphology, site accessibility, and health and safety considerations. The following limitations and assumptions were noted during flow gauging activities that may affect the accuracy of results. Table 7 identifies calculated flow rates that may be inaccurate due to these limitations.

Flow velocity gauging is most accurate in deep, less turbulent and more laminar flow sections of streams. This method depends on uniform water column thickness, so it becomes inaccurate if water column thickness is variable. This is often difficult to observe in deep or turbid water.

Salt dilution gauging becomes less accurate in streams with complex morphology and in very shallow streams, since this method requires relatively uniform flow across the width of a channel. Comparison of flow rates determined by salt dilution gauging to those determined by other methods indicates that salt dilution gauging tended to estimate higher flows when flows were less than 100 gallons per minute (GPM) and estimate lower flows when flows were greater than 100 GPM relative to the other methods.

Weir gauging requires all flow in a stream be diverted towards the weir. Any flow under or around the weir may lead to underestimates of flow rates. This is particularly challenging in sandy streams where water can flow through the sandy substrate of the stream bypassing the weir, and if there are tree roots or other debris present that can provide a preferential flow pathway also bypassing the weir.

3.3 Observations

Several seeps were identified during the Seeps and Creeks Investigation (Figure 3A and 3B). Both Seep A and Seep B can be traced from near the top of the bluff at the Site facilities down to the Cape Fear River. Seep C and Seep D both appear to begin farther from the facility and closer to the Cape Fear River. During field investigations, an additional branch of Seep A was identified, this surface water at this area is most likely discharging water from the pump house (located just north of SEEP-A-5-B-1 to the main section of Seep A as shown in Figure 3A). At Seep A, near location SEEP-A-3-B12, runoff from the parking lot at Chemours Monomers IXM appeared to contribute water flow to the seep (Figure 3A). Several seeps were also identified in Old Outfall 002, Willis Creek, and Georgia Branch Creek (as identified in Figures 2A, 2B, and 2C).

3.3.1 February 2019 Event

The February 2019 event was a dry weather event. Elevated PFAS concentrations were reported in samples collected from Seep A, Seep B, Seep C, and Old Outfall 002. In each of the seeps, at least two samples collected were reported to have total Table 3+ compounds greater than 100,000 ng/L. Samples collected from Seep A, Seep B, and Seep C were reported to have HFPO-DA concentrations typically between 10,000 ng/L and 100,000 ng/L, while samples collected from all locations along Old Outfall 002 were reported to have concentrations less than 10,000 ng/L. Lower concentrations were observed in Willis Creek, with total Table 3+ concentrations less than 2,200 ng/L. No consistent trend was observed moving upgradient to downgradient in Seeps A, B, and C and Old Outfall 002, while the samples collected from Willis Creek reported higher PFAS concentration closer to the Cape Fear River. Samples were not collected from Seep D or the portion of Seep A in the vicinity of the pump house during the February Event since they had not been identified at that time. Samples were not collected from Georgia Branch Creek due to delayed access approvals.

3.3.2 May 2019 Event

The May 2019 event was a dry weather event. Samples collected from Seep A, Seep B, Seep C, and Old Outfall 002 had PFAS concentrations, similar to those observed in February. Seep D was identified in May and samples collected and analyzed were reported to have total Table 3+ compounds of approximately 170,000 ng/L. Samples were also collected from the portion of Seep A in the vicinity of the pump house. The samples analyzed from the water collected at these locations have total Table 3+ compound concentrations similar to samples collected from other portions of Seep A. HFPO-DA concentrations in samples collected from the seeps and Old Outfall 002 in May were similar in magnitude to those collected in February. PFAS concentrations in the samples collected from Willis Creek were higher in May than in February, with total Table 3+ compounds between 3,000 ng/L and 22,000 ng/L. PFAS concentrations in samples collected along Georgia Branch Creek were observed to have total Table 3+ compounds between 1,100 and 3,500 ng/L. Both the sample collected at the excess river water location and the sample collected at Outfall 002 were non-detect for HFPO-DA in May, with a reporting limit of 86 ng/L. All Table 3+ compounds were similarly non-detect. Subsequent samples collected in June at these locations had improved reporting limits.

3.3.3 June 2019 Event

The June 2019 Event was a wet weather event. Samples were primarily collected from the mouths of the seeps and creeks. PFAS concentrations in samples collected at these

locations were similar to those observed in February and May. The precipitation leading up to the wet June event did not appear to affect PFAS concentrations in the seeps and creeks. The sample collected at the excess river water location in June had total Table 3+ concentration of less than 130 ng/L with HFPO-DA reported at 28 ng/L. The sample collected at Outfall 002 had total Table 3+ concentration of approximately 1,800 ng/L with HFPO-DA reported at 40 ng/L. These results are similar to previous observations at the excess river water location and Outfall 002.

3.3.4 Cape Fear River Concentrations

PFAS concentrations in the Cape Fear River are presented in Figure 6A and 6B. PFAS concentrations reported from samples collected during the February Event are higher downstream (River Mile 84) than upstream (River Mile 76) of the Site (e.g., HFPO-DA concentration of 13 ng/L downstream and 2.9 J ng/L upstream). In May, upstream samples collected at River Mile 56, 68, and 76 were non-detect at the reporting limit for HFPO-DA. Downstream concentrations were higher, with HFPO-DA concentrations of 28 ng/L at Bladen Bluffs and 17 ng/L at Kings Bluff. In June, HFPO-DA concentrations followed similar patterns to the May samples, with low to non-detect results upstream and results between 30 and 60 ng/L downstream.

Other PFAS, particularly Byproduct 4, Byproduct 5, and perfluoroethoxysulfonic acid (NVHOS) were observed in the upstream Cape Fear River samples in May and June 2019 at River Miles 56 and 68. The results for these compounds were J-qualified due to variable recoveries in the matrix spikes outside the acceptable range defined in the SOP which may cause the results to be overestimated. The detection of these compounds is not consistent with known transport pathways for PFAS originating from the facility. Specifically, in offsite groundwater, which is the transport pathway leading to upstream detections attributable to aerial emissions of PFAS from the facility, PMPA is the compound detected at the highest concentrations based on groundwater data reported in the Post Florence Report (Geosyntec, 2019f). Therefore, PMPA is expected to be detected first amongst the PFAS potentially reaching the river from offsite groundwater in the upstream river samples. In samples from River Mile 56, only these three Table 3+ samples are detected. While closer to Site in the upstream river at River Mile 68 PMPA is detected consistent with expected trends from offsite groundwater. These observations of Byproduct 4, Byproduct 5 and NVHOS will be further evaluated spatially and temporally through additional sampling events in the Cape Fear River to further understand their concentration and distribution.

3.3.5 Flow Observations

Seeps A and B have larger reaches compared to Seeps C and D and they were observed to have higher flow rates compared to Seeps C and Seep D. Flow rates at the mouths of Seeps A and B were 60 to 110 GPM and 50 to 90 GPM, respectively, determined by salt dilution gauging, while flow rates at the mouths of Seeps C and D were 10 to 15 GPM and 20 to 50 GPM, respectively, determined by salt dilution gauging and weir gauging. Flow rates in the seeps were variable between February, May, and June. Flow rates in Willis Creek were highest in June compared to February and May, which may be related to the precipitation observed prior to the June Event compared to the dry weather events in February and May. As discussed in Section 3.2.2, there are limitations to each of the flow gauging methods applied during the Seeps and Creeks Investigation. Table 7 and Table 8B demonstrate the variability in flow gauge results across these methods due to their limitations. The variability observed in the flow gauging results may be related to these limitations, which provide a foundation for continued flow assessment to increase understanding of seasonal variability and variability due to precipitation.

4. SUMMARY AND PLANNED FUTURE ACTIONS

This report provides a summary of the investigative activities and results of the Seeps and Creeks Investigations, conducted in February, May, and June 2019. The objectives of these field investigations were met. Seeps were identified, seep and creek flow rates measured, upwelling in stream beds was assessed and water samples collected from the seeps and creeks were analyzed for PFAS. These data further inform the site conceptual model and provide empirical data for the mass loading model that is being developed.

Four seeps (A to D) on the western edge of the Cape Fear River were identified and groundwater contributions to the seeps were investigated. Visual observations, flow gauging and temperature surveys were used in various locations to assess seepage. Seeps A and B have larger reaches compared to Seeps C and D and they were observed to have higher flow rates compared to Seeps C and D. Flow rates at the mouths of Seeps A and B were 60 to 110 GPM and 50 to 90 GPM, respectively, determined by salt dilution gauging, while flow rates at the mouths of Seeps C and D were 10 to 15 GPM and 20 to 50 GPM, respectively.

Flow rates in the seeps were variable between February, May, and June. Flow rates in Willis Creek were highest in June compared to February and May, which may be related to the precipitation observed prior to the June Event compared to the dry events in February and May.

In this program more than 90 samples from Seeps, Willis and Georgia Branch Creeks and Old Outfall 002 were collected and analyzed for PFAS and Table 3+ compounds. The results of these characterization activities indicate that the seeps and creeks contribute PFAS load to the Cape Fear River. The results included in this report provide a preliminary understanding of flow conditions in the seeps and PFAS concentrations from these seeps and creeks that are reaching the Cape Fear River.

The contents of this report support the PFAS mass loading evaluation prepared pursuant to Paragraph 12(a) in the executed Consent Order. The results of the Seeps and Creeks Investigation provide data to inform the Mass Loading Model on the contributions of PFAS from the seeps and Creeks to the Cape Fear River.

The seeps along the bluff were investigated. There are numerous locations within the seeps where the temperature profiles indicate upwelling of groundwater. Multiple flow gauging events were completed to understand the flow from the creeks and seeps.

In order to evaluate potential variability in flow and PFAS concentrations over time and due to seasonality effects, Geosyntec recommends that a monitoring program continue with six additional quarterly rounds of sampling and flow gauging activities for the Seeps, Old Outfall 002, Outfall 002, Willis Creek, Georgia Branch Creek, and the Cape Fear River upstream and downstream of the Site.

The contents of this report support the PFAS mass loading evaluation prepared pursuant to Paragraph 12(a) in the executed Consent Order. The results of the Seeps and Creeks Investigation provided data to inform the Mass Loading Model which in turn informs the Reductions Plan.

5. REFERENCES

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TABLES

TABLE 1
LOCATION SUMMARY
Chemours Fayetteville Works, North Carolina

Location ID	Location Description	Sample Collection			Flow Measurement			Temperature Assessment		
		February	May	June	February	May	June	February	May	June
OLDOF-1	Old Outfall 002 Location 1	Y	--	--	Y	--	--	--	--	--
OLDOF-2	Old Outfall 002 Location 2	Y	Y	Y	Y	Y	Y	--	--	--
OLDOF-2J	Old Outfall 002 Location 2J	Y	--	--	--	--	--	Y	--	--
OLDOF-2L	Old Outfall 002 Location 2L	Y	--	--	--	--	--	Y	--	--
OLDOF-3	Old Outfall 002 Location 3	Y	--	--	Y	--	--	--	--	--
OLDOF-4	Old Outfall 002 Location 4	Y	--	--	--	--	--	--	--	--
OLDOF-5	Old Outfall 002 Location 5	Y	--	--	Y	--	--	--	--	--
OLDOF-5K	Old Outfall 002 Location 5K	Y	--	--	--	--	--	Y	--	--
OLDOF-TR1-1 (1)	Old Outfall 002 Tributary 1 Location 1	Y	--	--	Y	--	--	--	--	--
OLDOF-TR1-1-1 (1)	Old Outfall 002 Tributary 1 Location 1	Y	--	--	--	--	--	--	--	--
SEEP-A-1	Seep A Location 1	Y	Y	Y	Y	Y	Y	--	--	--
SEEP-A-10	Seep A Location 10	Y	Y	--	--	--	--	--	--	--
SEEP-A-11	Seep A Location 11	Y	--	--	--	--	--	--	--	--
SEEP-A-12	Seep A Location 12	Y	--	--	--	--	--	--	--	--
SEEP-A-2	Seep A Location 2	Y	--	--	--	--	--	--	--	--
SEEP-A-3	Seep A Location 3	Y	Y	Y	Y	Y	Y	--	--	--
SEEP-A-4	Seep A Location 4	Y	Y	Y	Y	Y	Y	--	--	--
SEEP-A-5	Seep A Location 5	Y	Y	--	--	Y	--	--	--	--
SEEP-A-5-B-1	Seep A5 Location B1	--	Y	--	--	--	--	--	--	--
SEEP-A-5-D1-2	Seep A5 Location D1-2	--	Y	--	--	--	--	--	--	--
SEEP-A-6	Seep A Location 6	Y	--	--	--	--	--	--	--	--
SEEP-A-7	Seep A Location 7	Y	--	--	--	--	--	--	--	--
SEEP-A-8	Seep A Location 8	Y	--	--	--	--	--	--	--	--
SEEP-A-9	Seep A Location 9	Y	--	--	--	--	--	--	--	--
SEEP-A-TR1 (2)	Seep A Tributary 1	--	Y	--	--	--	--	--	--	--
SEEP-A-TR1-1 (2)	Seep A Tributary 1	--	--	Y	--	Y	--	--	--	--
SEEP-A-TR2-1	Seep A Tributary 2-1	--	Y	--	--	--	--	--	--	--
SEEP-A-TR3-1	Seep A Tributary 3-1	--	Y	--	--	--	--	--	--	--
SEEP-A-TR4-1	Seep A Tributary 4-1	--	Y	--	--	--	--	--	--	--
SEEP-B-1	Seep B Location 1	Y	Y	Y	Y	--	Y	--	--	--
SEEP-B-2	Seep B Location 2	Y	Y	Y	Y	Y	Y	--	--	--
SEEP-B-3	Seep B Location 3	Y	--	--	Y	--	--	--	--	--
SEEP-B-3-A (3)	Seep B Location 3A	--	Y	--	Y	--	--	--	--	--
SEEP-B-3-A1 (3)	Seep B Location 3A	Y	--	--	--	--	--	--	--	--
SEEP-B-3-E4	Seep B Location 3E4	Y	--	--	--	--	--	--	--	--
SEEP-B-4	Seep B Location 4	Y	--	--	--	--	--	--	--	--
SEEP-B-4-A3	Seep B Location 4A3	Y	--	--	--	--	--	--	--	--
SEEP-B-TR1	Seep B Tributary 1	--	Y	Y	--	--	--	--	--	--
SEEP-B-TR2	Seep B Tributary 2	--	Y	Y	--	--	Y	--	--	--

TABLE 1
LOCATION SUMMARY
Chemours Fayetteville Works, North Carolina

Location ID	Location Description	Sample Collection			Flow Measurement			Temperature Assessment		
		February	May	June	February	May	June	February	May	June
SEEP-C-1	Seep C Location 1	Y	Y	Y	Y	Y	Y	--	--	--
SEEP-C-1-E2	Seep C Location 1E2	Y	--	--	--	--	--	--	--	--
SEEP-D-1	Seep D Location 1	--	Y	Y	--	Y	Y	--	--	--
WC-1	Willis Creek Location 1	Y	Y	Y	Y	Y	Y	--	--	--
WC-1-TR1	Willis Creek Location 1 Tributary 1	--	Y	--	--	--	--	--	--	--
WC-1-TR2	Willis Creek Location 1 Tributary 2	--	Y	--	--	--	Y	--	--	--
WC-2	Willis Creek Location 2	Y	--	--	--	--	--	--	--	--
WC-3	Willis Creek Location 3	Y	--	--	--	--	--	--	--	--
WC-3-TR2	Willis Creek Location 3 Tributary 2	--	Y	--	--	--	Y	--	--	--
WC-3-TR3	Willis Creek Location 3 Tributary 3	--	Y	--	--	--	Y	--	--	--
WC-3-TR5	Willis Creek Location 3 Tributary 5	--	--	--	--	--	Y	--	--	--
WC-4	Willis Creek Location 4	Y	--	--	--	--	--	--	--	--
WC-4-TR1	Willis Creek Location 4 Tributary 1	--	Y	--	--	--	Y	--	--	--
WC-5	Willis Creek Location 5	Y	--	--	Y	--	--	--	--	--
GBC-1	Georgia Branch Creek Location 1	--	Y	Y	--	Y	Y	--	--	--
GBC-2	Georgia Branch Creek Location 2	--	Y	--	--	--	--	--	--	--
GBC-3	Georgia Branch Creek Location 3	--	Y	--	--	--	--	--	--	--
GBC-5	Georgia Branch Creek Location 5	--	Y	--	--	--	--	--	--	--
GBC-6	Georgia Branch Creek Location 6	--	Y	--	--	--	--	--	--	--
GBC-7	Georgia Branch Creek Location 7	--	Y	--	--	--	--	--	--	--
GBC-TR1-1	Georgia Branch Creek Tributary 1	--	Y	--	--	--	--	--	--	--
GBC-TR2-1	Georgia Branch Creek Tributary 2	--	Y	--	--	--	--	--	--	--
CFR-MILE-56	Cape Fear River Mile 56	--	Y	Y	--	--	--	--	--	--
CFR-MILE-68	Cape Fear River Mile 68	--	Y	Y	--	--	--	--	--	--
CFR-MILE-76	Cape Fear River Mile 76	Y	Y	Y	--	--	--	--	--	--
CFR-MILE-84	Cape Fear River Mile 84	Y	--	--	--	--	--	--	--	--
CFR-BLADEN	Cape Fear River at Bladen Bluffs	--	Y	Y	--	--	--	--	--	--
CFR-KINGS	Cape Fear River at Kings Bluff	--	Y	Y	--	--	--	--	--	--

Notes:

Y - Sampling, flow measurement, or temperature assessment was conducted

(1) - Location IDs OLDOF-TR1-1 and OLDOF-TR1-1-1 represent the same location. Two location IDs are listed due to naming inconsistencies between the field and the laboratory.

(2) - Location IDs SEEP-A-TR1 and SEEP-A-TR1-1 represent the same location. Two location IDs are listed due to naming inconsistencies between the field and the laboratory.

(3) - Location IDs SEEP-B-3-A and SEEP-B-3-A1 represent the same location. Two location IDs are listed due to naming inconsistencies between the field and the laboratory.

TABLE 2
PFAS AND ASSOCIATED ANALYTICAL METHODS
Chemours Fayetteville Works, North Carolina

Analytical Method	Common Name	Chemical Name	CASN	Chemical Formula
Table 3+ Lab SOP	HFPO-DA*	Hexafluoropropylene oxide dimer acid	13252-13-6	C6HF11O3
	PEPA	Perfluoroethoxypropyl carboxylic acid	267239-61-2	C5HF9O3
	PFECA-G	Perfluoro-4-isopropoxybutanoic acid	801212-59-9	C12H9F9O3S
	PFMOAA	Perfluoro-2-methoxyaceticacid	674-13-5	C3HF5O3
	PFO2HxA	Perfluoro(3,5-dioxahexanoic) acid	39492-88-1	C4HF7O4
	PFO3OA	Perfluoro(3,5,7-trioxaoctanoic) acid	39492-89-2	C5HF9O5
	PFO4DA	Perfluoro(3,5,7,9-tetraoxadecanoic) acid	39492-90-5	C6HF11O6
	PMPA	Perfluoromethoxypropyl carboxylic acid	13140-29-9	C4HF7O3
	Hydro-EVE Acid	Perfluoroethoxsypropanoic acid	773804-62-9	C8H2F14O4
	EVE Acid	Perfluoroethoxypropionic acid	69087-46-3	C8HF13O4
	PFECA B	Perfluoro-3,6-dioxaheptanoic acid	151772-58-6	C5HF9O4
	R-EVE	R-EVE	N/A	C8H2F12O5
	PFO5DA	Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid	39492-91-6	C7HF13O7
	Byproduct 4	Byproduct 4	N/A	C7H2F12O6S
	Byproduct 5	Byproduct 5	N/A	C7H3F11O7S
	Byproduct 6	Byproduct 6	N/A	C6H2F12O4S
	NVHOS	Perfluoroethoxysulfonic acid	1132933-86-8	C4H2F8O4S
	PES	Perfluoroethoxyethanesulfonic acid	113507-82-7	C4HF9O4S
	PFESA-BP1	Byproduct 1	29311-67-9	C7HF13O5S
	PFESA-BP2	Byproduct 2	749836-20-2	C7H2F14O5S
EPA Method 537 Mod	PFBA	Perfluorobutanoic acid	375-22-4	C4HF7O2
	PFDA	Perfluorodecanoic acid	335-76-2	C10HF19O2
	PFDoA	Perfluorododecanoic acid	307-55-1	C12HF23O2
	PFHpA	Perfluoroheptanoic acid	375-85-9	C7HF13O2
	PFNA	Perfluorononanoic acid	375-95-1	C9HF17O2
	PFOA	Perfluorooctanoic acid	335-67-1	C8HF15O
	PFHxA	Perfluorohexanoic acid	307-24-4	C6HF11O2
	PFPeA	Perfluoropentanoic acid	2706-90-3	C5HF9O2
	PFTeA	Perfluorotetradecanoic acid	376-06-7	C14HF27O2
	PFTriA	Perfluorotridecanoic acid	72629-94-8	C13HF25O2
	PFUnA	Perfluoroundecanoic acid	2058-94-8	C11HF21O2
	PFBS	Perfluorobutanesulfonic acid	375-73-5	C4HF9SO
	PFDS	Perfluorodecanesulfonic acid	335-77-3	C10HF21O3S
	PFHpS	Perfluoroheptanesulfonic acid	375-92-8	C7HF15O3S
	PFHxS	Perfluorohexanesulfonic acid	355-46-4	C6HF13SO3
	PFNS	Perfluorononanesulfonic acid	68259-12-1	C9HF19O3S
	PFOS	Perfluorooctanesulfonic acid	1763-23-1	C8HF17SO3
	PFPeS	Perfluoropentanesulfonic acid	2706-91-4	C5HF11O3S
	10:2 FTS	10:2-fluorotelomersulfonic acid	120226-60-0	C12H5F21O3
	4:2 FTS	4:2 fluorotelomersulfonic acid	757124-72-4	C6H5F9O3S
	6:2 FTS	6:2 fluorotelomersulfonic acid	27619-97-2	C8H5F13SO3
	8:2 FTS	8:2 fluorotelomersulfonic acid	39108-34-4	C10H5F17O3S
	NEtFOSAA	NEtFOSAA	2991-50-6	C12H8F17NO4S
	NEtPFOSA	NEtPFOSA	4151-50-2	C10H6F17NO2S
	NEtPFOSAE	NEtPFOSAE	1691-99-2	C12H10F17NO3S
	NMeFOSAA	NMeFOSAA	2355-31-9	C11H6F17NO4S
	NMePFOSA	NMePFOSA	31506-32-8	C9H4F17NO2S
	NMePFOSAE	NMePFOSAE	24448-09-7	C11H8F17NO3S
	PFDOS	Perfluorododecanesulfonic acid	79780-39-5	C12HF25O3S
	PFHxDA	Perfluorohexadecanoic acid	67905-19-5	C16HF31O2
	PFODA	Perfluorooctadecanoic acid	16517-11-6	C18HF35O2
	PFOSA	Perfluorooctanesulfonamide	754-91-6	C8H2F17NO2S

Notes:

*Depending on the laboratory, HFPO-DA may also appear on the EPA Method 537 Mod analyte list

EPA - Environmental Protection Agency

PFAS - per- and polyfluoroalkyl substances

SOP - Standard Operating Procedure

TABLE 3
TOTAL DAILY PRECIPITATION -
FEBRUARY, MAY, AND JUNE 2019
Chemours Fayetteville Works, North Carolina

Date	Total Precipitation (inches)
1/29/2019	0.09
1/30/2019	--
1/31/2019	--
2/1/2019	--
2/2/2019	--
2/3/2019	--
2/4/2019	--
2/5/2019	--
2/6/2019	--
2/7/2019	--
2/8/2019	--
2/9/2019	--
2/10/2019	--
2/11/2019	0.25
2/12/2019	0.25
2/13/2019	0.02
2/14/2019	--
2/15/2019	--
2/16/2019	0.6
2/17/2019	0.04
2/18/2019	0.12
2/19/2019	0.11
2/20/2019	0.19
2/21/2019	0.16
2/22/2019	0.28
2/23/2019	0.46
2/24/2019	0.01
2/25/2019	--
2/26/2019	--
2/27/2019	--
2/28/2019	--
5/1/2019	--
5/2/2019	--
5/3/2019	--
5/4/2019	0.16
5/5/2019	0.39
5/6/2019	--
5/7/2019	--
5/8/2019	--
5/9/2019	--
5/10/2019	--
5/11/2019	--
5/12/2019	0.13
5/13/2019	--
5/14/2019	--
5/15/2019	--
5/16/2019	--
5/17/2019	--

TABLE 3
TOTAL DAILY PRECIPITATION -
FEBRUARY, MAY, AND JUNE 2019
Chemours Fayetteville Works, North Carolina

Date	Total Precipitation (inches)
5/18/2019	--
5/19/2019	--
5/20/2019	***0.24***
5/21/2019	--
5/22/2019	--
5/23/2019	--
5/24/2019	--
5/25/2019	--
5/26/2019	--
5/27/2019	--
5/28/2019	--
5/29/2019	--
5/30/2019	--
5/31/2019	0.1
6/1/2019	--
6/2/2019	--
6/3/2019	--
6/4/2019	--
6/5/2019	0.8
6/6/2019	--
6/7/2019	--
6/8/2019	--
6/9/2019	2.2
6/10/2019	0.8
6/11/2019	0.1
6/12/2019	0.4
6/13/2019	--
6/14/2019	--
6/15/2019	--
6/16/2019	--
6/17/2019	--
6/18/2019	--
6/19/2019	--
6/20/2019	0.1
6/21/2019	--
6/22/2019	0.2
6/23/2019	--
6/24/2019	--
6/25/2019	--
6/26/2019	--
6/27/2019	--
6/28/2019	--
6/29/2019	--
6/30/2019	--

Notes:
Precipitation data obtained from USGS rain gauge at W.O. Huske Dam.
USGS - United States Geological Survey
-- - below USGS measurement threshold
Seeps and Creeks field event

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	OLDOF-1	OLDOF-1	OLDOF-2	OLDOF-2
Field Sample ID	FAY-SW-OLDOF-1-020119	FAY-SW-OLDOF-1-020119	FAY-SW-OLDOF-2-020119	FAY-SW-OLDOF-2-020119
Laboratory Sample ID	9978959 / 9978962	320-51031-7	9978966 / 9978963	320-51031-8
Date Sampled	2/1/2019	2/1/2019	2/1/2019	2/1/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**1,900 J**	**1,900 J**	**1,900 J**	**2,000 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**83,000 J**	**93,000 J**	**83,000 J**	**92,000 J**
PFO2HxA	**21,000 J**	**17,000 J**	**22,000 J**	**18,000 J**
PFO3OA	**6,400 J**	**5,200 J**	**6,400 J**	**5,200 J**
PFO4DA	**1,700 J**	**1,700 J**	**1,800 J**	**1,600 J**
PMPA	**5,600 J**	**5,800 J**	**5,800 J**	**6,000 J**
Hydro-EVE Acid	--	**200 J**	--	**200 J**
EVE Acid	--	<24 UJ	--	<24 UJ
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**190 J**	--	**190 J**
PFO5DA	**670 B**	**970 B**	**820 B**	**950 B**
Byproduct 4	--	**450 J**	--	**420 J**
Byproduct 5	--	**1,200 J**	--	**1,300 J**
Byproduct 6	--	<15 UJ	--	<15 UJ
NVHOS	--	**750 J**	--	**800 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**260 J**	**190 J**	**180 J**	**140 J**
PFESA-BP2	**300 J**	**310 J**	**330 J**	**340 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**130,000**		**140,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**4,800 J**	--	**5,900**	--
Perfluorobutanoic Acid	**77**	--	--	--
Perfluorodecanoic Acid	<1.7	--	--	--
Perfluorododecanoic Acid	<1.7	--	--	--
Perfluoroheptanoic Acid	**25**	--	--	--
Perfluorononanoic Acid	**7.4**	--	--	--
Perfluorooctanoic acid	**28**	--	--	--
Perfluorohexanoic Acid	**14**	--	--	--
Perfluoropentanoic Acid	**170**	--	--	--
Perfluorotetradecanoic Acid	<0.86	--	--	--
Perfluorotridecanoic Acid	<0.86	--	--	--
Perfluoroundecanoic Acid	<1.7	--	--	--
Perfluorobutane Sulfonic Acid	**1.4 J**	--	--	--
Perfluorodecane Sulfonic Acid	<1.7	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<1.7	--	--	--
Perfluorohexane Sulfonic Acid	<1.7	--	--	--
Perfluorononanesulfonic acid	<1.7	--	--	--
Perfluorooctanesulfonic acid	**1.9**	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	<1.7	--	--	--
10:2 Fluorotelomer sulfonate	<2.6	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.6	--	--	--
6:2 Fluorotelomer sulfonate	<1.7	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<5.2	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<2.6	--	--	--
N-ethylperfluoro-1-octanesulfonamide	<7.8 UJ	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.6	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<2.6	--	--	--
N-methyl perfluoro-1-octanesulfonamide	<7.8 UJ	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2.6	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<0.86	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	<0.86	--	--	--
Perfluorooctadecanoic acid	<1.7	--	--	--
Perfluorooctane Sulfonamide	<2.6	--	--	--
ADONA	<0.86 UJ	--	--	--
F-53B Major	<0.86 UJ	--	--	--
F-53B Minor	<1.7 UJ	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	OLDOF-2J	OLDOF-2J	OLDOF-2L	OLDOF-2L
Field Sample ID	FAY-SW-OLDOF-2J-020219	FAY-SW-OLDOF-2J-020219	FAY-SW-OLDOF-2L-020219	FAY-SW-OLDOF-2L-020219
Laboratory Sample ID	9979923 / 9979920	320-51031-3	9979927 / 9979924	320-51031-2
Date Sampled	2/2/2019	2/2/2019	2/2/2019	2/2/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**1,400 J**	**1,300 J**	**2,100 J**	**2,100 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**630 J**	**490 J**	**99,000 J**	**104,000 J**
PFO2HxA	**1,700 J**	**1,300 J**	**23,000 J**	**21,000 J**
PFO3OA	**400 J**	**290 J**	**6,900 J**	**5,400 J**
PFO4DA	<50 UJ	<79 UJ	**2,100 J**	**1,800 J**
PMPA	**3,700 J**	**3,700 J**	**6,200 J**	**6,200 J**
Hydro-EVE Acid	--	<28 UJ	--	**220 J**
EVE Acid	--	<24 UJ	--	<24 UJ
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**120 J**	--	**190 J**
PFO5DA	<100 UJ	**34 J**	**810 J**	**870 J**
Byproduct 4	--	**180 J**	--	**490 J**
Byproduct 5	--	<58 UJ	--	**1,500 J**
Byproduct 6	--	<15 UJ	--	<15 UJ
NVHOS	--	<54 UJ	--	**890 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	<50 UJ	<27 UJ	**240 J**	**250 J**
PFESA-BP2	<50 UJ	**71 J**	**350 J**	**350 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**8,700**		**150,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**1,200**	--	**6,400**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	OLDOF-3	OLDOF-3	OLDOF-4	OLDOF-4
Field Sample ID	FAY-SW-OLDOF-3-020219	FAY-SW-OLDOF-3-020219	FAY-SW-OLDOF-4-020219	FAY-SW-OLDOF-4-020219
Laboratory Sample ID	9979931 / 9979928	320-51031-4	9979935 / 9979932	320-51031-5
Date Sampled	2/2/2019	2/2/2019	2/2/2019	2/2/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**2,200 J**	**2,000 J**	**2,400 J**	**2,300 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**110,000 J**	**109,000 J**	**140,000 J**	**140,000 J**
PFO2HxA	**25,000 J**	**23,000 J**	**31,000 J**	**25,000 J**
PFO3OA	**7,400 J**	**5,500 J**	**9,000 J**	**7,100 J**
PFO4DA	**2,200 J**	**1,800 J**	**2,800 J**	**2,100 J**
PMPA	**6,600 J**	**6,600 J**	**7,300 J**	**7,000 J**
Hydro-EVE Acid	--	**240 J**	--	**310 J**
EVE Acid	--	<24 UJ	--	<24 UJ
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**220 J**	--	**240 J**
PFO5DA	**850 J**	**790 J**	**1,100 J**	**1,100 J**
Byproduct 4	--	**560 J**	--	**620 J**
Byproduct 5	--	**1,800 J**	--	**1,900 J**
Byproduct 6	--	**18 J**	--	**19 J**
NVHOS	--	**1,100 J**	--	**1,200 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**100 J**	**170 J**	**230 J**	**240 J**
PFESA-BP2	**400 J**	**420 J**	**480 J**	**470 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**160,000**		**200,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**5,600**	--	**6,900**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	OLDOF-5	OLDOF-5	OLDOF-5K	OLDOF-5K
Field Sample ID	FAY-SW-OLDOF-5-020219	FAY-SW-OLDOF-5-020219	FAY-SW-OLDOF-5K-020219	FAY-SW-OLDOF-5K-020219
Laboratory Sample ID	9979943 / 9979940	320-51024-1	9979947 / 9979944	320-51024-2
Date Sampled	2/2/2019	2/2/2019	2/2/2019	2/2/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**2,700 J**	**2,700 J**	**1,900 J**	**1,700 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**190,000 J**	**200,000 J**	**18,000 J**	**16,000 J**
PFO2HxA	**43,000 J**	**37,000 J**	**6,600 J**	**5,400 J**
PFO3OA	**14,000 J**	**11,000 J**	**1,700 J**	**1,300 J**
PFO4DA	**5,200 J**	**4,400 J**	**1,700 J**	**1,300 J**
PMPA	**8,600 J**	**8,200 J**	**5,400 J**	**4,500 J**
Hydro-EVE Acid	--	**550 J**	--	**200 J**
EVE Acid	--	**370 J**	--	**31 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**310 J**	--	**210 J**
PFO5DA	**4,200 J**	**4,200 J**	**590 J**	**580 J**
Byproduct 4	--	**800 J**	--	**350 J**
Byproduct 5	--	**3,200 J**	--	<58 UJ
Byproduct 6	--	**32 J**	--	**15 J**
NVHOS	--	**1,700 J**	--	**210 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**4,600 J**	**3,700 J**	<50 UJ	<27 UJ
PFESA-BP2	**990 J**	**990 J**	**540 J**	**500 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**290,000**		**39,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**7,600**	--	**6,400**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	OLDOF-TR1-1	OLDOF-TR1-1-1	SEEP-A-1	SEEP-A-1
Field Sample ID	FAY-SW-OLDOF-TR1-1-020219	FAY-SW-OLDOF-TR1-1-1-020219	FAY-SW-SEEP-A-1-020719	FAY-SW-SEEP-A-1-020719
Laboratory Sample ID	320-51031-1	9979919 / 9979916	9982593 / 9982596	320-51045-13
Date Sampled	2/2/2019	2/2/2019	2/7/2019	2/7/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	Eurofins Lancaster	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**1,300 J**	**1,200**	**7,100 J**	**9,900 J**
PFECA-G	<41 UJ	<50	<50 UJ	<41 UJ
PFMOAA	**340 J**	**550**	**62,000 J**	**84,000 J**
PFO2HxA	**1,600 J**	**1,800**	**35,000 J**	**41,000 J**
PFO3OA	**270 J**	**280**	**12,000 J**	**14,000 J**
PFO4DA	**160 J**	**170**	**6,800 J**	**8,100 J**
PMPA	**3,800 J**	**3,300**	**19,000 J**	**25,000 J**
Hydro-EVE Acid	<28 UJ	--	--	**1,700 J**
EVE Acid	<24 UJ	--	--	**960 J**
PFECA B	<60 UJ	--	--	<60 UJ
R-EVE	<70 UJ	--	--	**1,200 J**
PFO5DA	**250 J**	<100	**6,300 J**	**5,600 J**
Byproduct 4	<160 UJ	--	--	**2,200 J**
Byproduct 5	<58 UJ	--	--	**23,000 J**
Byproduct 6	<15 UJ	--	--	**47 J**
NVHOS	<54 UJ	--	--	**980 J**
PES	<46 UJ	--	--	<46 UJ
PFESA-BP1	<27 UJ	<50	**4,300 J**	**4,000 J**
PFESA-BP2	**110 J**	**88**	**1,200 J**	**1,200 J**
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	--	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	--	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	--	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	--	--	<110 UJ
Total Table 3+ Compounds*	**9,600**			**230,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	**1,800**	**10,000 J**	--
Perfluorobutanoic Acid	--	--	**260**	--
Perfluorodecanoic Acid	--	--	<1.7	--
Perfluorododecanoic Acid	--	--	<1.7	--
Perfluoroheptanoic Acid	--	--	**94**	--
Perfluorononanoic Acid	--	--	**20**	--
Perfluorooctanoic acid	--	--	**35**	--
Perfluorohexanoic Acid	--	--	**39**	--
Perfluoropentanoic Acid	--	--	**520**	--
Perfluorotetradecanoic Acid	--	--	<0.85	--
Perfluorotridecanoic Acid	--	--	<0.85	--
Perfluoroundecanoic Acid	--	--	<1.7	--
Perfluorobutane Sulfonic Acid	--	--	**1.4**	--
Perfluorodecane Sulfonic Acid	--	--	<1.7	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<1.7	--
Perfluorohexane Sulfonic Acid	--	--	**2.9**	--
Perfluorononanesulfonic acid	--	--	<1.7	--
Perfluorooctanesulfonic acid	--	--	**6.3**	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	<1.7	--
10:2 Fluorotelomer sulfonate	--	--	<2.5	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<2.5	--
6:2 Fluorotelomer sulfonate	--	--	<1.7	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<5.1	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<2.5	--
N-ethylperfluoro-1-octanesulfonamide	--	--	<7.6 UJ	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<2.5	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<2.5	--
N-methyl perfluoro-1-octanesulfonamide	--	--	<7.6 UJ	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<2.5	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<0.85	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	<0.85	--
Perfluorooctadecanoic acid	--	--	<1.7	--
Perfluorooctane Sulfonamide	--	--	<2.5	--
ADONA	--	--	<0.85 UJ	--
F-53B Major	--	--	<0.85 UJ	--
F-53B Minor	--	--	<1.7 UJ	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-A-10	SEEP-A-10	SEEP-A-11	SEEP-A-11
Field Sample ID	FAY-SW-SEEP-A-10-020719	FAY-SW-SEEP-A-10-020719	FAY-SW-SEEP-A-11-020719	FAY-SW-SEEP-A-11-020719
Laboratory Sample ID	9982632 / 9982629	320-51045-22	9982636 / 9982633	320-51045-23
Date Sampled	2/7/2019	2/7/2019	2/7/2019	2/7/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**19,000 J**	**22,000 J**	**18,000 J**	**22,000 J**
PFECA-G	<50 UJ	<200 UJ	<50 UJ	<200 UJ
PFMOAA	**75,000 J**	**84,000 J**	**76,000 J**	**90,000 J**
PFO2HxA	**59,000 J**	**65,000 J**	**62,000 J**	**67,000 J**
PFO3OA	**25,000 J**	**25,000 J**	**26,000 J**	**26,000 J**
PFO4DA	**19,000 J**	**21,000 J**	**20,000 J**	**22,000 J**
PMPA	**48,000 J**	**52,000 J**	**46,000 J**	**51,000 J**
Hydro-EVE Acid	--	**9,800 J**	--	**10,000 J**
EVE Acid	--	**24,000 J**	--	**24,000 J**
PFECA B	--	<300 UJ	--	<300 UJ
R-EVE	--	**4,700 J**	--	**4,600 J**
PFO5DA	**17,000 J**	**25,000 J**	**16,000 J**	**24,000 J**
Byproduct 4	--	**6,700 J**	--	**6,900 J**
Byproduct 5	--	**70,000 J**	--	**74,000 J**
Byproduct 6	--	**240 J**	--	**240 J**
NVHOS	--	**3,300 J**	--	**3,700 J**
PES	--	<230 UJ	--	<230 UJ
PFESA-BP1	**49,000 J**	**50,000 J**	**51,000 J**	**54,000 J**
PFESA-BP2	**6,100 J**	**6,900 J**	**6,100 J**	**7,100 J**
N-ethylperfluoro-1-octanesulfonamide	--	<190 UJ	--	<190 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<300 UJ	--	<300 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<170 UJ	--	<170 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<550 UJ	--	<550 UJ
Total Table 3+ Compounds*		**530,000**		**540,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**61,000 J**	--	**55,000 J**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-A-12	SEEP-A-12	SEEP-A-2	SEEP-A-2
Field Sample ID	FAY-SW-SEEP-A-12-020719	FAY-SW-SEEP-A-12-020719	FAY-SW-SEEP-A-2-020719	FAY-SW-SEEP-A-2-020719
Laboratory Sample ID	9982640 / 9982637	320-51045-24	9982600 / 9982597	320-51045-14
Date Sampled	2/7/2019	2/7/2019	2/7/2019	2/7/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**7,400 J**	**8,700 J**	**6,900 J**	**8,900 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**15,000 J**	**16,000 J**	**68,000 J**	**82,000 J**
PFO2HxA	**30,000 J**	**30,000 J**	**36,000 J**	**40,000 J**
PFO3OA	**4,800 J**	**5,200 J**	**14,000 J**	**14,000 J**
PFO4DA	**4,200 J**	**4,600 J**	**7,200 J**	**7,600 J**
PMPA	**20,000 J**	**22,000 J**	**19,000 J**	**23,000 J**
Hydro-EVE Acid	--	**310 J**	--	**1,800 J**
EVE Acid	--	**39 J**	--	**830 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**890 J**	--	**1,200 J**
PFO5DA	**2,500 J**	**4,100 J**	**4,600 J**	**5,900 J**
Byproduct 4	--	**2,100 J**	--	**2,200 J**
Byproduct 5	--	**490 J**	--	**23,000 J**
Byproduct 6	--	**26 J**	--	**47 J**
NVHOS	--	**570 J**	--	**1,000 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**98 J**	**120 J**	**4,100 J**	**3,800 J**
PFESA-BP2	**1,300 J**	**1,400 J**	**990 J**	**1,200 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**120,000**		**240,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**20,000 J**	--	**27,000 J**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-A-3	SEEP-A-3	SEEP-A-4	SEEP-A-4
Field Sample ID	FAY-SW-SEEP-A-3-020719	FAY-SW-SEEP-A-3-020719	FAY-SW-SEEP-A-4-020719	FAY-SW-SEEP-A-4-020719
Laboratory Sample ID	9982601 / 9982604	320-51045-15	9982608 / 9982605	320-51045-16
Date Sampled	2/7/2019	2/7/2019	2/7/2019	2/7/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**6,700 J**	**8,400 J**	**9,300 J**	**12,000 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**69,000 J**	**79,000 J**	**42,000 J**	**49,000 J**
PFO2HxA	**36,000 J**	**38,000 J**	**27,000 J**	**28,000 J**
PFO3OA	**14,000 J**	**13,000 J**	**8,100 J**	**8,100 J**
PFO4DA	**7,300 J**	**7,700 J**	**4,100 J**	**4,300 J**
PMPA	**18,000 J**	**22,000 J**	**23,000 J**	**28,000 J**
Hydro-EVE Acid	--	**1,600 J**	--	**860 J**
EVE Acid	--	**930 J**	--	**240 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**1,200 J**	--	**770 J**
PFO5DA	**4,800 J**	**5,500 J**	**3,600 J**	**4,300 J**
Byproduct 4	--	**2,200 J**	--	**1,300 J**
Byproduct 5	--	**23,000 J**	--	**6,500 J**
Byproduct 6	--	**45 J**	--	**26 J**
NVHOS	--	**910 J**	--	**640 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**4,500 J**	**3,700 J**	**700 J**	**560 J**
PFESA-BP2	**1,000 J**	**1,100 J**	**770 J**	**830 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**220,000**		**160,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**13,000 J**	--	**17,000 J**	--
Perfluorobutanoic Acid	**250**	--	--	--
Perfluorodecanoic Acid	<1.8	--	--	--
Perfluorododecanoic Acid	<1.8	--	--	--
Perfluoroheptanoic Acid	**92**	--	--	--
Perfluorononanoic Acid	**19**	--	--	--
Perfluorooctanoic acid	**35**	--	--	--
Perfluorohexanoic Acid	**39**	--	--	--
Perfluoropentanoic Acid	**550**	--	--	--
Perfluorotetradecanoic Acid	<0.9	--	--	--
Perfluorotridecanoic Acid	<0.9	--	--	--
Perfluoroundecanoic Acid	<1.8	--	--	--
Perfluorobutane Sulfonic Acid	**1.6 J**	--	--	--
Perfluorodecane Sulfonic Acid	<1.8	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<1.8	--	--	--
Perfluorohexane Sulfonic Acid	**3**	--	--	--
Perfluorononanesulfonic acid	<1.8	--	--	--
Perfluorooctanesulfonic acid	**5.6**	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	<1.8	--	--	--
10:2 Fluorotelomer sulfonate	<2.7	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.7	--	--	--
6:2 Fluorotelomer sulfonate	<1.8	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<5.4	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<2.7	--	--	--
N-ethylperfluoro-1-octanesulfonamide	<8.1 UJ	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.7 UJ	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<2.7	--	--	--
N-methyl perfluoro-1-octanesulfonamide	<8.1 UJ	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2.7 UJ	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<0.9	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	<0.9	--	--	--
Perfluorooctadecanoic acid	<1.8	--	--	--
Perfluorooctane Sulfonamide	**3**	--	--	--
ADONA	<0.9 UJ	--	--	--
F-53B Major	<0.9 UJ	--	--	--
F-53B Minor	<1.8 UJ	--	--	--

Notes:

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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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-A-5	SEEP-A-5	SEEP-A-6	SEEP-A-6
Field Sample ID	FAY-SW-SEEP-A-5-020719	FAY-SW-SEEP-A-5-020719	FAY-SW-SEEP-A-6-020719	FAY-SW-SEEP-A-6-020719
Laboratory Sample ID	9982612 / 9982609	320-51045-17	9982616 / 9982613	320-51045-18
Date Sampled	2/7/2019	2/7/2019	2/7/2019	2/7/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**15,000 J**	**20,000 J**	**14,000 J**	**18,000 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**25,000 J**	**30,000 J**	**15,000 J**	**17,000 J**
PFO2HxA	**23,000 J**	**28,000 J**	**18,000 J**	**20,000 J**
PFO3OA	**8,000 J**	**8,500 J**	**6,000 J**	**6,000 J**
PFO4DA	**5,600 J**	**6,300 J**	**5,000 J**	**5,700 J**
PMPA	**31,000 J**	**42,000 J**	**29,000 J**	**38,000 J**
Hydro-EVE Acid	--	**1,300 J**	--	**1,000 J**
EVE Acid	--	**520 J**	--	**670 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**1,200 J**	--	**870 J**
PFO5DA	**3,800 J**	**4,500 J**	**3,800 J**	**4,700 J**
Byproduct 4	--	**2,000 J**	--	**1,400 J**
Byproduct 5	--	**9,900 J**	--	**6,900 J**
Byproduct 6	--	**40 J**	--	**31 J**
NVHOS	--	**610 J**	--	**380 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**1,300 J**	**1,100 J**	**1,500 J**	**1,500 J**
PFESA-BP2	**1,100 J**	**1,200 J**	**1,200 J**	**1,300 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**180,000**		**140,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**18,000 J**	--	**18,000 J**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-A-7	SEEP-A-7	SEEP-A-8	SEEP-A-8
Field Sample ID	FAY-SW-SEEP-A-7-020719	FAY-SW-SEEP-A-7-020719	FAY-SW-SEEP-A-8-020719	FAY-SW-SEEP-A-8-020719
Laboratory Sample ID	9982620 / 9982617	320-51045-19	9982624 / 9982621	320-51045-20
Date Sampled	2/7/2019	2/7/2019	2/7/2019	2/7/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**17,000 J**	**22,000 J**	**15,000 J**	**19,000 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**41,000 J**	**43,000 J**	**17,000 J**	**17,000 J**
PFO2HxA	**31,000 J**	**35,000 J**	**18,000 J**	**20,000 J**
PFO3OA	**9,800 J**	**11,000 J**	**5,800 J**	**6,300 J**
PFO4DA	**6,200 J**	**8,000 J**	**5,300 J**	**6,700 J**
PMPA	**39,000 J**	**46,000 J**	**34,000 J**	**38,000 J**
Hydro-EVE Acid	--	**1,800 J**	--	**1,300 J**
EVE Acid	--	**560 J**	--	**540 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**1,500 J**	--	**800 J**
PFO5DA	**4,200 J**	**5,700 J**	**4,200 J**	**6,200 J**
Byproduct 4	--	**2,500 J**	--	**1,500 J**
Byproduct 5	--	**13,000 J**	--	**6,000 J**
Byproduct 6	--	**51 J**	--	**37 J**
NVHOS	--	**880 J**	--	**380 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**990 J**	**1,300 J**	**2,800 J**	**1,600 J**
PFESA-BP2	**1,300 J**	**1,400 J**	**1,400 J**	**1,500 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**220,000**		**140,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**28,000 J**	--	**13,000 J**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-A-9	SEEP-A-9	SEEP-B-1	SEEP-B-1
Field Sample ID	FAY-SW-SEEP-A-9-020719	FAY-SW-SEEP-A-9-020719	FAY-SW-SEEP-B-1-020519	FAY-SW-SEEP-B-1-020519
Laboratory Sample ID	9982628 / 9982625	320-51045-21	9980817	320-51045-1
Date Sampled	2/7/2019	2/7/2019	2/5/2019	2/5/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**18,000 J**	**22,000 J**	**15,000 J**	**17,000 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**73,000 J**	**75,000 J**	**150,000 J**	**148,000 J**
PFO2HxA	**58,000 J**	**63,000 J**	**43,000 J**	**43,000 J**
PFO3OA	**24,000 J**	**24,000 J**	**11,000 J**	**9,200 J**
PFO4DA	**19,000 J**	**21,000 J**	**2,000 J**	**1,800 J**
PMPA	**47,000 J**	**50,000 J**	**38,000 J**	**42,000 J**
Hydro-EVE Acid	--	**8,300 J**	--	**2,800 J**
EVE Acid	--	**22,000 J**	--	**6,100 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**5,100 J**	--	**3,200 J**
PFO5DA	**15,000 J**	**17,000 J**	**460 J**	**530 J**
Byproduct 4	--	**8,200 J**	--	**4,700 J**
Byproduct 5	--	**84,000 J**	--	**38,000 J**
Byproduct 6	--	**200 J**	--	**84 J**
NVHOS	--	**3,000 J**	--	**3,300 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**46,000 J**	**43,000 J**	**4,600 J**	**3,500 J**
PFESA-BP2	**5,600 J**	**6,000 J**	**1,100 J**	**1,100 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**510,000**		**350,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**57,000 J**	--	**24,000 J**	--
Perfluorobutanoic Acid	--	--	**560**	--
Perfluorodecanoic Acid	--	--	<18	--
Perfluorododecanoic Acid	--	--	<18	--
Perfluoroheptanoic Acid	--	--	**170**	--
Perfluorononanoic Acid	--	--	**18**	--
Perfluorooctanoic acid	--	--	**31**	--
Perfluorohexanoic Acid	--	--	**47**	--
Perfluoropentanoic Acid	--	--	**1,600**	--
Perfluorotetradecanoic Acid	--	--	<9	--
Perfluorotridecanoic Acid	--	--	<9	--
Perfluoroundecanoic Acid	--	--	<18	--
Perfluorobutane Sulfonic Acid	--	--	<9	--
Perfluorodecane Sulfonic Acid	--	--	<18	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<18	--
Perfluorohexane Sulfonic Acid	--	--	<18	--
Perfluorononanesulfonic acid	--	--	<18	--
Perfluorooctanesulfonic acid	--	--	<18	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	<18	--
10:2 Fluorotelomer sulfonate	--	--	<27	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<27	--
6:2 Fluorotelomer sulfonate	--	--	<18	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<54	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<27	--
N-ethylperfluoro-1-octanesulfonamide	--	--	<81	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<27	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<27	--
N-methyl perfluoro-1-octanesulfonamide	--	--	<81	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<27	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<9	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	<9	--
Perfluorooctadecanoic acid	--	--	<18	--
Perfluorooctane Sulfonamide	--	--	<27	--
ADONA	--	--	<9	--
F-53B Major	--	--	<9	--
F-53B Minor	--	--	<18	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-B-2	SEEP-B-2	SEEP-B-3	SEEP-B-3
Field Sample ID	FAY-SW-SEEP-B-2-020519	FAY-SW-SEEP-B-2-020519	FAY-SW-SEEP-B-3-020619	FAY-SW-SEEP-B-3-020619
Laboratory Sample ID	9980824 / 9980821	320-51045-2	9981743 / 9981740	320-51045-3
Date Sampled	2/5/2019	2/5/2019	2/6/2019	2/6/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**34,000 J**	**32,000 J**	**35,000 J**	**38,000 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**9,200 J**	**8,000 J**	**5,000 J**	**5,100 J**
PFO2HxA	**19,000 J**	**16,000 J**	**17,000 J**	**16,000 J**
PFO3OA	**4,500 J**	**3,400 J**	**3,800 J**	**3,300 J**
PFO4DA	**2,800 J**	**2,400 J**	**2,700 J**	**2,500 J**
PMPA	**66,000 J**	**61,000 J**	**66,000 J**	**72,000 J**
Hydro-EVE Acid	--	**7,100 J**	--	**9,100 J**
EVE Acid	--	**24,000 J**	--	**34,000 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**9,600 J**	--	**13,000 J**
PFO5DA	**1,300 J**	**1,300 J**	**1,700 J**	**1,500 J**
Byproduct 4	--	**11,000 J**	--	**14,000 J**
Byproduct 5	--	**77,000 J**	--	**99,000 J**
Byproduct 6	--	**230 J**	--	**280 J**
NVHOS	--	**6,300 J**	--	**7,800 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**19,000 J**	**14,000 J**	**23,000 J**	**22,000 J**
PFESA-BP2	**3,200 J**	**3,000 J**	**3,500 J**	**3,900 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**310,000**		**380,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**38,000 J**	--	**40,000 J**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-B-3-A1	SEEP-B-3-A1	SEEP-B-3-E4	SEEP-B-3-E4
Field Sample ID	FAY-SW-SEEP-B-3-A1-020619	FAY-SW-SEEP-B-3-A1-020619	FAY-SW-SEEP-B-3-E4-020619	FAY-SW-SEEP-B-3-E4-020619
Laboratory Sample ID	9981747 / 9981744	320-51045-7	9981751 / 9981748	320-51045-8
Date Sampled	2/6/2019	2/6/2019	2/6/2019	2/6/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**36,000 J**	**42,000 J**	**4,800 J**	**6,500 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**4,800 J**	**5,600 J**	**1,600 J**	**1,800 J**
PFO2HxA	**18,000 J**	**17,000 J**	**5,400 J**	**5,900 J**
PFO3OA	**3,700 J**	**3,200 J**	**980 J**	**1,000 J**
PFO4DA	**2,900 J**	**2,800 J**	**990 J**	**1,200 J**
PMPA	**70,000 J**	**79,000 J**	**13,000 J**	**16,000 J**
Hydro-EVE Acid	--	**11,000 J**	--	**120 J**
EVE Acid	--	**46,000 J**	--	<24 UJ
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**13,000 J**	--	**640 J**
PFO5DA	**1,900 J**	**1,900 J**	**390 J**	**610 J**
Byproduct 4	--	**16,000 J**	--	**730 J**
Byproduct 5	--	**119,000 J**	--	**150 J**
Byproduct 6	--	**340 J**	--	<15 UJ
NVHOS	--	**8,500 J**	--	**75 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**31,000 J**	**30,000 J**	<50 UJ	<27 UJ
PFESA-BP2	**4,100 J**	**4,700 J**	**250 J**	**300 J**
N-ethylperfluoro-1-octanesulfonamide	--	**37 J**	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**460,000**		**45,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**58,000 J**	--	**10,000 J**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-B-4	SEEP-B-4	SEEP-B-4-A3	SEEP-B-4-A3
Field Sample ID	FAY-SW-SEEP-B-4-020619	FAY-SW-SEEP-B-4-020619	FAY-SW-SEEP-B-4-A3-020619	FAY-SW-SEEP-B-4-A3-020619
Laboratory Sample ID	9981755 / 9981752	320-51045-9	9981759 / 9981756	320-51045-10
Date Sampled	2/6/2019	2/6/2019	2/6/2019	2/6/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**60,000 J**	**61,000 J**	**33,000 J**	**36,000 J**
PFECA-G	<50 UJ	<41 UJ	<50 UJ	<41 UJ
PFMOAA	**6,700 J**	**6,800 J**	**4,900 J**	**5,200 J**
PFO2HxA	**24,000 J**	**22,000 J**	**18,000 J**	**17,000 J**
PFO3OA	**5,000 J**	**4,100 J**	**4,900 J**	**4,000 J**
PFO4DA	**3,800 J**	**3,400 J**	**3,700 J**	**3,200 J**
PMPA	**120,000 J**	**111,000 J**	**66,000 J**	**71,000 J**
Hydro-EVE Acid	--	**16,000 J**	--	**9,100 J**
EVE Acid	--	**75,000 J**	--	**64,000 J**
PFECA B	--	<60 UJ	--	<60 UJ
R-EVE	--	**21,000 J**	--	**16,000 J**
PFO5DA	**2,600 J**	**2,500 J**	**2,800 J**	**2,600 J**
Byproduct 4	--	**24,000 J**	--	**18,000 J**
Byproduct 5	--	**171,000 J**	--	**96,000 J**
Byproduct 6	--	**500 J**	--	**290 J**
NVHOS	--	**13,000 J**	--	**6,300 J**
PES	--	<46 UJ	--	<46 UJ
PFESA-BP1	**69,000 J**	**51,000 J**	**42,000 J**	**40,000 J**
PFESA-BP2	**6,200 J**	**6,800 J**	**4,000 J**	**4,400 J**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*		**670,000**		**430,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**82,000 J**	--	**32,000 J**	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
Perfluorooctanoic acid	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	SEEP-C-1	SEEP-C-1	SEEP-C-1-E2	SEEP-C-1-E2
Field Sample ID	FAY-SW-SEEP-C-1-020519	FAY-SW-SEEP-C-1-020519	FAY-SW-SEEP-C-1-E2-020519	FAY-SW-SEEP-C-1-E2-020519
Laboratory Sample ID	9980825 / 9980829	320-51045-4	9980836 / 9980833	320-51045-5
Date Sampled	2/5/2019	2/5/2019	2/5/2019	2/5/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**4,700 J**	**5,100 J**	**4,600 J**	**4,400 J**
PFECA-G	<50 UJ	<82 UJ	<50 UJ	<41 UJ
PFMOAA	**200,000 J**	**196,000 J**	**180,000 J**	**164,000 J**
PFO2HxA	**62,000 J**	**64,000 J**	**46,000 J**	**40,000 J**
PFO3OA	**21,000 J**	**20,000 J**	**13,000 J**	**9,600 J**
PFO4DA	**4,500 J**	**4,600 J**	**2,600 J**	**2,200 J**
PMPA	**16,000 J**	**16,000 J**	**14,000 J**	**12,000 J**
Hydro-EVE Acid	--	**2,300 J**	--	**580 J**
EVE Acid	--	<49 UJ	--	<24 UJ
PFECA B	--	<120 UJ	--	<60 UJ
R-EVE	--	**1,900 J**	--	**990 J**
PFO5DA	<100 UJ	**89 J**	<100 UJ	**92 J**
Byproduct 4	--	**1,600 J**	--	**1,200 J**
Byproduct 5	--	**3,000 J**	--	**1,500 J**
Byproduct 6	--	<31 UJ	--	**17 J**
NVHOS	--	**2,000 J**	--	**1,600 J**
PES	--	<92 UJ	--	<46 UJ
PFESA-BP1	<50 UJ	<53 UJ	<50 UJ	<27 UJ
PFESA-BP2	**590 J**	**590 J**	**260 J**	**250 J**
N-ethylperfluoro-1-octanesulfonamide	--	<75 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<120 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	--	<69 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<220 UJ	--	<110 UJ
Total Table 3+ Compounds*		**340,000**		**260,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**27,000 J**	--	**17,000 J**	--
Perfluorobutanoic Acid	**380**	--	--	--
Perfluorodecanoic Acid	<18	--	--	--
Perfluorododecanoic Acid	<18	--	--	--
Perfluoroheptanoic Acid	**220**	--	--	--
Perfluorononanoic Acid	<17	--	--	--
Perfluorooctanoic acid	**20**	--	--	--
Perfluorohexanoic Acid	**81**	--	--	--
Perfluoropentanoic Acid	**1,700**	--	--	--
Perfluorotetradecanoic Acid	<9.1	--	--	--
Perfluorotridecanoic Acid	<9.1	--	--	--
Perfluoroundecanoic Acid	<18	--	--	--
Perfluorobutane Sulfonic Acid	<9.1	--	--	--
Perfluorodecane Sulfonic Acid	<18	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<18	--	--	--
Perfluorohexane Sulfonic Acid	<18	--	--	--
Perfluorononanesulfonic acid	<18	--	--	--
Perfluorooctanesulfonic acid	<18	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	<18	--	--	--
10:2 Fluorotelomer sulfonate	<27	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<27	--	--	--
6:2 Fluorotelomer sulfonate	<18	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<54	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<27	--	--	--
N-ethylperfluoro-1-octanesulfonamide	<82	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<27	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<27	--	--	--
N-methyl perfluoro-1-octanesulfonamide	<82	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<27	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<9.1	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	<8.7	--	--	--
Perfluorooctadecanoic acid	<18	--	--	--
Perfluorooctane Sulfonamide	<27	--	--	--
ADONA	<9.1	--	--	--
F-53B Major	<9.1	--	--	--
F-53B Minor	<18	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	WC-1	WC-1	WC-2	WC-3
Field Sample ID	FAY-SW-WC-1-020719	FAY-SW-WC-1-020719	FAY-SW-WC-2-020719	FAY-SW-WC-3-020719
Laboratory Sample ID	9982641	320-51045-25	9982648 / 9982645	9982649 / 9982652
Date Sampled	2/7/2019	2/7/2019	2/7/2019	2/7/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	Eurofins Lancaster
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**130 J**	**190 J**	**64**	<50
PFECA-G	<50 UJ	<41 UJ	<50	<50
PFMOAA	**490 J**	<210 UJ	**56**	**59**
PFO2HxA	**310 J**	**330 J**	**140**	**110**
PFO3OA	**52 J**	**58 J**	<50	<50
PFO4DA	<50 UJ	<79 UJ	<50	<50
PMPA	**440 J**	**1,200 J**	**290**	**270**
Hydro-EVE Acid	--	<28 UJ	--	--
EVE Acid	--	<24 UJ	--	--
PFECA B	--	<60 UJ	--	--
R-EVE	--	<70 UJ	--	--
PFO5DA	<100 UJ	**34 J**	<100	<100
Byproduct 4	--	<160 UJ	--	--
Byproduct 5	--	**91 J**	--	--
Byproduct 6	--	<15 UJ	--	--
NVHOS	--	<54 UJ	--	--
PES	--	<46 UJ	--	--
PFESA-BP1	<50 UJ	<27 UJ	<50	<50
PFESA-BP2	<50 UJ	<30 UJ	<50	<50
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	--
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	--
Total Table 3+ Compounds*		**2,200**	**680**	**560**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**290 J**	--	**130 J**	**120 J**
Perfluorobutanoic Acid	**5.4**	--	--	<5.1
Perfluorodecanoic Acid	<1.7	--	--	<1.7
Perfluorododecanoic Acid	<1.7	--	--	<1.7
Perfluoroheptanoic Acid	**1.8**	--	--	**1.5**
Perfluorononanoic Acid	<1.7	--	--	<1.7
Perfluorooctanoic acid	**4.7**	--	--	**2.5**
Perfluorohexanoic Acid	**2.5**	--	--	**2.2**
Perfluoropentanoic Acid	**6.7**	--	--	<5.1
Perfluorotetradecanoic Acid	<0.85	--	--	<0.86
Perfluorotridecanoic Acid	<0.85	--	--	<0.86
Perfluoroundecanoic Acid	<1.7	--	--	<1.7
Perfluorobutane Sulfonic Acid	**3.1**	--	--	**3.1**
Perfluorodecane Sulfonic Acid	<1.7	--	--	<1.7
Perfluoroheptane sulfonic acid (PFHpS)	<1.7	--	--	<1.7
Perfluorohexane Sulfonic Acid	<1.7	--	--	<1.7
Perfluorononanesulfonic acid	<1.7	--	--	<1.7
Perfluorooctanesulfonic acid	**2.3**	--	--	**2.1**
Perfluoropentane sulfonic acid (PFPeS)	<1.7	--	--	<1.7
10:2 Fluorotelomer sulfonate	<2.6	--	--	<2.6
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.6	--	--	<2.6
6:2 Fluorotelomer sulfonate	<1.7	--	--	<1.7
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<5.1	--	--	<5.1
N-ethyl perfluorooctane sulfonamidoacetic acid	<2.6	--	--	<2.6
N-ethylperfluoro-1-octanesulfonamide	<7.7 UJ	--	--	<7.7 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.6 UJ	--	--	<2.6 UJ
N-methyl perfluorooctane sulfonamidoacetic acid	<2.6	--	--	<2.6
N-methyl perfluoro-1-octanesulfonamide	<7.7 UJ	--	--	<7.7 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2.6 UJ	--	--	<2.6 UJ
Perfluorododecane sulfonic acid (PFDoS)	<0.85	--	--	<0.86
Perfluorohexadecanoic acid (PFHxDA)	<0.85	--	--	<0.86
Perfluorooctadecanoic acid	<1.7	--	--	<1.7
Perfluorooctane Sulfonamide	<2.6	--	--	<2.6
ADONA	<0.85 UJ	--	--	<0.86 UJ
F-53B Major	<0.85 UJ	--	--	<0.86 UJ
F-53B Minor	<1.7 UJ	--	--	<1.7 UJ

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

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SOP - standard operating procedure

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

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			
Location ID	WC-4	WC-5	CFR-MILE-76	CFR-MILE-76
Field Sample ID	FAY-SW-WC-4-020719	FAY-SW-WC-5-020719	FAY-SW-CFR-RM-76-020219	FAY-SW-CFR-RM-76-020419
Laboratory Sample ID	9982656 / 9982653	9982660 / 9982657	9979948 / 9979951	320-51024-3
Date Sampled	2/7/2019	2/7/2019	2/4/2019	2/4/2019
QA/QC	--	--	--	--
Laboratory	Eurofins Lancaster	Eurofins Lancaster	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	<50	**74**	<50	<20 UJ
PFECA-G	<50	<50	<50	<2 UJ
PFMOAA	<50	<50	<50	<5 UJ
PFO2HxA	**82**	**74**	<50	**2 J**
PFO3OA	<50	<50	<50	<2 UJ
PFO4DA	<50	<50	<50	<2 UJ
PMPA	**210**	**190**	<50	**11 J**
Hydro-EVE Acid	--	--	--	<2 UJ
EVE Acid	--	--	--	<2 UJ
PFECA B	--	--	--	<2 UJ
R-EVE	--	--	--	<2 UJ
PFO5DA	<100	<100	<100	<2 UJ
Byproduct 4	--	--	--	<2 UJ
Byproduct 5	--	--	--	<2 UJ
Byproduct 6	--	--	--	<2 UJ
NVHOS	--	--	--	**2.2 J**
PES	--	--	--	<2 UJ
PFESA-BP1	<50	<50	<50	<2 UJ
PFESA-BP2	<50	<50	<50	<2 UJ
N-ethylperfluoro-1-octanesulfonamide	--	--	--	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	--	--	--	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<2 UJ
Total Table 3+ Compounds*	**340**	**370**		**18**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**51 J**	**33 J**	**2.9 J**	--
Perfluorobutanoic Acid	--	--	<5.2	--
Perfluorodecanoic Acid	--	--	<1.7	--
Perfluorododecanoic Acid	--	--	<1.7	--
Perfluoroheptanoic Acid	--	--	**3.7**	--
Perfluorononanoic Acid	--	--	<1.7	--
Perfluorooctanoic acid	--	--	**6.1**	--
Perfluorohexanoic Acid	--	--	**5.7**	--
Perfluoropentanoic Acid	--	--	<5.2	--
Perfluorotetradecanoic Acid	--	--	<0.87	--
Perfluorotridecanoic Acid	--	--	<0.87	--
Perfluoroundecanoic Acid	--	--	<1.7	--
Perfluorobutane Sulfonic Acid	--	--	**2 J**	--
Perfluorodecane Sulfonic Acid	--	--	<1.7	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<1.7	--
Perfluorohexane Sulfonic Acid	--	--	**3.5**	--
Perfluorononanesulfonic acid	--	--	<1.7	--
Perfluorooctanesulfonic acid	--	--	**7.8**	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	<1.7	--
10:2 Fluorotelomer sulfonate	--	--	<2.6	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<2.6	--
6:2 Fluorotelomer sulfonate	--	--	<1.7	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<5.2	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<2.6	--
N-ethylperfluoro-1-octanesulfonamide	--	--	<7.9 UJ	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<2.6	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<2.6	--
N-methyl perfluoro-1-octanesulfonamide	--	--	<7.9 UJ	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<2.6	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<0.87	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	<0.87	--
Perfluorooctadecanoic acid	--	--	<1.7	--
Perfluorooctane Sulfonamide	--	--	<2.6	--
ADONA	--	--	<0.87 UJ	--
F-53B Major	--	--	<0.87 UJ	--
F-53B Minor	--	--	<1.7 UJ	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019				
Location ID	CFR-MILE-84	CFR-MILE-84	EQBLK	EQBLK	FBLK
Field Sample ID	FAY-SW-CFR-RM-84-020219	FAY-SW-CFR-RM-84-020419	EB-020419	EB-020419	FB-020119
Laboratory Sample ID	9979952	320-51024-4	9979956	320-51024-5	9978967
Date Sampled	2/4/2019	2/4/2019	2/4/2019	2/4/2019	2/1/2019
QA/QC	--	--	Field Blank	Field Blank	Field Blank
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster
Table 3+ Lab SOP (ng/L)					
HFPO-DA	--	--	--	--	--
PEPA	**50**	<20 UJ	<50 UJ	<20 UJ	<50 UJ
PFECA-G	<50	<2 UJ	<50 UJ	<2 UJ	<50 UJ
PFMOAA	**56**	**55 J**	<50 UJ	<5 UJ	<50 UJ
PFO2HxA	<50	**17 J**	<50 UJ	<2 UJ	<50 UJ
PFO3OA	<50	**3.6 J**	<50 UJ	<2 UJ	<50 UJ
PFO4DA	<50	<2 UJ	<50 UJ	<2 UJ	<50 UJ
PMPA	<50	**31 J**	<50 UJ	<10 UJ	<50 UJ
Hydro-EVE Acid	--	<2 UJ	--	<2 UJ	--
EVE Acid	--	<2 UJ	--	<2 UJ	--
PFECA B	--	<2 UJ	--	<2 UJ	--
R-EVE	--	<2 UJ	--	<2 UJ	--
PFO5DA	<100	<2 UJ	<100 UJ	<2 UJ	<100 UJ
Byproduct 4	--	**8.3 J**	--	<2 UJ	--
Byproduct 5	--	**14 J**	--	<2 UJ	--
Byproduct 6	--	<2 UJ	--	<2 UJ	--
NVHOS	--	**2.9 J**	--	<2 UJ	--
PES	--	<2 UJ	--	<2 UJ	--
PFESA-BP1	<50	<2 UJ	<50 UJ	<2 UJ	<50 UJ
PFESA-BP2	<50	<2 UJ	<50 UJ	<2 UJ	<50 UJ
N-ethylperfluoro-1-octanesulfonamide	--	<2 UJ	--	<2 UJ	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<2 UJ	--	<2 UJ	--
N-methyl perfluoro-1-octanesulfonamide	--	<2 UJ	--	<2 UJ	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<2 UJ	--	<2 UJ	--
Total Table 3+ Compounds*		**140**		**ND**	
EPA Method 537 Mod (ng/L)					
HFPO-DA	**13**	--	<1.8	--	<1.8
Perfluorobutanoic Acid	<5.3	--	<5.4	--	<5.4
Perfluorodecanoic Acid	<1.8	--	<1.8	--	<1.8
Perfluorododecanoic Acid	<1.8	--	<1.8	--	<1.8
Perfluoroheptanoic Acid	**3.5**	--	<0.91	--	<0.9
Perfluorononanoic Acid	<1.8	--	<1.8	--	<1.8
Perfluorooctanoic acid	**5.7**	--	<0.91	--	<0.9
Perfluorohexanoic Acid	**5.6**	--	<1.8	--	<1.8
Perfluoropentanoic Acid	**5.8**	--	<5.4	--	<5.4
Perfluorotetradecanoic Acid	<0.89	--	<0.91	--	<0.9
Perfluorotridecanoic Acid	<0.89	--	<0.91	--	<0.9
Perfluoroundecanoic Acid	<1.8	--	<1.8	--	<1.8
Perfluorobutane Sulfonic Acid	**2.2 J**	--	<0.91	--	<0.9
Perfluorodecane Sulfonic Acid	<1.8	--	<1.8	--	<1.8
Perfluoroheptane sulfonic acid (PFHpS)	<1.8	--	<1.8	--	<1.8
Perfluorohexane Sulfonic Acid	**3.3**	--	<1.8	--	<1.8
Perfluorononanesulfonic acid	<1.8	--	<1.8	--	<1.8
Perfluorooctanesulfonic acid	**8.4**	--	<1.8	--	<1.8
Perfluoropentane sulfonic acid (PFPeS)	<1.8	--	<1.8	--	<1.8
10:2 Fluorotelomer sulfonate	<2.7	--	<2.7	--	<2.7
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.7	--	<2.7	--	<2.7
6:2 Fluorotelomer sulfonate	<1.8	--	<1.8	--	<1.8
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<5.3	--	<5.4	--	<5.4
N-ethyl perfluorooctane sulfonamidoacetic acid	<2.7	--	<2.7	--	<2.7
N-ethylperfluoro-1-octanesulfonamide	<8 UJ	--	<8.2	--	<8.1
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.7	--	<2.7	--	<2.7
N-methyl perfluorooctane sulfonamidoacetic acid	<2.7	--	<2.7	--	<2.7
N-methyl perfluoro-1-octanesulfonamide	<8 UJ	--	<8.2	--	<8.1
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2.7	--	<2.7	--	<2.7
Perfluorododecane sulfonic acid (PFDoS)	<0.89	--	<0.91	--	<0.9
Perfluorohexadecanoic acid (PFHxDA)	<0.89	--	<0.91	--	<0.9
Perfluorooctadecanoic acid	<1.8	--	<1.8	--	<1.8
Perfluorooctane Sulfonamide	<2.7	--	<2.7	--	<2.7
ADONA	<0.89	--	<0.91	--	<0.9
F-53B Major	<0.89	--	<0.91	--	<0.9
F-53B Minor	<1.8	--	<1.8	--	<1.8

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019				
Location ID	FBLK	FBLK	FBLK	FBLK	FBLK
Field Sample ID	FB-020119	FB-020219	FB-020219	FB-S-020519	FB-020519
Laboratory Sample ID	320-51031-9	9979939 / 9979936	320-51031-6	9980837	320-51045-11
Date Sampled	2/1/2019	2/2/2019	2/2/2019	2/5/2019	2/5/2019
QA/QC	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Laboratory	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)					
HFPO-DA	--	--	--	--	--
PEPA	<47 UJ	<50 UJ	<47 UJ	<50	<47 UJ
PFECA-G	<41 UJ	<50 UJ	<41 UJ	<50	<41 UJ
PFMOAA	<210 UJ	<50 UJ	<210 UJ	<50	<210 UJ
PFO2HxA	<81 UJ	<50 UJ	<81 UJ	<50	<81 UJ
PFO3OA	<58 UJ	<50 UJ	<58 UJ	<50	<58 UJ
PFO4DA	<79 UJ	<50 UJ	<79 UJ	<50	<79 UJ
PMPA	<570 UJ	<50 UJ	<570 UJ	<50	<570 UJ
Hydro-EVE Acid	<28 UJ	--	<28 UJ	--	<28 UJ
EVE Acid	<24 UJ	--	<24 UJ	--	<24 UJ
PFECA B	<60 UJ	--	<60 UJ	--	<60 UJ
R-EVE	<70 UJ	--	<70 UJ	--	<70 UJ
PFO5DA	**370 J**	<100 UJ	<34 UJ	<100	<34 UJ
Byproduct 4	<160 UJ	--	<160 UJ	--	<160 UJ
Byproduct 5	<58 UJ	--	<58 UJ	--	**58 J**
Byproduct 6	<15 UJ	--	<15 UJ	--	<15 UJ
NVHOS	<54 UJ	--	<54 UJ	--	<54 UJ
PES	<46 UJ	--	<46 UJ	--	<46 UJ
PFESA-BP1	<27 UJ	<50 UJ	<27 UJ	<50	<27 UJ
PFESA-BP2	<30 UJ	<50 UJ	<30 UJ	<50	<30 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	--	<37 UJ	--	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	--	<60 UJ	--	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	--	<35 UJ	--	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	--	<110 UJ	--	<110 UJ
Total Table 3+ Compounds*	**370**		**ND**		**58**
EPA Method 537 Mod (ng/L)					
HFPO-DA	--	<1.8	--	<1.8 UJ	--
Perfluorobutanoic Acid	--	--	--	<5.3	--
Perfluorodecanoic Acid	--	--	--	<1.8	--
Perfluorododecanoic Acid	--	--	--	<1.8	--
Perfluoroheptanoic Acid	--	--	--	<0.88	--
Perfluorononanoic Acid	--	--	--	<1.8	--
Perfluorooctanoic acid	--	--	--	<0.88	--
Perfluorohexanoic Acid	--	--	--	<1.8	--
Perfluoropentanoic Acid	--	--	--	<5.3	--
Perfluorotetradecanoic Acid	--	--	--	<0.88	--
Perfluorotridecanoic Acid	--	--	--	<0.88	--
Perfluoroundecanoic Acid	--	--	--	<1.8	--
Perfluorobutane Sulfonic Acid	--	--	--	<0.88	--
Perfluorodecane Sulfonic Acid	--	--	--	<1.8	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	<1.8	--
Perfluorohexane Sulfonic Acid	--	--	--	<1.8	--
Perfluorononanesulfonic acid	--	--	--	<1.8	--
Perfluorooctanesulfonic acid	--	--	--	<1.8	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	<1.8	--
10:2 Fluorotelomer sulfonate	--	--	--	<2.6	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	<2.6	--
6:2 Fluorotelomer sulfonate	--	--	--	<1.8	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	<5.3	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	<2.6	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	<7.9	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<2.6	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	<2.6	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	<7.9	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	<2.6	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	<0.88	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	<0.88	--
Perfluorooctadecanoic acid	--	--	--	<1.8	--
Perfluorooctane Sulfonamide	--	--	--	<2.6	--
ADONA	--	--	--	<0.88	--
F-53B Major	--	--	--	<0.88	--
F-53B Minor	--	--	--	<1.8	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	February 2019			May 2019	
Location ID	FBLK	FBLK	FBLK	OLDOF-2	SEEP-A-1
Field Sample ID	FB-020619	FB-020619	FB-020719	FAY-SW-OLDOF-2-052419	FAY-SW-SEEPA-1-052019
Laboratory Sample ID	9981763 / 9981760	320-51045-12	9982661 / 9982664	280-124472-2	280-124212-1
Date Sampled	2/6/2019	2/6/2019	2/7/2019	5/24/2019	5/20/2019
QA/QC	Field Blank	Field Blank	Field Blank	--	--
Laboratory	Eurofins Lancaster	TestAmerica Sacramento	Eurofins Lancaster	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)					
HFPO-DA	--	--	--	--	--
PEPA	<50 UJ	<47 UJ	<50	**1,900**	**11,000**
PFECA-G	<50 UJ	<41 UJ	<50	<41	<41
PFMOAA	<50 UJ	<210 UJ	<50	**71,000**	**103,000 J**
PFO2HxA	<50 UJ	<81 UJ	<50	**18,000**	**47,000**
PFO3OA	<50 UJ	<58 UJ	<50	**4,800**	**18,000**
PFO4DA	<50 UJ	<79 UJ	<50	**1,600**	**11,000**
PMPA	<50 UJ	<570 UJ	<50	**5,600**	**24,000 J**
Hydro-EVE Acid	--	<28 UJ	--	**200**	**2,500**
EVE Acid	--	<24 UJ	--	<24	**1,600**
PFECA B	--	<60 UJ	--	<60	<60
R-EVE	--	<70 UJ	--	**170 J**	**1,600**
PFO5DA	<100 UJ	<34 UJ	<100	**620**	**7,100**
Byproduct 4	--	<160 UJ	--	**410**	**3,000**
Byproduct 5	--	<58 UJ	--	**790**	**31,000**
Byproduct 6	--	<15 UJ	--	<15	**67**
NVHOS	--	<54 UJ	--	**830**	**1,400**
PES	--	<46 UJ	--	<46	<46
PFESA-BP1	<50 UJ	<27 UJ	<50	<27	**7,400**
PFESA-BP2	<50 UJ	<30 UJ	<50	**310**	**1,800**
N-ethylperfluoro-1-octanesulfonamide	--	<37 UJ	--	<37	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	<60 UJ	--	<60	<60
N-methyl perfluoro-1-octanesulfonamide	--	<35 UJ	--	<35	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	<110 UJ	--	<110	<110
Total Table 3+ Compounds*		**ND**	**2**	**110,000**	**300,000**
EPA Method 537 Mod (ng/L)					
HFPO-DA	<1.8 UJ	--	**2.2 J**	**6,700 J**	**24,000 J**
Perfluorobutanoic Acid	--	--	<5.4	**86**	**360**
Perfluorodecanoic Acid	--	--	<1.8	<2	<2
Perfluorododecanoic Acid	--	--	<1.8	<2	<2
Perfluoroheptanoic Acid	--	--	<0.9	**25**	**120**
Perfluorononanoic Acid	--	--	<1.8	**7.5**	**28**
Perfluorooctanoic acid	--	--	<0.9	**32**	**39**
Perfluorohexanoic Acid	--	--	<1.8	**17**	**50**
Perfluoropentanoic Acid	--	--	<5.4	**150**	**690**
Perfluorotetradecanoic Acid	--	--	<0.9	<2	<2
Perfluorotridecanoic Acid	--	--	<0.9	<2	<2
Perfluoroundecanoic Acid	--	--	<1.8	<2	<2
Perfluorobutane Sulfonic Acid	--	--	<0.9	<2	<2
Perfluorodecane Sulfonic Acid	--	--	<1.8	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<1.8	<2	<2
Perfluorohexane Sulfonic Acid	--	--	<1.8	<2	**3.3**
Perfluorononanesulfonic acid	--	--	<1.8	<2	<2
Perfluorooctanesulfonic acid	--	--	<1.8	**2**	**5.7**
Perfluoropentane sulfonic acid (PFPeS)	--	--	<1.8	<2	<2
10:2 Fluorotelomer sulfonate	--	--	<2.7	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<2.7 UJ	<20	<20
6:2 Fluorotelomer sulfonate	--	--	<1.8	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<5.4	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<2.7	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	<8.1	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<2.7	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<2.7	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	<8.1	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	<2.7	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<0.9	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	<0.9	<2	<2
Perfluorooctadecanoic acid	--	--	<1.8	<2	<2
Perfluorooctane Sulfonamide	--	--	<2.7	<2	<2
ADONA	--	--	<0.9	--	--
F-53B Major	--	--	<0.9	--	--
F-53B Minor	--	--	<1.8	--	--

Notes:

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

ND - No Table 3+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	SEEP-A-1	SEEP-A-10	SEEP-A-3	SEEP-A-4
Field Sample ID	FAY-SW-SEEPA-1-052019-D	FAY-SW-SEEPA-10-052019	FAY-SW-SEEPA-3-052119	FAY-SW-SEEPA-4-052119
Laboratory Sample ID	280-124212-2	280-124212-3	280-124212-14	280-124212-8
Date Sampled	5/20/2019	5/20/2019	5/21/2019	5/21/2019
QA/QC	Field Duplicate	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	**41,000**	--
PEPA	**11,000**	**29,000**	**12,000**	**11,000**
PFECA-G	<41	<41	<41	<41
PFMOAA	**103,000**	**26,000**	**118,000 J**	**45,000**
PFO2HxA	**48,000**	**36,000**	**57,000**	**26,000**
PFO3OA	**18,000**	**14,000 J**	**22,000**	**7,400**
PFO4DA	**11,000**	**13,000**	**11,000**	**3,300**
PMPA	**25,000 J**	**61,000 J**	**31,000**	**25,000**
Hydro-EVE Acid	**2,500**	**6,800**	**2,800**	**710**
EVE Acid	**1,700**	**12,000**	**2,100**	**76**
PFECA B	<60	<60	<60	<60
R-EVE	**1,600**	**5,100 J**	**1,800 J**	**770**
PFO5DA	**6,200**	**12,000**	**7,900**	**1,800**
Byproduct 4	**3,000**	**7,900 J**	**3,900 J**	**1,300**
Byproduct 5	**32,000**	**71,000 J**	**37,000 J**	**5,500**
Byproduct 6	**74**	**150**	**79**	**25**
NVHOS	**1,400**	**2,000**	**1,800**	**680**
PES	<46	<46	<46	<46
PFESA-BP1	**7,400**	**27,000**	**9,000**	**260**
PFESA-BP2	**1,700**	**3,600**	**1,900**	**650**
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60
N-methyl perfluoro-1-octanesulfonamide	<35	<35 UJ	<35 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
Total Table 3+ Compounds*	**300,000**	**370,000**	**320,000**	**150,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**30,000 J**	**48,000 J**	--	**20,000 J**
Perfluorobutanoic Acid	**360**	**690**	--	**330**
Perfluorodecanoic Acid	<2	**11**	--	<2
Perfluorododecanoic Acid	<2	<2	--	<2
Perfluoroheptanoic Acid	**120**	**180**	--	**71**
Perfluorononanoic Acid	**26**	**75**	--	**11**
Perfluorooctanoic acid	**37**	**79**	--	**31**
Perfluorohexanoic Acid	**52**	**55**	--	**25**
Perfluoropentanoic Acid	**750**	**930**	--	**450**
Perfluorotetradecanoic Acid	<2	<2	--	<2
Perfluorotridecanoic Acid	<2	<2	--	<2
Perfluoroundecanoic Acid	<2	**9.8**	--	<2
Perfluorobutane Sulfonic Acid	<2	<2	--	<2
Perfluorodecane Sulfonic Acid	<2	<2	--	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	--	<2
Perfluorohexane Sulfonic Acid	**3.3**	<2	--	<2
Perfluorononanesulfonic acid	<2	<2	--	<2
Perfluorooctanesulfonic acid	**5.5**	**9.5**	--	**4.5**
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	--	<2
10:2 Fluorotelomer sulfonate	<2	<2	--	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	--	<20
6:2 Fluorotelomer sulfonate	<20	<20	--	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	--	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	--	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	--	<2
Perfluorooctadecanoic acid	<2	<2	--	<2
Perfluorooctane Sulfonamide	<2	<2	--	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	SEEP-A-5	SEEP-A-5-B-1	SEEP-A-5-B-1	SEEP-A-5-D1-2
Field Sample ID	FAY-SW-SEEPA-5-052119	FAY-SW-SEEPA-5-B-1-052119	FAY-SW-SEEPA-5-B-1-052119-D	FAY-SW-SEEPA-5-D1-2-052119
Laboratory Sample ID	280-124212-9	280-124212-5	280-124212-6	280-124212-4
Date Sampled	5/21/2019	5/21/2019	5/21/2019	5/21/2019
QA/QC	--	--	Field Duplicate	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**20,000**	<47	<47	**6,800**
PFECA-G	<41	<41	<41	<41
PFMOAA	**25,000**	<210	<210	**6,800**
PFO2HxA	**24,000**	<81	<81	**16,000**
PFO3OA	**7,000 J**	<58	<58	**2,800**
PFO4DA	**5,300**	<79	<79	**1,800**
PMPA	**38,000 J**	<570	<570	**17,000**
Hydro-EVE Acid	**1,200**	<28	<28	**100**
EVE Acid	**740**	<24	<24	<24
PFECA B	<60	<60	<60	<60
R-EVE	**1,000 J**	<70	<70	**260**
PFO5DA	**4,200**	<34	<34	**360 B**
Byproduct 4	**1,600 J**	<160	<160	**480**
Byproduct 5	**6,300 J**	<58	<58	<58
Byproduct 6	**37**	<15	<15	<15
NVHOS	**550**	<54	<54	**120**
PES	<46	<46	<46	<46
PFESA-BP1	**1,800**	<27	<27	<27
PFESA-BP2	**1,400**	<30	<30	**330**
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
Total Table 3+ Compounds*	**170,000**	**42**	**38**	**65,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**29,000 J**	**42 J**	**38 J**	**12,000 J**
Perfluorobutanoic Acid	**620**	**6.2**	**6.4**	**120**
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptanoic Acid	**82**	**8.6**	**8.6**	**37**
Perfluorononanoic Acid	**25**	<2	<2	**3**
Perfluorooctanoic acid	**53**	**9**	**8.7**	**60**
Perfluorohexanoic Acid	**32**	**13**	**13**	**14**
Perfluoropentanoic Acid	**530**	**12**	**13**	**190**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
Perfluorobutane Sulfonic Acid	<2	**3.2**	**3.3**	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	<2	**4.9**	**5**	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorooctanesulfonic acid	**4.6**	**11**	**11**	**2.3**
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2 UJ	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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B - analyte detected in an associated blank

EPA - Environmental Protection Agency

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ND - No Table 3+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	SEEP-A-TR1	SEEP-A-TR2-1	SEEP-A-TR3-1	SEEP-A-TR4-1
Field Sample ID	FAY-SW-SEEPA-TR1-052119	FAY-SW-SEEP-A-TR2-1-052119	FAY-SW-SEEP-A-TR3-1-052119	FAY-SW-SEEP-A-TR4-1-052119
Laboratory Sample ID	280-124212-7	280-124222-3	280-124222-1	280-124222-4
Date Sampled	5/21/2019	5/21/2019	5/21/2019	5/21/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**6,600**	**6,800**	**8,800**	**5,700**
PFECA-G	<41	<41	<41	<41
PFMOAA	**24,000**	**24,000**	**30,000**	**5,000**
PFO2HxA	**20,000**	**21,000**	**27,000**	**14,000**
PFO3OA	**5,100**	**5,500**	**5,500**	**2,200**
PFO4DA	**1,900**	**1,900**	**1,500**	**1,300**
PMPA	**16,000**	**19,000**	**25,000**	**16,000**
Hydro-EVE Acid	**220**	**240**	**130**	**91**
EVE Acid	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60
R-EVE	**510**	**570 J**	**600 J**	**260 J**
PFO5DA	**230 B**	**220**	**170**	**320**
Byproduct 4	**860**	**960 J**	**1,100 J**	**540 J**
Byproduct 5	**980**	**1,200 J**	**980 J**	<58
Byproduct 6	<15	**15**	<15	<15
NVHOS	**280 J**	**360**	**370**	**120**
PES	<46	<46	<46	<46
PFESA-BP1	<27	<27	<27	<27
PFESA-BP2	**250**	**290**	**260**	**310**
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
Total Table 3+ Compounds*	**89,000**	**82,000**	**100,000**	**46,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**12,000 J**	--	--	--
Perfluorobutanoic Acid	**150**	**140**	**160**	**97**
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptanoic Acid	**45**	**41**	**39**	**32**
Perfluorononanoic Acid	**2.9**	**2**	<2	**2.5**
Perfluorooctanoic acid	**26**	**25**	**24**	**56**
Perfluorohexanoic Acid	**17**	--	--	--
Perfluoropentanoic Acid	**250**	**270**	**310**	**170**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
Perfluorobutane Sulfonic Acid	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	**2.2**	**2**	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorooctanesulfonic acid	**8.8**	**6.1**	<2	**3.1 I**
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	--	--	--
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

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ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	SEEP-B-1	SEEP-B-2	SEEP-B-3-A	SEEP-B-TR1
Field Sample ID	FAY-SW-SEEP-B-1-052119	FAY-SW-SEEP-B-2 -052119	FAY-SW-SEEP-B-3A-052119	FAY-SW-SEEPB-TR1- 052119
Laboratory Sample ID	280-124257-1	280-124257-2	280-124257-5	280-124257-3
Date Sampled	5/21/2019	5/21/2019	5/21/2019	5/21/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	**75,000**	**150,000**	**17,000**
PEPA	**13,000**	**46,000**	**99,000**	**13,000**
PFECA-G	<41	<41	<200	<41
PFMOAA	**150,000**	**11,000 J**	**6,600**	**38,000 J**
PFO2HxA	**43,000**	**17,000**	**22,000**	**19,000**
PFO3OA	**9,600**	**4,100**	**4,900**	**4,700**
PFO4DA	**1,300**	**2,500**	**3,800**	**1,500**
PMPA	**34,000**	**81,000**	**166,000**	**30,000**
Hydro-EVE Acid	**1,700**	**8,300**	**19,000**	**110**
EVE Acid	**2,900**	**22,000**	**89,000**	<24
PFECA B	<60	<60	<300	<60
R-EVE	**2,000 J**	**9,000**	**19,000 J**	**500 J**
PFO5DA	**210**	**1,300**	**2,800**	**130**
Byproduct 4	**2,900 J**	**11,000**	**22,000 J**	**880 J**
Byproduct 5	**21,000 J**	**56,000 J**	**113,000**	**1,200 J**
Byproduct 6	**53**	**250 J**	**610**	<15
NVHOS	**2,700**	**6,600**	**15,000**	**430**
PES	<46	<46	<230	<46
PFESA-BP1	**2,000**	**15,000**	**58,000 J**	<27
PFESA-BP2	**660**	**3,300**	**7,700**	**170**
N-ethylperfluoro-1-octanesulfonamide	<37	<37	<190	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<300	<60
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<170	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<550	<110
Total Table 3+ Compounds*	**310,000**	**290,000**	**650,000**	**110,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**22,000 J**	--	--	--
Perfluorobutanoic Acid	**470**	--	--	--
Perfluorodecanoic Acid	**2.2**	--	--	--
Perfluorododecanoic Acid	<2	--	--	--
Perfluoroheptanoic Acid	**140**	--	--	--
Perfluorononanoic Acid	**12**	--	--	--
Perfluorooctanoic acid	**17**	--	--	--
Perfluorohexanoic Acid	**37**	--	--	--
Perfluoropentanoic Acid	**1,200**	--	--	--
Perfluorotetradecanoic Acid	<2	--	--	--
Perfluorotridecanoic Acid	<2	--	--	--
Perfluoroundecanoic Acid	<2	--	--	--
Perfluorobutane Sulfonic Acid	<2	--	--	--
Perfluorodecane Sulfonic Acid	<2	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<2	--	--	--
Perfluorohexane Sulfonic Acid	<2	--	--	--
Perfluorononanesulfonic acid	<2	--	--	--
Perfluorooctanesulfonic acid	**2.3**	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	<2	--	--	--
10:2 Fluorotelomer sulfonate	<2	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	--	--	--
6:2 Fluorotelomer sulfonate	<20	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	<2	--	--	--
Perfluorooctadecanoic acid	<2	--	--	--
Perfluorooctane Sulfonamide	<2	--	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	SEEP-B-TR2	SEEP-C-1	SEEP-D-1	SEEP-D-1
Field Sample ID	FAY-SW-SEEPB-TR2- 052119	FAY-SW-SEEP-C-1-052319	FAY-SW-SEEP-D-1-053019	FAY-SW-SEEP-D-1-053019-D
Laboratory Sample ID	280-124257-4	280-124325-4	280-124599-1	280-124599-2
Date Sampled	5/21/2019	5/23/2019	5/30/2019	5/30/2019
QA/QC	--	--	--	Field Duplicate
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	**42,000**	--	--	--
PEPA	**22,000**	**5,000**	**2,900 J**	**3,000 J**
PFECA-G	<41	<61	<41 UJ	<41 UJ
PFMOAA	**82,000**	**193,000**	**91,000 J**	**91,000 J**
PFO2HxA	**28,000**	**66,000**	**29,000 J**	**29,000 J**
PFO3OA	**5,400**	**19,000**	**7,900 J**	**8,100 J**
PFO4DA	**1,400**	**4,900**	**2,300 J**	**2,500 J**
PMPA	**44,000**	**14,000**	**9,200 J**	**9,000 J**
Hydro-EVE Acid	**4,600**	**2,500**	**1,300 J**	**1,300 J**
EVE Acid	**2,500**	<36	<24 UJ	<24 UJ
PFECA B	<60	<90	<60 UJ	<60 UJ
R-EVE	**5,700**	**1,200**	**1,100 J**	**1,100 J**
PFO5DA	**440**	**97 J**	**150 B**	**150 B**
Byproduct 4	**6,400 J**	**1,300**	**970 J**	**1,000 J**
Byproduct 5	**34,000 J**	**1,900**	**2,600 J**	**2,500 J**
Byproduct 6	**130**	**52 J**	**15 J**	<15 UJ
NVHOS	**4,900**	**2,000**	**810 J**	**800 J**
PES	<46	<69	<46 UJ	<46 UJ
PFESA-BP1	**2,700**	<40	<27 UJ	<27 UJ
PFESA-BP2	**1,700**	**720**	**320 J**	**340 J**
N-ethylperfluoro-1-octanesulfonamide	<37	<56	<37 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<90	<60 UJ	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	<35	<52	<35 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<160	<110 UJ	<110 UJ
Total Table 3+ Compounds*	**250,000**	**350,000**	**170,000**	**160,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	**36,000 J**	**19,000 J**	**15,000 J**
Perfluorobutanoic Acid	--	**390**	**210**	**210**
Perfluorodecanoic Acid	--	<2	<2	<2
Perfluorododecanoic Acid	--	<2	<2	<2
Perfluoroheptanoic Acid	--	**240**	**97**	**93**
Perfluorononanoic Acid	--	<2	**2.7**	**2.6**
Perfluorooctanoic acid	--	**18**	**12**	**11**
Perfluorohexanoic Acid	--	**92**	**40**	**41**
Perfluoropentanoic Acid	--	**1,800**	**760**	**730**
Perfluorotetradecanoic Acid	--	<2	<2	<2
Perfluorotridecanoic Acid	--	<2	<2	<2
Perfluoroundecanoic Acid	--	<2	<2	<2
Perfluorobutane Sulfonic Acid	--	<2	<2	<2
Perfluorodecane Sulfonic Acid	--	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2	<2
Perfluorohexane Sulfonic Acid	--	**2.2**	**2**	**2**
Perfluorononanesulfonic acid	--	<2	<2	<2
Perfluorooctanesulfonic acid	--	**2.2**	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2	<2
10:2 Fluorotelomer sulfonate	--	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	<20	<20
6:2 Fluorotelomer sulfonate	--	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	<2	<2	<2
Perfluorooctadecanoic acid	--	<2	<2	<2
Perfluorooctane Sulfonamide	--	<2	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	WC-1	WC-1-TR1	WC-1-TR2	WC-3-TR2
Field Sample ID	FAY-SW-WC-1-053019	FAY-SW-WC-1-TR1-052119	FAY-SW-WC-1-TR2-052219	FAY-SW-WC-3-TR2-052319
Laboratory Sample ID	280-124599-3	280-124212-10	280-124323-2	280-124323-3
Date Sampled	5/30/2019	5/21/2019	5/22/2019	5/23/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	**3,900**	**11,000**
PEPA	**240 J**	<47	**720**	**2,800**
PFECA-G	<41 UJ	<41	<41	<41
PFMOAA	**1,400 J**	<210	**1,300**	**2,100**
PFO2HxA	**730 J**	<81	**2,000**	**6,500**
PFO3OA	**120 J**	<58	**380**	**1,000**
PFO4DA	<79 UJ	<79	**200**	**520**
PMPA	**1,200 J**	<570	**2,400**	**8,300**
Hydro-EVE Acid	<28 UJ	<28	<28	**30**
EVE Acid	<24 UJ	<24	<24	<24
PFECA B	<60 UJ	<60	<60	<60
R-EVE	<70 UJ	<70	<70	<70
PFO5DA	**45 B**	<34	<34	<34
Byproduct 4	<160 UJ	<160	<160	<160
Byproduct 5	**220 J**	<58	<58 UJ	<58 UJ
Byproduct 6	<15 UJ	<15	<15	<15
NVHOS	<54 UJ	<54	<54	<54
PES	<46 UJ	<46	<46	<46
PFESA-BP1	<27 UJ	<27	<27	<27
PFESA-BP2	<30 UJ	<30	**59**	**93**
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60	<60	<60
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110	<110	<110
Total Table 3+ Compounds*	**4,800**	**62**	**7,100**	**21,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**810 J**	**62 J**	--	--
Perfluorobutanoic Acid	**10**	**6**	--	--
Perfluorodecanoic Acid	<2	<2	--	--
Perfluorododecanoic Acid	<2	<2	--	--
Perfluoroheptanoic Acid	**2.6**	**8.1**	--	--
Perfluorononanoic Acid	<2	<2	--	--
Perfluorooctanoic acid	**8.8**	**7.4**	--	--
Perfluorohexanoic Acid	**4.6**	**12**	--	--
Perfluoropentanoic Acid	**12**	**12**	--	--
Perfluorotetradecanoic Acid	<2	<2	--	--
Perfluorotridecanoic Acid	<2	<2	--	--
Perfluoroundecanoic Acid	<2	<2	--	--
Perfluorobutane Sulfonic Acid	**3.6**	**3.3**	--	--
Perfluorodecane Sulfonic Acid	<2	<2	--	--
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	--	--
Perfluorohexane Sulfonic Acid	**2.2**	**4.5**	--	--
Perfluorononanesulfonic acid	<2	<2	--	--
Perfluorooctanesulfonic acid	**4.2**	**11**	--	--
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	--	--
10:2 Fluorotelomer sulfonate	<2	<2	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	--	--
6:2 Fluorotelomer sulfonate	<20	<20	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	--	--
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	--	--
Perfluorooctadecanoic acid	<2	<2	--	--
Perfluorooctane Sulfonamide	<2	<2	--	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

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< - Analyte not detected above associated reporting limit.

TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	WC-3-TR3	WC-4-TR1	GBC-1	GBC-2
Field Sample ID	FAY-SW-WC-3-TR3-052319	FAY-SW-WC-4-TR1-052219	FAY-SW-GBC-1-052919	FAY-SW-GBC-2-052919
Laboratory Sample ID	280-124323-4	280-124323-5	280-124472-4	280-124472-5
Date Sampled	5/23/2019	5/22/2019	5/29/2019	5/29/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	**2,400**	**1,700**	--	**640**
PEPA	**510**	**370**	**300 J**	**280**
PFECA-G	<41	<41	<41	<41
PFMOAA	**350**	**520**	<210	<210
PFO2HxA	**1,300**	**1,100**	**420 J**	**370**
PFO3OA	**260**	**210**	<58	**65**
PFO4DA	**85**	<79	<79	<79
PMPA	**1,700**	**1,300**	**1,300 J**	**1,200**
Hydro-EVE Acid	<28	<28	<28	<28
EVE Acid	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60
R-EVE	<70	<70	<70	<70 UJ
PFO5DA	<34	<34	<34	<34
Byproduct 4	<160	<160	<160	<160
Byproduct 5	<58 UJ	<58 UJ	<58	<58
Byproduct 6	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54
PES	<46	<46	<46	<46
PFESA-BP1	<27	<27	<27	<27
PFESA-BP2	**40**	<30	**33**	**30**
N-ethylperfluoro-1-octanesulfonamide	<37	<37	<37	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
Total Table 3+ Compounds*	**4,200**	**3,500**	**2,600**	**1,900**
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	--	**500 J**	--
Perfluorobutanoic Acid	--	--	**11**	--
Perfluorodecanoic Acid	--	--	<2	--
Perfluorododecanoic Acid	--	--	<2	--
Perfluoroheptanoic Acid	--	--	**2.4**	--
Perfluorononanoic Acid	--	--	<2	--
Perfluorooctanoic acid	--	--	**3.8**	--
Perfluorohexanoic Acid	--	--	**3.3**	--
Perfluoropentanoic Acid	--	--	**10**	--
Perfluorotetradecanoic Acid	--	--	<2	--
Perfluorotridecanoic Acid	--	--	<2	--
Perfluoroundecanoic Acid	--	--	<2	--
Perfluorobutane Sulfonic Acid	--	--	<2	--
Perfluorodecane Sulfonic Acid	--	--	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2	--
Perfluorohexane Sulfonic Acid	--	--	<2	--
Perfluorononanesulfonic acid	--	--	<2	--
Perfluorooctanesulfonic acid	--	--	**2.4**	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2	--
10:2 Fluorotelomer sulfonate	--	--	<2	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20	--
6:2 Fluorotelomer sulfonate	--	--	<20	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2	--
Perfluorooctadecanoic acid	--	--	<2	--
Perfluorooctane Sulfonamide	--	--	<2	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

Bold - Analyte detected above associated reporting limit

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EPA - Environmental Protection Agency

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ND - No Table 3+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019				
Location ID	GBC-3	GBC-5	GBC-5	GBC-6	GBC-7
Field Sample ID	FAY-SW-GBC-3-052919	FAY-SW-GBC-5-052919	FAY-SW-GBC-5-052919-D	FAY-SW-GBC-6-052919	FAY-SW-GBC-7-052919
Laboratory Sample ID	280-124472-6	280-124472-9	280-124472-10	280-124472-11	280-124472-12
Date Sampled	5/29/2019	5/29/2019	5/29/2019	5/29/2019	5/29/2019
QA/QC	--	--	Field Duplicate	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)					
HFPO-DA	**680**	**1,300**	**1,200**	**1,400**	**1,200**
PEPA	**310**	**520**	**490 J**	**550**	**410**
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	<210	**210**	<210	<210	<210
PFO2HxA	**460**	**780**	**690 J**	**820**	**780**
PFO3OA	**70**	**130**	**130 J**	**140**	**130**
PFO4DA	<79	<79	<79	<79	<79
PMPA	**1,400**	**1,600 J**	**1,800 J**	**1,900**	**1,600**
Hydro-EVE Acid	<28	<28	<28	<28	<28
EVE Acid	<24	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60	<60
R-EVE	<70	<70	<70	<70	<70
PFO5DA	<34	<34	**34**	<34	**34**
Byproduct 4	<160	<160	<160	<160	<160
Byproduct 5	<58	<58	<58	<58	<58
Byproduct 6	<15	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54	<54
PES	<46	<46	<46	<46	<46
PFESA-BP1	<27	<27	<27	<27	<27
PFESA-BP2	**31**	**39**	**35**	**47**	**56**
N-ethylperfluoro-1-octanesulfonamide	<37	<37	<37	<37	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60	<60
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<35	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
Total Table 3+ Compounds*	**2,300**	**3,300**	**3,200**	**3,500**	**3,000**
EPA Method 537 Mod (ng/L)					
HFPO-DA	--	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--	--
Perfluorononanoic Acid	--	--	--	--	--
Perfluorooctanoic acid	--	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--	--
Perfluorooctanesulfonic acid	--	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--	--
ADONA	--	--	--	--	--
F-53B Major	--	--	--	--	--
F-53B Minor	--	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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ND - No Table 3+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	GBC-TR1	GBC-TR2	CFR-MILE-56	CFR-MILE-68
Field Sample ID	FAY-SW-GBC-TR1-1-052919	FAY-SW-GBC-TR2-1-052919	FAY-SW-CFR-RM-56-052219	FAY-SW-CFR-RM-08-052219
Laboratory Sample ID	280-124472-7	280-124472-8	280-124268-1	280-124268-2
Date Sampled	5/29/2019	5/29/2019	5/22/2019	5/22/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	**160**	**490**	--	--
PEPA	**110**	**230**	<20 UJ	<20 UJ
PFECA-G	<41	<41	<2 UJ	<2 UJ
PFMOAA	<210	<210	<5 UJ	<5 UJ
PFO2HxA	**130**	**310**	<2 UJ	**2 J**
PFO3OA	<58	<58	<2 UJ	<2 UJ
PFO4DA	<79	<79	<2 UJ	<2 UJ
PMPA	**900**	**1,100**	<10 UJ	**10 J**
Hydro-EVE Acid	<28	<28	<2 UJ	<2 UJ
EVE Acid	<24	<24	<2 UJ	<2 UJ
PFECA B	<60	<60	<2 UJ	<2 UJ
R-EVE	<70	<70 UJ	<2 UJ	<2 UJ
PFO5DA	<34	<34	<2 UJ	<2 UJ
Byproduct 4	<160	<160	**2 J**	**4.9 J**
Byproduct 5	<58	<58 UJ	**12 J**	**7.9 J**
Byproduct 6	<15	<15	<2 UJ	<2 UJ
NVHOS	<54	<54	**2.8 J**	**7.6 J**
PES	<46	<46	<2 UJ	<2 UJ
PFESA-BP1	<27	<27	<2 UJ	<2 UJ
PFESA-BP2	<30	<30	<2 UJ	<2 UJ
N-ethylperfluoro-1-octanesulfonamide	<37	<37	<2 UJ	<2 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<2 UJ	<2 UJ
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<2 UJ	<2 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<2 UJ	<2 UJ
Total Table 3+ Compounds*	**1,100**	**1,600**	**17**	**32**
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	--	<4	<4
Perfluorobutanoic Acid	--	--	**7.9**	**6.9**
Perfluorodecanoic Acid	--	--	<2	<2
Perfluorododecanoic Acid	--	--	<2	<2
Perfluoroheptanoic Acid	--	--	**13**	**9.5**
Perfluorononanoic Acid	--	--	<2	<2
Perfluorooctanoic acid	--	--	**8.3**	**7.2**
Perfluorohexanoic Acid	--	--	**18**	**15**
Perfluoropentanoic Acid	--	--	**17**	**13**
Perfluorotetradecanoic Acid	--	--	<2	<2
Perfluorotridecanoic Acid	--	--	<2	<2
Perfluoroundecanoic Acid	--	--	<2	<2
Perfluorobutane Sulfonic Acid	--	--	**3**	**3.3**
Perfluorodecane Sulfonic Acid	--	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2	<2
Perfluorohexane Sulfonic Acid	--	--	**5**	**5.4**
Perfluorononanesulfonic acid	--	--	<2	<2
Perfluorooctanesulfonic acid	--	--	**15**	**13**
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2	<2
10:2 Fluorotelomer sulfonate	--	--	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20	<20
6:2 Fluorotelomer sulfonate	--	--	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2	<2
Perfluorooctadecanoic acid	--	--	<2	<2
Perfluorooctane Sulfonamide	--	--	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	CFR-MILE-76	CFR-BLADEN	CFR-KINGS	CFR-KINGS
Field Sample ID	FAY-SW-CFR-RM-76-052219	FAY-SW-CFR-BLADEN-052219	FAY-SW-CFR-KINGS-052319	FAY-SW-CFR-KINGS-052319-D
Laboratory Sample ID	280-124268-3	280-124268-4	280-124325-2	280-124325-3
Date Sampled	5/22/2019	5/22/2019	5/23/2019	5/23/2019
QA/QC	--	--	--	Field Duplicate
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	<20 UJ	<20 UJ	<20	<20
PFECA-G	<2 UJ	<2 UJ	<2	<2
PFMOAA	<5 UJ	**130 J**	**7.8 J**	**8.4 J**
PFO2HxA	**3.5 J**	**40 J**	**29**	**29**
PFO3OA	<2 UJ	**9.9 J**	**7.5**	**7.6**
PFO4DA	<2 UJ	**3.5 J**	**2.4**	**2.4**
PMPA	<10 UJ	**31 J**	**29**	**21**
Hydro-EVE Acid	<2 UJ	<2 UJ	<2	<2
EVE Acid	<2 UJ	<2 UJ	<2	<2
PFECA B	<2 UJ	<2 UJ	<2	<2
R-EVE	<2 UJ	**4 J**	**10 J**	<2
PFO5DA	<2 UJ	<2 UJ	<2	<2
Byproduct 4	<2 UJ	**9.6 J**	**20 J**	<2
Byproduct 5	**5.2 J**	**31 J**	**7.6 J**	**8.3 J**
Byproduct 6	<2 UJ	<2 UJ	<2	<2
NVHOS	**4.1 J**	**6.1 J**	**6.2 J**	<2
PES	<2 UJ	<2 UJ	<2	<2
PFESA-BP1	<2 UJ	<2 UJ	<2	<2
PFESA-BP2	<2 UJ	<2 UJ	<2	<2
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2	<2
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2	<2
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2 UJ	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2 UJ	<2	<2
Total Table 3+ Compounds*	**13**	**270**	**140**	**93**
EPA Method 537 Mod (ng/L)				
HFPO-DA	<4	**28**	**17**	**16**
Perfluorobutanoic Acid	**6.2**	**6.8**	**4.9**	**4.9**
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptanoic Acid	**8.4**	**8.2**	**6.3**	**5.7**
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctanoic acid	**6.9**	**6.8**	**6.7**	**6.7**
Perfluorohexanoic Acid	**12**	**12**	**8.9**	**9**
Perfluoropentanoic Acid	**12**	**13**	**9.9**	**9.4**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
Perfluorobutane Sulfonic Acid	**3.1**	**3.3**	**2.7**	**2.9**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	**4.7**	**5**	**4.2**	**4.3**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorooctanesulfonic acid	**13**	**13**	**12**	**12**
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2 UJ	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019			
Location ID	Outfall 002	Excess River Water	EQBLK	EQBLK
Field Sample ID	DSTW-OUTFALL 002-052019	DSTW-EXCESS RIVER WATER-052019	EB-052219	EB2-052319
Laboratory Sample ID	280-124212-12	280-124212-11	280-124268-5	280-124325-1
Date Sampled	5/20/2019	5/20/2019	5/22/2019	5/23/2019
QA/QC	--	--	Equipment Blank	Equipment Blank
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	<86	<86	--	--
PEPA	<47	<47	<47	<20
PFECA-G	<41	<41	<41	<2
PFMOAA	<210	<210	<210	<5
PFO2HxA	<81	<81	<81	<2
PFO3OA	<58	<58	<58	<2
PFO4DA	<79	<79	<79	<2
PMPA	<570	<570	<570	<10
Hydro-EVE Acid	<28	<28	<28	<2
EVE Acid	<24	<24	<24	<2
PFECA B	<60	<60	<60	<2
R-EVE	<70	<70	<70	<2
PFO5DA	<34	<34	<34	<2
Byproduct 4	<160	<160	<160	<2
Byproduct 5	<58	<58	<58	<2
Byproduct 6	<15	<15	<15	<2
NVHOS	<54	<54	<54	<2
PES	<46	<46	<46	<2
PFESA-BP1	<27	<27	<27	<2
PFESA-BP2	<30	<30	<30	<2
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37	<2
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<2
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<2
Total Table 3+ Compounds*	**ND**	**ND**	**ND**	**ND**
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	--	<4	<4
Perfluorobutanoic Acid	--	--	<2	<2
Perfluorodecanoic Acid	--	--	<2	<2
Perfluorododecanoic Acid	--	--	<2	<2
Perfluoroheptanoic Acid	--	--	<2	<2
Perfluorononanoic Acid	--	--	<2	<2
Perfluorooctanoic acid	--	--	<2	<2
Perfluorohexanoic Acid	--	--	<2	<2
Perfluoropentanoic Acid	--	--	<2	<2
Perfluorotetradecanoic Acid	--	--	<2	<2
Perfluorotridecanoic Acid	--	--	<2	<2
Perfluoroundecanoic Acid	--	--	<2	<2
Perfluorobutane Sulfonic Acid	--	--	<2	<2
Perfluorodecane Sulfonic Acid	--	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2	<2
Perfluorohexane Sulfonic Acid	--	--	<2	<2
Perfluorononanesulfonic acid	--	--	<2	<2
Perfluorooctanesulfonic acid	--	--	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2	<2
10:2 Fluorotelomer sulfonate	--	--	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20	<20
6:2 Fluorotelomer sulfonate	--	--	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2	<2
Perfluorooctadecanoic acid	--	--	<2	<2
Perfluorooctane Sulfonamide	--	--	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

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ng/L - nanograms per liter

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019				
Location ID	FBLK	FBLK	FBLK	FBLK	FBLK
Field Sample ID	FB1-052019	FB2-052119	FB3-052219	FB4-052319	FB5-052419
Laboratory Sample ID	280-124212-13	280-124222-2	280-124257-6	280-124323-1	280-124472-1
Date Sampled	5/20/2019	5/21/2019	5/22/2019	5/23/2019	5/24/2019
QA/QC	Field Blank	Field Blank	Field Blank	Field Blank	Field Blank
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)					
HFPO-DA	<86	--	--	--	--
PEPA	<47	<47	<47	<47	<47
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	<210	<210	<210	<210	<210
PFO2HxA	<81	<81	<81	<81	<81
PFO3OA	<58	<58	<58	<58	<58
PFO4DA	<79	<79	<79	<79	<79
PMPA	<570	<570	<570	<570	<570
Hydro-EVE Acid	<28	<28	<28	<28	<28
EVE Acid	<24	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60	<60
R-EVE	<70	<70	<70	<70	<70 UJ
PFO5DA	**34**	<34	<34	<34	<34
Byproduct 4	<160	<160	<160	<160	<160
Byproduct 5	<58	<58	<58	<58 UJ	<58
Byproduct 6	<15	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54	<54
PES	<46	<46	<46	<46	<46
PFESA-BP1	<27	**27**	<27	<27	<27
PFESA-BP2	<30	<30	<30	<30	<30
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37	<37	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60	<60
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
Total Table 3+ Compounds*	**34**	**27**	**ND**	**ND**	**ND**
EPA Method 537 Mod (ng/L)					
HFPO-DA	--	--	<4	<4	<4
Perfluorobutanoic Acid	--	<2	<2	<2	<2
Perfluorodecanoic Acid	--	<2	<2	<2	<2
Perfluorododecanoic Acid	--	<2	<2	<2	<2
Perfluoroheptanoic Acid	--	<2	<2	<2	<2
Perfluorononanoic Acid	--	<2	<2	<2	<2
Perfluorooctanoic acid	--	<2	<2	<2	<2
Perfluorohexanoic Acid	--	--	<2	<2	<2
Perfluoropentanoic Acid	--	<2	<2	<2	<2
Perfluorotetradecanoic Acid	--	<2	<2	<2	<2
Perfluorotridecanoic Acid	--	<2	<2	<2	<2
Perfluoroundecanoic Acid	--	<2	<2	<2	<2
Perfluorobutane Sulfonic Acid	--	<2	<2	<2	<2
Perfluorodecane Sulfonic Acid	--	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	--	<2	<2	<2	<2
Perfluorononanesulfonic acid	--	<2	<2	<2	<2
Perfluorooctanesulfonic acid	--	<2	<2	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	<2	<2	<2	<2
10:2 Fluorotelomer sulfonate	--	<2	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	--	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2	<2	<2
Perfluorooctadecanoic acid	--	<2	<2	<2	<2
Perfluorooctane Sulfonamide	--	<2	<2	<2	<2
ADONA	--	--	--	--	--
F-53B Major	--	--	--	--	--
F-53B Minor	--	--	--	--	--

Notes:

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ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	May 2019		June 2019		
Location ID	FBLK	FBLK	OLDOF-2	SEEP-A-1	SEEP-A-3
Field Sample ID	FB6-052919	FB7-053019	FAY-SW-OLDOF-2-060719	FAY-SW-SEEP A-1-060719	FAY-SW-SEEP A-3-060719
Laboratory Sample ID	280-124472-3	280-124599-4	280-124971-2	280-124971-6	280-124971-7
Date Sampled	5/29/2019	5/30/2019	6/7/2019	6/7/2019	6/7/2019
QA/QC	Field Blank	Field Blank	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)					
HFPO-DA	--	--	--	--	**34,000 J**
PEPA	<47	<47 UJ	**1,800 J**	**6,900 J**	**9,800 J**
PFECA-G	<41	<41 UJ	<41 UJ	<41 UJ	<41 UJ
PFMOAA	<210	<210 UJ	**91,000 J**	**72,000 J**	**122,000 J**
PFO2HxA	<81	<81 UJ	**18,000 J**	**30,000 J**	**48,000 J**
PFO3OA	<58	<58 UJ	**4,700 J**	**11,000 J**	**17,000 J**
PFO4DA	<79	<79 UJ	**1,400 J**	**5,300 J**	**8,900 J**
PMPA	<570	<570 UJ	**5,400 J**	**17,000 J**	**25,000 J**
Hydro-EVE Acid	<28	<28 UJ	**200 J**	**1,400 J**	**2,600 J**
EVE Acid	<24	<24 UJ	**24 J**	**970 J**	**1,800 J**
PFECA B	<60	<60 UJ	<60 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	<70 UJ	**200 J**	**1,100 J**	**1,700 J**
PFO5DA	<34	**37 J**	**570 J**	**4,600 J**	**8,000 J**
Byproduct 4	<160	<160 UJ	**390 J**	**1,700 J**	**3,000 J**
Byproduct 5	<58 UJ	<58 UJ	**1,100 J**	**18,000 J**	**33,000 J**
Byproduct 6	<15	<15 UJ	**15 J**	**50 J**	**88 J**
NVHOS	<54	<54 UJ	**900 J**	**1,000 J**	**1,700 J**
PES	<46	<46 UJ	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	<27	<27 UJ	**300 J**	**5,300 J**	**11,000 J**
PFESA-BP2	<30	<30 UJ	**350 J**	**1,300 J**	**2,200 J**
N-ethylperfluoro-1-octanesulfonamide	<37	<37 UJ	<37 UJ	<37 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60 UJ	<60 UJ	<60 UJ	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	<35	<35 UJ	<35 UJ	<35 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110 UJ	<110 UJ	<110 UJ	<110 UJ
Total Table 3+ Compounds*	**ND**	**37**	**130,000**	**200,000**	**330,000**
EPA Method 537 Mod (ng/L)					
HFPO-DA	<4	<4	**6,200 J**	**20,000 J**	--
Perfluorobutanoic Acid	<2	<2	**90**	**240**	--
Perfluorodecanoic Acid	<2	<2	<2	<2	--
Perfluorododecanoic Acid	<2	<2	<2	<2	--
Perfluoroheptanoic Acid	<2	<2	**26**	**79**	--
Perfluorononanoic Acid	<2	<2	**7.1**	**15**	--
Perfluorooctanoic acid	<2	<2	**34**	**36**	--
Perfluorohexanoic Acid	<2	<2	**16**	**37**	--
Perfluoropentanoic Acid	<2	<2	**160**	**490**	--
Perfluorotetradecanoic Acid	<2	<2	<2	<2	--
Perfluorotridecanoic Acid	<2	<2	<2	<2	--
Perfluoroundecanoic Acid	<2	<2	<2	<2	--
Perfluorobutane Sulfonic Acid	<2	<2	<2	**2.2**	--
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2	--
Perfluorohexane Sulfonic Acid	<2	<2	<2	**4**	--
Perfluorononanesulfonic acid	<2	<2	<2	<2	--
Perfluorooctanesulfonic acid	<2	<2	**2**	**9.7**	--
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2	--
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	--
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	--
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2	--
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2	--
Perfluorooctadecanoic acid	<2	<2	<2	<2	--
Perfluorooctane Sulfonamide	<2	<2	<2	<2	--
ADONA	--	--	--	--	--
F-53B Major	--	--	--	--	--
F-53B Minor	--	--	--	--	--

Notes:

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	June 2019			
Location ID	SEEP-A-4	SEEP-A-TR1-1	SEEP-B-1	SEEP-B-2
Field Sample ID	FAY-SW-SEEP A-4-060719	FAY-SW-SEEP A-TR1-1-060719	FAY-SW-SEEP B-1-060719	FAY-SW-SEEP B-2-060719
Laboratory Sample ID	280-124971-9	280-124971-8	280-124971-16	280-124971-19
Date Sampled	6/7/2019	6/7/2019	6/7/2019	6/7/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	**19,000 J**	**5,000 J**	--	**85,000 J**
PEPA	**11,000 J**	**1,900 J**	**15,000 J**	**50,000 J**
PFECA-G	<20 UJ	<4.1 UJ	<41 UJ	**41 J**
PFMOAA	**59,000 J**	**7,900 J**	**157,000 J**	**13,000 J**
PFO2HxA	**25,000 J**	**5,800 J**	**39,000 J**	**18,000 J**
PFO3OA	**6,900 J**	**1,300 J**	**8,800 J**	**4,200 J**
PFO4DA	**2,600 J**	**470 J**	**1,500 J**	**2,500 J**
PMPA	**25,000 J**	**5,200 J**	**35,000 J**	**87,000 J**
Hydro-EVE Acid	**700 J**	**62 J**	**2,200 J**	**8,900 J**
EVE Acid	**87 J**	<2.4 UJ	**4,300 J**	**24,000 J**
PFECA B	<30 UJ	<6 UJ	<60 UJ	**60 J**
R-EVE	**950 J**	**170 J**	**3,200 J**	**11,000 J**
PFO5DA	**2,000 J**	**110 J**	**270 J**	**1,200 J**
Byproduct 4	**1,400 J**	**290 J**	**3,900 J**	**12,000 J**
Byproduct 5	**6,200 J**	**300 J**	**34,000 J**	**74,000 J**
Byproduct 6	**29 J**	**5.2 J**	**78 J**	**380 J**
NVHOS	**760 J**	**110 J**	**3,200 J**	**7,700 J**
PES	<23 UJ	<4.6 UJ	<46 UJ	**46 J**
PFESA-BP1	**380 J**	**5.5 J**	**2,900 J**	**17,000 J**
PFESA-BP2	**770 J**	**140 J**	**940 J**	**3,800 J**
N-ethylperfluoro-1-octanesulfonamide	<19 UJ	**3.7 J**	<37 UJ	**37 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<30 UJ	<6 UJ	<60 UJ	**60 J**
N-methyl perfluoro-1-octanesulfonamide	<17 UJ	<3.5 UJ	<35 UJ	**35 J**
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<55 UJ	<11 UJ	<110 UJ	**110 J**
Total Table 3+ Compounds*	**160,000**	**29,000**	**340,000**	**420,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	--	**27,000 J**	--
Perfluorobutanoic Acid	--	--	**600**	--
Perfluorodecanoic Acid	--	--	**2.6**	--
Perfluorododecanoic Acid	--	--	<2	--
Perfluoroheptanoic Acid	--	--	**170**	--
Perfluorononanoic Acid	--	--	**16**	--
Perfluorooctanoic acid	--	--	**24**	--
Perfluorohexanoic Acid	--	--	**47**	--
Perfluoropentanoic Acid	--	--	**1,500**	--
Perfluorotetradecanoic Acid	--	--	<2	--
Perfluorotridecanoic Acid	--	--	<2	--
Perfluoroundecanoic Acid	--	--	<2	--
Perfluorobutane Sulfonic Acid	--	--	<2	--
Perfluorodecane Sulfonic Acid	--	--	<2	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2	--
Perfluorohexane Sulfonic Acid	--	--	**2.2**	--
Perfluorononanesulfonic acid	--	--	<2	--
Perfluorooctanesulfonic acid	--	--	**2.2**	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2	--
10:2 Fluorotelomer sulfonate	--	--	<2	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20	--
6:2 Fluorotelomer sulfonate	--	--	<20	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20	--
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20	--
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2	--
Perfluorooctadecanoic acid	--	--	<2	--
Perfluorooctane Sulfonamide	--	--	<2	--
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	June 2019			
Location ID	SEEP-B-TR1	SEEP-B-TR2	SEEP-C-1	SEEP-D-1
Field Sample ID	FAY-SW-SEEPB-TR1-060719	FAY-SW-SEEP B-TR2-060719	FAY-SW-SEEP C-1-060719	FAY-SW-SEEP D-1-060719
Laboratory Sample ID	280-124971-17	280-124971-18	280-124971-1	280-124971-5
Date Sampled	6/7/2019	6/7/2019	6/7/2019	6/7/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	**19,000 J**	**40,000 J**	--	--
PEPA	**16,000 J**	**19,000 J**	**4,000 J**	**2,400 J**
PFECA-G	<8.2 UJ	<31 UJ	<82 UJ	<41 UJ
PFMOAA	**17,000 J**	**82,000 J**	**199,000 J**	**90,000 J**
PFO2HxA	**15,000 J**	**27,000 J**	**56,000 J**	**24,000 J**
PFO3OA	**3,500 J**	**4,900 J**	**17,000 J**	**7,400 J**
PFO4DA	**1,500 J**	**1,300 J**	**3,600 J**	**1,800 J**
PMPA	**34,000 J**	**37,000 J**	**13,000 J**	**7,200 J**
Hydro-EVE Acid	**83 J**	**3,900 J**	**2,100 J**	**1,200 J**
EVE Acid	<4.9 UJ	**2,100 J**	<49 UJ	<24 UJ
PFECA B	<12 UJ	<45 UJ	<120 UJ	<60 UJ
R-EVE	**820 J**	**5,700 J**	**1,900 J**	**1,000 J**
PFO5DA	**160 J**	**380 J**	<67 UJ	**120 J**
Byproduct 4	**1,200 J**	**6,000 J**	**1,500 J**	**840 J**
Byproduct 5	**110 J**	**37,000 J**	**3,100 J**	**2,200 J**
Byproduct 6	**8.6 J**	**130 J**	**40 J**	**17 J**
NVHOS	**210 J**	**4,300 J**	**2,100 J**	**900 J**
PES	<9.2 UJ	<34 UJ	<92 UJ	<46 UJ
PFESA-BP1	<5.3 UJ	**2,300 J**	<53 UJ	<27 UJ
PFESA-BP2	**180 J**	**1,400 J**	**660 J**	**390 J**
N-ethylperfluoro-1-octanesulfonamide	<7.5 UJ	<28 UJ	<75 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<12 UJ	<45 UJ	<120 UJ	<60 UJ
N-methyl perfluoro-1-octanesulfonamide	<6.9 UJ	<26 UJ	<69 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<22 UJ	<82 UJ	<220 UJ	<110 UJ
Total Table 3+ Compounds*	**110,000**	**270,000**	**350,000**	**160,000**
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	--	**42,000 J**	**16,000 J**
Perfluorobutanoic Acid	--	--	**400**	**210**
Perfluorodecanoic Acid	--	--	<2	<2
Perfluorododecanoic Acid	--	--	<2	<2
Perfluoroheptanoic Acid	--	--	**230**	**100**
Perfluorononanoic Acid	--	--	<2	**2.8**
Perfluorooctanoic acid	--	--	**16**	**14**
Perfluorohexanoic Acid	--	--	**99**	**44**
Perfluoropentanoic Acid	--	--	**1,700**	**790**
Perfluorotetradecanoic Acid	--	--	<2	<2
Perfluorotridecanoic Acid	--	--	<2	<2
Perfluoroundecanoic Acid	--	--	<2	<2
Perfluorobutane Sulfonic Acid	--	--	<2	<2
Perfluorodecane Sulfonic Acid	--	--	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2	<2
Perfluorohexane Sulfonic Acid	--	--	**2.3**	**2.1**
Perfluorononanesulfonic acid	--	--	<2	<2
Perfluorooctanesulfonic acid	--	--	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2	<2
10:2 Fluorotelomer sulfonate	--	--	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20	<20
6:2 Fluorotelomer sulfonate	--	--	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2	<2
Perfluorooctadecanoic acid	--	--	<2	<2
Perfluorooctane Sulfonamide	--	--	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	June 2019			
Location ID	WC-1	GBC-1	CFR-MILE-56	CFR-MILE-56
Field Sample ID	FAY-SW-WC-1-060719	FAY-SW-GBC-1-060719	FAY-SW-CFR-RM-56-060719	FAY-SW-CFR-RM-56-060719-D
Laboratory Sample ID	280-124971-3	280-124971-4	280-124971-10	280-124971-11
Date Sampled	6/7/2019	6/7/2019	6/7/2019	6/7/2019
QA/QC	--	--	--	Field Duplicate
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	**140 J**	**280**	<20	<20
PFECA-G	<2 UJ	<2	<2	<2
PFMOAA	**810 J**	**140 J**	<5 UJ	<5 UJ
PFO2HxA	**420 J**	**400**	<2	<2
PFO3OA	**67 J**	**60**	<2	<2
PFO4DA	**16 J**	**17**	<2	<2
PMPA	**540 J**	**900**	<10	<10
Hydro-EVE Acid	**5.4 J**	**2.2**	<2	<2
EVE Acid	<2 UJ	<2	<2	<2
PFECA B	<2 UJ	<2	<2	<2
R-EVE	**28 J**	**24 J**	<2	<2
PFO5DA	**4 J**	**2 J**	<2	<2
Byproduct 4	**41 J**	**49 J**	**2 J**	**2 J**
Byproduct 5	**270 J**	<2	**2 J**	**4.5 J**
Byproduct 6	<2 UJ	<2	<2	<2
NVHOS	**14 J**	**4.5**	**7.5**	**7.2**
PES	<2 UJ	<2	<2	<2
PFESA-BP1	<2 UJ	<2	<2	<2
PFESA-BP2	**17 J**	**29**	<2	<2
N-ethylperfluoro-1-octanesulfonamide	<2 UJ	<2	<2	<2
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2	<2	<2
N-methyl perfluoro-1-octanesulfonamide	<2 UJ	<2	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2 UJ	<2	<2	<2
Total Table 3+ Compounds*	**2,700**	**2,500**	**12**	**14**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**320**	**610 J**	<4	<4
Perfluorobutanoic Acid	**8.7**	**11**	**10**	**11**
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptanoic Acid	**2.5**	**2.3**	**16**	**16**
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctanoic acid	**5.5**	**3.7**	**10**	**9.9**
Perfluorohexanoic Acid	**4.2**	**3.1**	**26**	**26**
Perfluoropentanoic Acid	**9.7**	**9.9**	**25**	**25**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
Perfluorobutane Sulfonic Acid	**3.7**	<2	**4.3**	**4.2**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	**2.6**	<2	**6.7**	**7.2**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorooctanesulfonic acid	**3.6**	<2	**18**	**17**
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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ND - No Table 3+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	June 2019			
Location ID	CFR-MILE-68	CFR-MILE-76	CFR-BLADEN	CFR-KINGS
Field Sample ID	FAY-SW-CFR-RM-68-060719	FAY-SW-CFR-RM-76-060719	FAY-SW-CFR-BLADEN-060719	FAY-SW-CFR-KINGS-060719
Laboratory Sample ID	280-124971-20	280-124971-21	280-124971-22	280-124971-23
Date Sampled	6/7/2019	6/7/2019	6/7/2019	6/7/2019
QA/QC	--	--	--	--
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	<20	<20	<20	<20
PFECA-G	<2	<2	<2	<2
PFMOAA	<5	<5	**180**	**230 J**
PFO2HxA	<2	**4.4**	**64**	**66**
PFO3OA	<2	<2	**16**	**20**
PFO4DA	<2	<2	**6.4**	**8.2**
PMPA	**12**	**18**	**55**	**35**
Hydro-EVE Acid	<2	<2	<2	<2
EVE Acid	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2
R-EVE	**23 J**	**2 J**	**6.3 J**	**8.3 J**
PFO5DA	<2	<2	**3.4**	**3.2**
Byproduct 4	**20 J**	**7.9 J**	**19 J**	**19 J**
Byproduct 5	**320 J**	**23 J**	**69 J**	**82 J**
Byproduct 6	<2	<2	<2	<2
NVHOS	**8.2**	**7.4**	**8.7**	**9**
PES	<2	<2	<2	<2
PFESA-BP1	<2	<2	**2.4**	<2
PFESA-BP2	<2	<2	**4.9**	**5**
N-ethylperfluoro-1-octanesulfonamide	<2	<2	<2	<2
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	<2	<2
N-methyl perfluoro-1-octanesulfonamide	<2	<2	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2	<2	<2	<2
Total Table 3+ Compounds*	**390**	**70**	**490**	**520**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**5**	**6.9**	**57**	**37**
Perfluorobutanoic Acid	**8.5**	**8.5**	**8.5**	**7.3**
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptanoic Acid	**13**	**12**	**10**	**9.6**
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctanoic acid	**9.6**	**8.3**	**8.7**	**7.1**
Perfluorohexanoic Acid	**21**	**18**	**17**	**15**
Perfluoropentanoic Acid	**22**	**20**	**20**	**16**
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
Perfluorobutane Sulfonic Acid	**4.7**	**4.5**	**4.3**	**3.3**
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	**6.6**	**6.8**	**6.7**	**5.5**
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorooctanesulfonic acid	**17**	**15**	**15**	**14**
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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ND - No Table 3+ compounds were detected above their associated reporting limits.

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SOP - standard operating procedure

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TABLE 4
ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Field Event	June 2019			
Location ID	Outfall 002	Excess River Water	EQBLK	FBLK
Field Sample ID	WSTW-OUTFALL 002-060719	WSTW-EXCESS RIVER WATER-060719	EB1-060719	FB1-060719
Laboratory Sample ID	280-124971-13	280-124971-12	280-124971-15	280-124971-14
Date Sampled	6/7/2019	6/7/2019	6/7/2019	6/7/2019
QA/QC	--	--	Equipment Blank	Field Blank
Laboratory	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento	TestAmerica Sacramento
Table 3+ Lab SOP (ng/L)				
HFPO-DA	--	--	--	--
PEPA	<20 UJ	<20	<20	<20
PFECA-G	<4.1 UJ	<2	<2	<2
PFMOAA	**480 J**	<5	<5	<5
PFO2HxA	**110 J**	**20**	<2	<2
PFO3OA	**55 J**	**3.7**	<2	<2
PFO4DA	**46 J**	<2	<2	<2
PMPA	<57 UJ	**37**	<10	<10
Hydro-EVE Acid	**4.5 J**	<2	<2	<2
EVE Acid	**2.8 J**	<2	<2	<2
PFECA B	<6 UJ	<2	<2	<2
R-EVE	**15 J**	**2 J**	<2	<2
PFO5DA	**61 J**	<2	<2	<2
Byproduct 4	**110 J**	**13 J**	<2	<2
Byproduct 5	**560 J**	**5.6 J**	<2	<2
Byproduct 6	**4 J**	<2	<2	<2
NVHOS	**42 J**	**8.3**	<2	<2
PES	<4.6 UJ	<2	<2	<2
PFESA-BP1	**14 J**	<2	<2	<2
PFESA-BP2	**210 J**	<2	<2	<2
N-ethylperfluoro-1-octanesulfonamide	<3.7 UJ	<2	<2	<2
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<6 UJ	<2	<2	<2
N-methyl perfluoro-1-octanesulfonamide	<3.5 UJ	<2	<2	<2
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<11 UJ	<2	<2	<2
Total Table 3+ Compounds*	**1,800**	**120**	**ND**	**ND**
EPA Method 537 Mod (ng/L)				
HFPO-DA	**40**	**28**	<4	<4
Perfluorobutanoic Acid	**8.4**	**8**	<2	<2
Perfluorodecanoic Acid	<2	<2	<2	<2
Perfluorododecanoic Acid	<2	<2	<2	<2
Perfluoroheptanoic Acid	**12**	**13**	<2	<2
Perfluorononanoic Acid	<2	<2	<2	<2
Perfluorooctanoic acid	**12**	**12**	<2	<2
Perfluorohexanoic Acid	**20**	**22**	<2	<2
Perfluoropentanoic Acid	**21**	**22**	<2	<2
Perfluorotetradecanoic Acid	<2	<2	<2	<2
Perfluorotridecanoic Acid	<2	<2	<2	<2
Perfluoroundecanoic Acid	<2	<2	<2	<2
Perfluorobutane Sulfonic Acid	**4.3**	**4.1**	<2	<2
Perfluorodecane Sulfonic Acid	<2	<2	<2	<2
Perfluoroheptane sulfonic acid (PFHpS)	<2	<2	<2	<2
Perfluorohexane Sulfonic Acid	**7.4**	**7**	<2	<2
Perfluorononanesulfonic acid	<2	<2	<2	<2
Perfluorooctanesulfonic acid	**15**	**16**	<2	<2
Perfluoropentane sulfonic acid (PFPeS)	<2	<2	<2	<2
10:2 Fluorotelomer sulfonate	<2	<2	<2	<2
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	--	--	--	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	--	--	--	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	<2	<2	<2	<2
Perfluorohexadecanoic acid (PFHxDA)	<2	<2	<2	<2
Perfluorooctadecanoic acid	<2	<2	<2	<2
Perfluorooctane Sulfonamide	<2	<2	<2	<2
ADONA	--	--	--	--
F-53B Major	--	--	--	--
F-53B Minor	--	--	--	--

Notes:

* - Total Table 3+ was calculated using TestAmerica Sacramento data where it was available since this lab provides a more complete dataset compared to Eurofins Lancaster. If HFPO-DA was not analyzed under Table 3+, the corresponding HFPO-DA result from EPA Method 537 Mod was included in the sum, including data from Eurofins Lancaster. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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+ compounds were detected above their associated reporting limits.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

-- - No data reported

< - Analyte not detected above associated reporting limit.

TABLE 5
STREAM BED TEMPERATURE SURVEY RESULTS
Chemours Fayetteville Works, North Carolina

Location	Stream Surface Temp (°C)	Stream bottom Temp (°C) - Sediment surface	Stream bottom Temp (°C) - 2-3 inches below sediment	Observation
OLDOF-1A	12.9	13.5	--	Upwelling
OLDOF-1B	11.7	12.8	--	Upwelling
OLDOF-1C	15.9	15.3	--	Upwelling
OLDOF-1D	11.6	11.7	--	Upwelling
OLDOF-2A	14.0	--	--	Upwelling
OLDOF-2B	14.0	--	--	Upwelling
OLDOF-2C	13.9	9.6	--	Upwelling
OLDOF-2D	14.0	12.8	--	Upwelling
OLDOF-2E	12.0	13.6	17.4	Upwelling
OLDOF-2F	7.5	--	10.2	Seep
OLDOF-2G	13.8	13.8	14.9	Upwelling
OLDOF-2H	13.3	13.8	16.3	Upwelling
OLDOF-2I	13.4	15.4	16.9	Seep
OLDOF-2J	16.6	14.6	14.4	Seep
OLDOF-2K	15.0	14.1	13.6	Seep
OLDOF-2L	14.4	14.4	15.7	Upwelling
OLDOF-2M	10.4	13.9	14.3	Seep
OLDOF-4A	16.8	16.6	15.4	Seep
OLDOF-4B	15.5	15.3	15.5	Seep
OLDOF-4C	15.4	15.8	17.3	Upwelling
OLDOF-4D	16.9	15.3	15.8	Seep
OLDOF-4E	17.2	15.4	17.1	Seep
OLDOF-4F	15.9	15.8	15.9	Seep
OLDOF-4G	14.3	15.9	16.4	Seep
OLDOF-4H	15.9	15.7	17.0	Seep
OLDOF-4I	16.7	16.0	17.2	Seep
OLDOF-4J	14.6	16.1	16.9	Seep
OLDOF-4K	17.5	16.1	17.3	Seep
OLDOF-4L	14.9	16.1	17.2	Seep
OLDOF-4M	16.8	16.2	18.1	Seep
OLDOF-4N	16.1	17.6	17.4	Seep
OLDOF-4P	13.6	17.5	18.2	Seep
OLDOF-5A	15.1	17.2	17.3	Seep
OLDOF-5B	16.5	16.9	17.9	Seep
OLDOF-5C	15.9	16.9	18.1	Seep
OLDOF-5D	16.1	17.6	18.4	Seep
OLDOF-5E	16.8	17.3	17.9	Seep
OLDOF-5F	17.9	17.4	18.7	Seep
OLDOF-5G	17.4	17.6	18.1	Seep
OLDOF-5H	17.9	17.8	19.2	Seep
OLDOF-5I	18.9	17.4	19.1	Seep
OLDOF-5J	14.4	16.9	17.3	Seep
OLDOF-5K	14.4	14.4	13.0	Seep

Notes
°C - degrees Celsius
Temp - temperature
-- - Temperature not recorded

August 2019

TABLE 6A
TOTAL TABLE 3+ CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Location	Total Table 3+ Concentrations (ng/L)					
	February		May		June	
WC-1	2,200		4,800		2,700	
SEEP-A1	230,000		300,000		200,000	
SEEP-B1	350,000		310,000		340,000	
SEEP-B2	310,000		290,000		420,000	
SEEP-C1	340,000		350,000		350,000	
SEEP-D1	--		170,000		160,000	
OLDOF-2	140,000		110,000		130,000	
GBC-1	--		2,600		2,500	

Notes:

Total Table 3+ concentrations includes the sum of all Table 3+ constituents. The total includes J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

HFPO-DA is included in the total Table 3+ result, including HFPO-DA results evaluated by EPA Method 537 Mod.

Green bars demonstrate the magnitude of the total Table 3+ concentration relative to other locations during the same field event.

-- No sample collectec

ng/L: nanograms per liter

TABLE 6B
HFPO-DA CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Location	HFPO-DA Concentrations (ng/L)		
	February	May	June
WC-1	290 J	810 J	320
SEEP-A1	10,000 J	24,000 J	20,000 J
SEEP-B1	24,000 J	22,000 J	27,000 J
SEEP-B2	38,000 J	75,000	85,000 J
SEEP-C1	27,000 J	36,000 J	42,000 J
SEEP-D1	--	19,000 J	16,000 J
OLDOF-2	5,900	6,700 J	6,200 J
GBC-2	--	500 J	610 J

Notes:
HFPO-DA concentrations measured with EPA Method 537 Mod and Table 3+ analytical methods.
Green bars demonstrate the magnitude of the HFPO-DA concentration relative to other locations during the same field event.

-- No sample collected
HFPO-DA: hexafluoropropylene oxide dimer acid
ng/L: nanograms per liter
J - Reported value may not be accurate or precise

TABLE 7
FLOW MEASUREMENT SUMMARY
Chemours Fayetteville Works, North Carolina

LOCATION	DATE	SALT DILUTION TESTS								WEIR GAUGING TESTS	FLOW VELOCITY METER MEASUREMENTS									GRADUATED CYLINDER
		TEST #	CALCULATED FLOW RATE (GPM)	CALCULATED FLOW RATE (GPM) - Summary Statistics					Comments - Salt Dilution Gauging	CALCULATED FLOW RATE (GPM)	CALCULATED FLOW RATE (GPM)			CALCULATED FLOW RATE (GPM) - Summary Statistics					FLOW RATE (GPM)
				Minimum	Median	Maximum	Mean	Geo Mean			A-A'	B-B'	C-C'	Minimum	Median	Maximum	Mean	Geo Mean	
OLDOF-1	2/1/2019	TEST-1	967	NA	NA	NA	NA	NA	Salt dilution gauging was attempted at OLDOF-1 location during the February 2019 field event. However, this location is not ideal for tracer testing due to stream morphology. A temporary weir could not be installed at this location because of channel width and shallow water depth (less than few inches) precluded accurate point velocity measurements.	-	-	-	-	-	-	-	-	-	-
		TEST-2	1,518																	
		TEST-3	1,220																	
		TEST-4	365																	
		TEST-5	485																	
OLDOF-2	2/1/2019	TEST-1	582	370	422	468	420	402	Test-1 and -3 show broad peak EC response curve with disturbance; non-conclusive; suspect slow release from pool.	-	876	-	-	876	876	876	876	876	-
		TEST-2	380																	
		TEST-3	468																	
		TEST-4	370																	
		TEST-5	463																	
OLDOF-2	5/24/2019	TEST-1	395	315	344	395	348	347	-	671 - 702	671	-	-	671	671	671	671	671	-
		TEST-2	326																	
		TEST-3	315																	
		TEST-4	362																	
		TEST-5	344																	
OLDOF-2	6/7/2019	TEST-1	534	275	481	804	489	448	EC response curve disturbed on rising peak for test-3 and test-5; test not conclusive; test value from -3 and -5 not included in summary statistics.	-	504	-	-	504	504	504	504	504	-
		TEST-2	481																	
		TEST-3	804																	
		TEST-4	350																	
		TEST-5	275																	
OLDOF-3	2/2/2019	TEST-1	338	338	342	371	350	350	EC response curve not "ideal"; some disturbance noted on all three tests following peak response.	-	-	-	-	-	-	-	-	-	-
		TEST-2	342																	
		TEST-3	371																	
OLDOF-TR-1	2/2/2019	TEST-1	76.7	76.7	78.6	80.6	78.6	78.6	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	80.6																	
OLDOF-5	2/2/2019	TEST-1	141	141	142	143	142	142	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	143																	
SEEP-A1	2/7/2019	TEST-1	67.1	67.1	68.1	69.0	68.1	68.1	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	69.0																	
SEEP-A1	5/22/2019	TEST-1	62.9	58.8	59.0	62.9	60.2	60.2	-	30	-	-	-	-	-	-	-	-	-
		TEST-2	59.0																	
		TEST-3	58.8																	
SEEP-A1	6/7/2019	TEST-1	109	104	109	117	110	110	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	117																	
		TEST-3	104																	
SEEP-A3	2/7/2019	TEST-1	50.7	NA	NA	NA	NA	NA	Concluded salt dilution gauging not appropriate at Seep-A3 and Seep-A4 due to insufficient stream reach.	-	-	-	-	-	-	-	-	-	-
		TEST-2	84.7																	

Notes:

1. Locations and flow rate measurements/calculations are grouped by date:

February 2019 Event
May 2019 Event
June 2019 Event

2. Gray shading indicates values calculated from salt dilution test that were determined to be inappropriate due to stream conditions or other factors. These values were excluded from summary statistics or listed as NA (not appropriate). See comments section above.
3. OLDOF-1 location is close to the river mouth but this location is wide, occasionally influenced by river water (e.g., in Feb 2019) and not ideal for tracer testing due to poor lateral mixing.
4. Values indicated at Seep B-3A and Seep C-1 locations were determined from a single constant rate salt injection test.
5. Flow gauging with weirs performed at select locations based on salt dilution results from the February 2019 field event.

EC - electrical conductivity
- - no measurements were taken.

TABLE 7
FLOW MEASUREMENT SUMMARY
Chemours Fayetteville Works, North Carolina

LOCATION	DATE	SALT DILUTION TESTS								WEIR GAUGING TESTS	FLOW VELOCITY METER MEASUREMENTS								GRADUATED CYLINDER
		TEST #	CALCULATED FLOW RATE (GPM)	CALCULATED FLOW RATE (GPM) - Summary Statistics					Comments - Salt Dilution Gauging	CALCULATED FLOW RATE (GPM)	CALCULATED FLOW RATE (GPM)			CALCULATED FLOW RATE (GPM) - Summary Statistics					FLOW RATE (GPM)
				Minimum	Median	Maximum	Mean	Geo Mean			A-A'	B-B'	C-C'	Minimum	Median	Maximum	Mean	Geo Mean	
SEEP-A3	5/22/2019	TEST-1	44.8	44.6	44.9	46.0	45.1	45.1	-	15 - 25	-	-	-	-	-	-	-	-	-
		TEST-2	46.0																
		TEST-3	44.9																
		TEST-4	44.6																
SEEP-A3	6/7/2019	TEST-1	48.1	48.1	48.3	50.6	49.0	49.0	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	48.3																
		TEST-3	50.6																
SEEP-A4	2/7/2019	TEST-1	162	NA	NA	NA	NA	NA	Concluded salt dilution gauging not appropriate at Seep-A3 and Seep-A4 due to insufficient stream reach.	-	-	-	-	-	-	-	-	-	-
		TEST-2	171																
SEEP-A4	5/21/2019	-	-	-	-	-	-	-	-	0.1 - 3.1	-	-	-	-	-	-	-	-	-
SEEP-A4	6/7/2019	TEST-1	11.0	4.9	7.0	11.0	7.6	7.2	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	4.9																
		TEST-3	7.0																
SEEP-A5	5/21/2019	-	-	-	-	-	-	-	-	< 1.0	-	-	-	-	-	-	-	-	-
SEEP A-TR1-1	5/21/2019	-	-	-	-	-	-	-	-	9.5 - 12	-	-	-	-	-	-	-	-	-
SEEP-B1	2/5/2019	TEST-1	88.2	84.5	88.2	89.9	87.5	87.5	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	84.5																
		TEST-3	89.9																
SEEP-B1	6/7/2019	TEST-1	53.4	47.1	50.3	53.4	50.3	50.2	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	47.1																
SEEP-B2	2/5/2019	TEST-1	21.9	21.9	22.3	24.2	22.8	22.8	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	22.3																
		TEST-3	24.2																
SEEP-B2	5/22/2019	TEST-1	12.3	10.5	11.1	12.3	11.3	11.3	EC response curve for test-3 demonstrated EC variations post-peak concentrations; not conclusive test.	0.0 - 2.6	-	-	-	-	-	-	-	-	-
		TEST-2	11.1																
		TEST-3	9.1																
		TEST-4	10.5																
SEEP-B2	6/7/2019	TEST-1	12.5	12.5	12.6	12.7	12.6	12.6	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	12.7																
SEEP-B3	2/6/2019	TEST-1	17.7	17.7	18.2	18.6	18.2	18.1	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	18.6																
SEEP-B-TR-2	6/7/2019	TEST-1	3.7	3.7	3.7	3.7	3.7	3.7	-	0.3 - 4.0	-	-	-	-	-	-	-	-	-
SEEP-B3A	2/6/2019	CONST. INJECTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Locations and flow rate measurements/calculations are grouped by date:

February 2019 Event
May 2019 Event
June 2019 Event

2. Gray shading indicates values calculated from salt dilution test that were determined to be inappropriate due to stream conditions or other factors. These values were excluded from summary statistics or listed as NA (not appropriate). See comments section above.
3. OLDOF-1 location is close to the river mouth but this location is wide, occasionally influenced by river water (e.g., in Feb 2019) and not ideal for tracer testing due to poor lateral mixing.
4. Values indicated at Seep B-3A and Seep C-1 locations were determined from a single constant rate salt injection test.
5. Flow gauging with weirs performed at select locations based on salt dilution results from the February 2019 field event.

EC - electrical conductivity

- - no measurements were taken.

TABLE 7
FLOW MEASUREMENT SUMMARY
Chemours Fayetteville Works, North Carolina

LOCATION	DATE	SALT DILUTION TESTS								WEIR GAUGING TESTS	FLOW VELOCITY METER MEASUREMENTS								GRADUATED CYLINDER
		TEST #	CALCULATED FLOW RATE (GPM)	CALCULATED FLOW RATE (GPM) - Summary Statistics					Comments - Salt Dilution Gauging	CALCULATED FLOW RATE (GPM)	CALCULATED FLOW RATE (GPM)			CALCULATED FLOW RATE (GPM) - Summary Statistics					FLOW RATE (GPM)
				Minimum	Median	Maximum	Mean	Geo Mean			A-A'	B-B'	C-C'	Minimum	Median	Maximum	Mean	Geo Mean	
SEEP-C1	2/6/2019	CONST. INJECTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEEP-C1	5/23/2019	-	-	-	-	-	-	-	-	6.5 - 20	-	-	-	-	-	-	-	-	-
SEEP-C1	6/7/2019	TEST-1	13.8	11.9	13.3	13.8	13.1	13.1	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	13.3																
		TEST-3	13.4																
		TEST-4	11.9																
SEEP -D1	5/23/2019	-	-	-	-	-	-	-	-	14 - 32	-	-	-	-	-	-	-	-	-
SEEP-D1	6/7/2019	TEST-1	48.5	45.2	49.1	51.3	48.7	48.6	-	-	-	-	-	-	-	-	-	-	-
		TEST-2	51.3																
		TEST-3	45.2																
		TEST-4	49.7																
GBC-1	5/29/2019	TEST-1	472	NA	NA	NA	NA	NA	Salt dilution gauging was attempted at GBC-1 location during the May 2019 field event. However, this location is not ideal for tracer testing due to stream morphology as shown by EC response curves. A temporary weir could not be installed at this location because of channel width.	-	2423	2662	2242	2242	2423	2662	2442	2436	-
		TEST-2	860																
		TEST-3	735																
		TEST-4	769																
		TEST-5	514																
		TEST-6	385																
GBC-1	6/7/2019	-	-	-	-	-	-	-	-	-	2301	2775	2612	2301	2612	2775	2563	2555	-
WC-1	2/7/2019	TEST-1	4,338	2,888	2,915	2,942	2,915	2,915	Salt dilution gauging was attempted at WC-1 location - EC response curves for Test-1 and -4 not appropriate.	-	-	-	-	-	-	-	-	-	-
		TEST-2	2,942																
		TEST-3	2,888																
		TEST-4	2,072																
WC-1	5/30/2019	-	-	-	-	-	-	-	-	-	2920	2902	-	2902	2911	2920	2911	2911	-
WC-1	6/7/2019	-	-	-	-	-	-	-	-	-	6471	-	-	6471	6471	6471	6471	6471	-
WC-5	2/7/2019	TEST-1	3,001	2,168	2,168	2,168	2,168	2,168	Test -1 and -2 not appropriate based on EC response curve; suspect transducer or salt in deep pool.	-	-	-	-	-	-	-	-	-	-
		TEST-2	2,438																
		TEST-3	2,168																
WC-OUTFALL	6/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	540
WC-1-TR2	6/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4
WC-3-TR2	6/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8
WC-3-TR3	6/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2
WC-3-TR5	6/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2
WC-4-TR1	6/18/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34.2

Notes:

1. Locations and flow rate measurements/calculations are grouped by date:

February 2019 Event
May 2019 Event
June 2019 Event

2. Gray shading indicates values calculated from salt dilution test that were determined to be inappropriate due to stream conditions or other factors. These values were excluded from summary statistics or listed as NA (not appropriate). See comments section above.
3. OLDOF-1 location is close to the river mouth but this location is wide, occasionally influenced by river water (e.g., in Feb 2019) and not ideal for tracer testing due to poor lateral mixing.
4. Values indicated at Seep B-3A and Seep C-1 locations were determined from a single constant rate salt injection test.
5. Flow gauging with weirs performed at select locations based on salt dilution results from the February 2019 field event.

EC - electrical conductivity

- - no measurements were taken.

TABLE 8A
ESTIMATED FLOW RATES - SEEPS A TO D,
GEORGIA BRANCH CREEK, AND WILLIS CREEK
Chemours Fayetteville Works, North Carolina

Location	Estimated Flow Rate (gpm)					
	February		May		June	
Willis Creek	2,915		2,911		6,471	
SEEP-A1	68		60		110	
SEEP-A3	--		45		49	
SEEP-A4	--		1.6		7.2	
SEEP-B1	87		--		50	
SEEP-B2	23		11		13	
SEEP-C1	--		13		13	
SEEP-D1	--		23		49	
Georgia Branch Creek	--		2,436		2,555	

Notes:
Estimated flow rates calculated from salt dilution tests (if appropriate), weir gauging, or flow velocity measurements (see Table 7). All values shown for the onsite seeps A through D were determined from the geometric mean flow rate from salt dilution tests with the exception of Seeps A4, C1, and D1 gauged during the May 2019 event. Flow rates for Seeps A4, C1, and D1 gauged during the May 2019 event are the median flow rate calculated from weir gauging measurements. Georgia Branch Creek flow rates were determined from the geometric mean of flow velocity measurements. Willis Creek flow rates were determined from the geometric mean of salt dilution tests (February and June 2019) and the geometric mean of flow velocity measurements (May 2019).
Blue bars demonstrate the magnitude of the flow relative to other locations during the same field event.
-- No measurement conducted or results were deteremined to be inappropriate due to stream conditions or other factors.
gpm: gallons per minute

TABLE 8B
ESTIMATED FLOW RATES - OLD OUTFALL 002
Chemours Fayetteville Works, North Carolina

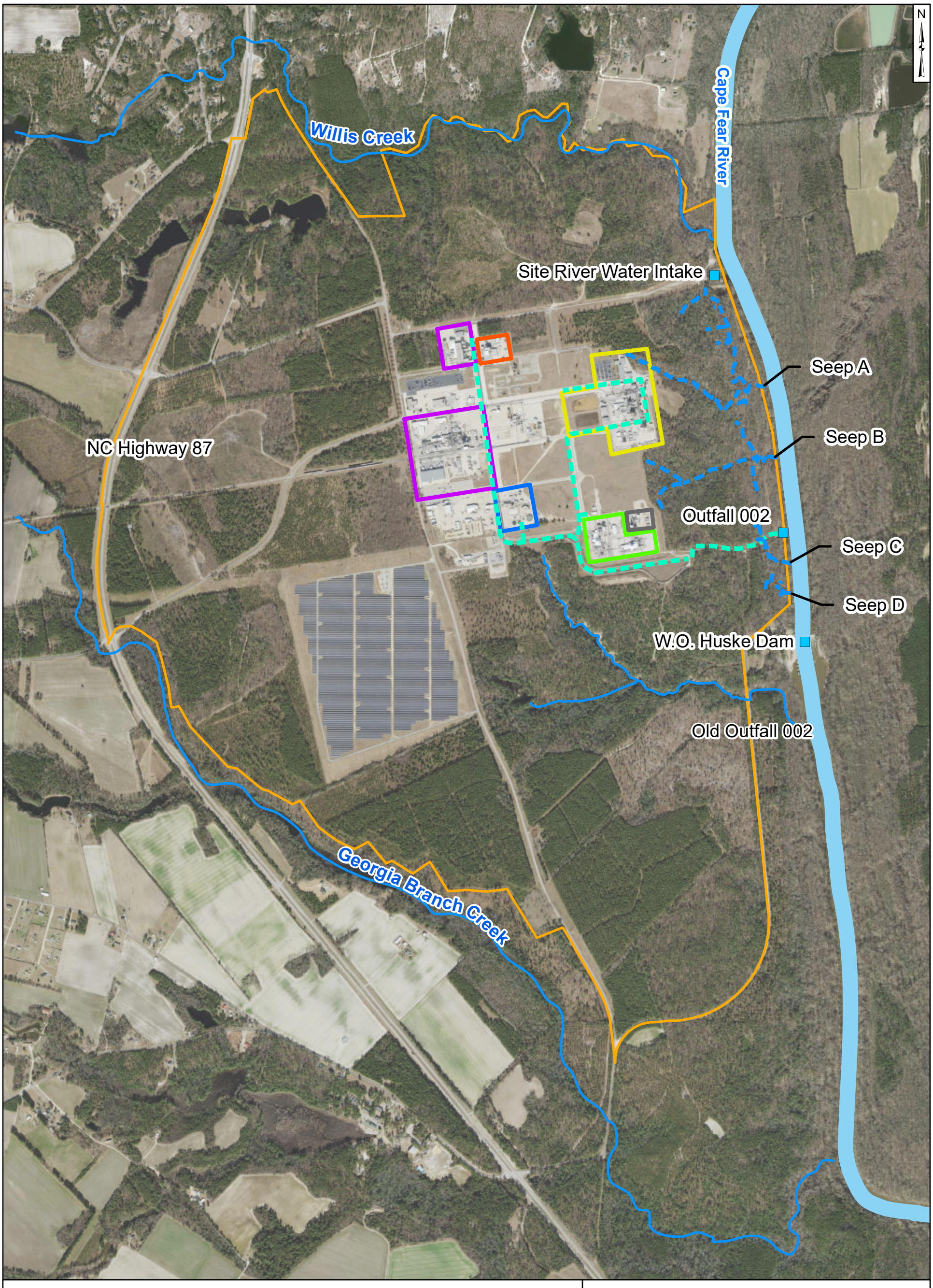
Methods	Estimated Flow Rate (gpm)					
	February		May		June	
Salt Dilution Test	402		347		448	
Weir Gauging Measurements	--		686		--	
Flow Velocity Meter Measurements	876		671		504	

Notes:
Old Outfall 002 flow rates measured at Location OLDOF-2
Estimated flow rates calculated from salt dilution tests (if appropriate), weir gauging, or flow velocity measurements (see Table 7). Flow rates for Old Outfall 002 were estimated using all three methods for comparison.

Blue bars demonstrate the magnitude of the flow determined by one method relative to other methods employed during the same field event.

-- No measurement conducted.
gpm: gallons per minute

FIGURES



Legend

- Site Features
- Cape Fear River
- Nearby Tributaries
- Observed Seep (Natural Drainage)
- Site Drainage Network
- Site Boundary

Areas at Site

- Chemours Monomers IXM
- Chemours PPA
- Dupont / Dow Leased
- Former DuPont PMDF Area
- Kuraray America Leased
- Wastewater Treatment Plant

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

2,000 1,000 0 2,000 Feet

Site Location and Site Features

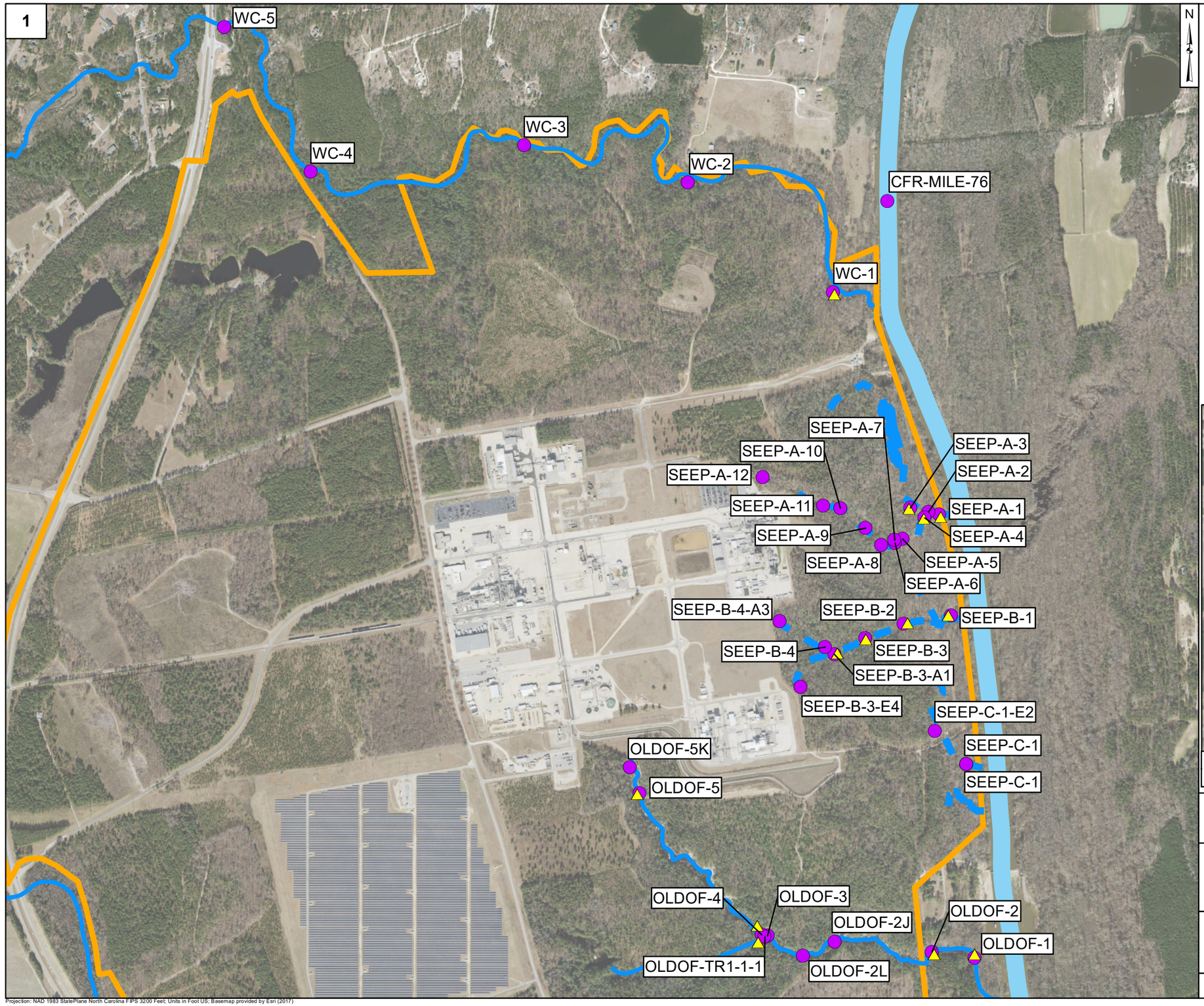
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

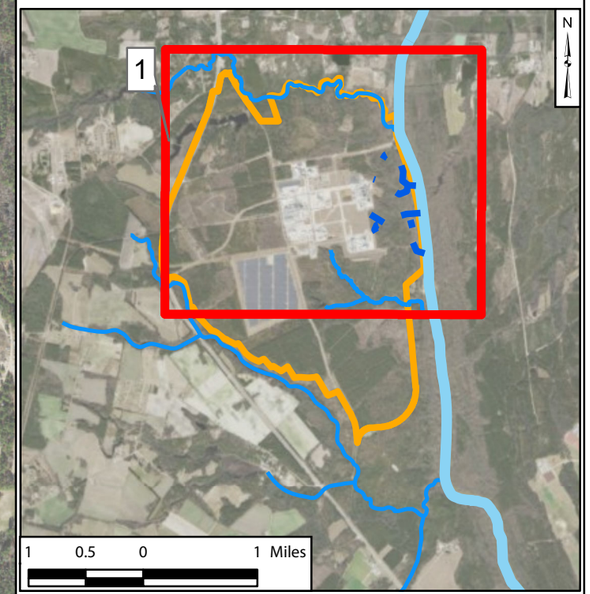
Raleigh, NC | August 2019

Figure 1



Legend

- Flow Measurement Location
- Sample Location
- Observed Seep
- Cape Fear River
- Nearby Tributary
- Site Boundary
- Seep Areas



1,000 500 0 1,000 Feet

Sample and Flow Measurement Locations - February 2019 Event

Chemours Fayetteville Works, North Carolina

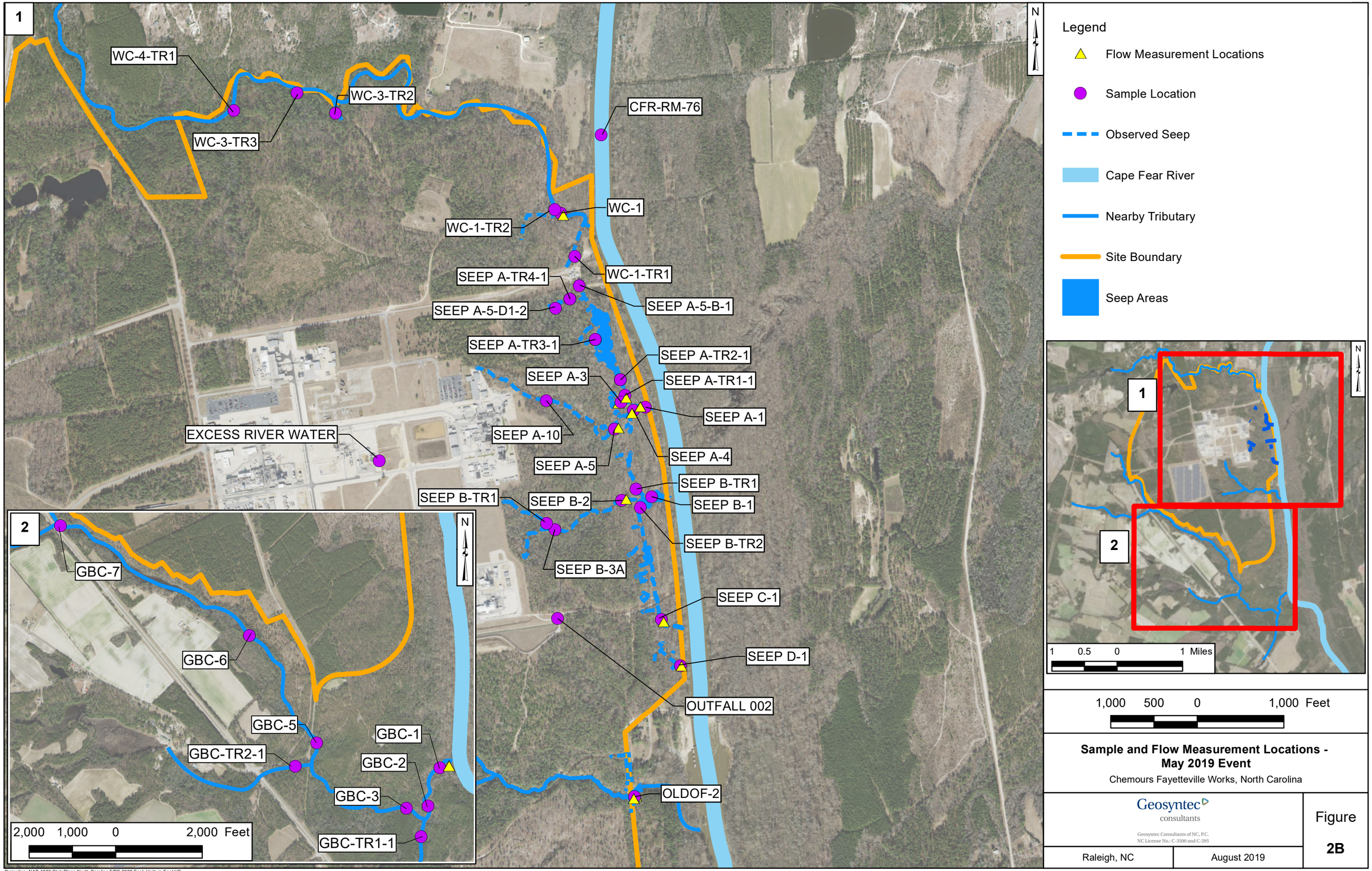
Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **2A**

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US; Basemap provided by Esri (2017)



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

Sample and Flow Measurement Locations - May 2019 Event

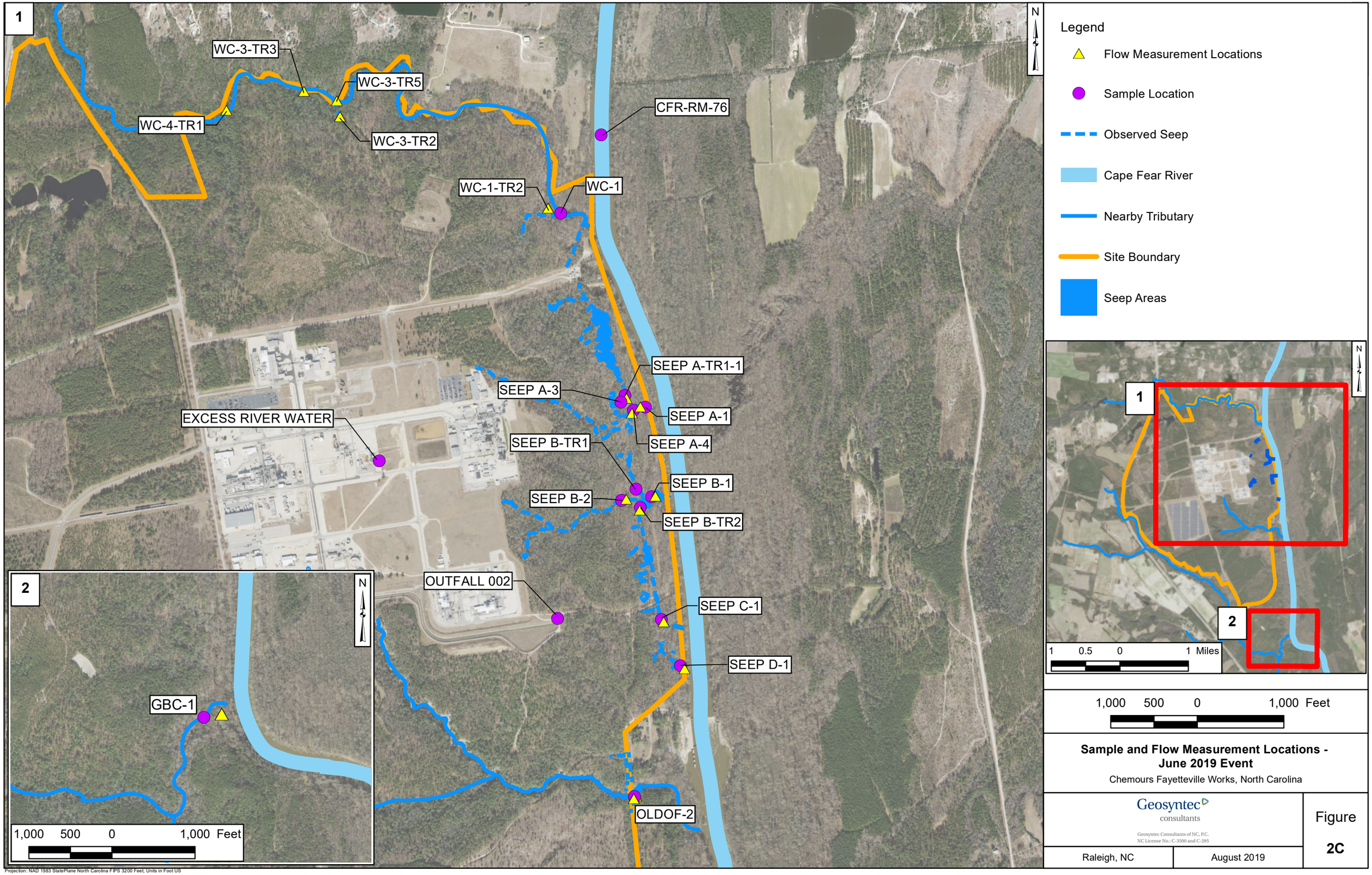
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **2B**



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

Sample and Flow Measurement Locations - June 2019 Event

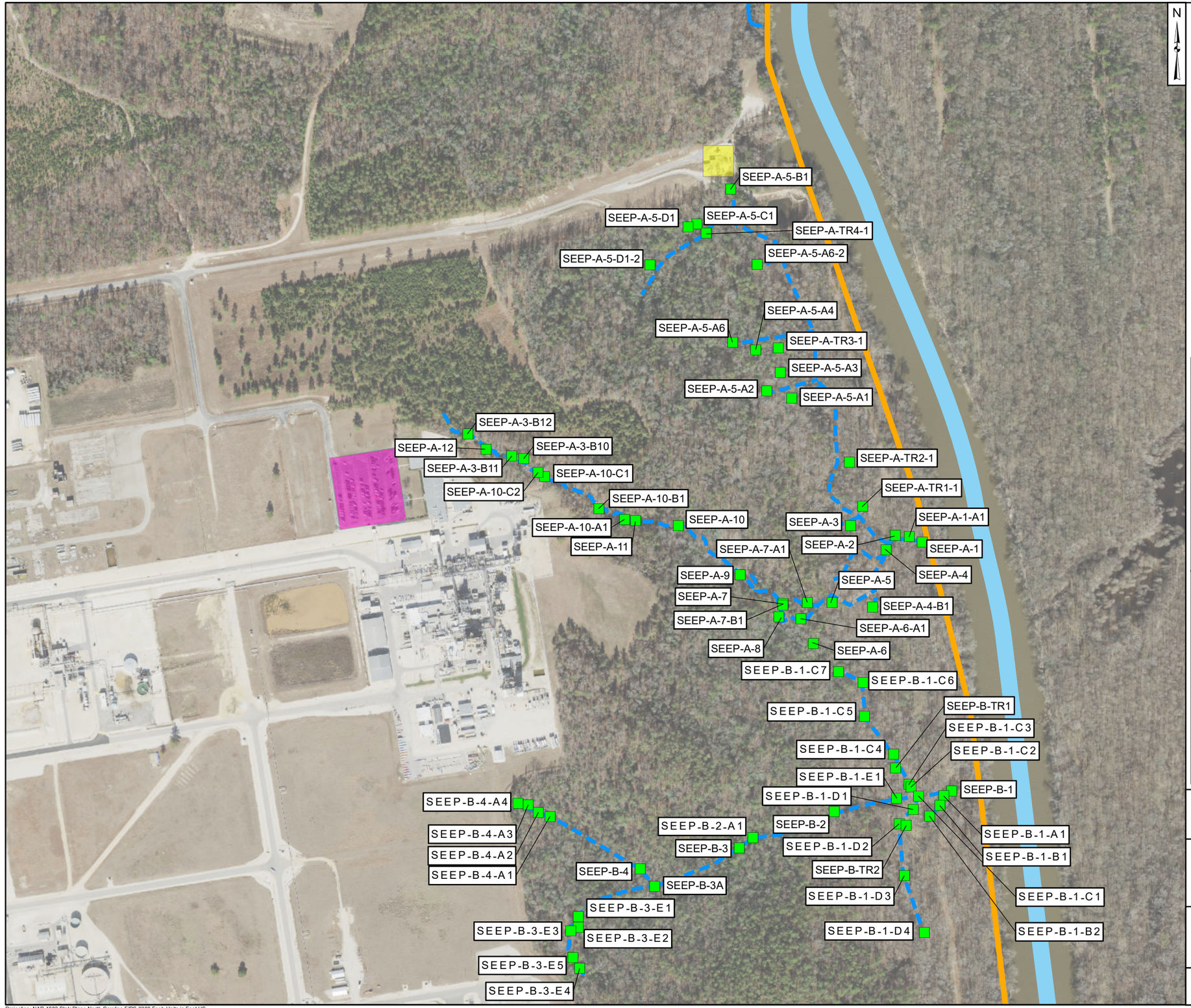
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **2C**



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

Identified Seeps (Seeps A and B)

Chemours Fayetteville Works, North Carolina

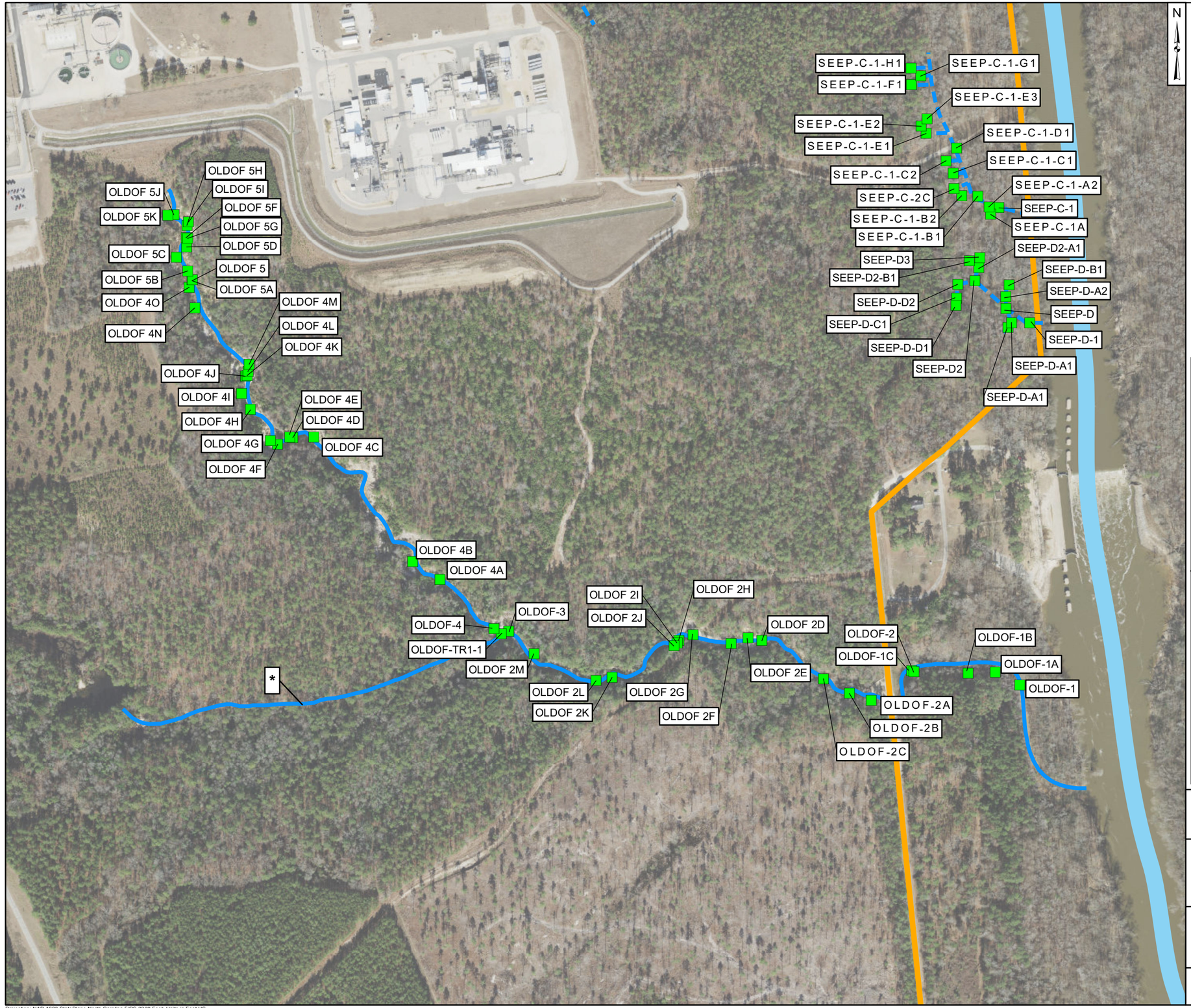
Geosyntec consultants

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

Raleigh, NC

August 2019

Figure **3A**



Identified Seeps – Old Outfall 002 and Seeps C and D

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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Figure **3B**

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

1

WC-5
370

WC-4
340

WC-3
560

WC-2
680

CFR-MILE-76
18

WC-1
2,200

SEEP-A-9
510,000

SEEP-A-10
530,000

SEEP-A-12
120,000

SEEP-A-7
220,000

SEEP-A-3
220,000

SEEP-A-2
240,000

SEEP-A-11
540,000

SEEP-A-1
230,000

SEEP-A-8
140,000

SEEP-A-6
140,000

SEEP-A-5
180,000

SEEP-A-4
160,000

SEEP-B-4-A3
430,000

SEEP-B-1
350,000

SEEP-B-4
670,000

SEEP-B-2
310,000

SEEP-B-3-A1
460,000

SEEP-B-3
380,000

SEEP-B-3-E4
45,000

SEEP-C-1-E2
260,000

OLDOF-5K
39,000

SEEP-C-1
340,000

OLDOF-5
290,000

OLDOF-3
160,000

OLDOF-4
200,000

OLDOF-2J*
8,700

OLDOF-1
130,000

OLDOF-TR1-1-1
9,600

OLDOF-2L
150,000

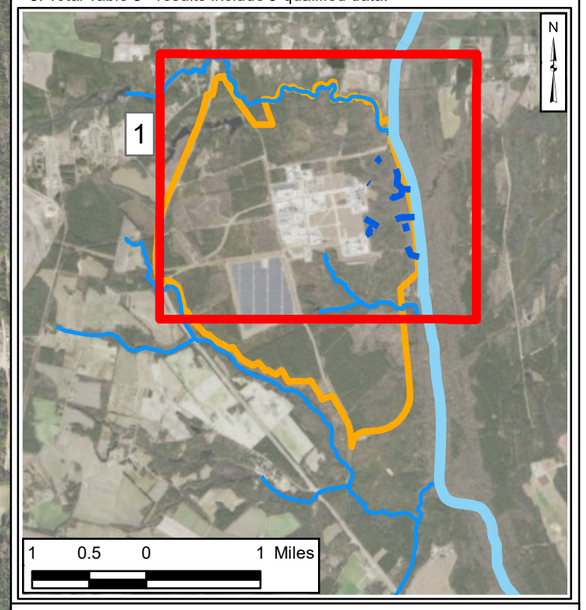
OLDOF-2
140,000

N

Legend

- Sample Location
- Observed Seep
- Cape Fear River
- Nearby Tributary
- Site Boundary
- Seep Areas

Notes:
* Sample was collected from seep water, not Old Outfall water.
HFPO-DA = hexafluoropropylene oxide dimer acid
1. All results are in ng/L (nanograms per liter).
2. If samples were analyzed by both TestAmerica Sacramento and Eurofins Lancaster, results from TestAmerica Sacramento are plotted here since this lab provided more complete Table 3+ results. All reported results are provided in Table 4.
3. HFPO-DA is included in the total Table 3+ result, including HFPO-DA results evaluated by EPA Method 537 Mod.
4. Non-detect values were not included in sum of total Table 3+ results.
5. Total Table 3+ results include J-qualified data.



1,000 500 0 1,000 Feet

Total Table 3+ Concentrations - February 2019 Event

Chemours Fayetteville Works, North Carolina

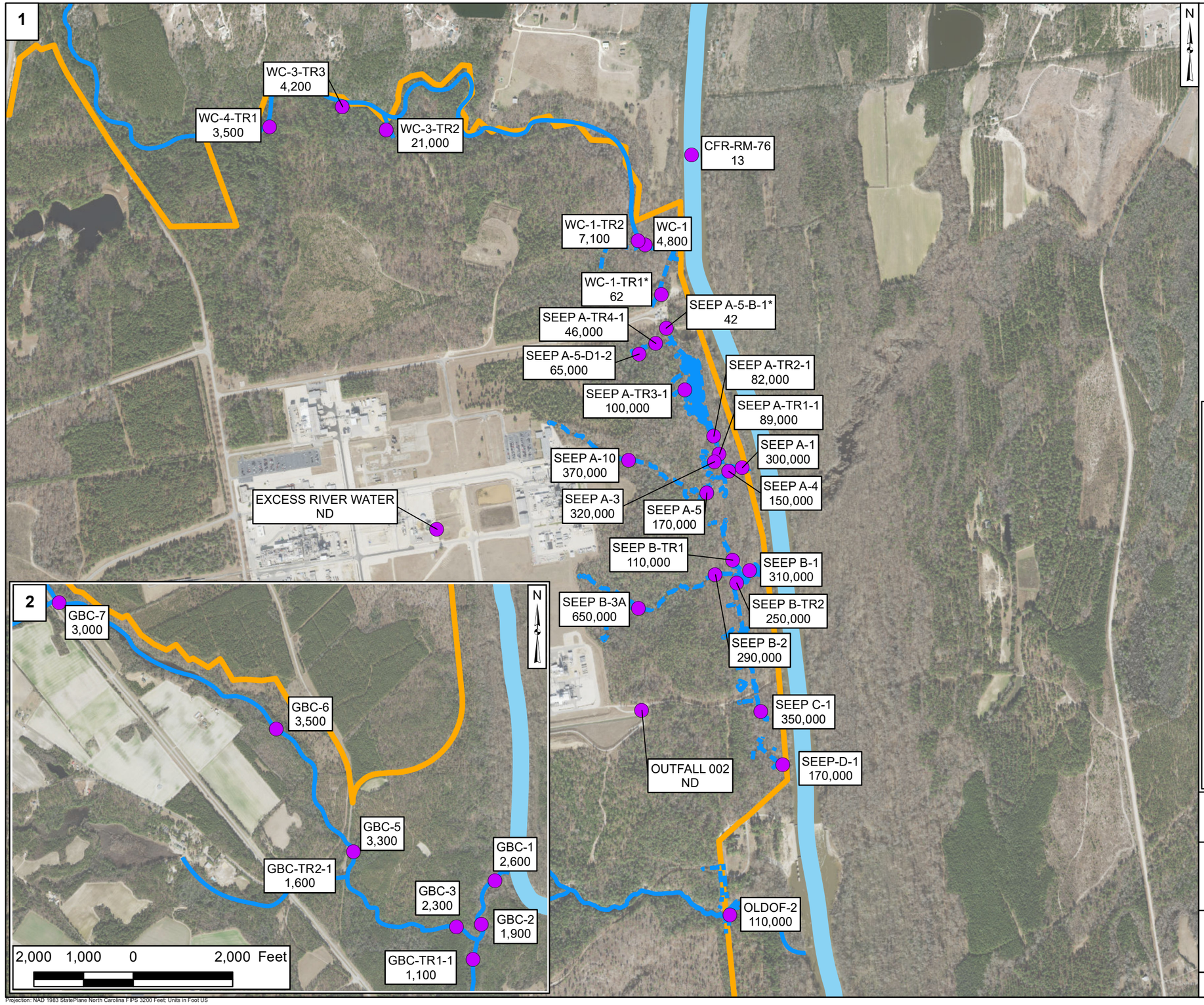
Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **4A**

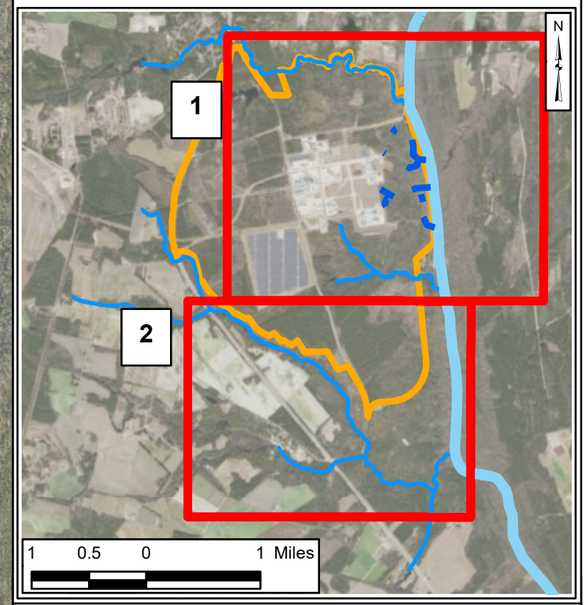
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US; Basemap provided by Esri (2017)



Legend

- Sample Locations
- Observed Seep
- Cape Fear River
- Nearby Tributary
- Site Boundary
- Seep Areas

Notes:
* - Sample collected in channel from river water pump station. Sample is not a groundwater seep.
ND = non detect
HFPO-DA = hexafluoropropylene oxide dimer acid
1. All results are in ng/L (nanograms per liter).
2. HFPO-DA is included in the total Table 3+ result, including HFPO-DA results evaluated by EPA Method 537 Mod.
3. Non-detect values were not included in sum of total Table 3+ results.
4. Total Table 3+ results include J-qualified data.



1,000 500 0 1,000 Feet

Total Table 3+ Concentrations – May 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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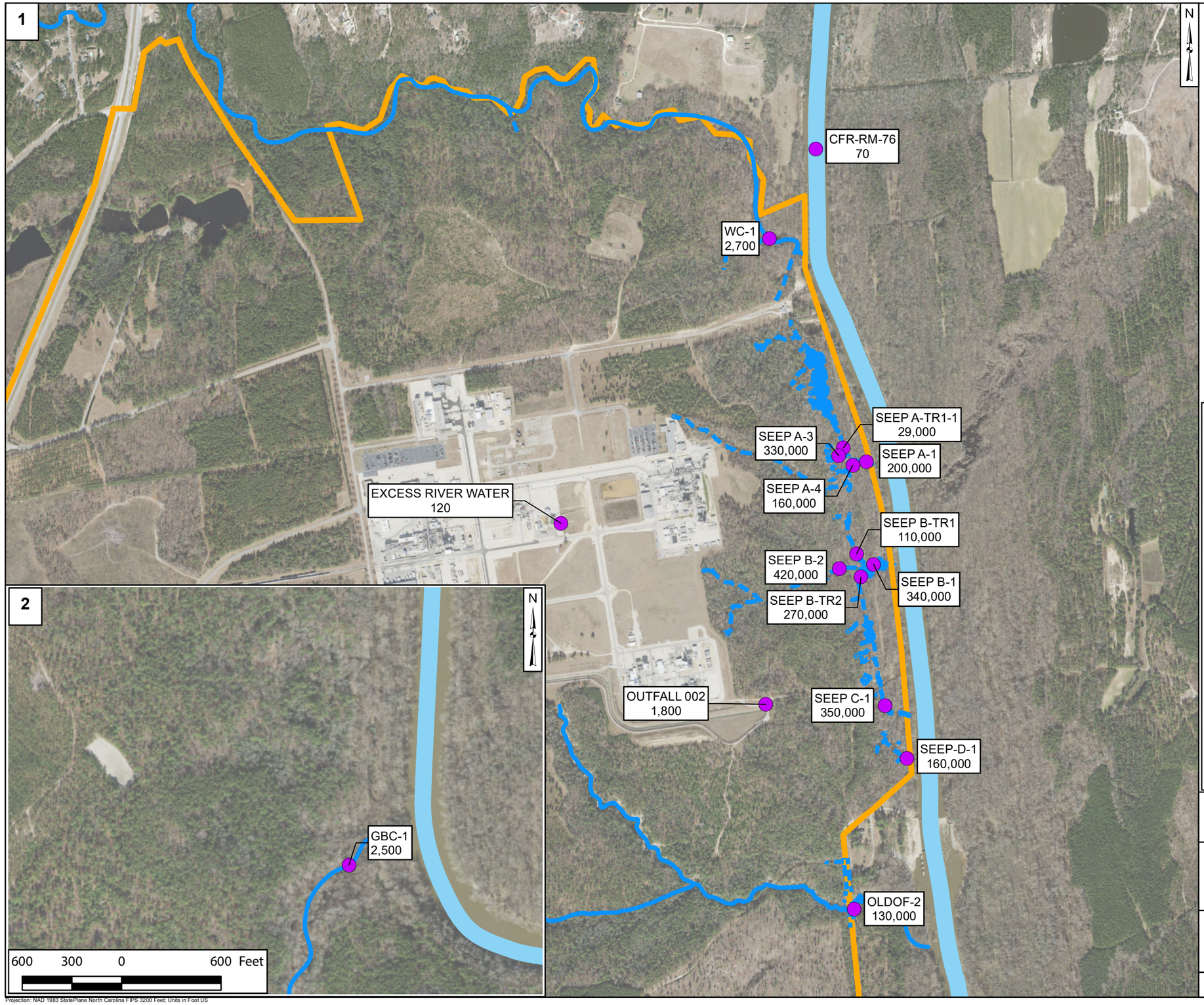
Figure 4B

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

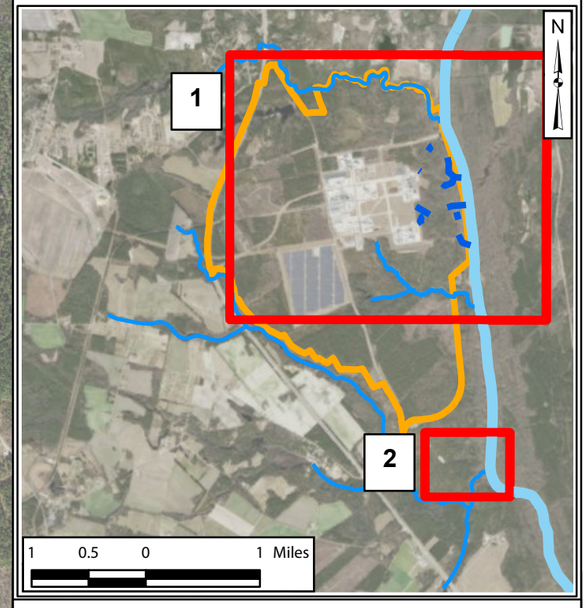


Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

Legend

- Sample Location
- Observed Seep
- Cape Fear River
- Nearby Tributary
- Site Boundary
- Seep Areas

Notes:
HFPO-DA = hexafluoropropylene oxide dimer acid
1. All results are in ng/L (nanograms per liter).
2. HFPO-DA is included in the total Table 3+ result, including HFPO-DA results evaluated by EPA Method 537 Mod.
3. Non-detect values were not included in sum of total Table 3+ results.
4. Total Table 3+ results include J-qualified data.



1,000 500 0 1,000 Feet

Total Table 3+ Concentrations - June 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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Figure **4C**

1

WC-5
33 J

WC-4
51 J

WC-3
120 J

WC-2
130 J

CFR-MILE-76
2.9 J

WC-1
290 J

SEEP-A-12
20,000 J

SEEP-A-9
57,000 J

SEEP-A-10
61,000 J

SEEP-A-7
28,000 J

SEEP-A-3
13,000 J

SEEP-A-2
27,000 J

SEEP-A-11
55,000 J

SEEP-A-1
10,000 J

SEEP-A-8
13,000 J

SEEP-A-6
18,000 J

SEEP-A-5
18,000 J

SEEP-A-4
17,000 J

SEEP-B-4-A3
32,000 J

SEEP-B-1
24,000 J

SEEP-B-4
82,000 J

SEEP-B-2
38,000 J

SEEP-B-3-E4
10,000 J

SEEP-B-3
40,000 J

SEEP-B-3-A1
58,000 J

SEEP-C-1-E2
17,000 J

OLDOF-5K
6,400

SEEP-C-1
27,000 J

OLDOF-5
7,600

OLDOF-TR1-1-1
1,800

OLDOF-3
5,600

OLDOF-2J*
1,200

OLDOF-1
4,800 J

OLDOF-4
6,900

OLDOF-2L
6,400

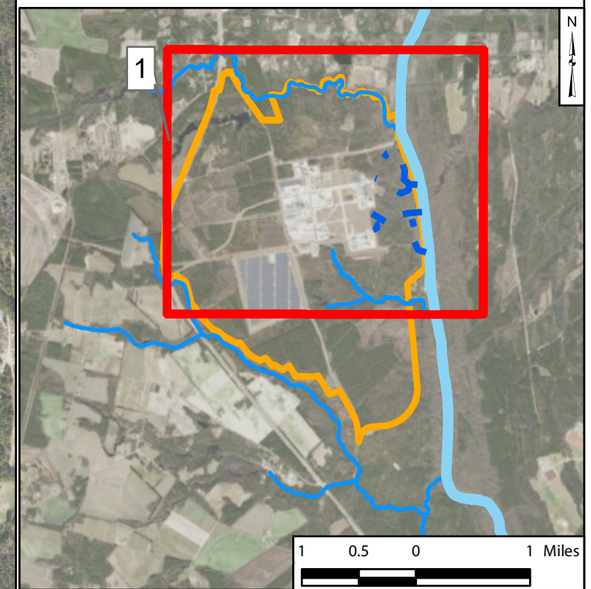
OLDOF-2
5,900

N

Legend

- Sample Location
- Observed Seep
- Cape Fear River
- Nearby Tributary
- Site Boundary
- Seep Areas

Notes:
* Sample was collected from seep water, not Old Outfall water.
All results are in ng/L (nanograms per liter).
J = Estimated value.
HFPO-DA = hexafluoropropylene oxide dimer acid.



1,000 500 0 1,000 Feet

HFPO-DA Concentrations - February 2019 Event

Chemours Fayetteville Works, North Carolina

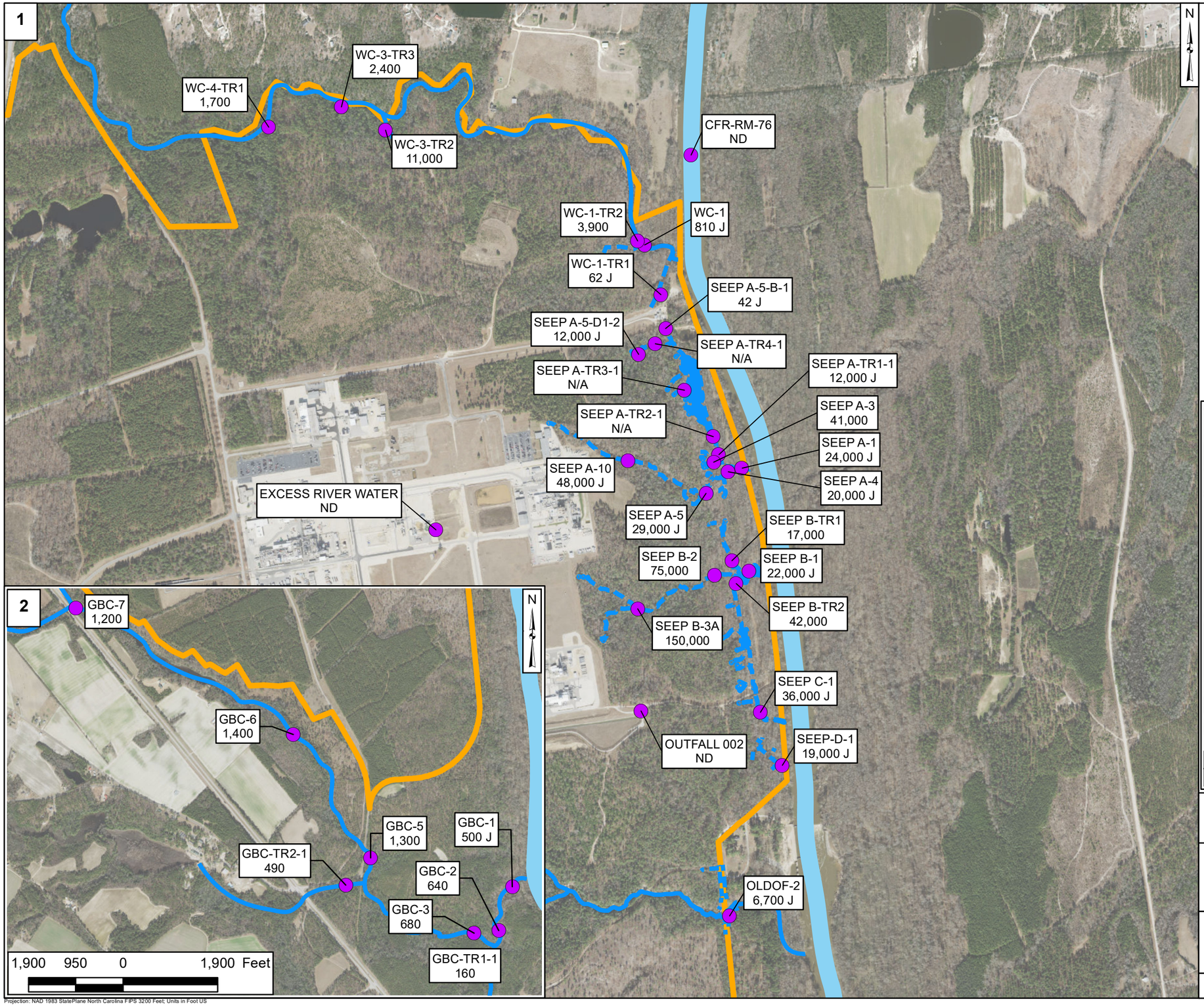
Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **5A**

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US; Basemap provided by Esri (2017)



Legend

- Sample Locations
- Observed Seep
- Cape Fear River
- Nearby Tributary
- Site Boundary
- SeepAreas

Notes:
All results are in ng/L (nanograms per liter).
N/A = no data available.
ND = non detect.
HFPO-DA = hexafluoropropylene oxide dimer acid.

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

HFPO-DA Concentrations - May 2019 Event

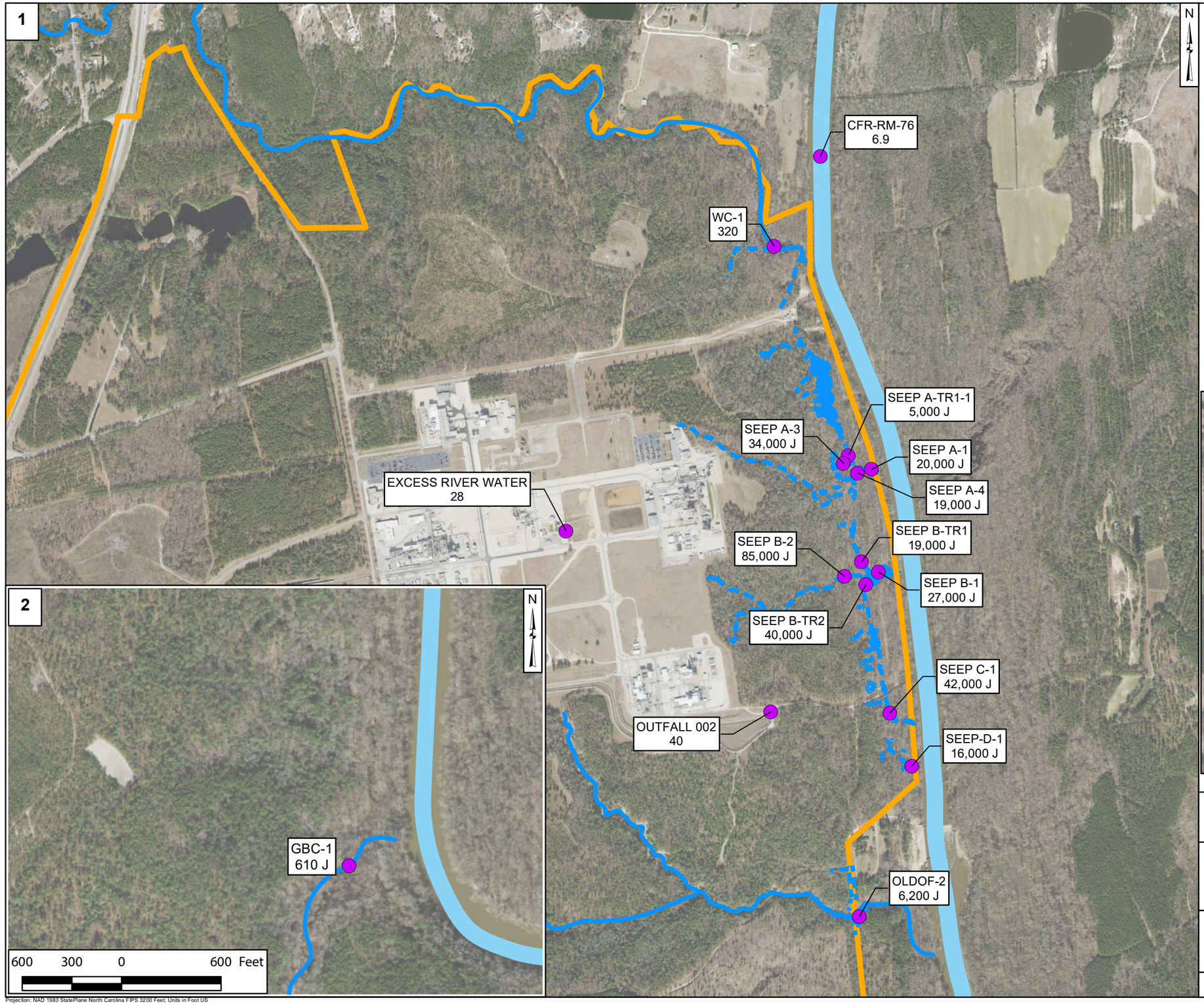
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure **5B**



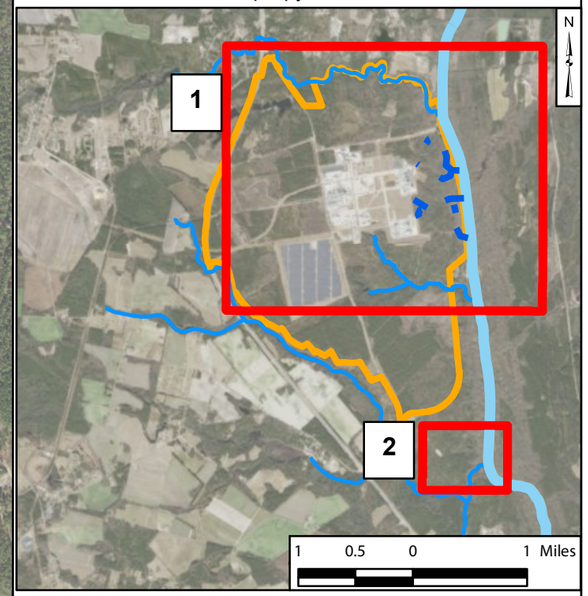
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

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

Legend

- Sample Location
- Observed Seep
- Cape Fear River
- Nearby Tributary
- Site Boundary
- SeepAreas

Notes:
All results are in ng/L (nanograms per liter).
J = estimated value.
HFPO-DA = hexafluoropropylene oxide dimer acid.



1,000 500 0 1,000 Feet

HFPO-DA Concentrations - June 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

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Figure 5C

1

CFR-RM-56
NS
17
12

CFR-RM-68
NS
32
390

CFR-RM-76
18
13
70

CFR-RM-84
140
NS
NS

CFR-BLADEN
NS
270
490

2 - Downstream

CFR-KINGS
NS
140
520

2 1 0 2 Miles

N

Legend

- Sample Locations
- Site Boundary
- Cape Fear River
- Value — Concentration - February Event
- Value — Concentration - May Event
- Value — Concentration - June Event

Notes:
Results are sum of Table 3+ Laboratory Standard Operating Procedure compounds listed in Table 2.
HFPO-DA is included in the total Table 3+ result, including HFPO-DA results evaluated by EPA Method 537 Mod.
If samples were analyzed by both TestAmerica Sacramento and Eurofins Lancaster, results from TestAmerica Sacramento are plotted here since this lab provided more complete Table 3+ results. All reported results are provided in Table 4.
Total Table 3+ results include J-qualified data.
All results are in ng/L (nanograms per liter).
NS = not sampled.

1

2

25 12.5 0 25 Miles

2 1 0 2 Miles

Cape Fear River Total Table 3+ Concentrations - February, May, and June 2019 Events

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure 6A

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

1

CFR-RM-56
NS
ND
ND

CFR-RM-68
NS
ND
5.0

CFR-RM-76
2.9 J
ND
6.9

CFR-RM-84
13
NS
NS

CFR-BLADEN
NS
28
57

2 - Downstream

CFR-KINGS
NS
17
37

2 1 0 2 Miles

Legend

- Sample Locations
- Site Boundary
- Cape Fear River
- Value — Concentration - February Event
- Value — Concentration - May Event
- Value — Concentration - June Event

Notes:
All results are in ng/L (nanograms per liter).
J = estimated value.
ND = non detect.
NS = not sampled.
HFPO-DA = hexafluoropropylene oxide dimer acid.

1

2

30 15 0 30 Miles

2 1 0 2 Miles

Cape Fear River HFPO-DA Concentrations - February, May, and June 2019 Events

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh, NC | August 2019

Figure 6B

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

APPENDIX A
Field Photograph Record

APPENDIX A: FIELD PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

Photograph 1 **Date: February 2019** **Comments: Seep A**	
Photograph 2 **Date: February 2019** **Comments: Seep B**	

APPENDIX A: FIELD PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

Photograph 3 **Date: February 2019** **Comments: Seep C**	
Photograph 4 **Date: February 2019** **Comments: Old Outfall**	

APPENDIX A: FIELD PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

Photograph 5

Date: May 20, 2019

Comments: Operation of a weir.

Photograph 6

Date: May 21, 2019

Comments: Example of flow measurement using a weir.

APPENDIX A: FIELD PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

Photograph 7

Date: February 5, 2019

Comments: Operation of a Mariotte Bottle for tracer injection into Seep C.

APPENDIX B
Field Parameters

Table B1
FIELD PARAMETERS
Chemours Fayetteville Works, North Carolina

Location	Date	pH	Temperature (°C)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)
CFR River Mile 56	5/22/2019	5.9	25.1	0.108	6.0	240	0.0
CFR River Mile 68	5/22/2019	6.3	25.3	0.090	6.2	192	0.0
CFR River Mile 76	5/22/2019	6.9	25.4	0.086	6.2	189	0.0
CFR Bladen Bluffs	5/22/2019	6.9	25.3	0.098	7.0	188	0.0
CFR Kings Bluff	5/23/2019	6.5	23.9	0.093	5.0	185	0.0

Notes:

Field parameters were collected from the Cape Fear River but not the seeps and creeks locations. Due to the need to carry all equipment and bottleware to each seep location, the field team elected to prioritize flow measurement and investigative sample collection over field parameter measurement. Seep and creek samples were collected facing oncoming flow from the center of the stream.

°C - degrees Celsius

CFR - Cape Fear River

mg/L - milligrams per liter

mS/cm - milliSiemens per centimeter

mV - millivolt

NTU - nephelometric turbidity units

ORP - oxidation reduction potential

APPENDIX C

Infrared Photograph Record

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-1A

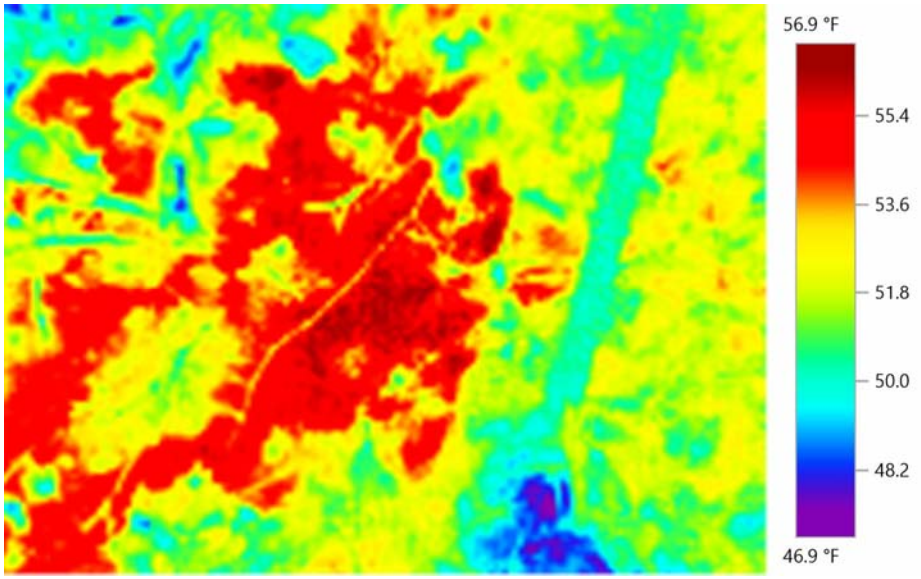
Date: February 1, 2019

Comments: Upwelling

OLDOF-1A

Date: February 1, 2019

Comments: Upwelling

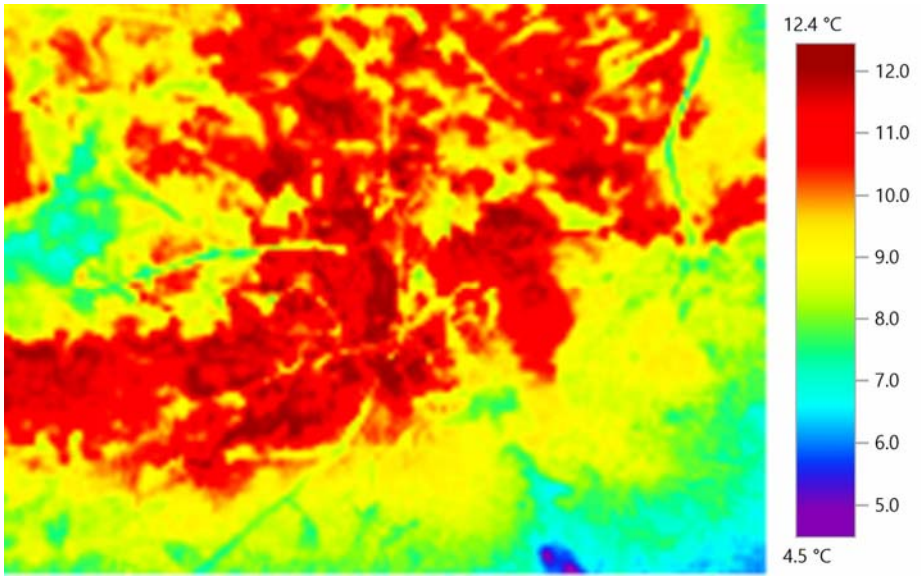


APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-1B **Date: February 2, 2019** **Comments: Upwelling**	
OLDOF-1B **Date: February 2, 2019** **Comments: Upwelling**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-1C

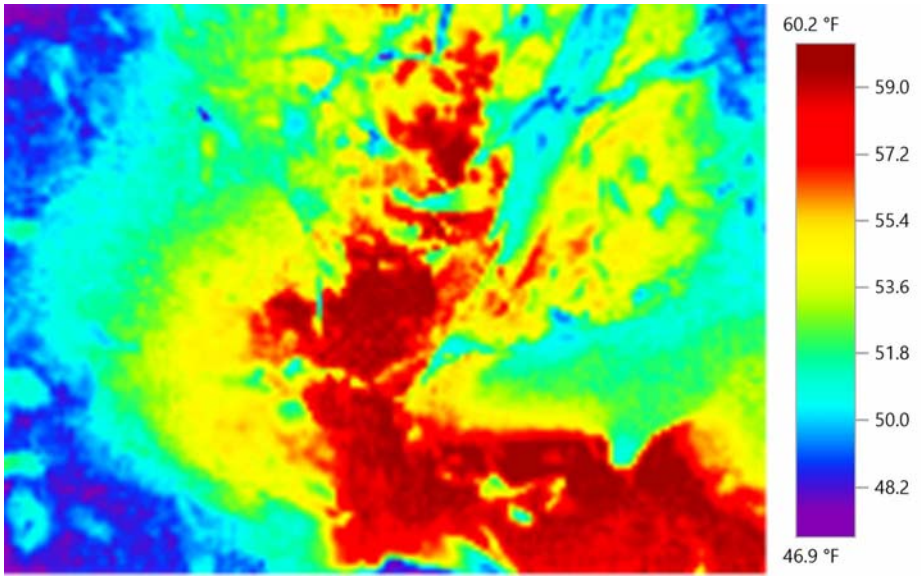
Date: February 2, 2019

Comments: Upwelling

OLDOF-1C

Date: February 2, 2019

Comments: Upwelling



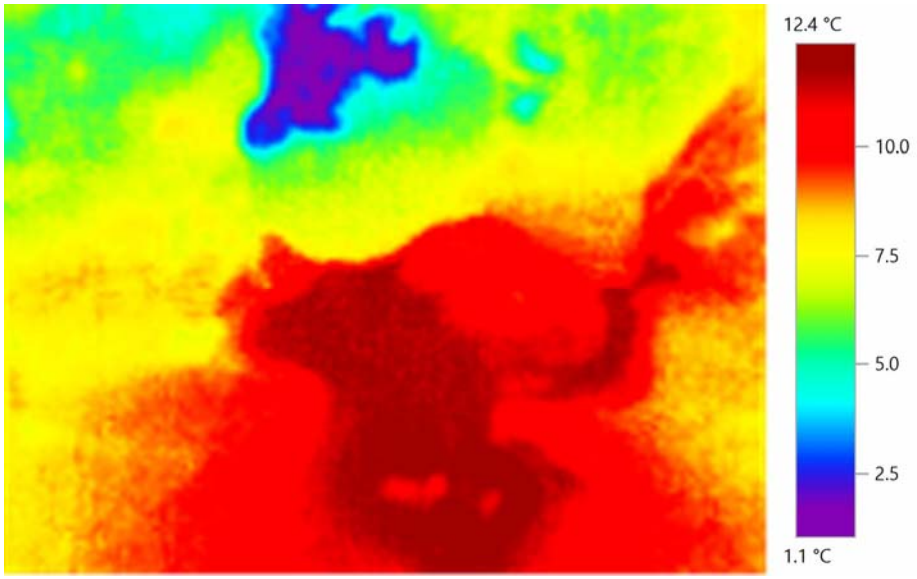
APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

Geosyntec Consultants of NC, P.C.
NC License No.: C-3806 and C-295

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

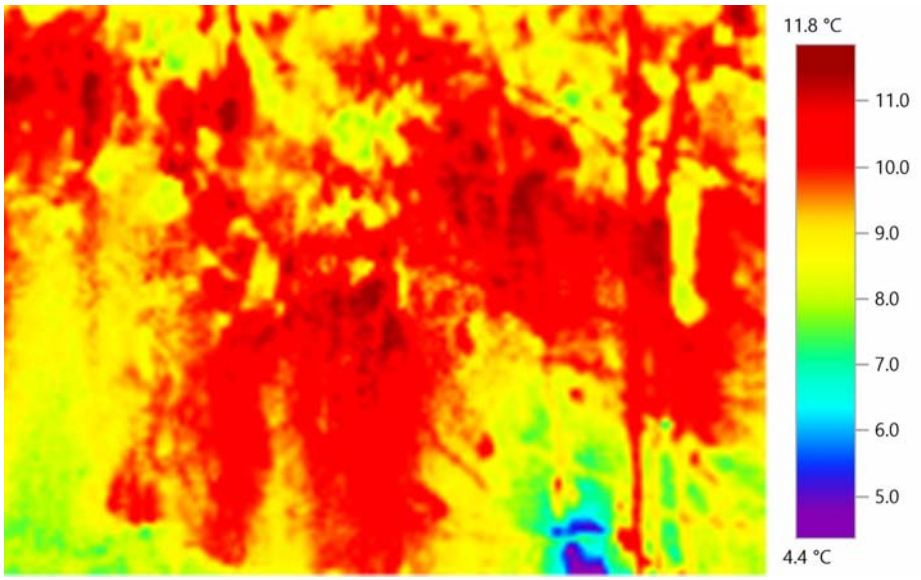
OLDOF-1D	
Date: February 2, 2019	
Comments: Upwelling	

OLDOF-1D	
Date: February 2, 2019	
Comments: Upwelling	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

Client: Chemours	**Project Number:**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2A **Date: February 2, 2019** **Comments: Upwelling**	
OLDOF-2A **Date: February 2, 2019** **Comments: Upwelling**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2B

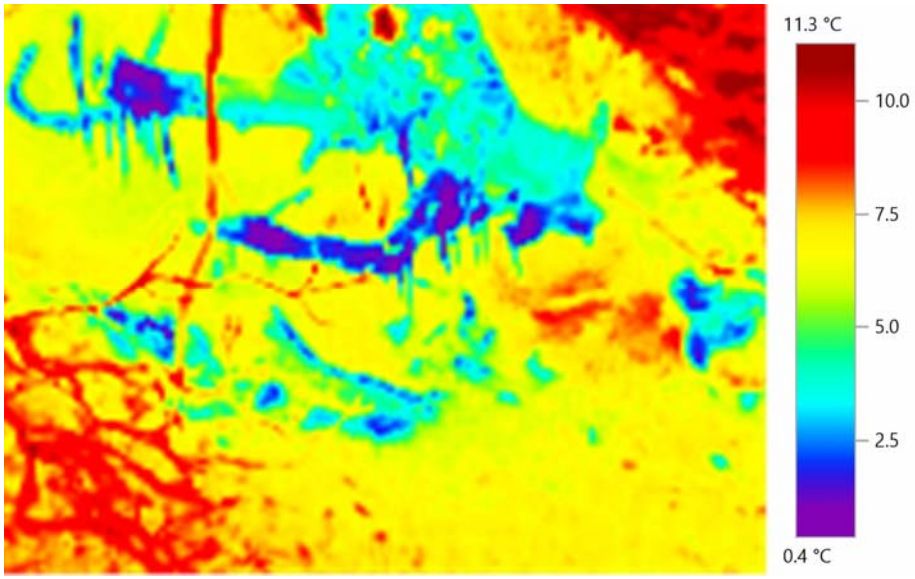
Date: February 2, 2019

Comments: Upwelling

OLDOF-2B

Date: February 2, 2019

Comments: Upwelling



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2C

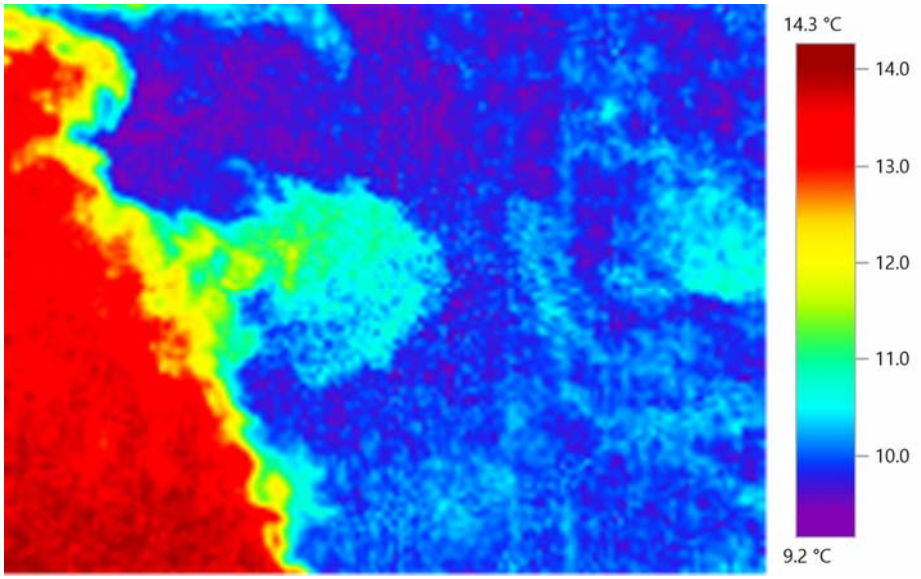
Date: February 2, 2019

Comments: Upwelling

OLDOF-2C

Date: February 2, 2019

Comments: Upwelling

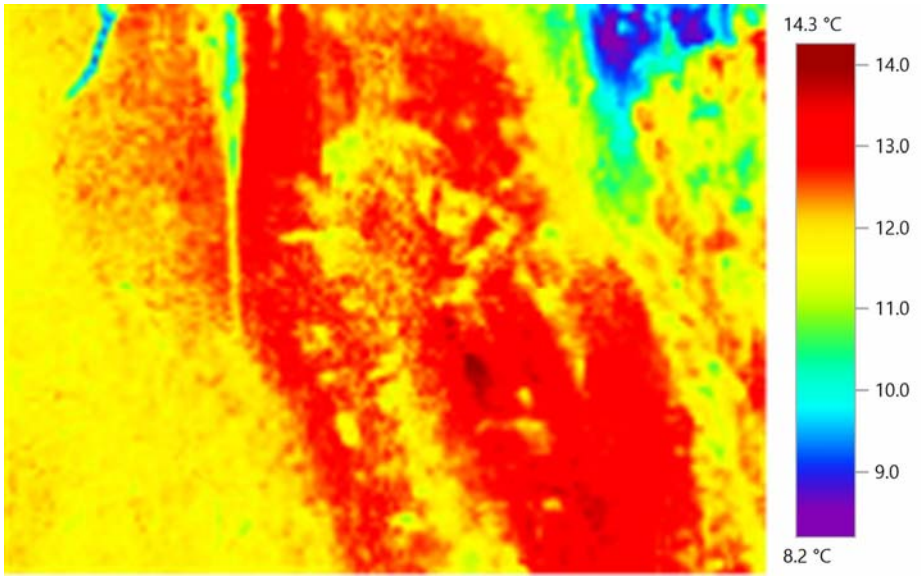


APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2D **Date: February 2, 2019** **Comments: Upwelling**	
OLDOF-2D **Date: February 2, 2019** **Comments: Upwelling**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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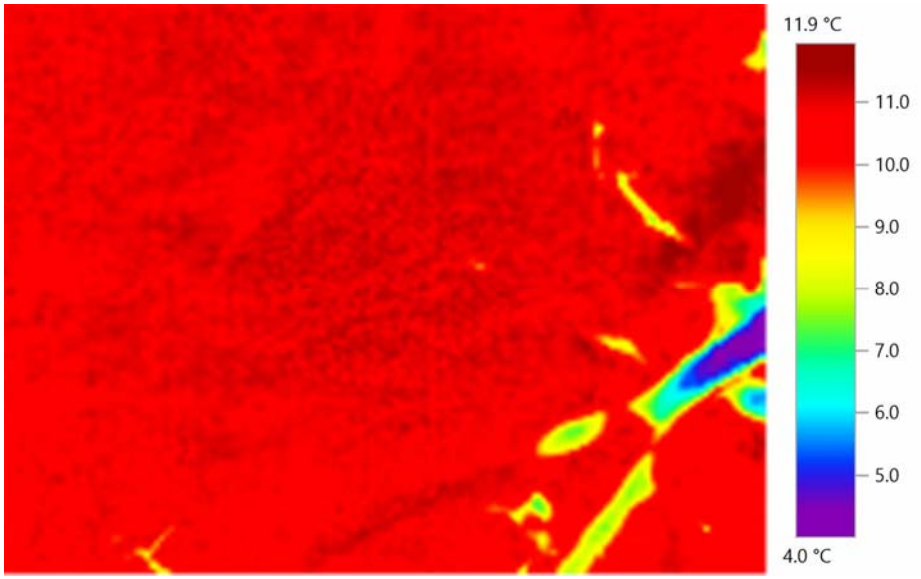
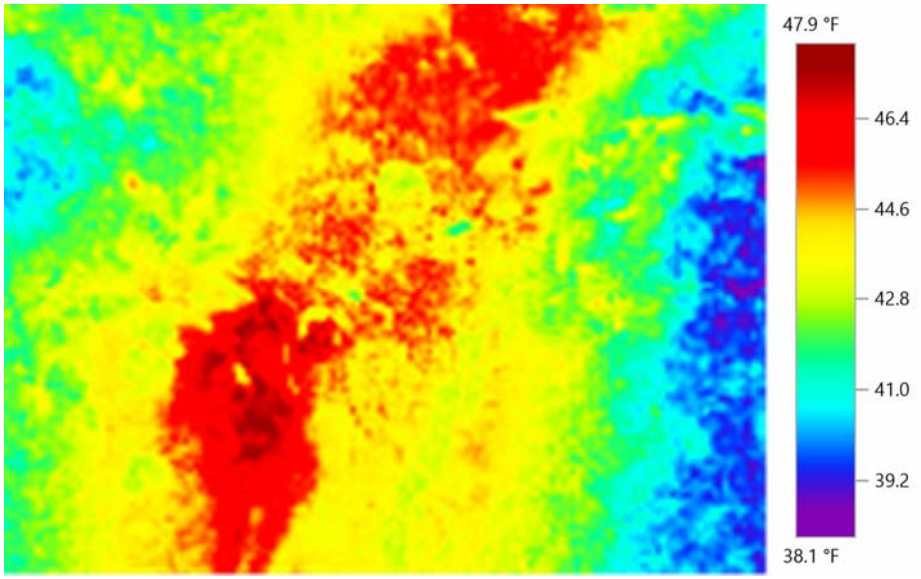
OLDOF-2E **Date: February 2, 2019** **Comments: Upwelling**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2F **Date: February 2, 2019** **Comments: Seep**	
OLDOF-2F **Date: February 2, 2019** **Comments: Seep**	

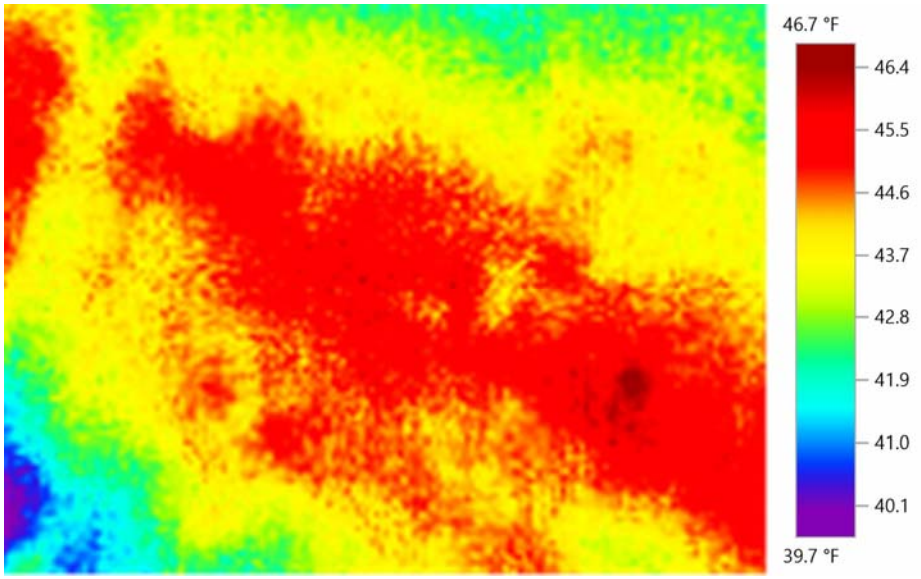
APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2F	
Date: February 2, 2019	
Comments: Seep	

OLDOF-2F	
Date: February 2, 2019	
Comments: Seep	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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NC License No.: C-3500 and C-295

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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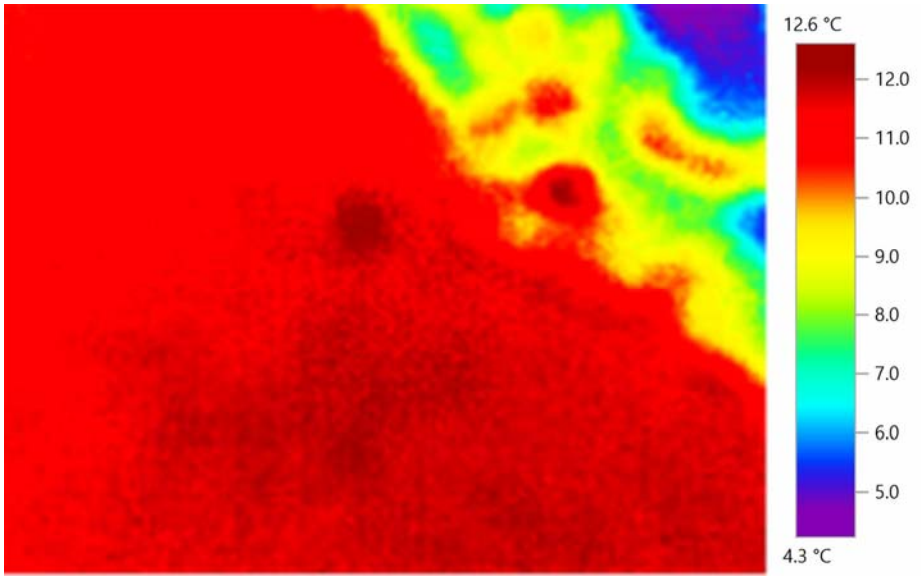
OLDOF-2G **Date: February 2, 2019** **Comments: Upwelling**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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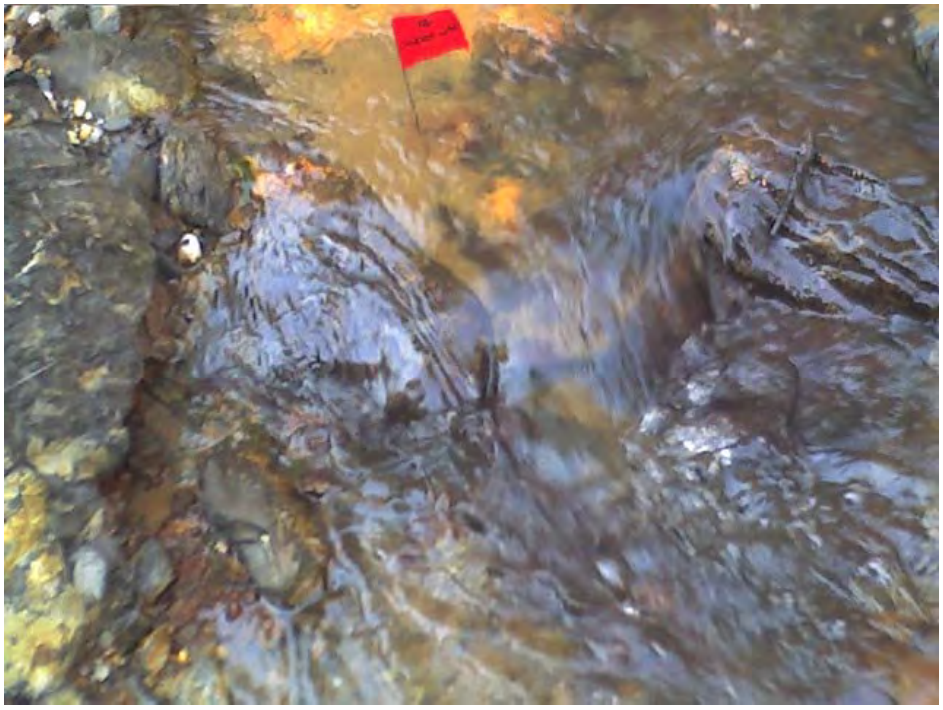
Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2H	
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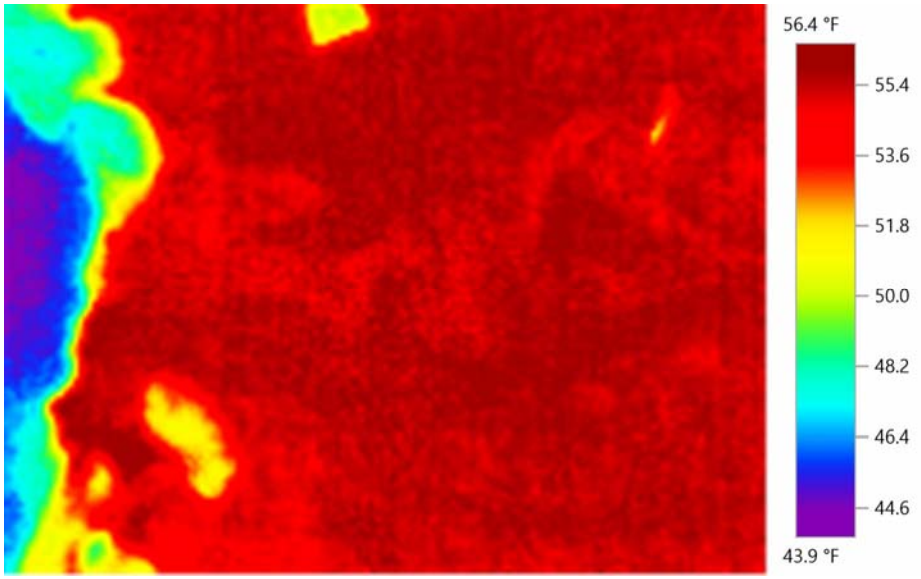
OLDOF-2H	
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Comments: Upwelling	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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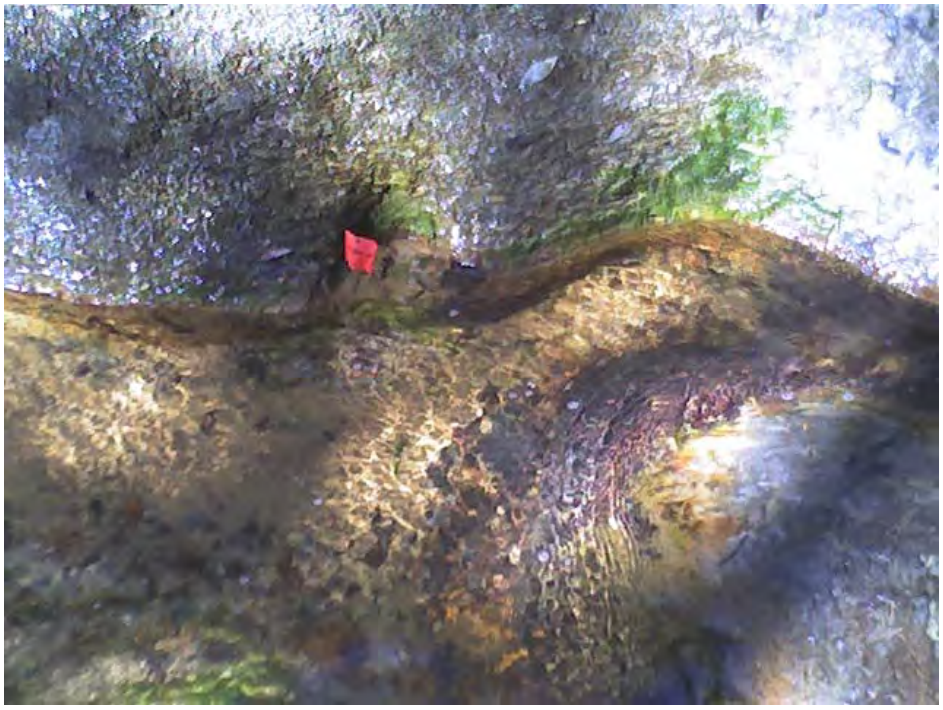
Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-2I	
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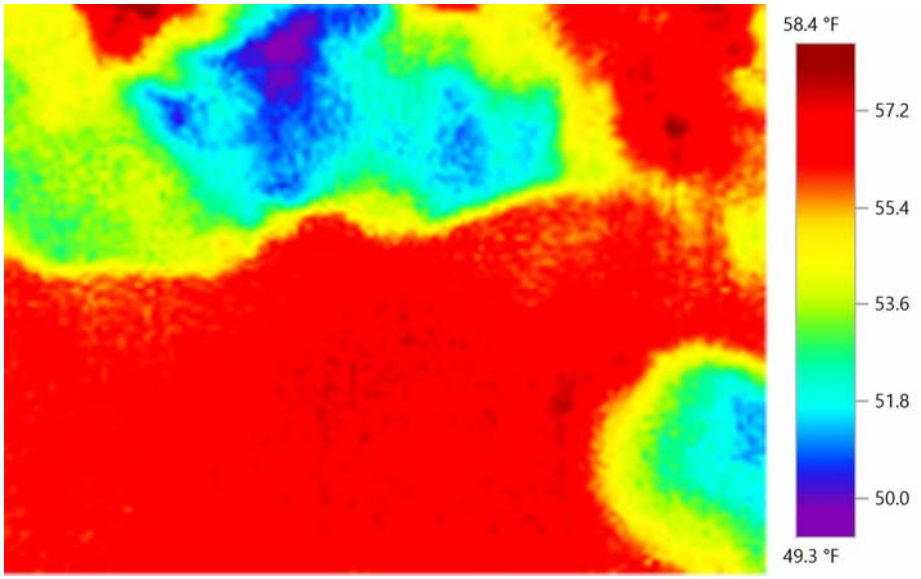
OLDOF-2I	
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APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

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Client: Chemours	**Project Number: TR0795**
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OLDOF-2J

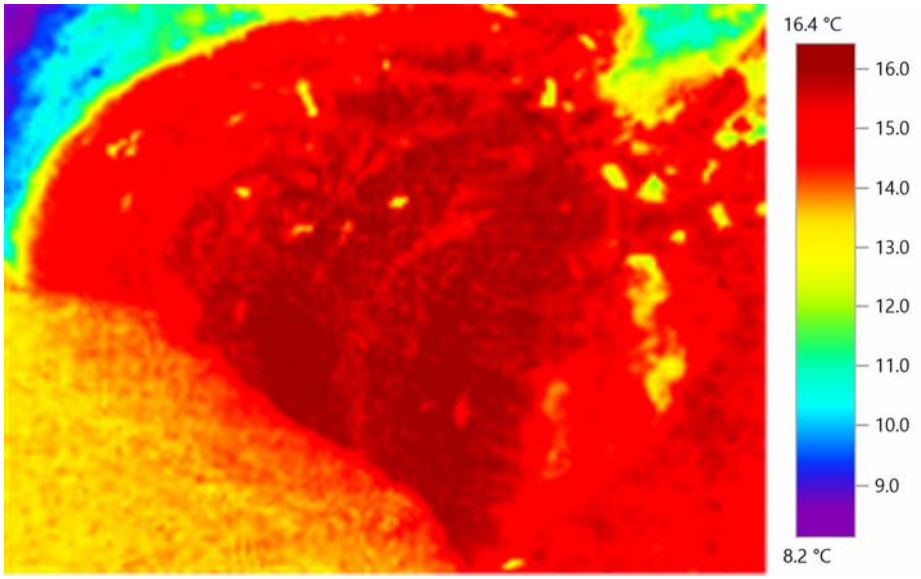
Date: February 3, 2019

Comments: Seep

OLDOF-2J

Date: February 3, 2019

Comments: Seep



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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OLDOF-2J

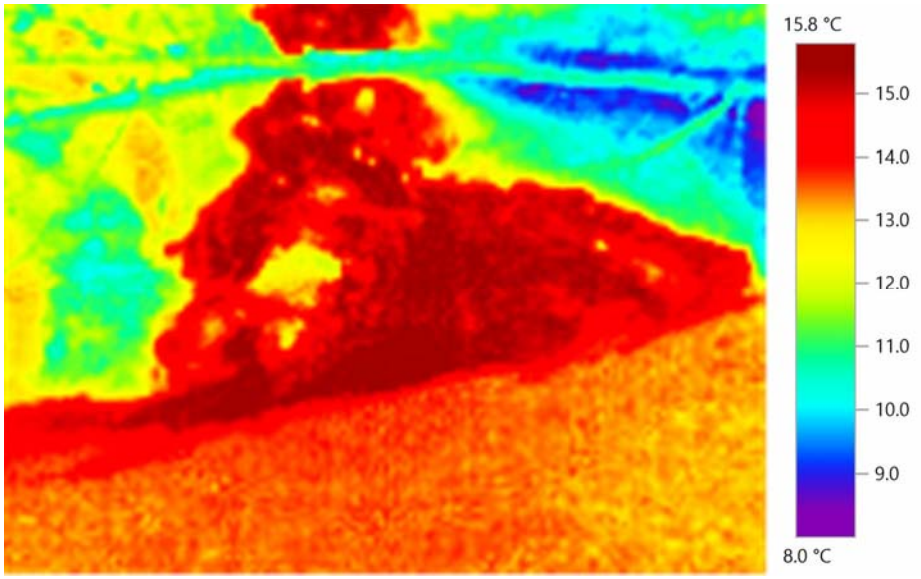
Date: February 3, 2019

Comments: Seep

OLDOF-2J

Date: February 3, 2019

Comments: Seep



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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NC License No.: C-3500 and C-295

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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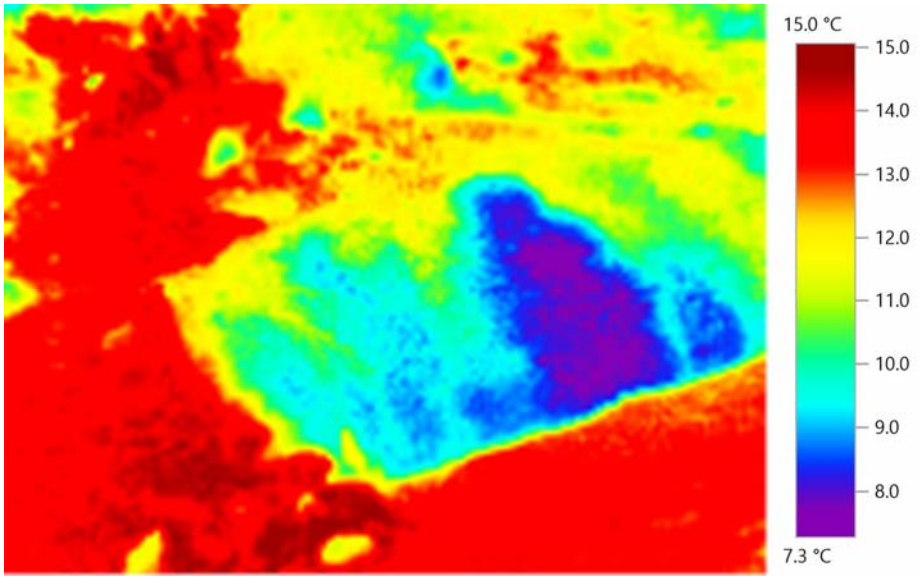
OLDOF-2K **Date: February 3, 2019** **Comments: Upwelling**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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NC License No.: C-3500 and C-295

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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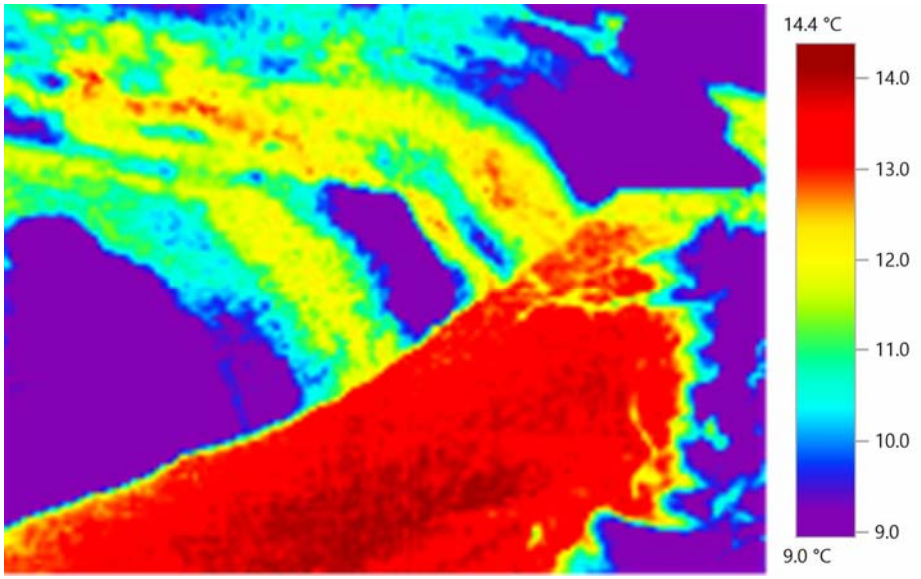
OLDOF-2K **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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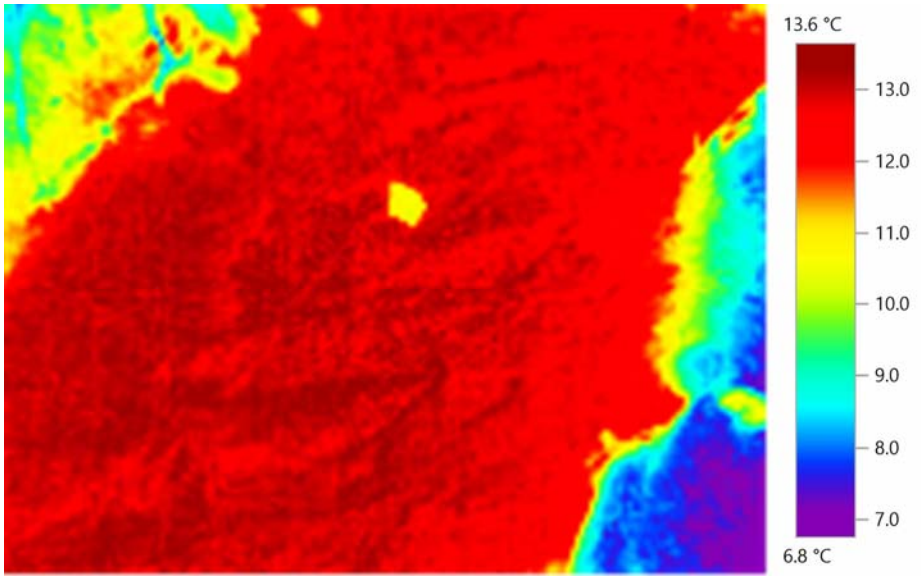
OLDOF-2L **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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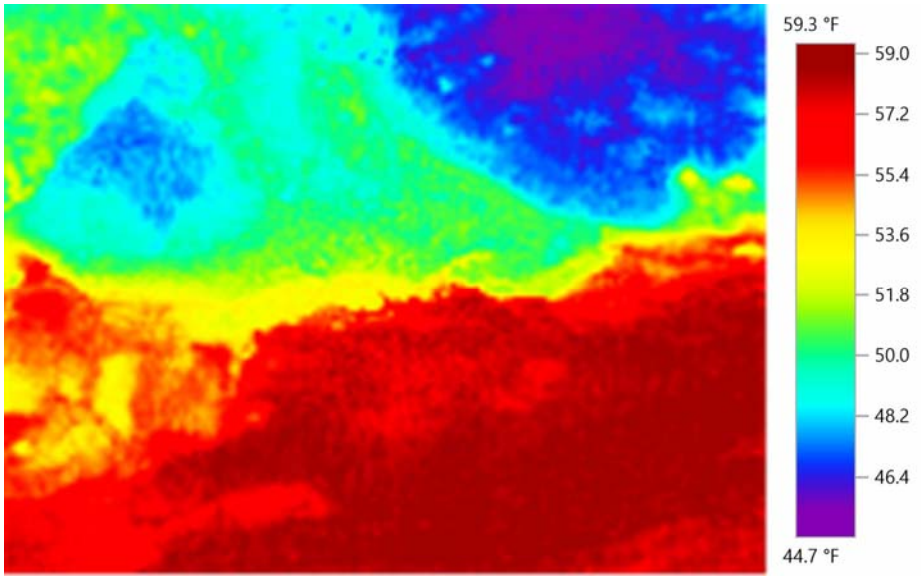
OLDOF-2M **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-4A

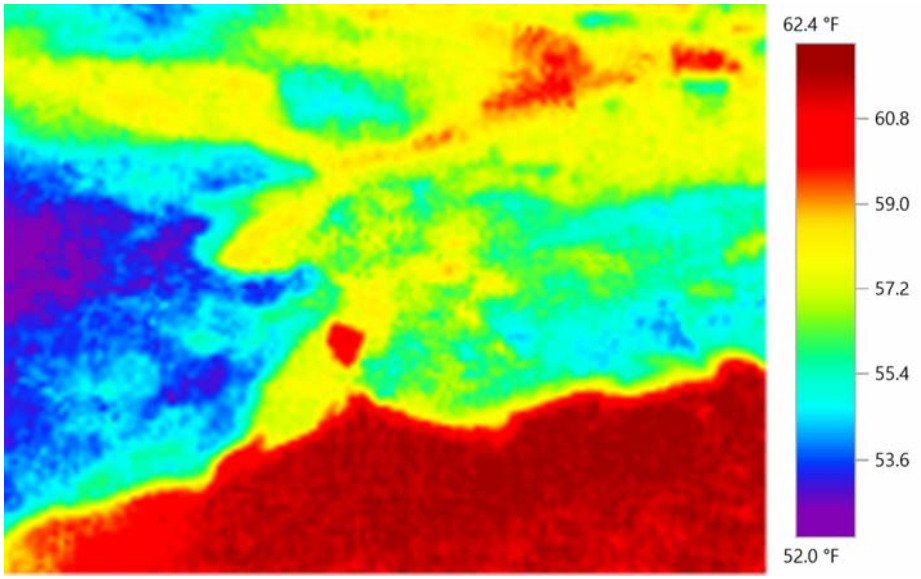
Date: February 3, 2019

Comments: Upwelling

OLDOF-4A

Date: February 3, 2019

Comments: Upwelling



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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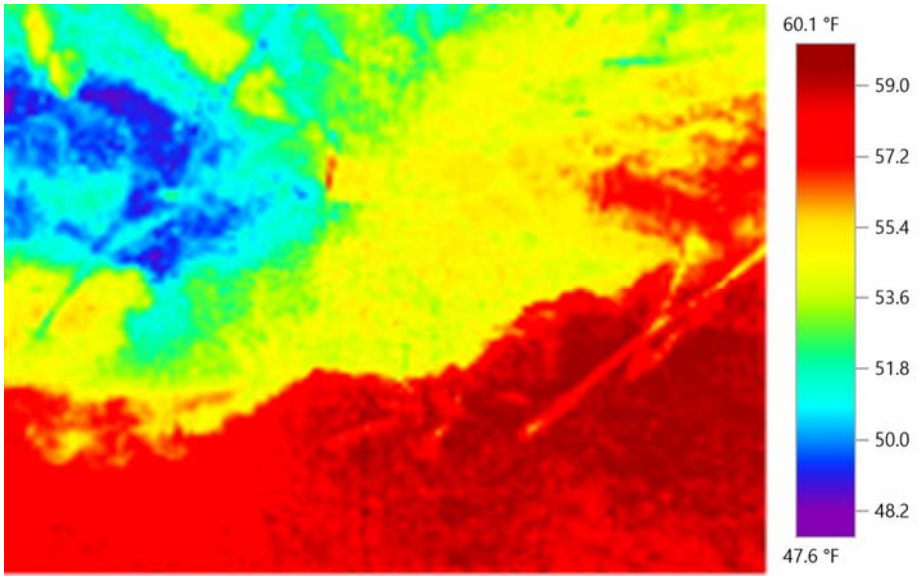
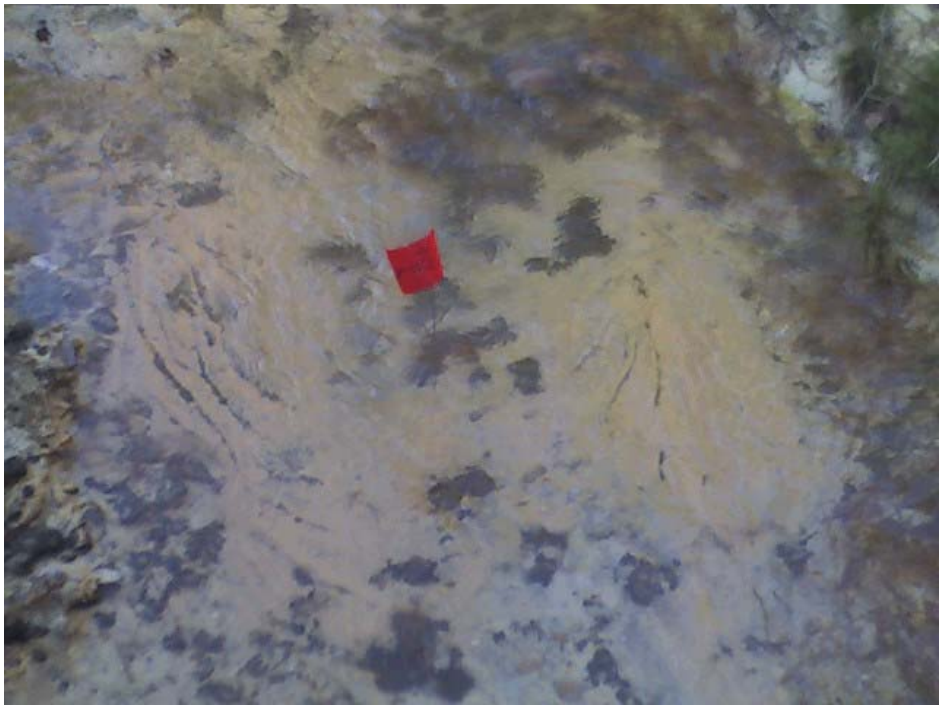
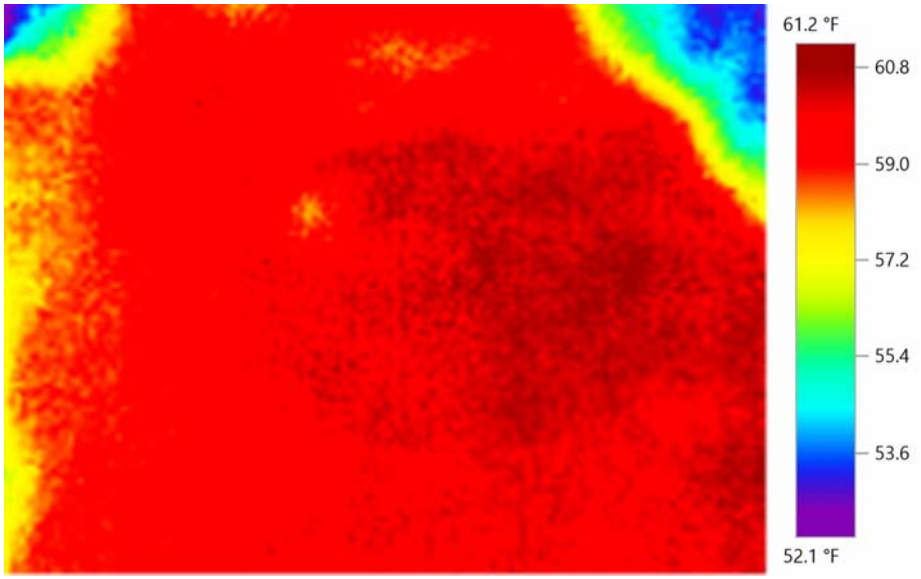
OLDOF-4B **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-4C **Date: February 3, 2019** **Comments: Seep**	
OLDOF-4C **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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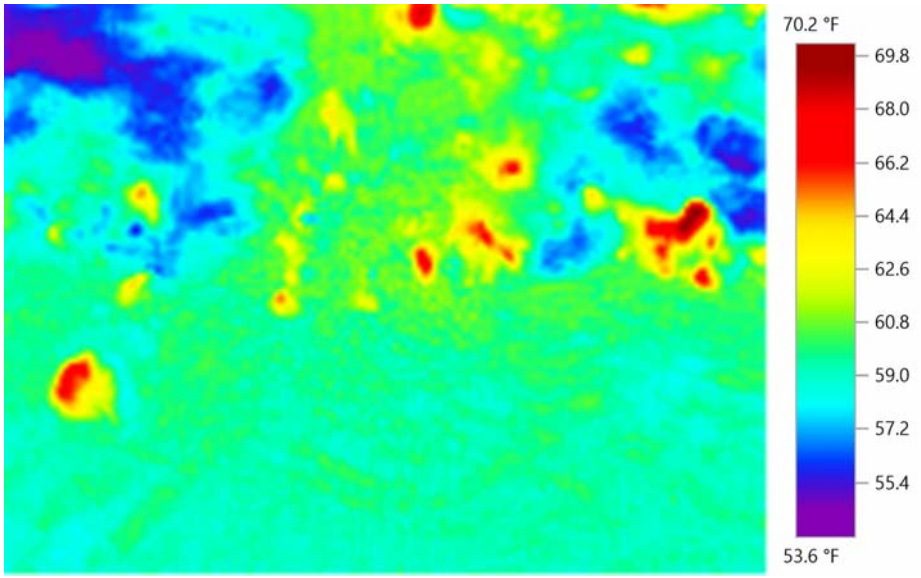
OLDOF-4D **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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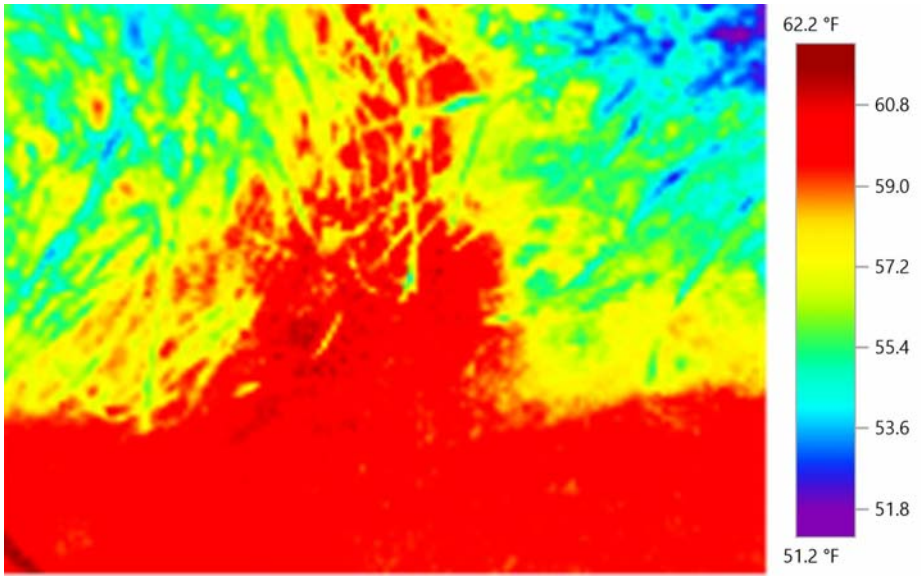
OLDOF-4E **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-4F

Date: February 3, 2019

Comments: Seep

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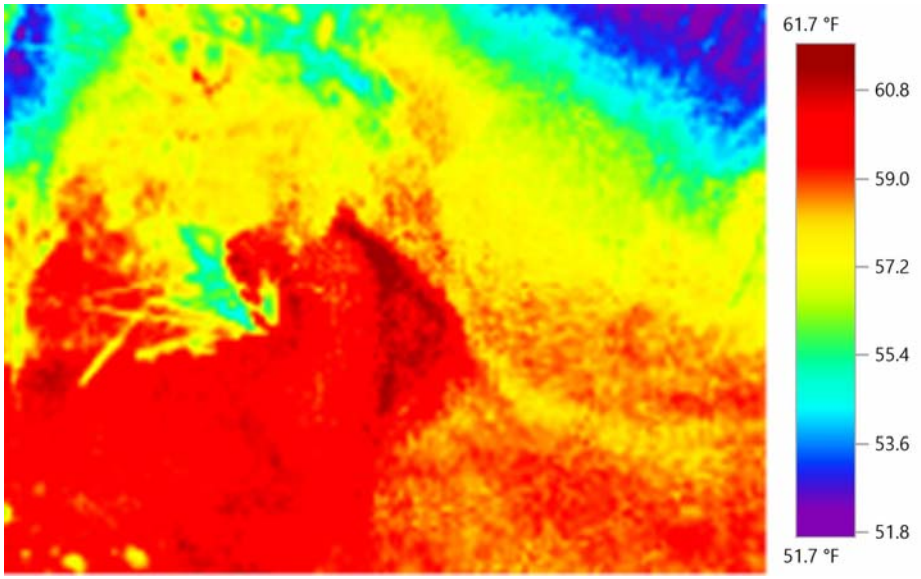
Date: February 3, 2019

Comments: Seep



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Seeps and Creeks Investigation

Geosyntec consultants

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Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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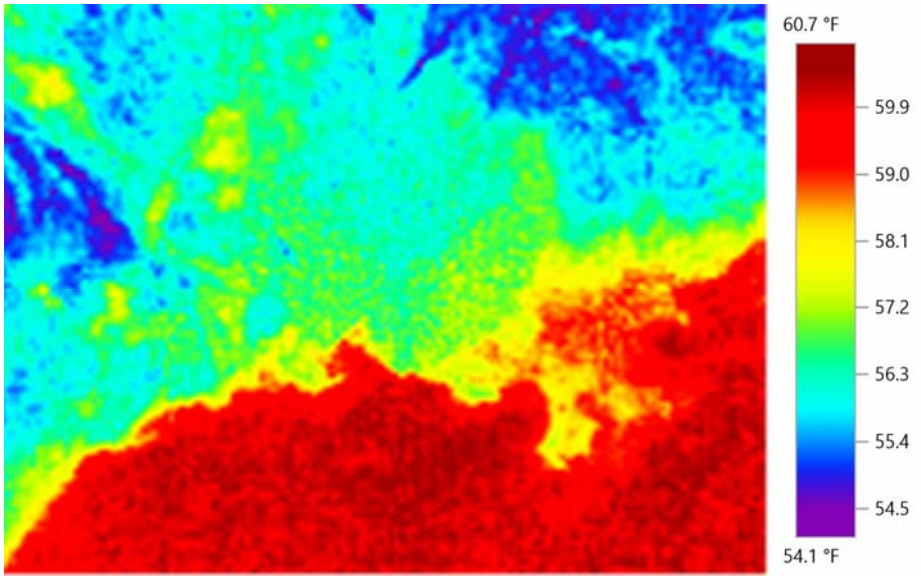
OLDOF-4G **Date: February 3, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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NC License Nos: C-3500 and C-295

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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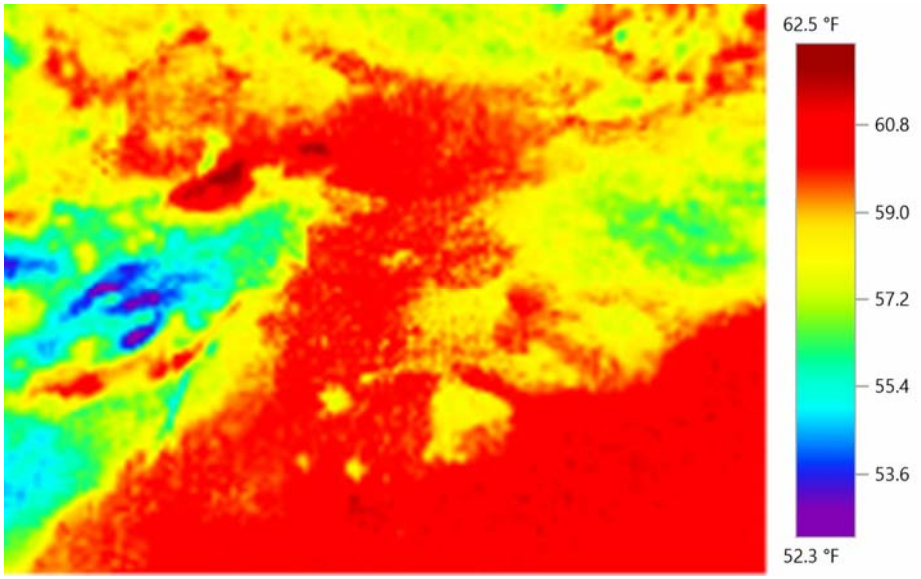
Comments: Seep	

OLDOF-4H	
Date: February 3, 2019	
Comments: Seep	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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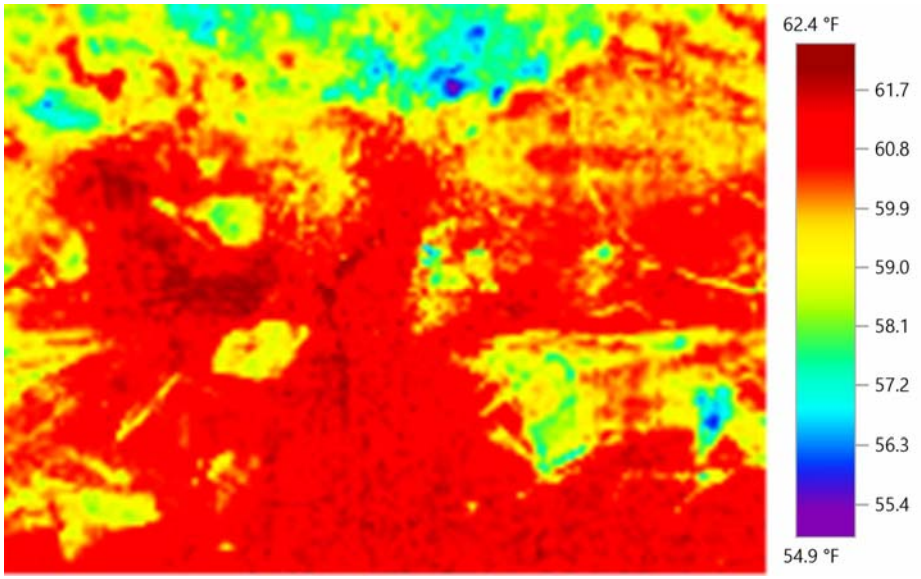
OLDOF-4I **Date: February 4, 2019** **Comments: Seep**	

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Seeps and Creeks Investigation

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Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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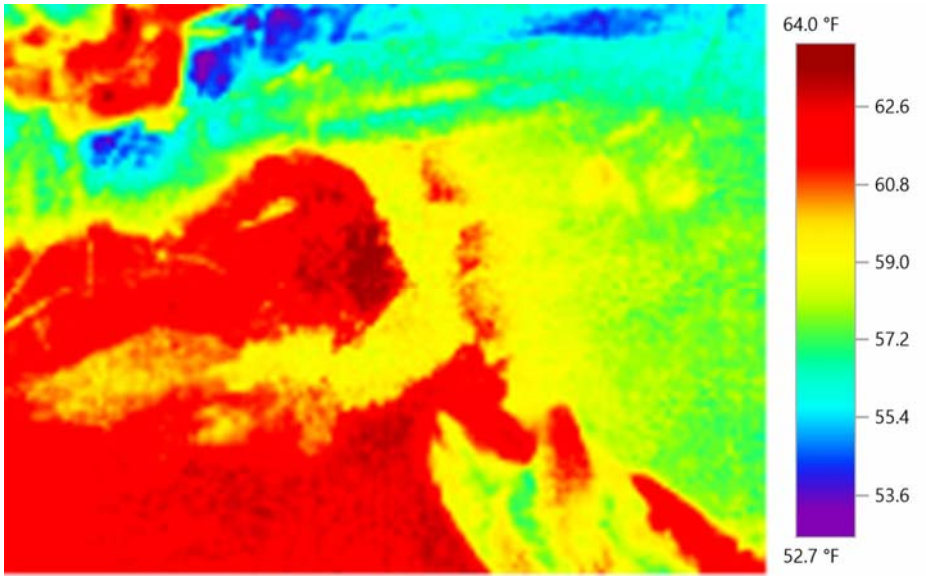
Date: February 4, 2019	
Comments: Seep	

OLDOF-4J	
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Comments: Seep	

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Seeps and Creeks Investigation

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Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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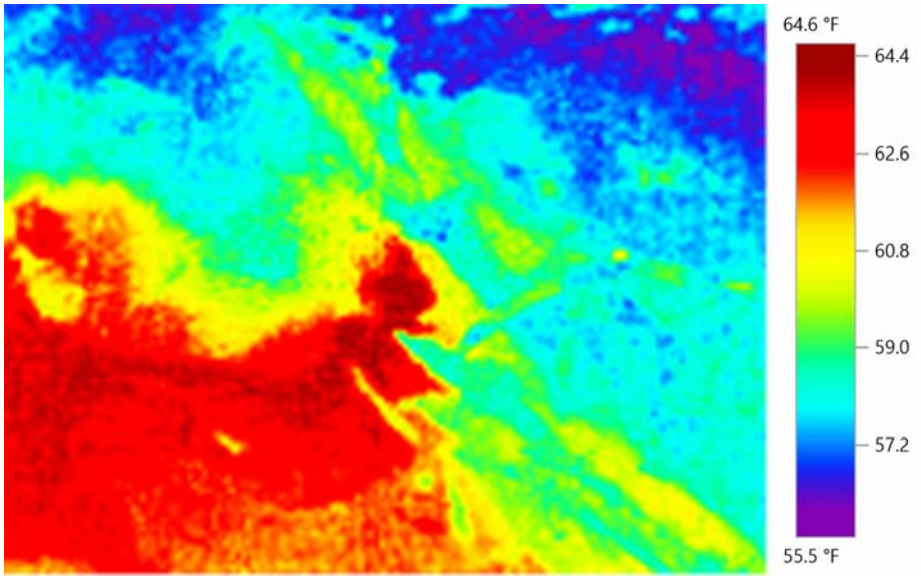
OLDOF-4K **Date: February 4, 2019** **Comments: Seep**	

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-4L

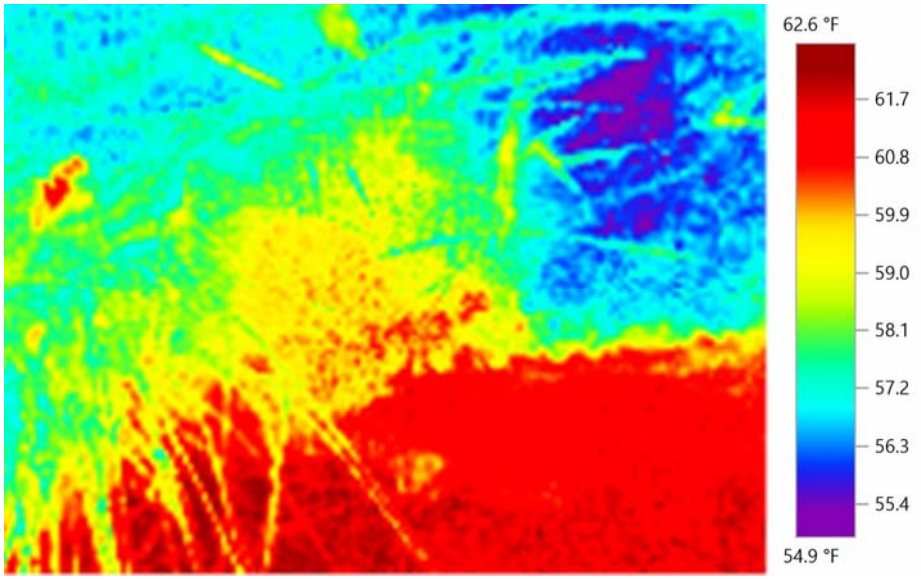
Date: February 4, 2019

Comments: Seep

OLDOF-4L

Date: February 4, 2019

Comments: Seep



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-4M

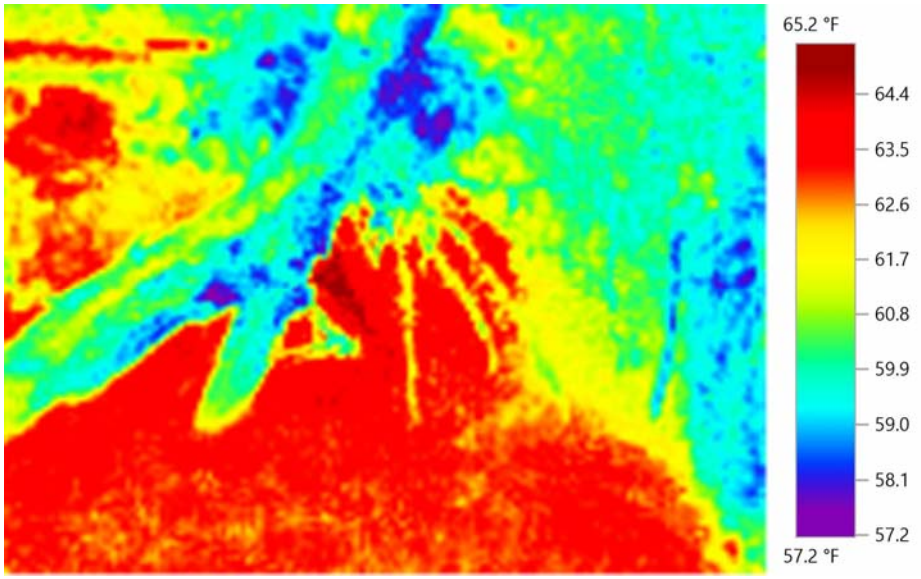
Date: February 4, 2019

Comments: Seep

OLDOF-4M

Date: February 4, 2019

Comments: Seep

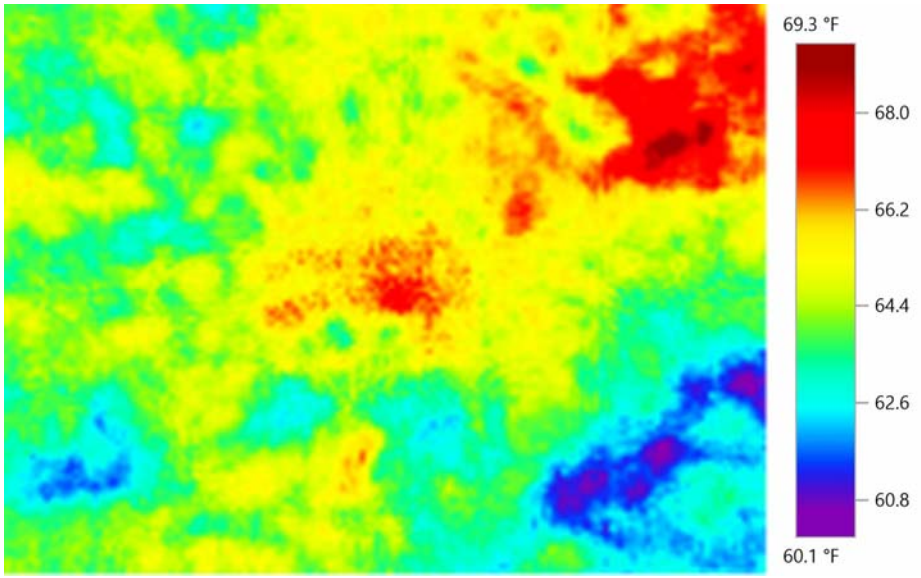


APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-4N **Date: February 4, 2019** **Comments: Seep**	
OLDOF-4N **Date: February 4, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-4P

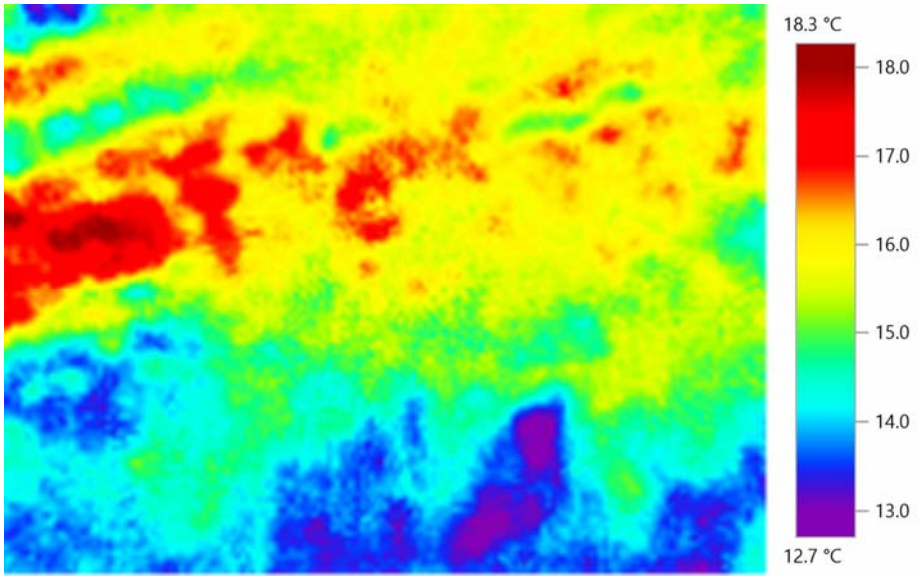
Date: February 4, 2019

Comments: Seep

OLDOF-4P

Date: February 4, 2019

Comments: Seep

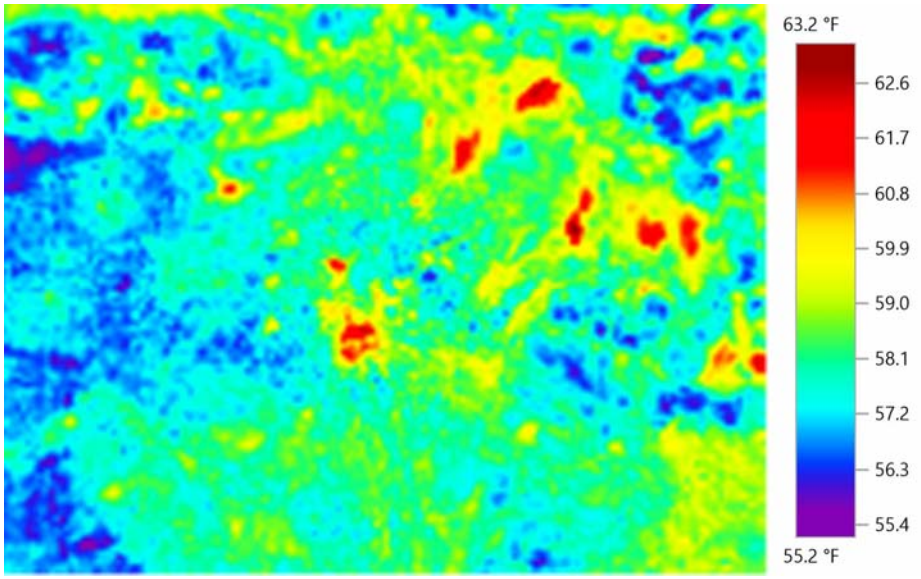


APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

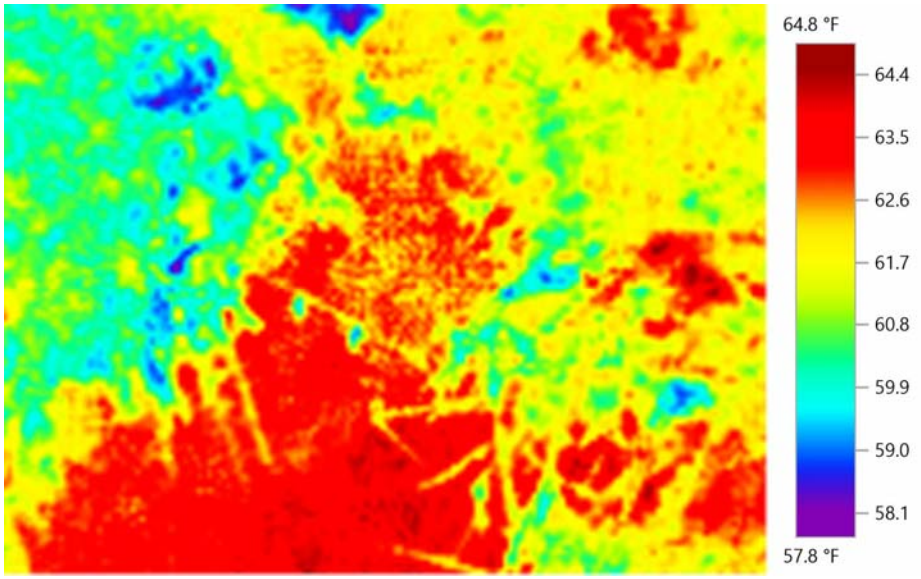
OLDOF-5A **Date: February 4, 2019** **Comments: Seep**	
OLDOF-5A **Date: February 4, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

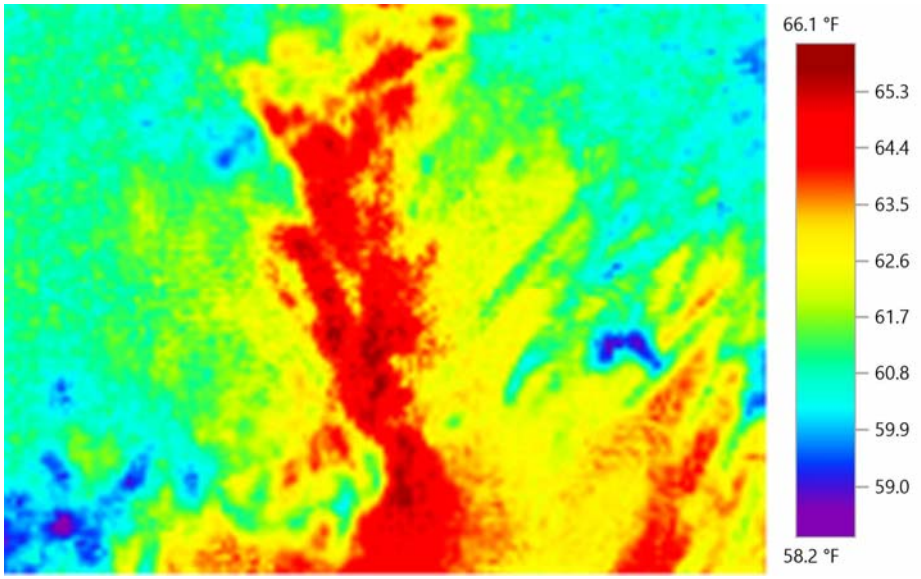
OLDOF-5B **Date: February 4, 2019** **Comments: Seep**	
OLDOF-5B **Date: February 4, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5C **Date: February 4, 2019** **Comments: Seep**	
OLDOF-5C **Date: February 4, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

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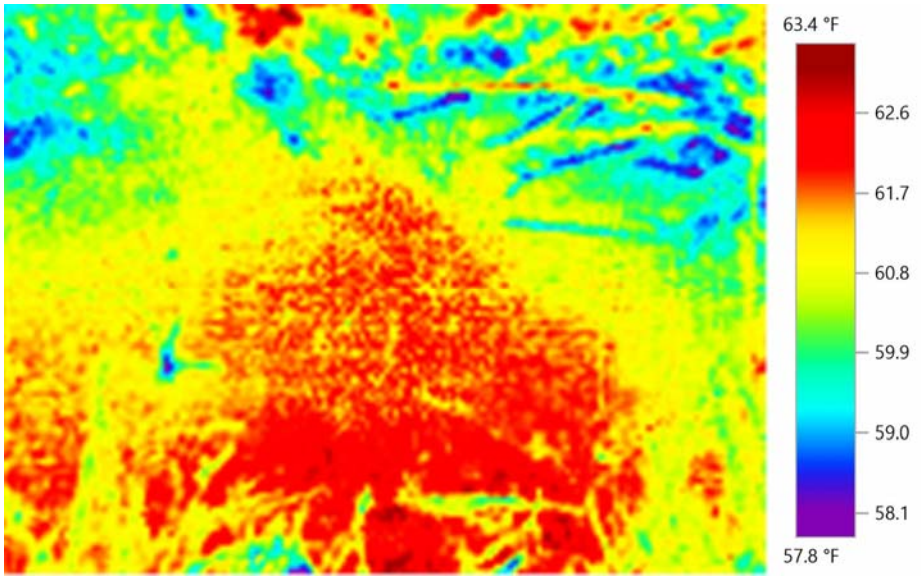
OLDOF-5D **Date: February 4, 2019** **Comments: Seep**	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5E

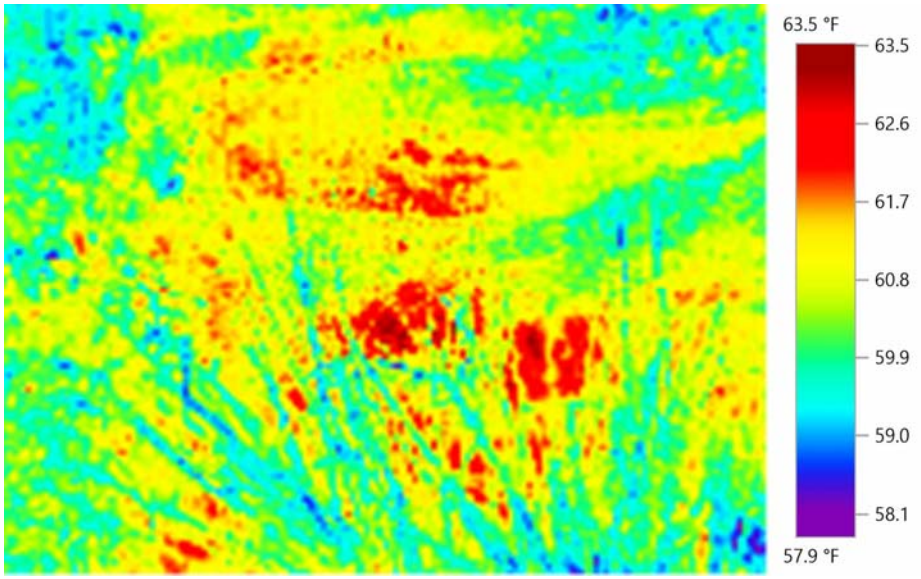
Date: February 4, 2019

Comments: Seep

OLDOF-5E

Date: February 4, 2019

Comments: Seep



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5F

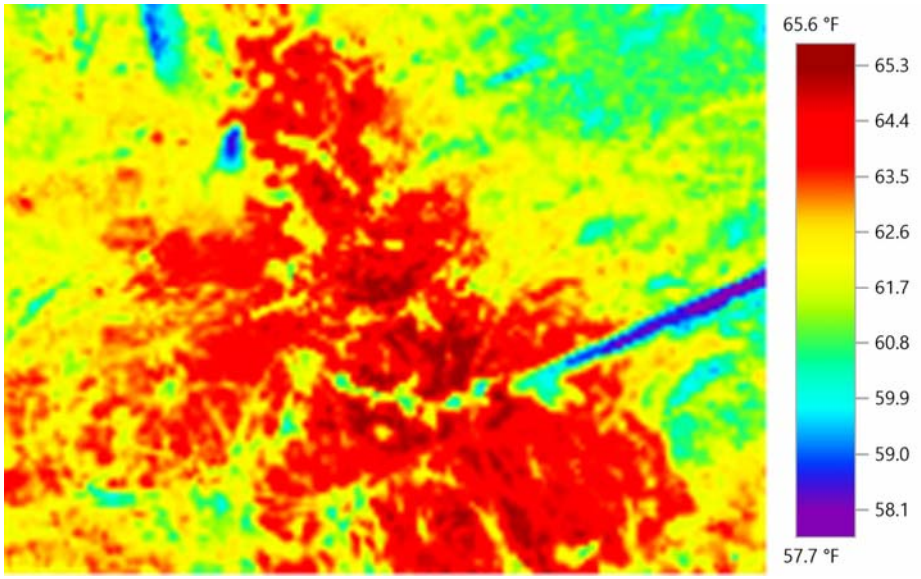
Date: February 4, 2019

Comments: Seep

OLDOF-5F

Date: February 4, 2019

Comments: Seep



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5G

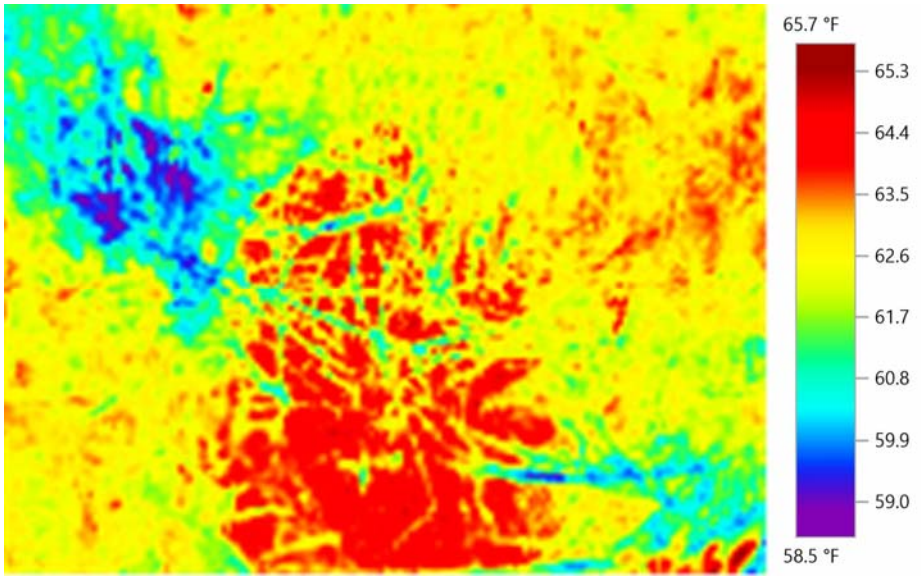
Date: February 4, 2019

Comments: Seep

OLDOF-5G

Date: February 4, 2019

Comments: Seep

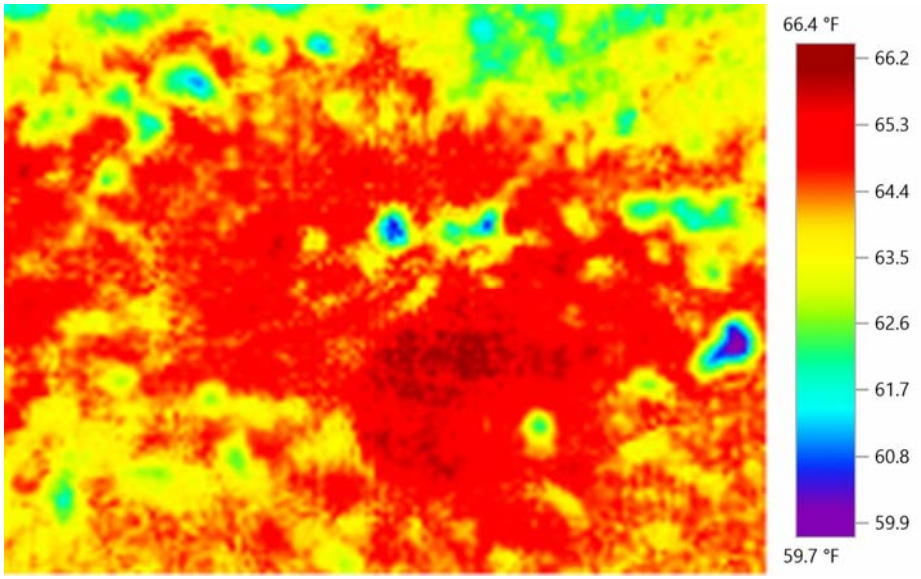


APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5H **Date: February 4, 2019** **Comments: Seep**	
OLDOF-5H **Date: February 4, 2019** **Comments: Seep**	

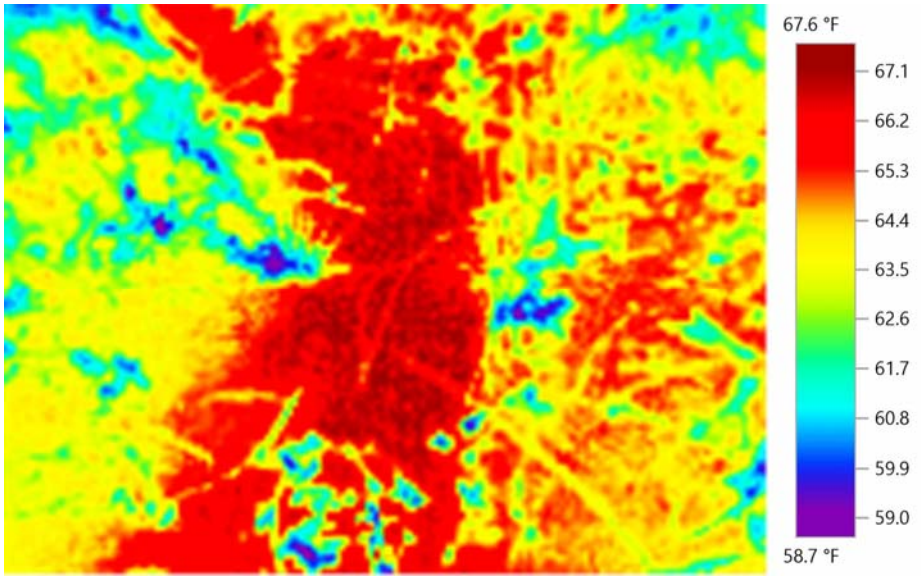
APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5I	
Date: February 4, 2019	
Comments: Seep	

OLDOF-5I	
Date: February 4, 2019	
Comments: Seep	

APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5J

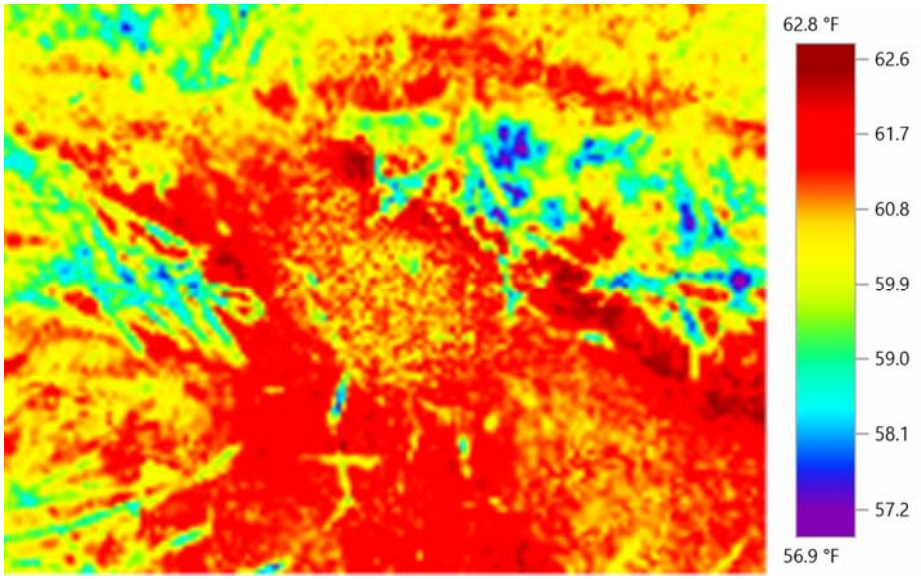
Date: February 4, 2019

Comments: Seep

OLDOF-5J

Date: February 4, 2019

Comments: Seep



APPENDIX C: INFRARED CAMERA PHOTOGRAPH RECORD
Seeps and Creeks Investigation

Geosyntec consultants

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

Client: Chemours	**Project Number: TR0795**
Site Name: Chemours Fayetteville Works	**Site Location: Fayetteville, North Carolina**

OLDOF-5K

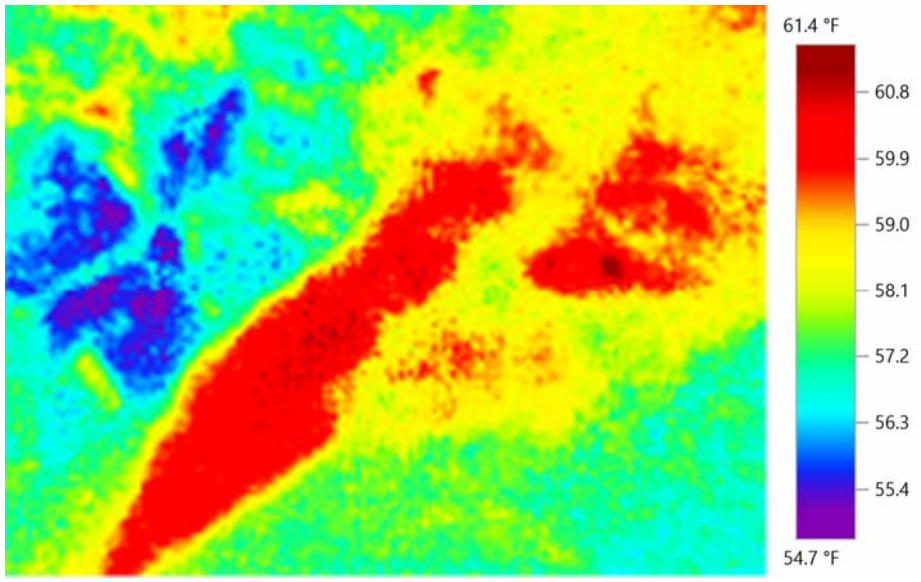
Date: February 4, 2019

Comments: Seep

OLDOF-5K

Date: February 4, 2019

Comments: Seep



APPENDIX D

Flow Velocity Measurement Summary

TABLE D1
FLOW VELOCITY MEASUREMENT SUMMARY - SEEPS AND CREEKS INVESTIGATION
Chemours Fayetteville Works, North Carolina

Location[1]	Date	Measurement Point[2]	Distance Along Measured Cross Section (ft)	Measured Depth to Water[3] (ft)	Measured Depth to Creek Bottom (ft)	Calculated Water Column Depth (ft)	Calculated Creek Cell Area[4] (ft^2)	Measured Creek Velocity (ft/s)	Calculated Discharge Through Creek Cell Area[5,6] (ft^3/s)
Old Outfall Channel (OLDOF-02)	February 1, 2019	A	0.5	--	12	--	0.50	--	--
Old Outfall Channel (OLDOF-02)	February 1, 2019	B	1.0	12	12	0.15	0.50	0.075	0.080
Old Outfall Channel (OLDOF-02)	February 1, 2019	C	1.5	12	12	0.21	0.50	0.11	0.11
Old Outfall Channel (OLDOF-02)	February 1, 2019	D	2.0	12	12	0.19	0.50	0.095	0.13
Old Outfall Channel (OLDOF-02)	February 1, 2019	E	2.5	12	13	0.43	0.50	0.22	0.33
Old Outfall Channel (OLDOF-02)	February 1, 2019	F	3.0	12	13	0.42	0.50	0.21	0.43
Old Outfall Channel (OLDOF-02)	February 1, 2019	G	3.5	12	13	0.50	0.50	0.25	0.46
Old Outfall Channel (OLDOF-02)	February 1, 2019	H	4.0	12	13	0.33	0.50	0.17	0.18
Old Outfall Channel (OLDOF-02)	February 1, 2019	I	4.5	12	12	0.30	0.50	0.15	0.16
Old Outfall Channel (OLDOF-02)	February 1, 2019	J	5.0	12	13	0.37	0.50	0.19	0.078
Georgia Branch 04 (SW-GB-04)	May 9, 2019	A	1.0	dry	11	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	B	2.0	dry	11	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	C	3.0	dry	11	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	D	4.0	dry	11	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	E	5.0	dry	11	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	F	6.0	dry	12	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	G	7.0	dry	12	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	H	8.0	12	13	0.9	0.87	-0.020	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	I	9.0	12	13	1.2	1.0	-0.010	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	J	10	12	14	1.7	1.5	-0.010	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	K	11	12	14	1.8	1.8	0.030	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	L	12	12	14	1.9	1.8	0.030	0.053
Georgia Branch 04 (SW-GB-04)	May 9, 2019	M	13	12	14	1.7	1.8	0.040	0.055
Georgia Branch 04 (SW-GB-04)	May 9, 2019	N	14	12	14	1.6	1.7	0.050	0.062
Georgia Branch 04 (SW-GB-04)	May 9, 2019	O	15	12	14	1.7	1.7	0.040	0.075
Georgia Branch 04 (SW-GB-04)	May 9, 2019	P	16	12	14	1.6	1.6	0.0	0.075
Georgia Branch 04 (SW-GB-04)	May 9, 2019	Q	17	12	13	1.0	1.3	-0.010	-
Georgia Branch 04 (SW-GB-04)	May 9, 2019	R	18	12	13	1.0	1.0	0.0	-
Georgia Branch 04 (SW-GB-04)	May 9, 2019	S	19	dry	13	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	T	20	dry	12	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	U	21	dry	12	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	V	22	dry	12	dry	--	--	--
Georgia Branch 04 (SW-GB-04)	May 9, 2019	W	23	dry	11	dry	--	--	--
Willis Creek 04 (SW-WC-04)	May 9, 2019	Culvert Edge	0.0	9.2	10	1.0	--	--	--
Willis Creek 04 (SW-WC-04)	May 9, 2019	A	0.5	9.2	10	1.0	0.52	0.66	0.34
Willis Creek 04 (SW-WC-04)	May 9, 2019	B	1.0	9.2	10	1.1	0.52	0.60	0.33
Willis Creek 04 (SW-WC-04)	May 9, 2019	C	1.5	9.1	10	1.1	0.55	0.55	0.31
Willis Creek 04 (SW-WC-04)	May 9, 2019	D	2.0	9.1	10	1.0	0.52	0.53	0.28
Willis Creek 04 (SW-WC-04)	May 9, 2019	E	2.5	9.1	10	0.91	0.47	0.59	0.26
Willis Creek 04 (SW-WC-04)	May 9, 2019	F	3.0	9.2	10	0.82	0.43	0.59	0.26
Willis Creek 04 (SW-WC-04)	May 9, 2019	G	3.5	9.1	10	0.83	0.41	0.53	0.23
Willis Creek 04 (SW-WC-04)	May 9, 2019	H	4.0	9.1	10	1.0	0.45	0.59	0.25
Willis Creek 04 (SW-WC-04)	May 9, 2019	I	4.5	9.1	10	0.95	0.48	0.48	0.26
Willis Creek 04 (SW-WC-04)	May 9, 2019	J	5.0	9.1	10	0.91	0.47	0.53	0.23
Willis Creek 04 (SW-WC-04)	May 9, 2019	K	5.5	9.1	10	0.92	0.46	0.53	0.24
Willis Creek 04 (SW-WC-04)	May 9, 2019	L	6.0	9.2	10	0.85	0.44	0.50	0.23
Willis Creek 04 (SW-WC-04)	May 9, 2019	M	7.0	9.2	10	0.80	0.82	0.43	0.38

TABLE D1
FLOW VELOCITY MEASUREMENT SUMMARY - SEEPS AND CREEKS INVESTIGATION
Chemours Fayetteville Works, North Carolina

Location[1]	Date	Measurement Point[2]	Distance Along Measured Cross Section (ft)	Measured Depth to Water[3] (ft)	Measured Depth to Creek Bottom (ft)	Calculated Water Column Depth (ft)	Calculated Creek Cell Area[4] (ft^2)	Measured Creek Velocity (ft/s)	Calculated Discharge Through Creek Cell Area[5,6] (ft^3/s)
Willis Creek 04 (SW-WC-04)	May 9, 2019	N	7.5	9.1	10	0.82	0.41	0.41	0.17
Willis Creek 04 (SW-WC-04)	May 9, 2019	O	8.0	9.1	9.9	0.79	0.40	0.32	0.15
Willis Creek 04 (SW-WC-04)	May 9, 2019	Culvert Edge	8.5	9.1	9.9	0.79	0.40	--	0.13
Old Outfall Channel (OLDOF-02)	May 24, 2019	N	0.0	dry	12	dry	--	--	0.0
Old Outfall Channel (OLDOF-02)	May 24, 2019	A	1.4	12	12	0.21	0.15	0.83	0.12
Old Outfall Channel (OLDOF-02)	May 24, 2019	B	3.1	12	13	0.38	0.49	1.2	0.60
Old Outfall Channel (OLDOF-02)	May 24, 2019	C	4.3	12	13	0.29	0.42	1.3	0.55
Old Outfall Channel (OLDOF-02)	May 24, 2019	S	5.6	dry	12	dry	0.18	1.2	0.22
Georgia Branch A-A'	May 29, 2019	W	0.0	dry	--	dry	--	--	0.0
Georgia Branch A-A'	May 29, 2019	A	1.0	--	--	0.46	0.23	0.95	0.22
Georgia Branch A-A'	May 29, 2019	B	5.9	--	--	0.38	2.0	1.1	2.3
Georgia Branch A-A'	May 29, 2019	C	9.1	--	--	0.40	1.3	1.4	1.7
Georgia Branch A-A'	May 29, 2019	D	12	--	--	0.19	0.70	1.3	0.95
Georgia Branch A-A'	May 29, 2019	E	14	dry	--	dry	0.23	1.0	0.24
Georgia Branch B-B'	May 29, 2019	W	0.0	dry	--	dry	--	--	0.0
Georgia Branch B-B'	May 29, 2019	A	2.3	--	--	0.33	0.37	1.4	0.51
Georgia Branch B-B'	May 29, 2019	B	4.9	--	--	0.29	0.82	1.3	1.1
Georgia Branch B-B'	May 29, 2019	C	8.8	--	--	0.27	1.1	1.3	1.5
Georgia Branch B-B'	May 29, 2019	D	12	--	--	0.40	1.2	1.5	1.8
Georgia Branch B-B'	May 29, 2019	E	16	dry	--	dry	0.71	1.5	1.1
Georgia Branch C-C'	May 29, 2019	W	0.0	dry	--	dry	--	--	0.0
Georgia Branch C-C'	May 29, 2019	A	2.0	--	--	0.33	0.34	1.7	0.58
Georgia Branch C-C'	May 29, 2019	B	5.1	--	--	0.29	0.95	1.3	1.3
Georgia Branch C-C'	May 29, 2019	C	9.5	--	--	0.27	1.2	0.98	1.2
Georgia Branch C-C'	May 29, 2019	D	13	--	--	0.40	1.1	1.2	1.3
Georgia Branch C-C'	May 29, 2019	E	15	dry	--	dry	0.45	1.4	0.64
Willis Creek A-A'	May 30, 2019	W	0.0	dry	--	dry	--	--	0.0
Willis Creek A-A'	May 30, 2019	A	2.6	--	--	0.78	1.0	0.28	0.29
Willis Creek A-A'	May 30, 2019	B	5.2	--	--	0.75	2.0	0.63	1.2
Willis Creek A-A'	May 30, 2019	C	8.0	--	--	0.79	2.1	0.97	2.1
Willis Creek A-A'	May 30, 2019	D	11	--	--	0.77	2.2	0.88	1.9
Willis Creek A-A'	May 30, 2019	E	14	dry	--	dry	1.2	0.80	0.98
Willis Creek B-B'	May 30, 2019	W	0.0	dry	--	dry	--	--	0.0
Willis Creek B-B'	May 30, 2019	A	3.0	--	--	0.51	0.77	0.10	0.077
Willis Creek B-B'	May 30, 2019	B	9.7	--	--	1.31	6.1	0.49	3.0
Willis Creek B-B'	May 30, 2019	C	17	--	--	0.52	6.3	0.60	3.8
Willis Creek B-B'	May 30, 2019	D	23	--	--	0.66	3.5	-0.012	-0.042
Willis Creek B-B'	May 30, 2019	E	26	dry	--	dry	1.1	-0.31	-0.34
Old Outfall Channel (OLDOF-02)	June 7, 2019	N	0.0	dry	12	dry	--	--	0.0
Old Outfall Channel (OLDOF-02)	June 7, 2019	A	1.2	12	12	0.19	0.11	0.90	0.10
Old Outfall Channel (OLDOF-02)	June 7, 2019	B	2.3	12	13	0.17	0.20	1.3	0.27
Old Outfall Channel (OLDOF-02)	June 7, 2019	C	3.5	12	13	0.38	0.30	1.7	0.52
Old Outfall Channel (OLDOF-02)	June 7, 2019	S	4.2	dry	12	dry	0.14	1.7	0.24
Georgia Branch A-A'	June 7, 2019	W	0.0	dry	12	dry	--	--	0.0
Georgia Branch A-A'	June 7, 2019	A	1.7	--	--	0.50	0.43	1.3	0.55
Georgia Branch A-A'	June 7, 2019	B	4.6	--	--	0.31	1.2	1.3	1.5
Georgia Branch A-A'	June 7, 2019	C	8.6	--	--	0.36	1.3	1.4	1.9
Georgia Branch A-A'	June 7, 2019	D	12	--	--	0.15	0.83	1.3	1.1
Georgia Branch A-A'	June 7, 2019	E	14	dry	12	dry	0.15	0.76	0.11

TABLE D1
FLOW VELOCITY MEASUREMENT SUMMARY - SEEPS AND CREEKS INVESTIGATION
Chemours Fayetteville Works, North Carolina

Location[1]	Date	Measurement Point[2]	Distance Along Measured Cross Section (ft)	Measured Depth to Water[3] (ft)	Measured Depth to Creek Bottom (ft)	Calculated Water Column Depth (ft)	Calculated Creek Cell Area[4] (ft^2)	Measured Creek Velocity (ft/s)	Calculated Discharge Through Creek Cell Area[5,6] (ft^3/s)
Georgia Branch B-B'	June 7, 2019	W	0.0	dry	--	dry	--	--	0.0
Georgia Branch B-B'	June 7, 2019	A	1.2	--	--	0.46	0.28	1.1	0.32
Georgia Branch B-B'	June 7, 2019	B	5.0	--	--	0.36	1.6	1.2	1.9
Georgia Branch B-B'	June 7, 2019	C	9.0	--	--	0.34	1.4	1.5	2.1
Georgia Branch B-B'	June 7, 2019	D	13	--	--	0.29	1.3	1.3	1.6
Georgia Branch B-B'	June 7, 2019	E	15	dry	--	dry	0.29	0.90	0.26
Georgia Branch C-C'	June 7, 2019	W	0.0	dry	--	dry	--	--	0.0
Georgia Branch C-C'	June 7, 2019	A	2.5	--	--	0.35	0.45	1.4	0.62
Georgia Branch C-C'	June 7, 2019	B	5.8	--	--	0.44	1.3	1.5	1.9
Georgia Branch C-C'	June 7, 2019	C	9.8	--	--	0.17	1.2	1.5	1.8
Georgia Branch C-C'	June 7, 2019	D	14	--	--	0.27	0.88	1.3	1.1
Georgia Branch C-C'	June 7, 2019	E	16	dry	--	dry	0.27	1.2	0.33
Willis Creek A-A'	June 7, 2019	W	0.0	dry	--	dry	--	--	0.0
Willis Creek A-A'	June 7, 2019	A	1.7	--	--	0.73	0.61	-0.14	-0.082
Willis Creek A-A'	June 7, 2019	B	4.3	--	--	1.2	2.6	0.42	1.1
Willis Creek A-A'	June 7, 2019	C	8.0	--	--	1.8	5.5	1.3	6.9
Willis Creek A-A'	June 7, 2019	D	11	--	--	1.5	4.0	1.2	5.0
Willis Creek A-A'	June 7, 2019	E	13	dry	--	dry	1.8	0.84	1.5

Acronyms:
-- - data not measured or calculated
ft - feet
ft^2 - square feet
ft^3/s - cubic feet per second

Notes:
1 - Locations A-A', B-B', or C-C' represent triplicate measurements from the same stream, taken along a transect with A furthest upstream and C furthest downstream, each transect a few feet apart. Measurement locations along these transects marked 'E' or 'W' stand for an east or west starting location.
2 - Measurement points E and W represent the eastern and western edge of a transect, respectively. Measurement points A through D are taken along the transect between points E and W at the listed distances along the cross section.
3 - The depth for the velocity meter was determined based on one depth measurement.
4 - Measurement cell areas are calculated assuming a rectangular geometry based on distances between measurement points and the calculated water column depths. A measurement cell is an areal section from the width of the river channel.
5 - Discharge is calculated as creek velocity (ft/s) multiplied by the cross sectional area of each measurement cell (ft^2).
6 - Data for the channel's edge points are extrapolated from adjacent locations.

APPENDIX E
Salt Dilution Gauging Summary

APPENDIX E1: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/1/2019	3:26:17 PM	347.8	-
2/1/2019	3:26:18 PM	347.9	-
2/1/2019	3:26:19 PM	347.9	-
2/1/2019	3:26:20 PM	347.9	-
2/1/2019	3:26:21 PM	347.8	-
2/1/2019	3:26:22 PM	347.9	-
2/1/2019	3:26:23 PM	348	-
2/1/2019	3:26:24 PM	348	-
2/1/2019	3:26:25 PM	348	-
2/1/2019	3:26:26 PM	348	-
2/1/2019	3:26:27 PM	348.1	-
2/1/2019	3:26:28 PM	348	-
2/1/2019	3:26:29 PM	347.9	-
2/1/2019	3:26:30 PM	347.8	-
2/1/2019	3:26:31 PM	347.8	-
2/1/2019	3:26:32 PM	347.7	-
2/1/2019	3:26:33 PM	347.7	-
2/1/2019	3:26:34 PM	347.6	-
2/1/2019	3:26:35 PM	347.5	-
2/1/2019	3:26:36 PM	347.3	-
2/1/2019	3:26:37 PM	347.2	-
2/1/2019	3:26:38 PM	347.1	-
2/1/2019	3:26:39 PM	346.9	-
2/1/2019	3:26:40 PM	346.7	-
2/1/2019	3:26:41 PM	346.6	-
2/1/2019	3:26:42 PM	346.5	-
2/1/2019	3:26:43 PM	346.5	-
2/1/2019	3:26:44 PM	346.6	-
2/1/2019	3:26:45 PM	347.5	-
2/1/2019	3:26:46 PM	414.9	67.4
2/1/2019	3:26:47 PM	474.3	126.8
2/1/2019	3:26:48 PM	629.4	281.9
2/1/2019	3:26:49 PM	795.2	447.7
2/1/2019	3:26:50 PM	1246.1	898.6
2/1/2019	3:26:51 PM	1337.1	989.6
2/1/2019	3:26:52 PM	1497.7	1150.2
2/1/2019	3:26:53 PM	1557.2	1209.7
2/1/2019	3:26:54 PM	1613.9	1266.4
2/1/2019	3:26:55 PM	1624.2	1276.7
2/1/2019	3:26:56 PM	1507	1159.5
2/1/2019	3:26:57 PM	1410.5	1063.0
2/1/2019	3:26:58 PM	1217.4	869.9
2/1/2019	3:26:59 PM	1062.3	714.8
2/1/2019	3:27:00 PM	947.5	600.0
2/1/2019	3:27:01 PM	851.8	504.3
2/1/2019	3:27:02 PM	779.5	432.0
2/1/2019	3:27:03 PM	673.1	325.6
2/1/2019	3:27:04 PM	560.2	212.7
2/1/2019	3:27:05 PM	553.1	205.6
2/1/2019	3:27:06 PM	513.1	165.6
2/1/2019	3:27:07 PM	494.2	146.7
2/1/2019	3:27:08 PM	476.7	129.2
2/1/2019	3:27:09 PM	468.5	121.0
2/1/2019	3:27:10 PM	459.7	112.2
2/1/2019	3:27:11 PM	451.3	103.8
2/1/2019	3:27:12 PM	442.7	95.2
2/1/2019	3:27:13 PM	437.5	90.0
2/1/2019	3:27:14 PM	431.9	84.4
2/1/2019	3:27:15 PM	426.8	79.3
2/1/2019	3:27:16 PM	421.5	74.0
2/1/2019	3:27:17 PM	417.4	69.9
2/1/2019	3:27:18 PM	413.2	65.7
2/1/2019	3:27:19 PM	409.9	62.4
2/1/2019	3:27:20 PM	404.8	57.3
2/1/2019	3:27:21 PM	397.2	49.7
2/1/2019	3:27:22 PM	389.5	42.0
2/1/2019	3:27:23 PM	382.4	34.9
2/1/2019	3:27:24 PM	378.8	31.3
2/1/2019	3:27:25 PM	374	26.5
2/1/2019	3:27:26 PM	369.8	22.3

APPENDIX E1: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/1/2019	3:27:27 PM	367	19.5
2/1/2019	3:27:28 PM	364.4	16.9
2/1/2019	3:27:29 PM	362.6	15.1
2/1/2019	3:27:30 PM	360.6	13.1
2/1/2019	3:27:31 PM	359.2	11.7
2/1/2019	3:27:32 PM	357.8	-
2/1/2019	3:27:33 PM	356.6	-
2/1/2019	3:27:34 PM	355.5	-
2/1/2019	3:27:35 PM	354.6	-
2/1/2019	3:27:36 PM	353.7	-
2/1/2019	3:27:37 PM	353.2	-
2/1/2019	3:27:38 PM	352.7	-
2/1/2019	3:27:39 PM	352.4	-
2/1/2019	3:27:40 PM	352	-
2/1/2019	3:27:41 PM	351.7	-
2/1/2019	3:27:42 PM	351.4	-
2/1/2019	3:27:43 PM	351.1	-
2/1/2019	3:27:44 PM	350.8	-
2/1/2019	3:27:45 PM	350.5	-
2/1/2019	3:27:46 PM	350.3	-
2/1/2019	3:27:47 PM	350.1	-
2/1/2019	3:27:48 PM	349.9	-
2/1/2019	3:27:49 PM	349.7	-
2/1/2019	3:27:50 PM	349.4	-
2/1/2019	3:27:51 PM	349	-
2/1/2019	3:27:52 PM	348.6	-
2/1/2019	3:27:53 PM	348.3	-
2/1/2019	3:27:54 PM	348.1	-
2/1/2019	3:27:55 PM	347.9	-
2/1/2019	3:27:56 PM	347.6	-
2/1/2019	3:27:57 PM	347.4	-
2/1/2019	3:27:58 PM	347.3	-
2/1/2019	3:27:59 PM	347	-

APPENDIX E1: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-2 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-2 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-2	1441	342.3	13.9
OLDOF-2 TEST-2	1443	343.7	13.9
OLDOF-2 TEST-2	1444	340.7	13.9
OLDOF-2 TEST-2	1445	340.8	13.9
Average		341.9	(µS/cms)
Geometric Mean		341.9	(µS/cms)
Average (pre-test)		347.5	(µS/cms)
Average (post-test)		350.9	(µS/cms)

Table E3 OLDOF-2 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-2	100	204	19.3
OLDOF-2 TEST-2	1,000	1,804	20.4
OLDOF-2 TEST-2	10,000	15,938	20.1
OLDOF-2 TEST-2	100,000	123,591	19.7

Table E4 OLDOF-2 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.2395	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	15,541.0	(s) . (µS/cms)
Calculated Flow Rate	Q	23.9	L/s
		379.8	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E2: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-4 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/1/2019	3:55:16 PM	337.1	-
2/1/2019	3:55:17 PM	336.9	-
2/1/2019	3:55:18 PM	336.8	-
2/1/2019	3:55:19 PM	337	-
2/1/2019	3:55:20 PM	337	-
2/1/2019	3:55:21 PM	336.6	-
2/1/2019	3:55:22 PM	336.2	-
2/1/2019	3:55:23 PM	335.9	-
2/1/2019	3:55:24 PM	335.8	-
2/1/2019	3:55:25 PM	335.7	-
2/1/2019	3:55:26 PM	335.6	-
2/1/2019	3:55:27 PM	335.6	-
2/1/2019	3:55:28 PM	335.5	-
2/1/2019	3:55:29 PM	335.5	-
2/1/2019	3:55:30 PM	335.4	-
2/1/2019	3:55:31 PM	335.2	-
2/1/2019	3:55:32 PM	335.1	-
2/1/2019	3:55:33 PM	335.1	-
2/1/2019	3:55:34 PM	335.1	-
2/1/2019	3:55:35 PM	335.1	-
2/1/2019	3:55:36 PM	335.1	-
2/1/2019	3:55:37 PM	335.1	-
2/1/2019	3:55:38 PM	334.9	-
2/1/2019	3:55:39 PM	334.6	-
2/1/2019	3:55:40 PM	334.5	-
2/1/2019	3:55:41 PM	334.7	-
2/1/2019	3:55:42 PM	335.6	-
2/1/2019	3:55:43 PM	337.5	-
2/1/2019	3:55:44 PM	416.6	80.9
2/1/2019	3:55:45 PM	540.5	204.8
2/1/2019	3:55:46 PM	656.9	321.2
2/1/2019	3:55:47 PM	739.7	404.0
2/1/2019	3:55:48 PM	1052.7	717.0
2/1/2019	3:55:49 PM	1171.5	835.8
2/1/2019	3:55:50 PM	1324.7	989.0
2/1/2019	3:55:51 PM	1382.1	1046.4
2/1/2019	3:55:52 PM	1423	1087.3
2/1/2019	3:55:53 PM	1452.7	1117.0
2/1/2019	3:55:54 PM	1565.2	1229.5
2/1/2019	3:55:55 PM	1541.5	1205.8
2/1/2019	3:55:56 PM	1398	1062.3
2/1/2019	3:55:57 PM	1338.6	1002.9
2/1/2019	3:55:58 PM	1094	758.3
2/1/2019	3:55:59 PM	982.6	646.9
2/1/2019	3:56:00 PM	877.9	542.2
2/1/2019	3:56:01 PM	754.8	419.1
2/1/2019	3:56:02 PM	663.6	327.9
2/1/2019	3:56:03 PM	509.4	173.7
2/1/2019	3:56:04 PM	543.1	207.4
2/1/2019	3:56:05 PM	531.6	195.9
2/1/2019	3:56:06 PM	521.9	186.2
2/1/2019	3:56:07 PM	511.4	175.7
2/1/2019	3:56:08 PM	448.6	112.9
2/1/2019	3:56:09 PM	430.5	94.8
2/1/2019	3:56:10 PM	414.6	78.9
2/1/2019	3:56:11 PM	409.1	73.4
2/1/2019	3:56:12 PM	400.4	64.7
2/1/2019	3:56:13 PM	394.4	58.7
2/1/2019	3:56:14 PM	390.9	55.2
2/1/2019	3:56:15 PM	387	51.3
2/1/2019	3:56:16 PM	384.6	48.9
2/1/2019	3:56:17 PM	382.2	46.5
2/1/2019	3:56:18 PM	380.3	44.6
2/1/2019	3:56:19 PM	378.7	43.0
2/1/2019	3:56:20 PM	376.2	40.5
2/1/2019	3:56:21 PM	374.8	39.1
2/1/2019	3:56:22 PM	373.2	37.5
2/1/2019	3:56:23 PM	371.4	35.7
2/1/2019	3:56:24 PM	369.9	34.2
2/1/2019	3:56:25 PM	365.8	30.1

APPENDIX E2: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-4 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/1/2019	3:56:26 PM	362.7	27.0
2/1/2019	3:56:27 PM	360.3	24.6
2/1/2019	3:56:28 PM	358.1	-
2/1/2019	3:56:29 PM	356.4	-
2/1/2019	3:56:30 PM	354.5	-
2/1/2019	3:56:31 PM	353.2	-
2/1/2019	3:56:32 PM	352	-
2/1/2019	3:56:33 PM	351.2	-
2/1/2019	3:56:34 PM	350.7	-
2/1/2019	3:56:35 PM	350.2	-
2/1/2019	3:56:36 PM	350	-
2/1/2019	3:56:37 PM	350	-
2/1/2019	3:56:38 PM	350	-

APPENDIX E2: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-4 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-2 TEST-4 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-4	1441	342.3	13.9
OLDOF-2 TEST-4	1443	343.7	13.9
OLDOF-2 TEST-4	1444	340.7	13.9
OLDOF-2 TEST-4	1445	340.8	13.9
Average		341.9	(µS/cms)
Geometric Mean		341.9	(µS/cms)
Average (pre-test)		338.5	(µS/cms)
Average (post-test)		351.0	(µS/cms)

Table E3 OLDOF-2 TEST-4 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-4	100	204	19.3
OLDOF-2 TEST-4	1,000	1,804	20.4
OLDOF-2 TEST-4	10,000	15,938	20.1
OLDOF-2 TEST-4	100,000	123,591	19.7

Table E4 OLDOF-2 TEST-4 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,100	mg
Slope of Calibration Curve	K	1.2395	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	15,977.9	(s) . (µS/cms)
Calculated Flow Rate	Q	23.3	L/s
		369.5	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E3: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-5 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-5 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/1/2019	3:59:04 PM	318.7	-
2/1/2019	3:59:05 PM	318.5	-
2/1/2019	3:59:06 PM	318.3	-
2/1/2019	3:59:07 PM	318.2	-
2/1/2019	3:59:08 PM	318.2	-
2/1/2019	3:59:09 PM	318.1	-
2/1/2019	3:59:10 PM	318.0	-
2/1/2019	3:59:11 PM	317.9	-
2/1/2019	3:59:12 PM	317.8	-
2/1/2019	3:59:13 PM	317.6	-
2/1/2019	3:59:14 PM	317.4	-
2/1/2019	3:59:15 PM	317.3	-
2/1/2019	3:59:16 PM	317.2	-
2/1/2019	3:59:17 PM	317.1	-
2/1/2019	3:59:18 PM	317.0	-
2/1/2019	3:59:19 PM	317.0	-
2/1/2019	3:59:20 PM	316.9	-
2/1/2019	3:59:21 PM	316.8	-
2/1/2019	3:59:22 PM	316.7	-
2/1/2019	3:59:23 PM	316.6	-
2/1/2019	3:59:24 PM	316.6	-
2/1/2019	3:59:25 PM	316.5	-
2/1/2019	3:59:26 PM	316.4	-
2/1/2019	3:59:27 PM	316.4	-
2/1/2019	3:59:28 PM	316.3	-
2/1/2019	3:59:29 PM	316.3	-
2/1/2019	3:59:30 PM	317.0	-
2/1/2019	3:59:31 PM	499.5	182.2
2/1/2019	3:59:32 PM	576.6	259.3
2/1/2019	3:59:33 PM	785.0	467.7
2/1/2019	3:59:34 PM	1184.0	866.7
2/1/2019	3:59:35 PM	1099.3	782.0
2/1/2019	3:59:36 PM	1428.3	1111.0
2/1/2019	3:59:37 PM	1486.1	1168.8
2/1/2019	3:59:38 PM	1586.7	1269.4
2/1/2019	3:59:39 PM	1571.5	1254.2
2/1/2019	3:59:40 PM	1342.9	1025.6
2/1/2019	3:59:41 PM	1169.6	852.3
2/1/2019	3:59:42 PM	1058.4	741.1
2/1/2019	3:59:43 PM	890.9	573.6
2/1/2019	3:59:44 PM	766.6	449.3
2/1/2019	3:59:45 PM	674.1	356.8
2/1/2019	3:59:46 PM	513.2	195.9
2/1/2019	3:59:47 PM	522.0	204.7
2/1/2019	3:59:48 PM	496.0	178.7
2/1/2019	3:59:49 PM	418.2	100.9
2/1/2019	3:59:50 PM	392.8	75.5
2/1/2019	3:59:51 PM	374.4	57.1
2/1/2019	3:59:52 PM	369.9	52.6
2/1/2019	3:59:53 PM	365.9	48.6
2/1/2019	3:59:54 PM	361.2	43.9
2/1/2019	3:59:55 PM	356.9	39.6
2/1/2019	3:59:56 PM	354.4	37.1
2/1/2019	3:59:57 PM	351.6	34.3
2/1/2019	3:59:58 PM	349.4	32.1
2/1/2019	3:59:59 PM	347.3	30.0
2/1/2019	4:00:00 PM	345.8	28.5
2/1/2019	4:00:01 PM	344.3	27.0
2/1/2019	4:00:02 PM	343.1	25.8
2/1/2019	4:00:03 PM	341.8	24.5
2/1/2019	4:00:04 PM	340.8	23.5
2/1/2019	4:00:05 PM	339.2	21.9
2/1/2019	4:00:06 PM	336.6	19.3
2/1/2019	4:00:07 PM	334.3	17.0
2/1/2019	4:00:08 PM	332.7	15.4
2/1/2019	4:00:09 PM	330.4	13.1
2/1/2019	4:00:10 PM	329.0	11.7
2/1/2019	4:00:11 PM	327.8	10.5
2/1/2019	4:00:12 PM	325.9	8.6
2/1/2019	4:00:13 PM	324.3	-

APPENDIX E3: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-5 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-5 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/1/2019	4:00:14 PM	322.9	-
2/1/2019	4:00:15 PM	321.4	-
2/1/2019	4:00:16 PM	320.1	-
2/1/2019	4:00:17 PM	318.8	-
2/1/2019	4:00:18 PM	317.6	-
2/1/2019	4:00:19 PM	316.4	-
2/1/2019	4:00:20 PM	315.3	-
2/1/2019	4:00:21 PM	314.3	-
2/1/2019	4:00:22 PM	313.5	-
2/1/2019	4:00:23 PM	312.8	-
2/1/2019	4:00:24 PM	312.4	-
2/1/2019	4:00:25 PM	312.1	-
2/1/2019	4:00:26 PM	311.8	-
2/1/2019	4:00:27 PM	311.6	-
2/1/2019	4:00:28 PM	311.4	-
2/1/2019	4:00:29 PM	311.2	-
2/1/2019	4:00:30 PM	311.0	-
2/1/2019	4:00:31 PM	310.8	-
2/1/2019	4:00:32 PM	310.6	-
2/1/2019	4:00:33 PM	310.4	-
2/1/2019	4:00:34 PM	310.2	-
2/1/2019	4:00:35 PM	310.0	-

APPENDIX E3: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-5 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-2 TEST-5 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-5	1441	342.3	13.9
OLDOF-2 TEST-5	1443	343.7	13.9
OLDOF-2 TEST-5	1444	340.7	13.9
OLDOF-2 TEST-5	1445	340.8	13.9
Average		341.9	(µS/cms)
Geometric Mean		341.9	(µS/cms)
Average (pre-test)		332.5	(µS/cms)
Average (post-test)		313.9	(µS/cms)

Table E3 OLDOF-2 TEST-5 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-5	100	204	19.3
OLDOF-2 TEST-5	1,000	1,804	20.4
OLDOF-2 TEST-5	10,000	15,938	20.1
OLDOF-2 TEST-5	100,000	123,591	19.7

Table E4 OLDOF-2 TEST-5 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.2395	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	12,738.3	(s) . (µS/cms)
Calculated Flow Rate	Q	29.2	L/s
		463.4	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table E1 OLDOF-2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:22:59 AM	344.2	-
5/24/2019	10:23:00 AM	344.3	-
5/24/2019	10:23:01 AM	344.3	-
5/24/2019	10:23:02 AM	344.3	-
5/24/2019	10:23:03 AM	344.3	-
5/24/2019	10:23:04 AM	344.3	-
5/24/2019	10:23:05 AM	344.3	-
5/24/2019	10:23:06 AM	344.3	-
5/24/2019	10:23:07 AM	344.2	-
5/24/2019	10:23:08 AM	344.2	-
5/24/2019	10:23:09 AM	344.2	-
5/24/2019	10:23:10 AM	344.2	-
5/24/2019	10:23:11 AM	344.2	-
5/24/2019	10:23:12 AM	344.2	-
5/24/2019	10:23:13 AM	344.2	-
5/24/2019	10:23:14 AM	344.2	-
5/24/2019	10:23:15 AM	344.2	-
5/24/2019	10:23:16 AM	344.2	-
5/24/2019	10:23:17 AM	344.2	-
5/24/2019	10:23:18 AM	344.2	-
5/24/2019	10:23:19 AM	344.2	-
5/24/2019	10:23:20 AM	344.2	-
5/24/2019	10:23:21 AM	344.2	-
5/24/2019	10:23:22 AM	344.2	-
5/24/2019	10:23:23 AM	344.9	0.7
5/24/2019	10:23:24 AM	556.7	212.5
5/24/2019	10:23:25 AM	738.4	394.2
5/24/2019	10:23:26 AM	1397.3	1053.1
5/24/2019	10:23:27 AM	1679.4	1335.2
5/24/2019	10:23:28 AM	2151.7	1807.5
5/24/2019	10:23:29 AM	2238.9	1894.7
5/24/2019	10:23:30 AM	2176.3	1832.1
5/24/2019	10:23:31 AM	1947.2	1603.0
5/24/2019	10:23:32 AM	1551.4	1207.2
5/24/2019	10:23:33 AM	1340.2	996.0
5/24/2019	10:23:34 AM	1212.8	868.6
5/24/2019	10:23:35 AM	837.7	493.5
5/24/2019	10:23:36 AM	718.7	374.5
5/24/2019	10:23:37 AM	631	286.8
5/24/2019	10:23:38 AM	475.5	131.3
5/24/2019	10:23:39 AM	454.4	110.2
5/24/2019	10:23:40 AM	417.9	73.7
5/24/2019	10:23:41 AM	397	52.8
5/24/2019	10:23:42 AM	393.4	49.2
5/24/2019	10:23:43 AM	386.3	42.1
5/24/2019	10:23:44 AM	380.8	36.6
5/24/2019	10:23:45 AM	375.9	31.7
5/24/2019	10:23:46 AM	372.3	28.1
5/24/2019	10:23:47 AM	369.9	25.7
5/24/2019	10:23:48 AM	367.5	23.3
5/24/2019	10:23:49 AM	365.9	21.7
5/24/2019	10:23:50 AM	364.2	20.0
5/24/2019	10:23:51 AM	363	18.8
5/24/2019	10:23:52 AM	361.8	17.6
5/24/2019	10:23:53 AM	360.9	16.7
5/24/2019	10:23:54 AM	358.5	14.3
5/24/2019	10:23:55 AM	355.6	11.4
5/24/2019	10:23:56 AM	353.3	9.1
5/24/2019	10:23:57 AM	352.1	7.9
5/24/2019	10:23:58 AM	351.1	6.9
5/24/2019	10:23:59 AM	350.4	6.2
5/24/2019	10:24:00 AM	349.7	5.5
5/24/2019	10:24:01 AM	349.2	5.0
5/24/2019	10:24:02 AM	348.8	4.6
5/24/2019	10:24:03 AM	348.5	4.3
5/24/2019	10:24:04 AM	348.1	3.9
5/24/2019	10:24:05 AM	347.8	3.6
5/24/2019	10:24:06 AM	347.6	3.4
5/24/2019	10:24:07 AM	347.4	3.2
5/24/2019	10:24:08 AM	347.2	3.0

APPENDIX E4: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-1 May
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:24:09 AM	347	2.8
5/24/2019	10:24:10 AM	346.9	2.7
5/24/2019	10:24:11 AM	346.7	2.5
5/24/2019	10:24:12 AM	346.6	2.4
5/24/2019	10:24:13 AM	346.5	2.3
5/24/2019	10:24:14 AM	346.4	2.2
5/24/2019	10:24:15 AM	346.3	2.1
5/24/2019	10:24:16 AM	346.2	2.0
5/24/2019	10:24:17 AM	346.1	1.9
5/24/2019	10:24:18 AM	346	1.8
5/24/2019	10:24:19 AM	345.9	1.7
5/24/2019	10:24:20 AM	345.9	1.7
5/24/2019	10:24:21 AM	345.8	1.6
5/24/2019	10:24:22 AM	345.8	1.6
5/24/2019	10:24:23 AM	345.7	1.5
5/24/2019	10:24:24 AM	345.6	1.4
5/24/2019	10:24:25 AM	345.6	1.4
5/24/2019	10:24:26 AM	345.5	1.3
5/24/2019	10:24:27 AM	345.5	1.3
5/24/2019	10:24:28 AM	345.5	1.3
5/24/2019	10:24:29 AM	345.4	-
5/24/2019	10:24:30 AM	345.4	-
5/24/2019	10:24:31 AM	345.4	-
5/24/2019	10:24:32 AM	345.3	-
5/24/2019	10:24:33 AM	345.3	-

Table E2 OLDOF-2 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-1	1013	343.8	20.6
OLDOF-2 TEST-1	1014	344.1	20.6
OLDOF-2 TEST-1	1015	343.0	20.6
OLDOF-2 TEST-1	1016	344.2	20.6
OLDOF-2 TEST-1	1016	344.2	20.6
Average		343.9	(µS/cms)
Geo Mean		343.9	(µS/cms)
Average (pre-test)		344.2	(µS/cms)
Average (post-test)		345.4	(µS/cms)

Table E3 OLDOF-2 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-1	1	110	25.8
OLDOF-2 TEST-1	10	185	25.8
OLDOF-2 TEST-1	100	443	25.8
OLDOF-2 TEST-1	1,000	3,402	25.7
OLDOF-2 TEST-1	10,000	15,357	25.8
OLDOF-2 TEST-1	100,000	125,545	26.0

Table E4 OLDOF-2 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.2584	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	15,187.0	(s) . (µS/cms)
Calculated Flow Rate	Q	24.9	L/s
		394.6	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table E1 OLDOF-2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:30:22 AM	344.7	-
5/24/2019	10:30:23 AM	344.7	-
5/24/2019	10:30:24 AM	344.7	-
5/24/2019	10:30:25 AM	344.7	-
5/24/2019	10:30:26 AM	344.7	-
5/24/2019	10:30:27 AM	344.7	-
5/24/2019	10:30:28 AM	344.7	-
5/24/2019	10:30:29 AM	344.7	-
5/24/2019	10:30:30 AM	344.7	-
5/24/2019	10:30:31 AM	344.7	-
5/24/2019	10:30:32 AM	344.7	-
5/24/2019	10:30:33 AM	344.7	-
5/24/2019	10:30:34 AM	344.7	-
5/24/2019	10:30:35 AM	344.7	-
5/24/2019	10:30:36 AM	344.7	-
5/24/2019	10:30:37 AM	344.7	-
5/24/2019	10:30:38 AM	344.7	-
5/24/2019	10:30:39 AM	344.8	-
5/24/2019	10:30:40 AM	344.8	-
5/24/2019	10:30:41 AM	344.8	-
5/24/2019	10:30:42 AM	344.8	-
5/24/2019	10:30:43 AM	345.0	-
5/24/2019	10:30:44 AM	490.5	145.8
5/24/2019	10:30:45 AM	720.9	376.2
5/24/2019	10:30:46 AM	1557.4	1212.7
5/24/2019	10:30:47 AM	2090.1	1745.4
5/24/2019	10:30:48 AM	2642.1	2297.4
5/24/2019	10:30:49 AM	2860.0	2515.3
5/24/2019	10:30:50 AM	2728.0	2383.3
5/24/2019	10:30:51 AM	2400.6	2055.9
5/24/2019	10:30:52 AM	1814.0	1469.3
5/24/2019	10:30:53 AM	1582.0	1237.3
5/24/2019	10:30:54 AM	1316.6	971.9
5/24/2019	10:30:55 AM	894.2	549.5
5/24/2019	10:30:56 AM	706.5	361.8
5/24/2019	10:30:57 AM	638.1	293.4
5/24/2019	10:30:58 AM	499.5	154.8
5/24/2019	10:30:59 AM	487.7	143.0
5/24/2019	10:31:00 AM	417.5	72.8
5/24/2019	10:31:01 AM	391.5	46.8
5/24/2019	10:31:02 AM	375.6	30.9
5/24/2019	10:31:03 AM	371.7	27.0
5/24/2019	10:31:04 AM	367.8	23.1
5/24/2019	10:31:05 AM	365.4	20.7
5/24/2019	10:31:06 AM	363.1	18.4
5/24/2019	10:31:07 AM	361.2	16.5
5/24/2019	10:31:08 AM	360.0	15.3
5/24/2019	10:31:09 AM	358.9	14.2
5/24/2019	10:31:10 AM	358.1	13.4
5/24/2019	10:31:11 AM	357.3	12.6
5/24/2019	10:31:12 AM	356.7	12.0
5/24/2019	10:31:13 AM	356.1	11.4
5/24/2019	10:31:14 AM	355.6	10.9
5/24/2019	10:31:15 AM	355.1	10.4
5/24/2019	10:31:16 AM	354.3	9.6
5/24/2019	10:31:17 AM	352.9	8.2
5/24/2019	10:31:18 AM	352.0	7.3
5/24/2019	10:31:19 AM	351.3	6.6
5/24/2019	10:31:20 AM	350.8	6.1
5/24/2019	10:31:21 AM	350.3	5.6
5/24/2019	10:31:22 AM	349.9	5.2
5/24/2019	10:31:23 AM	349.5	4.8
5/24/2019	10:31:24 AM	349.2	4.5
5/24/2019	10:31:25 AM	348.8	4.1
5/24/2019	10:31:26 AM	348.5	3.8
5/24/2019	10:31:27 AM	348.3	3.6
5/24/2019	10:31:28 AM	348.0	3.3
5/24/2019	10:31:29 AM	347.8	3.1
5/24/2019	10:31:30 AM	347.6	2.9
5/24/2019	10:31:31 AM	347.5	2.8

APPENDIX E5: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-2 May
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:31:32 AM	347.3	2.6
5/24/2019	10:31:33 AM	347.2	2.5
5/24/2019	10:31:34 AM	347.0	2.3
5/24/2019	10:31:35 AM	346.9	2.2
5/24/2019	10:31:36 AM	346.8	2.1
5/24/2019	10:31:37 AM	346.7	2.0
5/24/2019	10:31:38 AM	346.6	1.9
5/24/2019	10:31:39 AM	346.6	1.9
5/24/2019	10:31:40 AM	346.6	1.9
5/24/2019	10:31:41 AM	346.6	1.9
5/24/2019	10:31:42 AM	346.6	1.9
5/24/2019	10:31:43 AM	346.6	1.9
5/24/2019	10:31:44 AM	346.6	1.9
5/24/2019	10:31:45 AM	346.6	1.9
5/24/2019	10:31:46 AM	346.6	1.9
5/24/2019	10:31:47 AM	346.6	1.9
5/24/2019	10:31:48 AM	346.5	1.8
5/24/2019	10:31:49 AM	346.5	1.8

APPENDIX E5: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-2 May
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-2 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-2	1013	343.8	20.6
OLDOF-2 TEST-2	1014	344.1	20.6
OLDOF-2 TEST-2	1015	343.0	20.6
OLDOF-2 TEST-2	1016	344.2	20.6
OLDOF-2 TEST-2	1016	344.2	20.6
Average		343.9	(µS/cms)
Geo Mean		343.9	(µS/cms)
Average (pre-test)		345.3	(µS/cms)
Average (post-test)		346.6	(µS/cms)

Table E3 OLDOF-2 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-2	1	110	25.8
OLDOF-2 TEST-2	10	185	25.8
OLDOF-2 TEST-2	100	443	25.8
OLDOF-2 TEST-2	1,000	3,402	25.7
OLDOF-2 TEST-2	10,000	15,357	25.8
OLDOF-2 TEST-2	100,000	125,545	26.0

Table E4 OLDOF-2 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,300	mg
Slope of Calibration Curve	K	1.2584	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	18,385.1	(s) . (µS/cms)
Calculated Flow Rate	Q	20.6	L/s
		326.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table E1 OLDOF-2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:36:53 AM	345.3	-
5/24/2019	10:36:54 AM	345.3	-
5/24/2019	10:36:55 AM	345.3	-
5/24/2019	10:36:56 AM	345.3	-
5/24/2019	10:36:57 AM	345.3	-
5/24/2019	10:36:58 AM	345.3	-
5/24/2019	10:36:59 AM	345.3	-
5/24/2019	10:37:00 AM	345.3	-
5/24/2019	10:37:01 AM	345.3	-
5/24/2019	10:37:02 AM	345.3	-
5/24/2019	10:37:03 AM	345.3	-
5/24/2019	10:37:04 AM	345.3	-
5/24/2019	10:37:05 AM	345.3	-
5/24/2019	10:37:06 AM	345.3	-
5/24/2019	10:37:07 AM	345.3	-
5/24/2019	10:37:08 AM	345.3	-
5/24/2019	10:37:09 AM	345.3	-
5/24/2019	10:37:10 AM	345.3	-
5/24/2019	10:37:11 AM	345.3	-
5/24/2019	10:37:12 AM	345.3	-
5/24/2019	10:37:13 AM	345.3	-
5/24/2019	10:37:14 AM	345.3	-
5/24/2019	10:37:15 AM	345.3	-
5/24/2019	10:37:16 AM	345.3	-
5/24/2019	10:37:17 AM	346.3	1.0
5/24/2019	10:37:18 AM	502.6	157.3
5/24/2019	10:37:19 AM	724.2	378.9
5/24/2019	10:37:20 AM	1586.5	1241.2
5/24/2019	10:37:21 AM	1941.2	1595.9
5/24/2019	10:37:22 AM	2747.3	2402.0
5/24/2019	10:37:23 AM	2873.0	2527.7
5/24/2019	10:37:24 AM	2774.2	2428.9
5/24/2019	10:37:25 AM	2505.0	2159.7
5/24/2019	10:37:26 AM	2128.0	1782.7
5/24/2019	10:37:27 AM	1689.4	1344.1
5/24/2019	10:37:28 AM	1373.3	1028.0
5/24/2019	10:37:29 AM	985.9	640.6
5/24/2019	10:37:30 AM	754.5	409.2
5/24/2019	10:37:31 AM	646.6	301.3
5/24/2019	10:37:32 AM	481.5	136.2
5/24/2019	10:37:33 AM	445.7	100.4
5/24/2019	10:37:34 AM	412.9	67.6
5/24/2019	10:37:35 AM	389.9	44.6
5/24/2019	10:37:36 AM	383.0	37.7
5/24/2019	10:37:37 AM	376.8	31.5
5/24/2019	10:37:38 AM	371.7	26.4
5/24/2019	10:37:39 AM	368.0	22.7
5/24/2019	10:37:40 AM	365.5	20.2
5/24/2019	10:37:41 AM	363.4	18.1
5/24/2019	10:37:42 AM	361.9	16.6
5/24/2019	10:37:43 AM	360.5	15.2
5/24/2019	10:37:44 AM	359.5	14.2
5/24/2019	10:37:45 AM	358.5	13.2
5/24/2019	10:37:46 AM	357.7	12.4
5/24/2019	10:37:47 AM	357.0	11.7
5/24/2019	10:37:48 AM	355.7	10.4
5/24/2019	10:37:49 AM	353.2	7.9
5/24/2019	10:37:50 AM	351.8	6.5
5/24/2019	10:37:51 AM	350.8	5.5
5/24/2019	10:37:52 AM	350.1	4.8
5/24/2019	10:37:53 AM	349.6	4.3
5/24/2019	10:37:54 AM	349.2	3.9
5/24/2019	10:37:55 AM	348.8	3.5
5/24/2019	10:37:56 AM	348.5	3.2
5/24/2019	10:37:57 AM	348.3	3.0
5/24/2019	10:37:58 AM	348.1	2.8
5/24/2019	10:37:59 AM	347.8	2.5
5/24/2019	10:38:00 AM	347.6	2.3
5/24/2019	10:38:01 AM	347.5	2.2
5/24/2019	10:38:02 AM	347.3	2.0

APPENDIX E6: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-3 May
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:38:03 AM	347.2	1.9
5/24/2019	10:38:04 AM	347.1	1.8
5/24/2019	10:38:05 AM	347.0	1.7
5/24/2019	10:38:06 AM	346.9	1.6
5/24/2019	10:38:07 AM	346.9	1.6
5/24/2019	10:38:08 AM	346.8	1.5
5/24/2019	10:38:09 AM	346.7	1.4
5/24/2019	10:38:10 AM	346.7	1.4
5/24/2019	10:38:11 AM	346.6	1.3
5/24/2019	10:38:12 AM	346.5	1.2
5/24/2019	10:38:13 AM	346.5	1.2

Table E2 OLDOF-2 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-3	1013	343.8	20.6
OLDOF-2 TEST-3	1014	344.1	20.6
OLDOF-2 TEST-3	1015	343.0	20.6
OLDOF-2 TEST-3	1016	344.2	20.6
OLDOF-2 TEST-3	1016	344.2	20.6
Average		343.9	(µS/cms)
Geo Mean		343.9	(µS/cms)
Average (pre-test)		344.2	(µS/cms)
Average (post-test)		345.4	(µS/cms)

Table E3 OLDOF-2 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-3	1	110	25.8
OLDOF-2 TEST-3	10	185	25.8
OLDOF-2 TEST-3	100	443	25.8
OLDOF-2 TEST-3	1,000	3,402	25.7
OLDOF-2 TEST-3	10,000	15,357	25.8
OLDOF-2 TEST-3	100,000	125,545	26.0

Table E4 OLDOF-2 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,600	mg
Slope of Calibration Curve	K	1.2584	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	19,068.6	(s) . (µS/cms)
Calculated Flow Rate	Q	19.8	L/s
		314.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table E1 OLDOF-2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:43:39 AM	345.8	-
5/24/2019	10:43:40 AM	345.8	-
5/24/2019	10:43:41 AM	345.8	-
5/24/2019	10:43:42 AM	345.8	-
5/24/2019	10:43:43 AM	345.8	-
5/24/2019	10:43:44 AM	345.8	-
5/24/2019	10:43:45 AM	345.8	-
5/24/2019	10:43:46 AM	345.7	-
5/24/2019	10:43:47 AM	345.7	-
5/24/2019	10:43:48 AM	345.7	-
5/24/2019	10:43:49 AM	345.7	-
5/24/2019	10:43:50 AM	345.7	-
5/24/2019	10:43:51 AM	345.7	-
5/24/2019	10:43:52 AM	345.7	-
5/24/2019	10:43:53 AM	345.7	-
5/24/2019	10:43:54 AM	345.6	-
5/24/2019	10:43:55 AM	345.6	-
5/24/2019	10:43:56 AM	345.6	-
5/24/2019	10:43:57 AM	345.6	-
5/24/2019	10:43:58 AM	345.6	-
5/24/2019	10:43:59 AM	345.6	-
5/24/2019	10:44:00 AM	345.6	-
5/24/2019	10:44:01 AM	346.0	0.3
5/24/2019	10:44:02 AM	503.7	158.0
5/24/2019	10:44:03 AM	725.2	379.5
5/24/2019	10:44:04 AM	1537.4	1191.7
5/24/2019	10:44:05 AM	1707.3	1361.6
5/24/2019	10:44:06 AM	2279.0	1933.3
5/24/2019	10:44:07 AM	2461.3	2115.6
5/24/2019	10:44:08 AM	2361.2	2015.5
5/24/2019	10:44:09 AM	2161.2	1815.5
5/24/2019	10:44:10 AM	1860.8	1515.1
5/24/2019	10:44:11 AM	1498.4	1152.7
5/24/2019	10:44:12 AM	1268.8	923.1
5/24/2019	10:44:13 AM	889.7	544.0
5/24/2019	10:44:14 AM	771.3	425.6
5/24/2019	10:44:15 AM	639.5	293.8
5/24/2019	10:44:16 AM	412.4	66.7
5/24/2019	10:44:17 AM	482.8	137.1
5/24/2019	10:44:18 AM	467.5	121.8
5/24/2019	10:44:19 AM	404.4	58.7
5/24/2019	10:44:20 AM	384.8	39.1
5/24/2019	10:44:21 AM	375.1	29.4
5/24/2019	10:44:22 AM	370.8	25.1
5/24/2019	10:44:23 AM	367.5	21.8
5/24/2019	10:44:24 AM	364.6	18.9
5/24/2019	10:44:25 AM	362.7	17.0
5/24/2019	10:44:26 AM	361.3	15.6
5/24/2019	10:44:27 AM	359.9	14.2
5/24/2019	10:44:28 AM	358.8	13.1
5/24/2019	10:44:29 AM	357.9	12.2
5/24/2019	10:44:30 AM	357.1	11.4
5/24/2019	10:44:31 AM	356.5	10.8
5/24/2019	10:44:32 AM	355.9	10.2
5/24/2019	10:44:33 AM	355.4	9.7
5/24/2019	10:44:34 AM	354.9	9.2
5/24/2019	10:44:35 AM	354.6	8.9
5/24/2019	10:44:36 AM	353.3	7.6
5/24/2019	10:44:37 AM	352.4	6.7
5/24/2019	10:44:38 AM	351.6	5.9
5/24/2019	10:44:39 AM	351.0	5.3
5/24/2019	10:44:40 AM	350.5	4.8
5/24/2019	10:44:41 AM	350.1	4.4
5/24/2019	10:44:42 AM	349.7	4.0
5/24/2019	10:44:43 AM	349.5	3.8
5/24/2019	10:44:44 AM	349.2	3.5
5/24/2019	10:44:45 AM	349.0	3.3
5/24/2019	10:44:46 AM	348.7	3.0
5/24/2019	10:44:47 AM	348.5	2.8
5/24/2019	10:44:48 AM	348.4	2.7

APPENDIX E7: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-4 May
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:44:49 AM	348.2	2.5
5/24/2019	10:44:50 AM	348.0	2.3
5/24/2019	10:44:51 AM	347.9	2.2
5/24/2019	10:44:52 AM	347.8	2.1
5/24/2019	10:44:53 AM	347.7	2.0
5/24/2019	10:44:54 AM	347.6	1.9
5/24/2019	10:44:55 AM	347.5	1.8
5/24/2019	10:44:56 AM	347.4	1.7
5/24/2019	10:44:57 AM	347.3	1.6
5/24/2019	10:44:58 AM	347.2	1.5
5/24/2019	10:44:59 AM	347.2	1.5
5/24/2019	10:45:00 AM	347.1	1.4
5/24/2019	10:45:01 AM	347.0	1.3
5/24/2019	10:45:02 AM	347.0	1.3
5/24/2019	10:45:03 AM	347.0	1.3
5/24/2019	10:45:04 AM	346.9	1.2
5/24/2019	10:45:05 AM	346.9	1.2
5/24/2019	10:45:06 AM	346.8	1.1
5/24/2019	10:45:07 AM	346.8	1.1
5/24/2019	10:45:08 AM	346.8	1.1
5/24/2019	10:45:09 AM	346.7	1.0
5/24/2019	10:45:10 AM	346.7	1.0
5/24/2019	10:45:11 AM	346.7	1.0
5/24/2019	10:45:12 AM	346.6	0.9
5/24/2019	10:45:13 AM	346.6	0.9
5/24/2019	10:45:14 AM	346.6	0.9
5/24/2019	10:45:15 AM	346.6	0.9
5/24/2019	10:45:16 AM	346.5	0.8
5/24/2019	10:45:17 AM	346.5	0.8
5/24/2019	10:45:18 AM	346.5	0.8
5/24/2019	10:45:19 AM	346.4	0.7
5/24/2019	10:45:20 AM	346.4	0.7
5/24/2019	10:45:21 AM	346.4	0.7
5/24/2019	10:45:22 AM	346.3	0.6
5/24/2019	10:45:23 AM	346.3	0.6
5/24/2019	10:45:24 AM	346.3	0.6
5/24/2019	10:45:25 AM	346.3	0.6
5/24/2019	10:45:26 AM	346.3	0.6
5/24/2019	10:45:27 AM	346.3	0.6
5/24/2019	10:45:28 AM	346.2	0.5
5/24/2019	10:45:29 AM	346.2	0.5
5/24/2019	10:45:30 AM	346.2	0.5
5/24/2019	10:45:31 AM	346.2	0.5
5/24/2019	10:45:32 AM	346.2	0.5
5/24/2019	10:45:33 AM	346.2	0.5
5/24/2019	10:45:34 AM	346.2	0.5

Table E2 OLDOF-2 TEST-4 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-4	1013	343.8	20.6
OLDOF-2 TEST-4	1014	344.1	20.6
OLDOF-2 TEST-4	1015	343.0	20.6
OLDOF-2 TEST-4	1016	344.2	20.6
OLDOF-2 TEST-4	1016	344.2	20.6
Average		343.9	(µS/cms)
Geo Mean		343.9	(µS/cms)
Average (pre-test)		345.7	(µS/cms)
Average (post-test)		346.2	(µS/cms)

Table E3 OLDOF-2 TEST-4 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-4	1	110	25.8
OLDOF-2 TEST-4	10	185	25.8
OLDOF-2 TEST-4	100	443	25.8
OLDOF-2 TEST-4	1,000	3,402	25.7
OLDOF-2 TEST-4	10,000	15,357	25.8
OLDOF-2 TEST-4	100,000	125,545	26.0

Table E4 OLDOF-2 TEST-4 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.2584	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	16,584.3	(s) . (µS/cms)
Calculated Flow Rate	Q	22.8	L/s
		361.6	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E8: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-5 May
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-5 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:48:44 AM	346.0	-
5/24/2019	10:48:45 AM	345.9	-
5/24/2019	10:48:46 AM	345.9	-
5/24/2019	10:48:47 AM	345.9	-
5/24/2019	10:48:48 AM	345.9	-
5/24/2019	10:48:49 AM	345.9	-
5/24/2019	10:48:50 AM	345.9	-
5/24/2019	10:48:51 AM	345.8	-
5/24/2019	10:48:52 AM	345.8	-
5/24/2019	10:48:53 AM	345.8	-
5/24/2019	10:48:54 AM	345.8	-
5/24/2019	10:48:55 AM	345.8	-
5/24/2019	10:48:56 AM	345.8	-
5/24/2019	10:48:57 AM	345.8	-
5/24/2019	10:48:58 AM	345.8	-
5/24/2019	10:48:59 AM	345.7	-
5/24/2019	10:49:00 AM	345.7	-
5/24/2019	10:49:01 AM	345.7	-
5/24/2019	10:49:02 AM	345.7	-
5/24/2019	10:49:03 AM	345.7	-
5/24/2019	10:49:04 AM	345.7	-
5/24/2019	10:49:05 AM	346.3	-
5/24/2019	10:49:06 AM	470.0	124.2
5/24/2019	10:49:07 AM	723.1	377.3
5/24/2019	10:49:08 AM	1276.6	930.8
5/24/2019	10:49:09 AM	1587.8	1242.0
5/24/2019	10:49:10 AM	2389.2	2043.4
5/24/2019	10:49:11 AM	2407.9	2062.1
5/24/2019	10:49:12 AM	2398.0	2052.2
5/24/2019	10:49:13 AM	2377.3	2031.5
5/24/2019	10:49:14 AM	1970.3	1624.5
5/24/2019	10:49:15 AM	1680.1	1334.3
5/24/2019	10:49:16 AM	1333.4	987.6
5/24/2019	10:49:17 AM	1051.4	705.6
5/24/2019	10:49:18 AM	896.8	551.0
5/24/2019	10:49:19 AM	678.6	332.8
5/24/2019	10:49:20 AM	618.1	272.3
5/24/2019	10:49:21 AM	460.2	114.4
5/24/2019	10:49:22 AM	466.7	120.9
5/24/2019	10:49:23 AM	450.0	104.2
5/24/2019	10:49:24 AM	436.1	90.3
5/24/2019	10:49:25 AM	382.9	37.1
5/24/2019	10:49:26 AM	372.9	27.1
5/24/2019	10:49:27 AM	367.2	21.4
5/24/2019	10:49:28 AM	365.5	19.7
5/24/2019	10:49:29 AM	363.5	17.7
5/24/2019	10:49:30 AM	361.9	16.1
5/24/2019	10:49:31 AM	360.4	14.6
5/24/2019	10:49:32 AM	359.3	13.5
5/24/2019	10:49:33 AM	358.6	12.8
5/24/2019	10:49:34 AM	357.8	12.0
5/24/2019	10:49:35 AM	357.2	11.4
5/24/2019	10:49:36 AM	356.6	10.8
5/24/2019	10:49:37 AM	356.0	10.2
5/24/2019	10:49:38 AM	355.6	9.8
5/24/2019	10:49:39 AM	355.2	9.4
5/24/2019	10:49:40 AM	354.7	8.9
5/24/2019	10:49:41 AM	354.1	8.3
5/24/2019	10:49:42 AM	353.1	7.3
5/24/2019	10:49:43 AM	352.4	6.6
5/24/2019	10:49:44 AM	351.8	6.0
5/24/2019	10:49:45 AM	351.3	5.5
5/24/2019	10:49:46 AM	350.8	5.0
5/24/2019	10:49:47 AM	350.5	4.7
5/24/2019	10:49:48 AM	350.1	4.3
5/24/2019	10:49:49 AM	349.8	4.0
5/24/2019	10:49:50 AM	349.5	3.7
5/24/2019	10:49:51 AM	349.3	3.5
5/24/2019	10:49:52 AM	349.1	3.3
5/24/2019	10:49:53 AM	348.9	3.1

APPENDIX E8: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-5 May
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-5 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/24/2019	10:49:54 AM	348.8	3.0
5/24/2019	10:49:55 AM	348.6	2.8
5/24/2019	10:49:56 AM	348.5	2.7
5/24/2019	10:49:57 AM	348.3	2.5
5/24/2019	10:49:58 AM	348.2	2.4
5/24/2019	10:49:59 AM	348.0	2.2
5/24/2019	10:50:00 AM	348.0	2.2
5/24/2019	10:50:01 AM	347.8	2.0
5/24/2019	10:50:02 AM	347.7	1.9
5/24/2019	10:50:03 AM	347.6	1.8
5/24/2019	10:50:04 AM	347.5	1.7
5/24/2019	10:50:05 AM	347.4	1.6
5/24/2019	10:50:06 AM	347.3	1.5
5/24/2019	10:50:07 AM	347.3	1.5
5/24/2019	10:50:08 AM	347.2	1.4
5/24/2019	10:50:09 AM	347.1	1.3
5/24/2019	10:50:10 AM	347.1	1.3
5/24/2019	10:50:11 AM	347.0	1.2
5/24/2019	10:50:12 AM	347.0	1.2
5/24/2019	10:50:13 AM	347.0	1.2
5/24/2019	10:50:14 AM	346.9	1.1
5/24/2019	10:50:15 AM	346.9	1.1
5/24/2019	10:50:16 AM	346.8	1.0
5/24/2019	10:50:17 AM	346.8	1.0

Table E2 OLDOF-2 TEST-5 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-5	1013	343.8	20.6
OLDOF-2 TEST-5	1014	344.1	20.6
OLDOF-2 TEST-5	1015	343.0	20.6
OLDOF-2 TEST-5	1016	344.2	20.6
OLDOF-2 TEST-5	1016	344.2	20.6
Average		343.9	(µS/cms)
Geo Mean		343.9	(µS/cms)
Average (pre-test)		345.8	(µS/cms)
Average (post-test)		346.9	(µS/cms)

Table E3 OLDOF-2 TEST-5 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-5	1	110	25.8
OLDOF-2 TEST-5	10	185	25.8
OLDOF-2 TEST-5	100	443	25.8
OLDOF-2 TEST-5	1,000	3,402	25.7
OLDOF-2 TEST-5	10,000	15,357	25.8
OLDOF-2 TEST-5	100,000	125,545	26.0

Table E4 OLDOF-2 TEST-5 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,300	mg
Slope of Calibration Curve	K	1.2584	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	17,458.5	(s) . (µS/cms)
Calculated Flow Rate	Q	21.7	L/s
		343.6	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E9: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-1 June
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	10:52:08 AM	339.2	-
6/7/2019	10:52:09 AM	339.2	-
6/7/2019	10:52:10 AM	339.1	-
6/7/2019	10:52:11 AM	339.1	-
6/7/2019	10:52:12 AM	501.3	162.1
6/7/2019	10:52:13 AM	1537.1	1198.0
6/7/2019	10:52:14 AM	1883.7	1544.5
6/7/2019	10:52:15 AM	1892.0	1552.9
6/7/2019	10:52:16 AM	1879.9	1540.7
6/7/2019	10:52:17 AM	1521.7	1182.6
6/7/2019	10:52:18 AM	1352.5	1013.3
6/7/2019	10:52:19 AM	1228.6	889.5
6/7/2019	10:52:20 AM	984.7	645.5
6/7/2019	10:52:21 AM	803.8	464.7
6/7/2019	10:52:22 AM	681.4	342.2
6/7/2019	10:52:23 AM	634.8	295.7
6/7/2019	10:52:24 AM	629.9	290.7
6/7/2019	10:52:25 AM	629.9	290.8
6/7/2019	10:52:26 AM	477.8	138.6
6/7/2019	10:52:27 AM	477.8	138.7
6/7/2019	10:52:28 AM	420.5	81.3
6/7/2019	10:52:29 AM	386.5	47.4
6/7/2019	10:52:30 AM	376.4	37.2
6/7/2019	10:52:31 AM	370.1	30.9
6/7/2019	10:52:32 AM	366.0	26.9
6/7/2019	10:52:33 AM	362.8	23.6
6/7/2019	10:52:34 AM	360.8	21.7
6/7/2019	10:52:35 AM	358.8	19.6
6/7/2019	10:52:36 AM	357.3	18.2
6/7/2019	10:52:37 AM	355.9	16.7
6/7/2019	10:52:38 AM	354.9	15.8
6/7/2019	10:52:39 AM	354.1	14.9
6/7/2019	10:52:40 AM	354.1	15.0
6/7/2019	10:52:41 AM	382.8	43.6
6/7/2019	10:52:42 AM	382.8	43.7
6/7/2019	10:52:43 AM	368.1	28.9
6/7/2019	10:52:44 AM	342.9	3.8
6/7/2019	10:52:45 AM	342.9	3.7
6/7/2019	10:52:46 AM	342.7	3.6
6/7/2019	10:52:47 AM	342.6	3.4

Table E2 OLDOF-2 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-1	1038	342.5	20.5
OLDOF-2 TEST-1	1039	342.0	20.5
OLDOF-2 TEST-1	1039	341.9	20.5
OLDOF-2 TEST-1	1040	341.1	20.5
Average		341.9	(µS/cms)
Geo Mean		341.9	(µS/cms)
Average (pre-test)		339.2	(µS/cms)
Average (post-test)		356.9	(µS/cms)

Table E3 OLDOF-2 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-1	100	246	25.2
OLDOF-2 TEST-1	1,000	2,167	25.2
OLDOF-2 TEST-1	10,000	17,538	25.2
OLDOF-2 TEST-1	100,000	136,514	25.2

Table E4 OLDOF-2 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	299,500	mg
Slope of Calibration Curve	K	1.3691	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	12,190.5	(s) . (µS/cms)
Calculated Flow Rate	Q	33.6	L/s
		533.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E10: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-2 June
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:26:38 AM	375.5	-
6/7/2019	11:26:39 AM	371.1	-
6/7/2019	11:26:40 AM	367.5	-
6/7/2019	11:26:41 AM	365.1	-
6/7/2019	11:26:42 AM	363.1	-
6/7/2019	11:26:43 AM	361.6	-
6/7/2019	11:26:44 AM	360.0	-
6/7/2019	11:26:45 AM	358.9	-
6/7/2019	11:26:46 AM	357.8	-
6/7/2019	11:26:47 AM	353.3	-
6/7/2019	11:26:48 AM	350.4	-
6/7/2019	11:26:49 AM	348.3	-
6/7/2019	11:26:50 AM	346.9	-
6/7/2019	11:26:51 AM	346.4	-
6/7/2019	11:26:52 AM	346.2	-
6/7/2019	11:26:53 AM	345.9	-
6/7/2019	11:26:54 AM	345.6	-
6/7/2019	11:26:55 AM	345.5	-
6/7/2019	11:26:56 AM	345.3	-
6/7/2019	11:26:57 AM	345.2	-
6/7/2019	11:26:58 AM	345.1	-
6/7/2019	11:26:59 AM	345.0	-
6/7/2019	11:27:00 AM	344.9	-
6/7/2019	11:27:01 AM	344.8	-
6/7/2019	11:27:02 AM	344.7	-
6/7/2019	11:27:03 AM	344.7	-
6/7/2019	11:27:04 AM	344.6	-
6/7/2019	11:27:05 AM	344.5	-
6/7/2019	11:27:06 AM	344.7	-
6/7/2019	11:27:07 AM	398.4	51.2
6/7/2019	11:27:08 AM	537.2	190.0
6/7/2019	11:27:09 AM	741.4	394.2
6/7/2019	11:27:10 AM	1234.7	887.5
6/7/2019	11:27:11 AM	1452.5	1105.3
6/7/2019	11:27:12 AM	1874.9	1527.7
6/7/2019	11:27:13 AM	1941.3	1594.1
6/7/2019	11:27:14 AM	1923.7	1576.5
6/7/2019	11:27:15 AM	1695.4	1348.2
6/7/2019	11:27:16 AM	1593.1	1245.9
6/7/2019	11:27:17 AM	1308.1	960.9
6/7/2019	11:27:18 AM	1105.0	757.8
6/7/2019	11:27:19 AM	857.4	510.2
6/7/2019	11:27:20 AM	757.6	410.4
6/7/2019	11:27:21 AM	604.9	257.7
6/7/2019	11:27:22 AM	508.1	160.9
6/7/2019	11:27:23 AM	525.5	178.3
6/7/2019	11:27:24 AM	467.9	120.7
6/7/2019	11:27:25 AM	418.1	70.9
6/7/2019	11:27:26 AM	399.9	52.7
6/7/2019	11:27:27 AM	382.4	35.2
6/7/2019	11:27:28 AM	379.9	32.7
6/7/2019	11:27:29 AM	373.2	26.0
6/7/2019	11:27:30 AM	369.0	21.8
6/7/2019	11:27:31 AM	365.8	18.6
6/7/2019	11:27:32 AM	363.7	16.5
6/7/2019	11:27:33 AM	361.7	14.5
6/7/2019	11:27:34 AM	360.2	13.0
6/7/2019	11:27:35 AM	358.9	11.7
6/7/2019	11:27:36 AM	358.2	11.0
6/7/2019	11:27:37 AM	357.1	9.9
6/7/2019	11:27:38 AM	356.4	9.2
6/7/2019	11:27:39 AM	355.6	8.4
6/7/2019	11:27:40 AM	354.8	7.6
6/7/2019	11:27:41 AM	352.8	5.6
6/7/2019	11:27:42 AM	351.3	4.1
6/7/2019	11:27:43 AM	350.4	3.2
6/7/2019	11:27:44 AM	349.4	2.2
6/7/2019	11:27:45 AM	348.7	1.5
6/7/2019	11:27:46 AM	348.1	0.9
6/7/2019	11:27:47 AM	347.6	0.4

APPENDIX E10: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-2 June
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:27:48 AM	347.3	0.1
6/7/2019	11:27:49 AM	346.9	-0.31
6/7/2019	11:27:50 AM	346.7	-0.51
6/7/2019	11:27:51 AM	346.5	-0.71
6/7/2019	11:27:52 AM	346.3	-0.91
6/7/2019	11:27:53 AM	346.1	-1.11
6/7/2019	11:27:54 AM	345.9	-1.31
6/7/2019	11:27:55 AM	345.8	-1.41
6/7/2019	11:27:56 AM	345.6	-1.61
6/7/2019	11:27:57 AM	345.5	-1.71
6/7/2019	11:27:58 AM	345.4	-1.81
6/7/2019	11:27:59 AM	345.3	-1.91
6/7/2019	11:28:00 AM	345.1	-2.11
6/7/2019	11:28:01 AM	345.1	-2.11
6/7/2019	11:28:02 AM	345.0	-2.21
6/7/2019	11:28:03 AM	344.9	-2.31
6/7/2019	11:28:04 AM	344.8	-2.41
6/7/2019	11:28:05 AM	344.7	-2.51
6/7/2019	11:28:06 AM	344.7	-2.51
6/7/2019	11:28:07 AM	344.6	-2.61
6/7/2019	11:28:08 AM	344.5	-2.71
6/7/2019	11:28:09 AM	344.4	-2.81
6/7/2019	11:28:10 AM	344.4	-2.81
6/7/2019	11:28:11 AM	344.3	-2.91
6/7/2019	11:28:12 AM	344.2	-3.01
6/7/2019	11:28:13 AM	344.2	-3.01
6/7/2019	11:28:14 AM	344.1	-3.11
6/7/2019	11:28:15 AM	344.1	-3.11
6/7/2019	11:28:16 AM	344.0	-3.21
6/7/2019	11:28:17 AM	344.0	-3.21
6/7/2019	11:28:18 AM	343.9	-3.3
6/7/2019	11:28:19 AM	343.9	-3.3
6/7/2019	11:28:20 AM	343.8	-3.4
6/7/2019	11:28:21 AM	343.8	-3.4
6/7/2019	11:28:22 AM	343.7	-3.5
6/7/2019	11:28:23 AM	343.7	-3.5
6/7/2019	11:28:24 AM	343.7	-3.5
6/7/2019	11:28:25 AM	343.6	-3.6
6/7/2019	11:28:26 AM	343.6	-3.6
6/7/2019	11:28:27 AM	343.5	-3.7
6/7/2019	11:28:28 AM	343.5	-3.7
6/7/2019	11:28:29 AM	343.4	-3.8
6/7/2019	11:28:30 AM	343.4	-3.8
6/7/2019	11:28:31 AM	343.3	-3.9
6/7/2019	11:28:32 AM	343.3	-3.9
6/7/2019	11:28:33 AM	343.2	-4.0
6/7/2019	11:28:34 AM	343.2	-4.0
6/7/2019	11:28:35 AM	343.1	-4.1
6/7/2019	11:28:36 AM	343.1	-4.1

Table E2 OLDOF-2 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-2	1038	342.5	20.5
OLDOF-2 TEST-2	1039	342.0	20.5
OLDOF-2 TEST-2	1039	341.9	20.5
OLDOF-2 TEST-2	1040	341.1	20.5
Average		341.9	(µS/cms)
Geo Mean		341.9	(µS/cms)
Average (pre-test)		347.2	(µS/cms)
Average (post-test)		346.3	(µS/cms)

Table E3 OLDOF-2 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-2	100	246	25.2
OLDOF-2 TEST-2	1,000	2,167	25.2
OLDOF-2 TEST-2	10,000	17,538	25.2
OLDOF-2 TEST-2	100,000	136,514	25.2

Table E4 OLDOF-2 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	299,600	mg
Slope of Calibration Curve	K	1.3691	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	13,522.2	(s) . (µS/cms)
Calculated Flow Rate	Q	30.3	L/s
		481.5	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table E1 OLDOF-2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:37:18 AM	375.0	-
6/7/2019	11:37:19 AM	372.1	-
6/7/2019	11:37:20 AM	370.0	-
6/7/2019	11:37:21 AM	368.1	-
6/7/2019	11:37:22 AM	366.7	-
6/7/2019	11:37:23 AM	365.2	-
6/7/2019	11:37:24 AM	363.8	-
6/7/2019	11:37:25 AM	362.3	-
6/7/2019	11:37:26 AM	357.4	-
6/7/2019	11:37:27 AM	354.8	-
6/7/2019	11:37:28 AM	353.7	-
6/7/2019	11:37:29 AM	351.7	-
6/7/2019	11:37:30 AM	350.7	-
6/7/2019	11:37:31 AM	349.8	-
6/7/2019	11:37:32 AM	349.1	-
6/7/2019	11:37:33 AM	348.3	-
6/7/2019	11:37:34 AM	347.7	-
6/7/2019	11:37:35 AM	347.1	-
6/7/2019	11:37:36 AM	346.6	-
6/7/2019	11:37:37 AM	346.2	-
6/7/2019	11:37:38 AM	345.8	-
6/7/2019	11:37:39 AM	345.6	-
6/7/2019	11:37:40 AM	346.2	-
6/7/2019	11:37:41 AM	514.9	165.5
6/7/2019	11:37:42 AM	709.1	359.7
6/7/2019	11:37:43 AM	1388.4	1039.0
6/7/2019	11:37:44 AM	1861.3	1511.9
6/7/2019	11:37:45 AM	2220.0	1870.6
6/7/2019	11:37:46 AM	2512.3	2162.9
6/7/2019	11:37:47 AM	2560.0	2210.6
6/7/2019	11:37:48 AM	2512.2	2162.8
6/7/2019	11:37:49 AM	2194.6	1845.2
6/7/2019	11:37:50 AM	1763.4	1414.0
6/7/2019	11:37:51 AM	1546.6	1197.2
6/7/2019	11:37:52 AM	1094.5	745.1
6/7/2019	11:37:53 AM	891.8	542.4
6/7/2019	11:37:54 AM	756.0	406.6
6/7/2019	11:37:55 AM	674.6	325.2
6/7/2019	11:37:56 AM	471.8	122.4
6/7/2019	11:37:57 AM	479.9	130.5
6/7/2019	11:37:58 AM	436.6	87.2
6/7/2019	11:37:59 AM	419.2	69.8
6/7/2019	11:38:00 AM	407.8	58.4
6/7/2019	11:38:01 AM	399.1	49.7
6/7/2019	11:38:02 AM	390.5	41.1
6/7/2019	11:38:03 AM	384.9	35.5
6/7/2019	11:38:04 AM	380.0	30.6
6/7/2019	11:38:05 AM	376.6	27.2
6/7/2019	11:38:06 AM	373.5	24.1
6/7/2019	11:38:07 AM	371.2	21.8
6/7/2019	11:38:08 AM	369.1	19.7
6/7/2019	11:38:09 AM	367.5	18.1
6/7/2019	11:38:10 AM	365.8	16.4
6/7/2019	11:38:11 AM	364.6	15.2
6/7/2019	11:38:12 AM	360.6	11.2
6/7/2019	11:38:13 AM	356.8	7.4
6/7/2019	11:38:14 AM	354.0	4.6
6/7/2019	11:38:15 AM	352.4	3.0
6/7/2019	11:38:16 AM	351.0	1.6
6/7/2019	11:38:17 AM	350.1	0.7
6/7/2019	11:38:18 AM	349.3	-0.1
6/7/2019	11:38:19 AM	348.7	-0.7
6/7/2019	11:38:20 AM	348.1	-1.3
6/7/2019	11:38:21 AM	347.6	-1.8
6/7/2019	11:38:22 AM	347.2	-2.2
6/7/2019	11:38:23 AM	346.8	-2.6
6/7/2019	11:38:24 AM	346.5	-2.9
6/7/2019	11:38:25 AM	346.1	-3.3
6/7/2019	11:38:26 AM	345.9	-3.5
6/7/2019	11:38:27 AM	345.6	-3.8

APPENDIX E11: SALT DILUTION GAUGING SUMMARY
Old Outfall-2-Test-4 June
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:38:28 AM	345.4	-4.0
6/7/2019	11:38:29 AM	345.2	-4.2
6/7/2019	11:38:30 AM	345.0	-4.4
6/7/2019	11:38:31 AM	344.8	-4.6
6/7/2019	11:38:32 AM	344.7	-4.7
6/7/2019	11:38:33 AM	344.5	-4.9
6/7/2019	11:38:34 AM	344.3	-5.1
6/7/2019	11:38:35 AM	344.2	-5.2
6/7/2019	11:38:36 AM	344.1	-5.3
6/7/2019	11:38:37 AM	343.9	-5.5
6/7/2019	11:38:38 AM	343.8	-5.6
6/7/2019	11:38:39 AM	343.7	-5.7
6/7/2019	11:38:40 AM	343.6	-5.8
6/7/2019	11:38:41 AM	343.5	-5.9
6/7/2019	11:38:42 AM	343.4	-6.0

Table E2 OLDOF-2 TEST-4 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-2 TEST-4	1038	342.5	20.5
OLDOF-2 TEST-4	1039	342.0	20.5
OLDOF-2 TEST-4	1039	341.9	20.5
OLDOF-2 TEST-4	1040	341.1	20.5
Average		341.9	(µS/cms)
Geo Mean		341.9	(µS/cms)
Average (pre-test)		349.4	(µS/cms)
Average (post-test)		346.7	(µS/cms)

Table E3 OLDOF-2 TEST-4 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-2 TEST-4	100	246	25.2
OLDOF-2 TEST-4	1,000	2,167	25.2
OLDOF-2 TEST-4	10,000	17,538	25.2
OLDOF-2 TEST-4	100,000	136,514	25.2

Table E4 OLDOF-2 TEST-4 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,100	mg
Slope of Calibration Curve	K	1.3691	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	18,657.0	(s) . (µS/cms)
Calculated Flow Rate	Q	22.0	L/s
		349.6	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E12: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:23:39 PM	258.2	`
2/2/2019	3:23:40 PM	258.3	-
2/2/2019	3:23:41 PM	258.2	-
2/2/2019	3:23:42 PM	258.0	-
2/2/2019	3:23:43 PM	257.9	-
2/2/2019	3:23:44 PM	257.9	-
2/2/2019	3:23:45 PM	257.9	-
2/2/2019	3:23:46 PM	258.0	-
2/2/2019	3:23:47 PM	258.0	-
2/2/2019	3:23:48 PM	258.1	-
2/2/2019	3:23:49 PM	258.2	-
2/2/2019	3:23:50 PM	258.3	-
2/2/2019	3:23:51 PM	258.3	-
2/2/2019	3:23:52 PM	258.2	-
2/2/2019	3:23:53 PM	258.1	-
2/2/2019	3:23:54 PM	258.1	-
2/2/2019	3:23:55 PM	258.1	-
2/2/2019	3:23:56 PM	258.2	-
2/2/2019	3:23:57 PM	258.2	-
2/2/2019	3:23:58 PM	258.2	-
2/2/2019	3:23:59 PM	258.1	-
2/2/2019	3:24:00 PM	257.9	-
2/2/2019	3:24:01 PM	257.8	-
2/2/2019	3:24:02 PM	257.6	-
2/2/2019	3:24:03 PM	257.4	-
2/2/2019	3:24:04 PM	257.2	-
2/2/2019	3:24:05 PM	257.1	-
2/2/2019	3:24:06 PM	257.0	-
2/2/2019	3:24:07 PM	257.0	-
2/2/2019	3:24:08 PM	256.9	-
2/2/2019	3:24:09 PM	256.8	-
2/2/2019	3:24:10 PM	256.7	-
2/2/2019	3:24:11 PM	256.7	-
2/2/2019	3:24:12 PM	256.7	-
2/2/2019	3:24:13 PM	256.7	-
2/2/2019	3:24:14 PM	256.8	-
2/2/2019	3:24:15 PM	257.0	-
2/2/2019	3:24:16 PM	257.5	-
2/2/2019	3:24:17 PM	258.5	-
2/2/2019	3:24:18 PM	260.8	-
2/2/2019	3:24:19 PM	320.4	62.6
2/2/2019	3:24:20 PM	347.8	90.0
2/2/2019	3:24:21 PM	392.8	135.0
2/2/2019	3:24:22 PM	422.2	164.4
2/2/2019	3:24:23 PM	442.9	185.1
2/2/2019	3:24:24 PM	538.0	280.2
2/2/2019	3:24:25 PM	558.3	300.5
2/2/2019	3:24:26 PM	608.4	350.6
2/2/2019	3:24:27 PM	618.3	360.5
2/2/2019	3:24:28 PM	635.8	378.0
2/2/2019	3:24:29 PM	644.9	387.1
2/2/2019	3:24:30 PM	654.9	397.1
2/2/2019	3:24:31 PM	663.4	405.6
2/2/2019	3:24:32 PM	672.0	414.2
2/2/2019	3:24:33 PM	678.2	420.4
2/2/2019	3:24:34 PM	683.2	425.4
2/2/2019	3:24:35 PM	685.7	427.9
2/2/2019	3:24:36 PM	686.7	428.9
2/2/2019	3:24:37 PM	686.4	428.6
2/2/2019	3:24:38 PM	685.0	427.2
2/2/2019	3:24:39 PM	682.6	424.8
2/2/2019	3:24:40 PM	634.2	376.4
2/2/2019	3:24:41 PM	618.1	360.3
2/2/2019	3:24:42 PM	603.2	345.4
2/2/2019	3:24:43 PM	590.0	332.2
2/2/2019	3:24:44 PM	583.3	325.5
2/2/2019	3:24:45 PM	574.4	316.6
2/2/2019	3:24:46 PM	565.9	308.1
2/2/2019	3:24:47 PM	557.0	299.2
2/2/2019	3:24:48 PM	550.5	292.7

APPENDIX E12: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:24:49 PM	544.4	286.6
2/2/2019	3:24:50 PM	538.9	281.1
2/2/2019	3:24:51 PM	486.8	229.0
2/2/2019	3:24:52 PM	478.8	221.0
2/2/2019	3:24:53 PM	463.4	205.6
2/2/2019	3:24:54 PM	460.1	202.3
2/2/2019	3:24:55 PM	451.8	194.0
2/2/2019	3:24:56 PM	445.8	188.0
2/2/2019	3:24:57 PM	439.9	182.1
2/2/2019	3:24:58 PM	435.7	177.9
2/2/2019	3:24:59 PM	432.0	174.2
2/2/2019	3:25:00 PM	429.1	171.3
2/2/2019	3:25:01 PM	426.3	168.5
2/2/2019	3:25:02 PM	423.8	166.0
2/2/2019	3:25:03 PM	420.7	162.9
2/2/2019	3:25:04 PM	417.6	159.8
2/2/2019	3:25:05 PM	414.1	156.3
2/2/2019	3:25:06 PM	411.0	153.2
2/2/2019	3:25:07 PM	405.0	147.2
2/2/2019	3:25:08 PM	399.1	141.3
2/2/2019	3:25:09 PM	392.9	135.1
2/2/2019	3:25:10 PM	387.8	130.0
2/2/2019	3:25:11 PM	382.1	124.3
2/2/2019	3:25:12 PM	377.2	119.4
2/2/2019	3:25:13 PM	371.7	113.9
2/2/2019	3:25:14 PM	366.8	109.0
2/2/2019	3:25:15 PM	361.3	103.5
2/2/2019	3:25:16 PM	357.0	99.2
2/2/2019	3:25:17 PM	352.6	94.8
2/2/2019	3:25:18 PM	348.9	91.1
2/2/2019	3:25:19 PM	344.9	87.1
2/2/2019	3:25:20 PM	341.5	83.7
2/2/2019	3:25:21 PM	337.7	79.9
2/2/2019	3:25:22 PM	334.6	76.8
2/2/2019	3:25:23 PM	331.1	73.3
2/2/2019	3:25:24 PM	328.0	70.2
2/2/2019	3:25:25 PM	324.4	66.6
2/2/2019	3:25:26 PM	321.3	63.5
2/2/2019	3:25:27 PM	318.1	60.3
2/2/2019	3:25:28 PM	315.5	57.7
2/2/2019	3:25:29 PM	312.6	54.8
2/2/2019	3:25:30 PM	310.2	52.4
2/2/2019	3:25:31 PM	307.6	49.8
2/2/2019	3:25:32 PM	305.5	47.7
2/2/2019	3:25:33 PM	303.2	45.4
2/2/2019	3:25:34 PM	301.0	43.2
2/2/2019	3:25:35 PM	299.1	41.3
2/2/2019	3:25:36 PM	297.1	39.3
2/2/2019	3:25:37 PM	295.5	37.7
2/2/2019	3:25:38 PM	293.8	36.0
2/2/2019	3:25:39 PM	292.4	34.6
2/2/2019	3:25:40 PM	290.8	33.0
2/2/2019	3:25:41 PM	289.4	31.6
2/2/2019	3:25:42 PM	287.7	29.9
2/2/2019	3:25:43 PM	286.3	28.5
2/2/2019	3:25:44 PM	284.9	27.1
2/2/2019	3:25:45 PM	283.8	26.0
2/2/2019	3:25:46 PM	282.6	24.8
2/2/2019	3:25:47 PM	281.6	23.8
2/2/2019	3:25:48 PM	280.4	22.6
2/2/2019	3:25:49 PM	279.4	21.6
2/2/2019	3:25:50 PM	278.4	20.6
2/2/2019	3:25:51 PM	277.5	19.7
2/2/2019	3:25:52 PM	276.6	18.8
2/2/2019	3:25:53 PM	275.8	18.0
2/2/2019	3:25:54 PM	275.1	17.3
2/2/2019	3:25:55 PM	274.5	16.7
2/2/2019	3:25:56 PM	273.7	15.9
2/2/2019	3:25:57 PM	273.0	15.2
2/2/2019	3:25:58 PM	272.1	14.3
2/2/2019	3:25:59 PM	271.4	13.6
2/2/2019	3:26:00 PM	270.8	13.0
2/2/2019	3:26:01 PM	270.4	12.6
2/2/2019	3:26:02 PM	269.8	12.0
2/2/2019	3:26:03 PM	269.3	11.5
2/2/2019	3:26:04 PM	268.6	10.8
2/2/2019	3:26:05 PM	268.1	10.3

APPENDIX E12: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:26:06 PM	267.3	9.5
2/2/2019	3:26:07 PM	266.7	8.9
2/2/2019	3:26:08 PM	266.1	-
2/2/2019	3:26:09 PM	265.6	-
2/2/2019	3:26:10 PM	265.1	-
2/2/2019	3:26:11 PM	264.6	-
2/2/2019	3:26:12 PM	264.0	-
2/2/2019	3:26:13 PM	263.4	-
2/2/2019	3:26:14 PM	262.8	-
2/2/2019	3:26:15 PM	262.5	-
2/2/2019	3:26:16 PM	262.0	-
2/2/2019	3:26:17 PM	261.7	-
2/2/2019	3:26:18 PM	261.4	-
2/2/2019	3:26:19 PM	261.1	-
2/2/2019	3:26:20 PM	260.9	-
2/2/2019	3:26:21 PM	260.7	-
2/2/2019	3:26:22 PM	260.4	-
2/2/2019	3:26:23 PM	260.2	-
2/2/2019	3:26:24 PM	259.9	-

APPENDIX E12: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-1 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-3 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-3 TEST-1	1445	264.8	14.3
OLDOF-3 TEST-1	1446	269.1	14
OLDOF-3 TEST-1	1447	220.7	14.3
OLDOF-3 TEST-1	1449	256.8	14
OLDOF-3 TEST-1	1451	257.3	14.3
Geometric Mean		253.1	(µS/cms)
Average (pre-test)		257.8	(µS/cms)
Average (post-test)		262.5	(µS/cms)

Table E3 OLDOF-3 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-3 TEST-1	100	202.2	17.4
OLDOF-3 TEST-1	1,000	1,718.0	17.8
OLDOF-3 TEST-1	10,000	14,826.0	17.3
OLDOF-3 TEST-1	100,000	116,811.0	17.7

Table E4 OLDOF-3-TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	299,900	mg
Slope of Calibration Curve	K	1.1713	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	16,471.81	(s) . (µS/cms)
Calculated Flow Rate	Q	21.33	L/s
		338.50	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E13: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:23:39 PM	258.2	`
2/2/2019	3:23:40 PM	258.3	-
2/2/2019	3:23:41 PM	258.2	-
2/2/2019	3:23:42 PM	258.0	-
2/2/2019	3:23:43 PM	257.9	-
2/2/2019	3:23:44 PM	257.9	-
2/2/2019	3:23:45 PM	257.9	-
2/2/2019	3:23:46 PM	258.0	-
2/2/2019	3:23:47 PM	258.0	-
2/2/2019	3:23:48 PM	258.1	-
2/2/2019	3:23:49 PM	258.2	-
2/2/2019	3:23:50 PM	258.3	-
2/2/2019	3:23:51 PM	258.3	-
2/2/2019	3:23:52 PM	258.2	-
2/2/2019	3:23:53 PM	258.1	-
2/2/2019	3:23:54 PM	258.1	-
2/2/2019	3:23:55 PM	258.1	-
2/2/2019	3:23:56 PM	258.2	-
2/2/2019	3:23:57 PM	258.2	-
2/2/2019	3:23:58 PM	258.2	-
2/2/2019	3:23:59 PM	258.1	-
2/2/2019	3:24:00 PM	257.9	-
2/2/2019	3:24:01 PM	257.8	-
2/2/2019	3:24:02 PM	257.6	-
2/2/2019	3:24:03 PM	257.4	-
2/2/2019	3:24:04 PM	257.2	-
2/2/2019	3:24:05 PM	257.1	-
2/2/2019	3:24:06 PM	257.0	-
2/2/2019	3:24:07 PM	257.0	-
2/2/2019	3:24:08 PM	256.9	-
2/2/2019	3:24:09 PM	256.8	-
2/2/2019	3:24:10 PM	256.7	-
2/2/2019	3:24:11 PM	256.7	-
2/2/2019	3:24:12 PM	256.7	-
2/2/2019	3:24:13 PM	256.7	-
2/2/2019	3:24:14 PM	256.8	-
2/2/2019	3:24:15 PM	257.0	-
2/2/2019	3:24:16 PM	257.5	-
2/2/2019	3:24:17 PM	258.5	-
2/2/2019	3:24:18 PM	260.8	-
2/2/2019	3:24:19 PM	320.4	62.6
2/2/2019	3:24:20 PM	347.8	90.0
2/2/2019	3:24:21 PM	392.8	135.0
2/2/2019	3:24:22 PM	422.2	164.4
2/2/2019	3:24:23 PM	442.9	185.1
2/2/2019	3:24:24 PM	538.0	280.2
2/2/2019	3:24:25 PM	558.3	300.5
2/2/2019	3:24:26 PM	608.4	350.6
2/2/2019	3:24:27 PM	618.3	360.5
2/2/2019	3:24:28 PM	635.8	378.0
2/2/2019	3:24:29 PM	644.9	387.1
2/2/2019	3:24:30 PM	654.9	397.1
2/2/2019	3:24:31 PM	663.4	405.6
2/2/2019	3:24:32 PM	672.0	414.2
2/2/2019	3:24:33 PM	678.2	420.4
2/2/2019	3:24:34 PM	683.2	425.4
2/2/2019	3:24:35 PM	685.7	427.9
2/2/2019	3:24:36 PM	686.7	428.9
2/2/2019	3:24:37 PM	686.4	428.6
2/2/2019	3:24:38 PM	685.0	427.2
2/2/2019	3:24:39 PM	682.6	424.8
2/2/2019	3:24:40 PM	634.2	376.4
2/2/2019	3:24:41 PM	618.1	360.3
2/2/2019	3:24:42 PM	603.2	345.4
2/2/2019	3:24:43 PM	590.0	332.2
2/2/2019	3:24:44 PM	583.3	325.5
2/2/2019	3:24:45 PM	574.4	316.6
2/2/2019	3:24:46 PM	565.9	308.1
2/2/2019	3:24:47 PM	557.0	299.2
2/2/2019	3:24:48 PM	550.5	292.7

APPENDIX E13: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:24:49 PM	544.4	286.6
2/2/2019	3:24:50 PM	538.9	281.1
2/2/2019	3:24:51 PM	486.8	229.0
2/2/2019	3:24:52 PM	478.8	221.0
2/2/2019	3:24:53 PM	463.4	205.6
2/2/2019	3:24:54 PM	460.1	202.3
2/2/2019	3:24:55 PM	451.8	194.0
2/2/2019	3:24:56 PM	445.8	188.0
2/2/2019	3:24:57 PM	439.9	182.1
2/2/2019	3:24:58 PM	435.7	177.9
2/2/2019	3:24:59 PM	432.0	174.2
2/2/2019	3:25:00 PM	429.1	171.3
2/2/2019	3:25:01 PM	426.3	168.5
2/2/2019	3:25:02 PM	423.8	166.0
2/2/2019	3:25:03 PM	420.7	162.9
2/2/2019	3:25:04 PM	417.6	159.8
2/2/2019	3:25:05 PM	414.1	156.3
2/2/2019	3:25:06 PM	411.0	153.2
2/2/2019	3:25:07 PM	405.0	147.2
2/2/2019	3:25:08 PM	399.1	141.3
2/2/2019	3:25:09 PM	392.9	135.1
2/2/2019	3:25:10 PM	387.8	130.0
2/2/2019	3:25:11 PM	382.1	124.3
2/2/2019	3:25:12 PM	377.2	119.4
2/2/2019	3:25:13 PM	371.7	113.9
2/2/2019	3:25:14 PM	366.8	109.0
2/2/2019	3:25:15 PM	361.3	103.5
2/2/2019	3:25:16 PM	357.0	99.2
2/2/2019	3:25:17 PM	352.6	94.8
2/2/2019	3:25:18 PM	348.9	91.1
2/2/2019	3:25:19 PM	344.9	87.1
2/2/2019	3:25:20 PM	341.5	83.7
2/2/2019	3:25:21 PM	337.7	79.9
2/2/2019	3:25:22 PM	334.6	76.8
2/2/2019	3:25:23 PM	331.1	73.3
2/2/2019	3:25:24 PM	328.0	70.2
2/2/2019	3:25:25 PM	324.4	66.6
2/2/2019	3:25:26 PM	321.3	63.5
2/2/2019	3:25:27 PM	318.1	60.3
2/2/2019	3:25:28 PM	315.5	57.7
2/2/2019	3:25:29 PM	312.6	54.8
2/2/2019	3:25:30 PM	310.2	52.4
2/2/2019	3:25:31 PM	307.6	49.8
2/2/2019	3:25:32 PM	305.5	47.7
2/2/2019	3:25:33 PM	303.2	45.4
2/2/2019	3:25:34 PM	301.0	43.2
2/2/2019	3:25:35 PM	299.1	41.3
2/2/2019	3:25:36 PM	297.1	39.3
2/2/2019	3:25:37 PM	295.5	37.7
2/2/2019	3:25:38 PM	293.8	36.0
2/2/2019	3:25:39 PM	292.4	34.6
2/2/2019	3:25:40 PM	290.8	33.0
2/2/2019	3:25:41 PM	289.4	31.6
2/2/2019	3:25:42 PM	287.7	29.9
2/2/2019	3:25:43 PM	286.3	28.5
2/2/2019	3:25:44 PM	284.9	27.1
2/2/2019	3:25:45 PM	283.8	26.0
2/2/2019	3:25:46 PM	282.6	24.8
2/2/2019	3:25:47 PM	281.6	23.8
2/2/2019	3:25:48 PM	280.4	22.6
2/2/2019	3:25:49 PM	279.4	21.6
2/2/2019	3:25:50 PM	278.4	20.6
2/2/2019	3:25:51 PM	277.5	19.7
2/2/2019	3:25:52 PM	276.6	18.8
2/2/2019	3:25:53 PM	275.8	18.0
2/2/2019	3:25:54 PM	275.1	17.3
2/2/2019	3:25:55 PM	274.5	16.7
2/2/2019	3:25:56 PM	273.7	15.9
2/2/2019	3:25:57 PM	273.0	15.2
2/2/2019	3:25:58 PM	272.1	14.3
2/2/2019	3:25:59 PM	271.4	13.6
2/2/2019	3:26:00 PM	270.8	13.0
2/2/2019	3:26:01 PM	270.4	12.6
2/2/2019	3:26:02 PM	269.8	12.0
2/2/2019	3:26:03 PM	269.3	11.5
2/2/2019	3:26:04 PM	268.6	10.8
2/2/2019	3:26:05 PM	268.1	10.3
2/2/2019	3:26:06 PM	267.3	9.5

APPENDIX E13: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:26:07 PM	266.7	8.9
2/2/2019	3:26:08 PM	266.1	-
2/2/2019	3:26:09 PM	265.6	-
2/2/2019	3:26:10 PM	265.1	-
2/2/2019	3:26:11 PM	264.6	-
2/2/2019	3:26:12 PM	264.0	-
2/2/2019	3:26:13 PM	263.4	-
2/2/2019	3:26:14 PM	262.8	-
2/2/2019	3:26:15 PM	262.5	-
2/2/2019	3:26:16 PM	262.0	-
2/2/2019	3:26:17 PM	261.7	-
2/2/2019	3:26:18 PM	261.4	-
2/2/2019	3:26:19 PM	261.1	-
2/2/2019	3:26:20 PM	260.9	-
2/2/2019	3:26:21 PM	260.7	-
2/2/2019	3:26:22 PM	260.4	-
2/2/2019	3:26:23 PM	260.2	-
2/2/2019	3:26:24 PM	259.9	-

APPENDIX E13: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-2 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF3 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-3 TEST-2	1445	264.8	14.3
OLDOF-3 TEST-2	1446	269.1	14
OLDOF-3 TEST-2	1447	220.7	14.3
OLDOF-3 TEST-2	1449	256.8	14
OLDOF-3 TEST-2	1451	257.3	14.3
Geometric Mean		253.1	(µS/cms)
Average (pre-test)		257.8	(µS/cms)
Average (post-test)		262.5	(µS/cms)

Table E3 OLDOF3 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-3 TEST-2	100	202.2	17.4
OLDOF-3 TEST-2	1,000	1,718.0	17.8
OLDOF-3 TEST-2	10,000	14,826.0	17.3
OLDOF-3 TEST-2	100,000	116,811.0	17.7

Table E4 OLDOF3 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	299,900	mg
Slope of Calibration Curve	K	1.1713	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	16,471.81	(s) . (µS/cms)
Calculated Flow Rate	Q	21.33	L/s
		338.50	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E14: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-3 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:50:39 PM	262.1	-
2/2/2019	3:50:40 PM	261.9	-
2/2/2019	3:50:41 PM	261.7	-
2/2/2019	3:50:42 PM	261.6	-
2/2/2019	3:50:43 PM	261.4	-
2/2/2019	3:50:44 PM	261.2	-
2/2/2019	3:50:45 PM	261.0	-
2/2/2019	3:50:46 PM	260.8	-
2/2/2019	3:50:47 PM	260.7	-
2/2/2019	3:50:48 PM	260.5	-
2/2/2019	3:50:49 PM	260.3	-
2/2/2019	3:50:50 PM	260.2	-
2/2/2019	3:50:51 PM	260.0	-
2/2/2019	3:50:52 PM	259.8	-
2/2/2019	3:50:53 PM	259.6	-
2/2/2019	3:50:54 PM	259.5	-
2/2/2019	3:50:55 PM	259.4	-
2/2/2019	3:50:56 PM	259.2	-
2/2/2019	3:50:57 PM	259.1	-
2/2/2019	3:50:58 PM	259.0	-
2/2/2019	3:50:59 PM	258.9	-
2/2/2019	3:51:00 PM	258.8	-
2/2/2019	3:51:01 PM	258.7	-
2/2/2019	3:51:02 PM	258.6	-
2/2/2019	3:51:03 PM	258.5	-
2/2/2019	3:51:04 PM	258.5	-
2/2/2019	3:51:05 PM	258.5	-
2/2/2019	3:51:06 PM	258.5	-
2/2/2019	3:51:07 PM	258.8	-
2/2/2019	3:51:08 PM	260.1	-
2/2/2019	3:51:09 PM	262.5	-
2/2/2019	3:51:10 PM	349.1	89.1
2/2/2019	3:51:11 PM	370.1	110.1
2/2/2019	3:51:12 PM	423.7	163.7
2/2/2019	3:51:13 PM	458.0	198.0
2/2/2019	3:51:14 PM	566.0	306.0
2/2/2019	3:51:15 PM	635.8	375.8
2/2/2019	3:51:16 PM	726.4	466.4
2/2/2019	3:51:17 PM	739.2	479.2
2/2/2019	3:51:18 PM	758.8	498.8
2/2/2019	3:51:19 PM	838.4	578.4
2/2/2019	3:51:20 PM	840.0	580.0
2/2/2019	3:51:21 PM	836.6	576.6
2/2/2019	3:51:22 PM	826.3	566.3
2/2/2019	3:51:23 PM	811.7	551.7
2/2/2019	3:51:24 PM	799.6	539.6
2/2/2019	3:51:25 PM	736.9	476.9
2/2/2019	3:51:26 PM	715.2	455.2
2/2/2019	3:51:27 PM	692.9	432.9
2/2/2019	3:51:28 PM	683.1	423.1
2/2/2019	3:51:29 PM	667.2	407.2
2/2/2019	3:51:30 PM	550.8	290.8
2/2/2019	3:51:31 PM	607.3	347.3
2/2/2019	3:51:32 PM	598.5	338.5
2/2/2019	3:51:33 PM	579.0	319.0
2/2/2019	3:51:34 PM	565.7	305.7
2/2/2019	3:51:35 PM	549.3	289.3
2/2/2019	3:51:36 PM	536.9	276.9
2/2/2019	3:51:37 PM	530.6	270.6
2/2/2019	3:51:38 PM	525.1	265.1
2/2/2019	3:51:39 PM	519.3	259.3
2/2/2019	3:51:40 PM	461.8	201.8
2/2/2019	3:51:41 PM	452.0	192.0
2/2/2019	3:51:42 PM	442.8	182.8
2/2/2019	3:51:43 PM	438.0	178.0
2/2/2019	3:51:44 PM	435.7	175.7
2/2/2019	3:51:45 PM	431.8	171.8
2/2/2019	3:51:46 PM	423.9	163.9
2/2/2019	3:51:47 PM	418.1	158.1
2/2/2019	3:51:48 PM	412.7	152.7

APPENDIX E14: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-3 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-3-T3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	3:51:49 PM	409.1	149.1
2/2/2019	3:51:50 PM	404.0	144.0
2/2/2019	3:51:51 PM	399.5	139.5
2/2/2019	3:51:52 PM	394.6	134.6
2/2/2019	3:51:53 PM	344.4	84.4
2/2/2019	3:51:54 PM	336.6	76.6
2/2/2019	3:51:55 PM	332.7	72.7
2/2/2019	3:51:56 PM	329.3	69.3
2/2/2019	3:51:57 PM	327.6	67.6
2/2/2019	3:51:58 PM	325.6	65.6
2/2/2019	3:51:59 PM	324.0	64.0
2/2/2019	3:52:00 PM	321.9	61.9
2/2/2019	3:52:01 PM	319.8	59.8
2/2/2019	3:52:02 PM	318.4	58.4
2/2/2019	3:52:03 PM	317.1	57.1
2/2/2019	3:52:04 PM	316.2	56.2
2/2/2019	3:52:05 PM	314.8	54.8
2/2/2019	3:52:06 PM	313.4	53.4
2/2/2019	3:52:07 PM	311.8	51.8
2/2/2019	3:52:08 PM	310.5	50.5
2/2/2019	3:52:09 PM	309.1	49.1
2/2/2019	3:52:10 PM	306.6	46.6
2/2/2019	3:52:11 PM	303.8	43.8
2/2/2019	3:52:12 PM	301.3	41.3
2/2/2019	3:52:13 PM	298.7	38.7
2/2/2019	3:52:14 PM	296.6	36.6
2/2/2019	3:52:15 PM	294.1	34.1
2/2/2019	3:52:16 PM	291.9	31.9
2/2/2019	3:52:17 PM	289.5	29.5
2/2/2019	3:52:18 PM	287.7	27.7
2/2/2019	3:52:19 PM	285.8	25.8
2/2/2019	3:52:20 PM	284.2	24.2
2/2/2019	3:52:21 PM	282.5	22.5
2/2/2019	3:52:22 PM	281.1	21.1
2/2/2019	3:52:23 PM	279.4	19.4
2/2/2019	3:52:24 PM	278.2	18.2
2/2/2019	3:52:25 PM	276.9	16.9
2/2/2019	3:52:26 PM	275.9	15.9
2/2/2019	3:52:27 PM	274.7	14.7
2/2/2019	3:52:28 PM	273.6	13.6
2/2/2019	3:52:29 PM	272.5	12.5
2/2/2019	3:52:30 PM	271.6	11.6
2/2/2019	3:52:31 PM	270.6	10.6
2/2/2019	3:52:32 PM	269.8	9.8
2/2/2019	3:52:33 PM	268.9	8.9
2/2/2019	3:52:34 PM	268.2	8.2
2/2/2019	3:52:35 PM	267.3	7.3
2/2/2019	3:52:36 PM	266.6	6.6
2/2/2019	3:52:37 PM	265.8	-
2/2/2019	3:52:38 PM	265.1	-
2/2/2019	3:52:39 PM	264.4	-
2/2/2019	3:52:40 PM	263.9	-
2/2/2019	3:52:41 PM	263.2	-
2/2/2019	3:52:42 PM	262.7	-
2/2/2019	3:52:43 PM	262.2	-
2/2/2019	3:52:44 PM	261.7	-
2/2/2019	3:52:45 PM	261.2	-
2/2/2019	3:52:46 PM	260.7	-

APPENDIX E14: SALT DILUTION GAUGING SUMMARY
Old Outfall-3-Test-3 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF3 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-3 TEST-3	1445	264.8	14.3
OLDOF-3 TEST-3	1446	269.1	14
OLDOF-3 TEST-3	1447	220.7	14.3
OLDOF-3 TEST-3	1449	256.8	14
OLDOF-3 TEST-3	1451	257.3	14.3
Average		253.7	(µS/cms)
Geometric Mean		253.1	(µS/cms)
Average (pre-test)		260.0	(µS/cms)
Average (post-test)		263.1	(µS/cms)

Table E3 OLDOF3 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-3 TEST-3	100	202.2	17.4
OLDOF-3 TEST-3	1,000	1,718.0	17.8
OLDOF-3 TEST-3	10,000	14,826.0	17.3
OLDOF-3 TEST-3	100,000	116,811.0	17.7

Table E4 OLDOF3 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.1713	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	15034.4	(s) . (µS/cms)
Calculated Flow Rate	Q	23.4	L/s
		371.0	GPM

Notes:

°C degrees celsius
mg/L miligrams per liter
µS/cms microSiemens per centimeter second
GPM gallons per minute
s second
Ect raw electronic conductivty during test
Ecbkg background electronic conductivity value
Δt time interval between conductivity readings (1 second)
Equation for flo

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8,

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:16:17 AM	132.3	-
2/2/2019	10:16:18 AM	132.3	-
2/2/2019	10:16:19 AM	132.3	-
2/2/2019	10:16:20 AM	132.2	-
2/2/2019	10:16:21 AM	132.2	-
2/2/2019	10:16:22 AM	132.2	-
2/2/2019	10:16:23 AM	132.1	-
2/2/2019	10:16:24 AM	132.1	-
2/2/2019	10:16:25 AM	132.1	-
2/2/2019	10:16:26 AM	132.1	-
2/2/2019	10:16:27 AM	132.1	-
2/2/2019	10:16:28 AM	132.1	-
2/2/2019	10:16:29 AM	132.1	-
2/2/2019	10:16:30 AM	132.0	-
2/2/2019	10:16:31 AM	132.0	-
2/2/2019	10:16:32 AM	132.0	-
2/2/2019	10:16:33 AM	131.9	-
2/2/2019	10:16:34 AM	132.0	-
2/2/2019	10:16:35 AM	132.0	-
2/2/2019	10:16:36 AM	131.9	-
2/2/2019	10:16:37 AM	131.9	-
2/2/2019	10:16:38 AM	131.9	-
2/2/2019	10:16:39 AM	131.9	-
2/2/2019	10:16:40 AM	131.9	-
2/2/2019	10:16:41 AM	132.0	-
2/2/2019	10:16:42 AM	132.0	-
2/2/2019	10:16:43 AM	132.0	-
2/2/2019	10:16:44 AM	132.0	-
2/2/2019	10:16:45 AM	132.0	-
2/2/2019	10:16:46 AM	132.0	-
2/2/2019	10:16:47 AM	132.0	-
2/2/2019	10:16:48 AM	132.0	-
2/2/2019	10:16:49 AM	132.0	-
2/2/2019	10:16:50 AM	131.9	-
2/2/2019	10:16:51 AM	131.9	-
2/2/2019	10:16:52 AM	131.9	-
2/2/2019	10:16:53 AM	131.9	-
2/2/2019	10:16:54 AM	131.8	-
2/2/2019	10:16:55 AM	131.8	-
2/2/2019	10:16:56 AM	131.8	-
2/2/2019	10:16:57 AM	131.8	-
2/2/2019	10:16:58 AM	131.8	-
2/2/2019	10:16:59 AM	131.8	-
2/2/2019	10:17:00 AM	131.8	-
2/2/2019	10:17:01 AM	131.7	-
2/2/2019	10:17:02 AM	131.7	-
2/2/2019	10:17:03 AM	131.7	-
2/2/2019	10:17:04 AM	131.8	-
2/2/2019	10:17:05 AM	131.8	-
2/2/2019	10:17:06 AM	131.8	-
2/2/2019	10:17:07 AM	131.8	-
2/2/2019	10:17:08 AM	131.7	-
2/2/2019	10:17:09 AM	131.7	-
2/2/2019	10:17:10 AM	131.6	-
2/2/2019	10:17:11 AM	131.6	-
2/2/2019	10:17:12 AM	131.6	-
2/2/2019	10:17:13 AM	131.6	-
2/2/2019	10:17:14 AM	131.6	-
2/2/2019	10:17:15 AM	131.6	-
2/2/2019	10:17:16 AM	131.5	-
2/2/2019	10:17:17 AM	131.5	-
2/2/2019	10:17:18 AM	131.5	-
2/2/2019	10:17:19 AM	131.5	-
2/2/2019	10:17:20 AM	131.5	-
2/2/2019	10:17:21 AM	131.5	-
2/2/2019	10:17:22 AM	131.4	-
2/2/2019	10:17:23 AM	131.4	-
2/2/2019	10:17:24 AM	131.4	-
2/2/2019	10:17:25 AM	131.4	-
2/2/2019	10:17:26 AM	131.4	-

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:17:27 AM	131.4	-
2/2/2019	10:17:28 AM	131.4	-
2/2/2019	10:17:29 AM	131.4	-
2/2/2019	10:17:30 AM	131.4	-
2/2/2019	10:17:31 AM	131.4	-
2/2/2019	10:17:32 AM	131.4	-
2/2/2019	10:17:33 AM	131.4	-
2/2/2019	10:17:34 AM	131.5	-
2/2/2019	10:17:35 AM	131.5	-
2/2/2019	10:17:36 AM	131.6	-
2/2/2019	10:17:37 AM	131.7	-
2/2/2019	10:17:38 AM	131.9	-
2/2/2019	10:17:39 AM	132.1	-
2/2/2019	10:17:40 AM	132.4	-
2/2/2019	10:17:41 AM	133.0	-
2/2/2019	10:17:42 AM	133.7	-
2/2/2019	10:17:43 AM	135.0	-
2/2/2019	10:17:44 AM	136.3	-
2/2/2019	10:17:45 AM	138.1	6.2
2/2/2019	10:17:46 AM	139.8	7.9
2/2/2019	10:17:47 AM	142.3	10.4
2/2/2019	10:17:48 AM	145.7	13.8
2/2/2019	10:17:49 AM	212.8	80.9
2/2/2019	10:17:50 AM	223.3	91.4
2/2/2019	10:17:51 AM	234.7	102.8
2/2/2019	10:17:52 AM	239.4	107.5
2/2/2019	10:17:53 AM	247.0	115.1
2/2/2019	10:17:54 AM	256.6	124.7
2/2/2019	10:17:55 AM	267.5	135.6
2/2/2019	10:17:56 AM	273.7	141.8
2/2/2019	10:17:57 AM	278.9	147.0
2/2/2019	10:17:58 AM	345.0	213.1
2/2/2019	10:17:59 AM	378.1	246.2
2/2/2019	10:18:00 AM	397.7	265.8
2/2/2019	10:18:01 AM	429.6	297.7
2/2/2019	10:18:02 AM	438.4	306.5
2/2/2019	10:18:03 AM	456.4	324.5
2/2/2019	10:18:04 AM	467.0	335.1
2/2/2019	10:18:05 AM	476.4	344.5
2/2/2019	10:18:06 AM	546.5	414.6
2/2/2019	10:18:07 AM	575.1	443.2
2/2/2019	10:18:08 AM	597.2	465.3
2/2/2019	10:18:09 AM	599.4	467.5
2/2/2019	10:18:10 AM	604.9	473.0
2/2/2019	10:18:11 AM	616.1	484.2
2/2/2019	10:18:12 AM	623.2	491.3
2/2/2019	10:18:13 AM	628.8	496.9
2/2/2019	10:18:14 AM	633.2	501.3
2/2/2019	10:18:15 AM	639.1	507.2
2/2/2019	10:18:16 AM	644.1	512.2
2/2/2019	10:18:17 AM	691.1	559.2
2/2/2019	10:18:18 AM	696.0	564.1
2/2/2019	10:18:19 AM	706.1	574.2
2/2/2019	10:18:20 AM	706.8	574.9
2/2/2019	10:18:21 AM	708.1	576.2
2/2/2019	10:18:22 AM	709.3	577.4
2/2/2019	10:18:23 AM	710.3	578.4
2/2/2019	10:18:24 AM	710.9	579.0
2/2/2019	10:18:25 AM	711.4	579.5
2/2/2019	10:18:26 AM	711.7	579.8
2/2/2019	10:18:27 AM	712.0	580.1
2/2/2019	10:18:28 AM	712.1	580.2
2/2/2019	10:18:29 AM	711.8	579.9
2/2/2019	10:18:30 AM	711.2	579.3
2/2/2019	10:18:31 AM	710.2	578.3
2/2/2019	10:18:32 AM	709.1	577.2
2/2/2019	10:18:33 AM	708.2	576.3
2/2/2019	10:18:34 AM	706.7	574.8
2/2/2019	10:18:35 AM	705.1	573.2
2/2/2019	10:18:36 AM	702.8	570.9
2/2/2019	10:18:37 AM	700.5	568.6
2/2/2019	10:18:38 AM	697.3	565.4
2/2/2019	10:18:39 AM	693.9	562.0
2/2/2019	10:18:40 AM	689.5	557.6
2/2/2019	10:18:41 AM	685.5	553.6

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:18:42 AM	681.0	549.1
2/2/2019	10:18:43 AM	677.3	545.4
2/2/2019	10:18:44 AM	673.0	541.1
2/2/2019	10:18:45 AM	669.2	537.3
2/2/2019	10:18:46 AM	664.7	532.8
2/2/2019	10:18:47 AM	660.7	528.8
2/2/2019	10:18:48 AM	655.8	523.9
2/2/2019	10:18:49 AM	606.4	474.5
2/2/2019	10:18:50 AM	598.1	466.2
2/2/2019	10:18:51 AM	592.4	460.5
2/2/2019	10:18:52 AM	589.6	457.7
2/2/2019	10:18:53 AM	587.0	455.1
2/2/2019	10:18:54 AM	583.0	451.1
2/2/2019	10:18:55 AM	578.8	446.9
2/2/2019	10:18:56 AM	575.2	443.3
2/2/2019	10:18:57 AM	572.6	440.7
2/2/2019	10:18:58 AM	569.3	437.4
2/2/2019	10:18:59 AM	566.7	434.8
2/2/2019	10:19:00 AM	564.0	432.1
2/2/2019	10:19:01 AM	561.7	429.8
2/2/2019	10:19:02 AM	559.1	427.2
2/2/2019	10:19:03 AM	556.6	424.7
2/2/2019	10:19:04 AM	508.0	376.1
2/2/2019	10:19:05 AM	499.3	367.4
2/2/2019	10:19:06 AM	491.5	359.6
2/2/2019	10:19:07 AM	487.3	355.4
2/2/2019	10:19:08 AM	486.4	354.5
2/2/2019	10:19:09 AM	484.6	352.7
2/2/2019	10:19:10 AM	482.8	350.9
2/2/2019	10:19:11 AM	481.0	349.1
2/2/2019	10:19:12 AM	478.8	346.9
2/2/2019	10:19:13 AM	476.9	345.0
2/2/2019	10:19:14 AM	474.6	342.7
2/2/2019	10:19:15 AM	472.7	340.8
2/2/2019	10:19:16 AM	471.0	339.1
2/2/2019	10:19:17 AM	468.6	336.7
2/2/2019	10:19:18 AM	465.9	334.0
2/2/2019	10:19:19 AM	463.1	331.2
2/2/2019	10:19:20 AM	460.9	329.0
2/2/2019	10:19:21 AM	456.7	324.8
2/2/2019	10:19:22 AM	452.6	320.7
2/2/2019	10:19:23 AM	447.7	315.8
2/2/2019	10:19:24 AM	443.5	311.6
2/2/2019	10:19:25 AM	438.8	306.9
2/2/2019	10:19:26 AM	434.9	303.0
2/2/2019	10:19:27 AM	430.4	298.5
2/2/2019	10:19:28 AM	426.4	294.5
2/2/2019	10:19:29 AM	422.0	290.1
2/2/2019	10:19:30 AM	418.6	286.7
2/2/2019	10:19:31 AM	414.4	282.5
2/2/2019	10:19:32 AM	410.6	278.7
2/2/2019	10:19:33 AM	406.1	274.2
2/2/2019	10:19:34 AM	402.4	270.5
2/2/2019	10:19:35 AM	398.3	266.4
2/2/2019	10:19:36 AM	394.8	262.9
2/2/2019	10:19:37 AM	390.9	259.0
2/2/2019	10:19:38 AM	387.2	255.3
2/2/2019	10:19:39 AM	382.9	251.0
2/2/2019	10:19:40 AM	379.2	247.3
2/2/2019	10:19:41 AM	374.8	242.9
2/2/2019	10:19:42 AM	370.9	239.0
2/2/2019	10:19:43 AM	366.9	235.0
2/2/2019	10:19:44 AM	363.7	231.8
2/2/2019	10:19:45 AM	360.2	228.3
2/2/2019	10:19:46 AM	357.2	225.3
2/2/2019	10:19:47 AM	353.8	221.9
2/2/2019	10:19:48 AM	350.6	218.7
2/2/2019	10:19:49 AM	347.0	215.1
2/2/2019	10:19:50 AM	344.0	212.1
2/2/2019	10:19:51 AM	341.0	209.1
2/2/2019	10:19:52 AM	338.3	206.4
2/2/2019	10:19:53 AM	335.3	203.4
2/2/2019	10:19:54 AM	332.4	200.5
2/2/2019	10:19:55 AM	329.3	197.4
2/2/2019	10:19:56 AM	326.6	194.7
2/2/2019	10:19:57 AM	323.8	191.9

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:19:58 AM	321.3	189.4
2/2/2019	10:19:59 AM	318.6	186.7
2/2/2019	10:20:00 AM	315.9	184.0
2/2/2019	10:20:01 AM	313.6	181.7
2/2/2019	10:20:02 AM	310.9	179.0
2/2/2019	10:20:03 AM	308.4	176.5
2/2/2019	10:20:04 AM	305.6	173.7
2/2/2019	10:20:05 AM	303.1	171.2
2/2/2019	10:20:06 AM	300.5	168.6
2/2/2019	10:20:07 AM	298.3	166.4
2/2/2019	10:20:08 AM	296.1	164.2
2/2/2019	10:20:09 AM	294.2	162.3
2/2/2019	10:20:10 AM	292.1	160.2
2/2/2019	10:20:11 AM	290.1	158.2
2/2/2019	10:20:12 AM	288.0	156.1
2/2/2019	10:20:13 AM	286.2	154.3
2/2/2019	10:20:14 AM	284.4	152.5
2/2/2019	10:20:15 AM	282.9	151.0
2/2/2019	10:20:16 AM	281.3	149.4
2/2/2019	10:20:17 AM	280.0	148.1
2/2/2019	10:20:18 AM	278.3	146.4
2/2/2019	10:20:19 AM	276.7	144.8
2/2/2019	10:20:20 AM	274.9	143.0
2/2/2019	10:20:21 AM	273.2	141.3
2/2/2019	10:20:22 AM	271.2	139.3
2/2/2019	10:20:23 AM	269.4	137.5
2/2/2019	10:20:24 AM	267.5	135.6
2/2/2019	10:20:25 AM	265.9	134.0
2/2/2019	10:20:26 AM	264.1	132.2
2/2/2019	10:20:27 AM	262.5	130.6
2/2/2019	10:20:28 AM	260.7	128.8
2/2/2019	10:20:29 AM	259.2	127.3
2/2/2019	10:20:30 AM	257.5	125.6
2/2/2019	10:20:31 AM	256.2	124.3
2/2/2019	10:20:32 AM	254.7	122.8
2/2/2019	10:20:33 AM	253.6	121.7
2/2/2019	10:20:34 AM	252.1	120.2
2/2/2019	10:20:35 AM	250.9	119.0
2/2/2019	10:20:36 AM	249.6	117.7
2/2/2019	10:20:37 AM	248.4	116.5
2/2/2019	10:20:38 AM	247.1	115.2
2/2/2019	10:20:39 AM	245.9	114.0
2/2/2019	10:20:40 AM	244.4	112.5
2/2/2019	10:20:41 AM	243.1	111.2
2/2/2019	10:20:42 AM	241.6	109.7
2/2/2019	10:20:43 AM	240.4	108.5
2/2/2019	10:20:44 AM	239.0	107.1
2/2/2019	10:20:45 AM	237.8	105.9
2/2/2019	10:20:46 AM	236.4	104.5
2/2/2019	10:20:47 AM	235.2	103.3
2/2/2019	10:20:48 AM	233.8	101.9
2/2/2019	10:20:49 AM	232.5	100.6
2/2/2019	10:20:50 AM	231.2	99.3
2/2/2019	10:20:51 AM	229.9	98.0
2/2/2019	10:20:52 AM	228.7	96.8
2/2/2019	10:20:53 AM	227.4	95.5
2/2/2019	10:20:54 AM	226.4	94.5
2/2/2019	10:20:55 AM	225.2	93.3
2/2/2019	10:20:56 AM	224.3	92.4
2/2/2019	10:20:57 AM	223.2	91.3
2/2/2019	10:20:58 AM	222.3	90.4
2/2/2019	10:20:59 AM	221.4	89.5
2/2/2019	10:21:00 AM	220.6	88.7
2/2/2019	10:21:01 AM	219.8	87.9
2/2/2019	10:21:02 AM	219.0	87.1
2/2/2019	10:21:03 AM	218.1	86.2
2/2/2019	10:21:04 AM	217.3	85.4
2/2/2019	10:21:05 AM	216.3	84.4
2/2/2019	10:21:06 AM	215.6	83.7
2/2/2019	10:21:07 AM	214.4	82.5
2/2/2019	10:21:08 AM	213.8	81.9
2/2/2019	10:21:09 AM	212.6	80.7
2/2/2019	10:21:10 AM	211.8	79.9
2/2/2019	10:21:11 AM	210.9	79.0
2/2/2019	10:21:12 AM	210.1	78.2
2/2/2019	10:21:13 AM	209.2	77.3

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:21:14 AM	208.5	76.6
2/2/2019	10:21:15 AM	207.8	75.9
2/2/2019	10:21:16 AM	207.2	75.3
2/2/2019	10:21:17 AM	206.5	74.6
2/2/2019	10:21:18 AM	205.9	74.0
2/2/2019	10:21:19 AM	205.2	73.3
2/2/2019	10:21:20 AM	204.5	72.6
2/2/2019	10:21:21 AM	203.7	71.8
2/2/2019	10:21:22 AM	202.9	71.0
2/2/2019	10:21:23 AM	202.1	70.2
2/2/2019	10:21:24 AM	201.3	69.4
2/2/2019	10:21:25 AM	200.5	68.6
2/2/2019	10:21:26 AM	199.7	67.8
2/2/2019	10:21:27 AM	198.9	67.0
2/2/2019	10:21:28 AM	198.1	66.2
2/2/2019	10:21:29 AM	197.3	65.4
2/2/2019	10:21:30 AM	196.5	64.6
2/2/2019	10:21:31 AM	195.7	63.8
2/2/2019	10:21:32 AM	195.1	63.2
2/2/2019	10:21:33 AM	194.5	62.6
2/2/2019	10:21:34 AM	194.1	62.2
2/2/2019	10:21:35 AM	193.5	61.6
2/2/2019	10:21:36 AM	192.9	61.0
2/2/2019	10:21:37 AM	192.3	60.4
2/2/2019	10:21:38 AM	191.8	59.9
2/2/2019	10:21:39 AM	191.2	59.3
2/2/2019	10:21:40 AM	190.6	58.7
2/2/2019	10:21:41 AM	190.0	58.1
2/2/2019	10:21:42 AM	189.5	57.6
2/2/2019	10:21:43 AM	188.9	57.0
2/2/2019	10:21:44 AM	188.4	56.5
2/2/2019	10:21:45 AM	187.7	55.8
2/2/2019	10:21:46 AM	187.0	55.1
2/2/2019	10:21:47 AM	186.2	54.3
2/2/2019	10:21:48 AM	185.7	53.8
2/2/2019	10:21:49 AM	185.0	53.1
2/2/2019	10:21:50 AM	184.4	52.5
2/2/2019	10:21:51 AM	183.9	52.0
2/2/2019	10:21:52 AM	183.4	51.5
2/2/2019	10:21:53 AM	182.9	51.0
2/2/2019	10:21:54 AM	182.3	50.4
2/2/2019	10:21:55 AM	181.7	49.8
2/2/2019	10:21:56 AM	181.0	49.1
2/2/2019	10:21:57 AM	180.4	48.5
2/2/2019	10:21:58 AM	179.8	47.9
2/2/2019	10:21:59 AM	179.3	47.4
2/2/2019	10:22:00 AM	178.7	46.8
2/2/2019	10:22:01 AM	178.1	46.2
2/2/2019	10:22:02 AM	177.5	45.6
2/2/2019	10:22:03 AM	176.9	45.0
2/2/2019	10:22:04 AM	176.3	44.4
2/2/2019	10:22:05 AM	175.8	43.9
2/2/2019	10:22:06 AM	175.1	43.2
2/2/2019	10:22:07 AM	174.6	42.7
2/2/2019	10:22:08 AM	174.1	42.2
2/2/2019	10:22:09 AM	173.7	41.8
2/2/2019	10:22:10 AM	173.2	41.3
2/2/2019	10:22:11 AM	172.8	40.9
2/2/2019	10:22:12 AM	172.3	40.4
2/2/2019	10:22:13 AM	171.9	40.0
2/2/2019	10:22:14 AM	171.5	39.6
2/2/2019	10:22:15 AM	171.1	39.2
2/2/2019	10:22:16 AM	170.6	38.7
2/2/2019	10:22:17 AM	170.2	38.3
2/2/2019	10:22:18 AM	169.7	37.8
2/2/2019	10:22:19 AM	169.4	37.5
2/2/2019	10:22:20 AM	169.0	37.1
2/2/2019	10:22:21 AM	168.6	36.7
2/2/2019	10:22:22 AM	168.2	36.3
2/2/2019	10:22:23 AM	167.8	35.9
2/2/2019	10:22:24 AM	167.4	35.5
2/2/2019	10:22:25 AM	167.1	35.2
2/2/2019	10:22:26 AM	166.8	34.9
2/2/2019	10:22:27 AM	166.4	34.5
2/2/2019	10:22:28 AM	166.1	34.2
2/2/2019	10:22:29 AM	165.8	33.9

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:22:30 AM	165.4	33.5
2/2/2019	10:22:31 AM	165.2	33.3
2/2/2019	10:22:32 AM	164.8	32.9
2/2/2019	10:22:33 AM	164.5	32.6
2/2/2019	10:22:34 AM	164.2	32.3
2/2/2019	10:22:35 AM	164.0	32.1
2/2/2019	10:22:36 AM	163.7	31.8
2/2/2019	10:22:37 AM	163.4	31.5
2/2/2019	10:22:38 AM	163.1	31.2
2/2/2019	10:22:39 AM	162.9	31.0
2/2/2019	10:22:40 AM	162.6	30.7
2/2/2019	10:22:41 AM	162.4	30.5
2/2/2019	10:22:42 AM	162.2	30.3
2/2/2019	10:22:43 AM	161.9	30.0
2/2/2019	10:22:44 AM	161.7	29.8
2/2/2019	10:22:45 AM	161.5	29.6
2/2/2019	10:22:46 AM	161.3	29.4
2/2/2019	10:22:47 AM	161.1	29.2
2/2/2019	10:22:48 AM	160.9	29.0
2/2/2019	10:22:49 AM	160.6	28.7
2/2/2019	10:22:50 AM	160.4	28.5
2/2/2019	10:22:51 AM	160.2	28.3
2/2/2019	10:22:52 AM	160.0	28.1
2/2/2019	10:22:53 AM	159.8	27.9
2/2/2019	10:22:54 AM	159.5	27.6
2/2/2019	10:22:55 AM	159.3	27.4
2/2/2019	10:22:56 AM	159.1	27.2
2/2/2019	10:22:57 AM	158.9	27.0
2/2/2019	10:22:58 AM	158.7	26.8
2/2/2019	10:22:59 AM	158.4	26.5
2/2/2019	10:23:00 AM	158.2	26.3
2/2/2019	10:23:01 AM	158.0	26.1
2/2/2019	10:23:02 AM	157.8	25.9
2/2/2019	10:23:03 AM	157.6	25.7
2/2/2019	10:23:04 AM	157.4	25.5
2/2/2019	10:23:05 AM	157.2	25.3
2/2/2019	10:23:06 AM	157.0	25.1
2/2/2019	10:23:07 AM	156.7	24.8
2/2/2019	10:23:08 AM	156.5	24.6
2/2/2019	10:23:09 AM	156.3	24.4
2/2/2019	10:23:10 AM	156.1	24.2
2/2/2019	10:23:11 AM	155.8	23.9
2/2/2019	10:23:12 AM	155.6	23.7
2/2/2019	10:23:13 AM	155.4	23.5
2/2/2019	10:23:14 AM	155.2	23.3
2/2/2019	10:23:15 AM	155.0	23.1
2/2/2019	10:23:16 AM	154.9	23.0
2/2/2019	10:23:17 AM	154.7	22.8
2/2/2019	10:23:18 AM	154.5	22.6
2/2/2019	10:23:19 AM	154.3	22.4
2/2/2019	10:23:20 AM	154.2	22.3
2/2/2019	10:23:21 AM	154.0	22.1
2/2/2019	10:23:22 AM	153.8	21.9
2/2/2019	10:23:23 AM	153.7	21.8
2/2/2019	10:23:24 AM	153.5	21.6
2/2/2019	10:23:25 AM	153.3	21.4
2/2/2019	10:23:26 AM	153.2	21.3
2/2/2019	10:23:27 AM	153.0	21.1
2/2/2019	10:23:28 AM	152.8	20.9
2/2/2019	10:23:29 AM	152.7	20.8
2/2/2019	10:23:30 AM	152.5	20.6
2/2/2019	10:23:31 AM	152.4	20.5
2/2/2019	10:23:32 AM	152.2	20.3
2/2/2019	10:23:33 AM	152.1	20.2
2/2/2019	10:23:34 AM	151.9	20.0
2/2/2019	10:23:35 AM	151.8	19.9
2/2/2019	10:23:36 AM	151.6	19.7
2/2/2019	10:23:37 AM	151.4	19.5
2/2/2019	10:23:38 AM	151.3	19.4
2/2/2019	10:23:39 AM	151.2	19.3
2/2/2019	10:23:40 AM	151.0	19.1
2/2/2019	10:23:41 AM	150.8	18.9
2/2/2019	10:23:42 AM	150.7	18.8
2/2/2019	10:23:43 AM	150.5	18.6
2/2/2019	10:23:44 AM	150.3	18.4
2/2/2019	10:23:45 AM	150.2	18.3

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:23:46 AM	150.0	18.1
2/2/2019	10:23:47 AM	149.9	18.0
2/2/2019	10:23:48 AM	149.7	17.8
2/2/2019	10:23:49 AM	149.6	17.7
2/2/2019	10:23:50 AM	149.4	17.5
2/2/2019	10:23:51 AM	149.3	17.4
2/2/2019	10:23:52 AM	149.1	17.2
2/2/2019	10:23:53 AM	149.0	17.1
2/2/2019	10:23:54 AM	148.9	17.0
2/2/2019	10:23:55 AM	148.8	16.9
2/2/2019	10:23:56 AM	148.7	16.8
2/2/2019	10:23:57 AM	148.6	16.7
2/2/2019	10:23:58 AM	148.4	16.5
2/2/2019	10:23:59 AM	148.3	16.4
2/2/2019	10:24:00 AM	148.2	16.3
2/2/2019	10:24:01 AM	148.1	16.2
2/2/2019	10:24:02 AM	148.0	16.1
2/2/2019	10:24:03 AM	147.9	16.0
2/2/2019	10:24:04 AM	147.8	15.9
2/2/2019	10:24:05 AM	147.7	15.8
2/2/2019	10:24:06 AM	147.6	15.7
2/2/2019	10:24:07 AM	147.5	15.6
2/2/2019	10:24:08 AM	147.4	15.5
2/2/2019	10:24:09 AM	147.3	15.4
2/2/2019	10:24:10 AM	147.1	15.2
2/2/2019	10:24:11 AM	147.0	15.1
2/2/2019	10:24:12 AM	146.9	15.0
2/2/2019	10:24:13 AM	146.8	14.9
2/2/2019	10:24:14 AM	146.7	14.8
2/2/2019	10:24:15 AM	146.6	14.7
2/2/2019	10:24:16 AM	146.5	14.6
2/2/2019	10:24:17 AM	146.4	14.5
2/2/2019	10:24:18 AM	146.2	14.3
2/2/2019	10:24:19 AM	146.2	14.3
2/2/2019	10:24:20 AM	146.1	14.2

APPENDIX E15: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-5 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-5 TEST-1	944	129.5	-
OLDOF-5 TEST-1	946	131	-
OLDOF-5 TEST-1	947	129.6	-
OLDOF-5 TEST-1	948	130.8	-
Geometric Mean		130.2	(µS/cms)
Average (pre-test)		131.9	(µS/cms)
Average (post-test)		-	(µS/cms)

Table E3 OLDOF-5 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-5 TEST-1	100	205.3	17.3
OLDOF-5 TEST-1	1,000	1,752.0	18.1
OLDOF-5 TEST-1	10,000	15,375.0	18.3
OLDOF-5 TEST-1	100,000	191,178.0	17.6

Table E4 OLDOF-5 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,100	mg
Slope of Calibration Curve	K	1.9081	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	64,527.20	(s) . (µS/cms)
Calculated Flow Rate	Q	8.87	L/s
		140.86	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:29:21 AM	134.5	-
2/2/2019	10:29:22 AM	134.5	-
2/2/2019	10:29:23 AM	134.4	-
2/2/2019	10:29:24 AM	134.4	-
2/2/2019	10:29:25 AM	134.4	-
2/2/2019	10:29:26 AM	134.4	-
2/2/2019	10:29:27 AM	134.4	-
2/2/2019	10:29:28 AM	134.4	-
2/2/2019	10:29:29 AM	134.4	-
2/2/2019	10:29:30 AM	134.3	-
2/2/2019	10:29:31 AM	134.3	-
2/2/2019	10:29:32 AM	134.3	-
2/2/2019	10:29:33 AM	134.3	-
2/2/2019	10:29:34 AM	134.3	-
2/2/2019	10:29:35 AM	134.3	-
2/2/2019	10:29:36 AM	134.3	-
2/2/2019	10:29:37 AM	134.2	-
2/2/2019	10:29:38 AM	134.2	-
2/2/2019	10:29:39 AM	134.2	-
2/2/2019	10:29:40 AM	134.2	-
2/2/2019	10:29:41 AM	134.2	-
2/2/2019	10:29:42 AM	134.1	-
2/2/2019	10:29:43 AM	134.1	-
2/2/2019	10:29:44 AM	134.1	-
2/2/2019	10:29:45 AM	134.1	-
2/2/2019	10:29:46 AM	134.1	-
2/2/2019	10:29:47 AM	134.0	-
2/2/2019	10:29:48 AM	134.0	-
2/2/2019	10:29:49 AM	134.0	-
2/2/2019	10:29:50 AM	134.0	-
2/2/2019	10:29:51 AM	134.0	-
2/2/2019	10:29:52 AM	134.0	-
2/2/2019	10:29:53 AM	134.0	-
2/2/2019	10:29:54 AM	133.9	-
2/2/2019	10:29:55 AM	133.9	-
2/2/2019	10:29:56 AM	133.9	-
2/2/2019	10:29:57 AM	133.9	-
2/2/2019	10:29:58 AM	133.9	-
2/2/2019	10:29:59 AM	133.9	-
2/2/2019	10:30:00 AM	133.9	-
2/2/2019	10:30:01 AM	133.9	-
2/2/2019	10:30:02 AM	133.9	-
2/2/2019	10:30:03 AM	133.8	-
2/2/2019	10:30:04 AM	133.8	-
2/2/2019	10:30:05 AM	133.8	-
2/2/2019	10:30:06 AM	133.8	-
2/2/2019	10:30:07 AM	133.8	-
2/2/2019	10:30:08 AM	133.8	-
2/2/2019	10:30:09 AM	133.7	-
2/2/2019	10:30:10 AM	133.7	-
2/2/2019	10:30:11 AM	133.7	-
2/2/2019	10:30:12 AM	133.7	-
2/2/2019	10:30:13 AM	133.7	-
2/2/2019	10:30:14 AM	133.7	-
2/2/2019	10:30:15 AM	133.7	-
2/2/2019	10:30:16 AM	133.7	-
2/2/2019	10:30:17 AM	133.7	-
2/2/2019	10:30:18 AM	133.7	-
2/2/2019	10:30:19 AM	133.7	-
2/2/2019	10:30:20 AM	133.7	-
2/2/2019	10:30:21 AM	133.6	-
2/2/2019	10:30:22 AM	133.6	-
2/2/2019	10:30:23 AM	133.6	-
2/2/2019	10:30:24 AM	133.6	-
2/2/2019	10:30:25 AM	133.6	-
2/2/2019	10:30:26 AM	133.6	-
2/2/2019	10:30:27 AM	133.6	-
2/2/2019	10:30:28 AM	133.6	-
2/2/2019	10:30:29 AM	133.6	-
2/2/2019	10:30:30 AM	133.6	-

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:30:31 AM	133.5	-
2/2/2019	10:30:32 AM	133.5	-
2/2/2019	10:30:33 AM	133.5	-
2/2/2019	10:30:34 AM	133.5	-
2/2/2019	10:30:35 AM	133.5	-
2/2/2019	10:30:36 AM	133.5	-
2/2/2019	10:30:37 AM	133.5	-
2/2/2019	10:30:38 AM	133.5	-
2/2/2019	10:30:39 AM	133.6	-
2/2/2019	10:30:40 AM	133.6	-
2/2/2019	10:30:41 AM	133.8	-
2/2/2019	10:30:42 AM	133.9	-
2/2/2019	10:30:43 AM	134.3	-
2/2/2019	10:30:44 AM	134.7	-
2/2/2019	10:30:45 AM	135.3	-
2/2/2019	10:30:46 AM	136.2	-
2/2/2019	10:30:47 AM	137.6	3.6
2/2/2019	10:30:48 AM	139.1	5.1
2/2/2019	10:30:49 AM	141.4	7.4
2/2/2019	10:30:50 AM	144.2	10.2
2/2/2019	10:30:51 AM	196.2	62.2
2/2/2019	10:30:52 AM	206.8	72.8
2/2/2019	10:30:53 AM	223.5	89.5
2/2/2019	10:30:54 AM	232.9	98.9
2/2/2019	10:30:55 AM	242.0	108.0
2/2/2019	10:30:56 AM	251.1	117.1
2/2/2019	10:30:57 AM	264.1	130.1
2/2/2019	10:30:58 AM	321.5	187.5
2/2/2019	10:30:59 AM	344.0	210.0
2/2/2019	10:31:00 AM	369.6	235.6
2/2/2019	10:31:01 AM	389.9	255.9
2/2/2019	10:31:02 AM	399.7	265.7
2/2/2019	10:31:03 AM	413.6	279.6
2/2/2019	10:31:04 AM	428.9	294.9
2/2/2019	10:31:05 AM	492.9	358.9
2/2/2019	10:31:06 AM	528.0	394.0
2/2/2019	10:31:07 AM	566.0	432.0
2/2/2019	10:31:08 AM	577.2	443.2
2/2/2019	10:31:09 AM	585.6	451.6
2/2/2019	10:31:10 AM	594.9	460.9
2/2/2019	10:31:11 AM	603.3	469.3
2/2/2019	10:31:12 AM	664.0	530.0
2/2/2019	10:31:13 AM	676.1	542.1
2/2/2019	10:31:14 AM	688.1	554.1
2/2/2019	10:31:15 AM	696.4	562.4
2/2/2019	10:31:16 AM	702.8	568.8
2/2/2019	10:31:17 AM	708.7	574.7
2/2/2019	10:31:18 AM	712.4	578.4
2/2/2019	10:31:19 AM	716.8	582.8
2/2/2019	10:31:20 AM	719.7	585.7
2/2/2019	10:31:21 AM	722.3	588.3
2/2/2019	10:31:22 AM	726.0	592.0
2/2/2019	10:31:23 AM	727.7	593.7
2/2/2019	10:31:24 AM	729.0	595.0
2/2/2019	10:31:25 AM	730.1	596.1
2/2/2019	10:31:26 AM	731.3	597.3
2/2/2019	10:31:27 AM	731.9	597.9
2/2/2019	10:31:28 AM	732.9	598.9
2/2/2019	10:31:29 AM	734.8	600.8
2/2/2019	10:31:30 AM	735.8	601.8
2/2/2019	10:31:31 AM	736.0	602.0
2/2/2019	10:31:32 AM	735.2	601.2
2/2/2019	10:31:33 AM	733.6	599.6
2/2/2019	10:31:34 AM	731.3	597.3
2/2/2019	10:31:35 AM	728.3	594.3
2/2/2019	10:31:36 AM	724.2	590.2
2/2/2019	10:31:37 AM	720.4	586.4
2/2/2019	10:31:38 AM	715.6	581.6
2/2/2019	10:31:39 AM	666.2	532.2
2/2/2019	10:31:40 AM	656.5	522.5
2/2/2019	10:31:41 AM	652.6	518.6
2/2/2019	10:31:42 AM	651.5	517.5
2/2/2019	10:31:43 AM	649.0	515.0
2/2/2019	10:31:44 AM	643.7	509.7
2/2/2019	10:31:45 AM	639.0	505.0

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:31:46 AM	633.9	499.9
2/2/2019	10:31:47 AM	629.9	495.9
2/2/2019	10:31:48 AM	626.1	492.1
2/2/2019	10:31:49 AM	622.7	488.7
2/2/2019	10:31:50 AM	618.7	484.7
2/2/2019	10:31:51 AM	614.9	480.9
2/2/2019	10:31:52 AM	610.7	476.7
2/2/2019	10:31:53 AM	562.7	428.7
2/2/2019	10:31:54 AM	556.5	422.5
2/2/2019	10:31:55 AM	553.7	419.7
2/2/2019	10:31:56 AM	552.5	418.5
2/2/2019	10:31:57 AM	549.0	415.0
2/2/2019	10:31:58 AM	545.2	411.2
2/2/2019	10:31:59 AM	540.6	406.6
2/2/2019	10:32:00 AM	537.3	403.3
2/2/2019	10:32:01 AM	533.9	399.9
2/2/2019	10:32:02 AM	531.0	397.0
2/2/2019	10:32:03 AM	528.2	394.2
2/2/2019	10:32:04 AM	525.8	391.8
2/2/2019	10:32:05 AM	522.7	388.7
2/2/2019	10:32:06 AM	519.7	385.7
2/2/2019	10:32:07 AM	516.5	382.5
2/2/2019	10:32:08 AM	513.8	379.8
2/2/2019	10:32:09 AM	508.6	374.6
2/2/2019	10:32:10 AM	503.0	369.0
2/2/2019	10:32:11 AM	497.2	363.2
2/2/2019	10:32:12 AM	492.2	358.2
2/2/2019	10:32:13 AM	486.3	352.3
2/2/2019	10:32:14 AM	481.3	347.3
2/2/2019	10:32:15 AM	475.7	341.7
2/2/2019	10:32:16 AM	470.8	336.8
2/2/2019	10:32:17 AM	464.9	330.9
2/2/2019	10:32:18 AM	460.2	326.2
2/2/2019	10:32:19 AM	455.1	321.1
2/2/2019	10:32:20 AM	450.5	316.5
2/2/2019	10:32:21 AM	445.2	311.2
2/2/2019	10:32:22 AM	440.9	306.9
2/2/2019	10:32:23 AM	436.1	302.1
2/2/2019	10:32:24 AM	431.8	297.8
2/2/2019	10:32:25 AM	427.1	293.1
2/2/2019	10:32:26 AM	423.3	289.3
2/2/2019	10:32:27 AM	418.8	284.8
2/2/2019	10:32:28 AM	414.8	280.8
2/2/2019	10:32:29 AM	410.4	276.4
2/2/2019	10:32:30 AM	406.8	272.8
2/2/2019	10:32:31 AM	402.8	268.8
2/2/2019	10:32:32 AM	399.3	265.3
2/2/2019	10:32:33 AM	395.5	261.5
2/2/2019	10:32:34 AM	392.2	258.2
2/2/2019	10:32:35 AM	388.3	254.3
2/2/2019	10:32:36 AM	384.3	250.3
2/2/2019	10:32:37 AM	380.9	246.9
2/2/2019	10:32:38 AM	376.9	242.9
2/2/2019	10:32:39 AM	373.4	239.4
2/2/2019	10:32:40 AM	369.6	235.6
2/2/2019	10:32:41 AM	366.5	232.5
2/2/2019	10:32:42 AM	362.9	228.9
2/2/2019	10:32:43 AM	359.9	225.9
2/2/2019	10:32:44 AM	356.4	222.4
2/2/2019	10:32:45 AM	353.5	219.5
2/2/2019	10:32:46 AM	350.3	216.3
2/2/2019	10:32:47 AM	347.5	213.5
2/2/2019	10:32:48 AM	344.3	210.3
2/2/2019	10:32:49 AM	341.6	207.6
2/2/2019	10:32:50 AM	338.7	204.7
2/2/2019	10:32:51 AM	336.3	202.3
2/2/2019	10:32:52 AM	333.7	199.7
2/2/2019	10:32:53 AM	331.3	197.3
2/2/2019	10:32:54 AM	328.6	194.6
2/2/2019	10:32:55 AM	326.2	192.2
2/2/2019	10:32:56 AM	323.4	189.4
2/2/2019	10:32:57 AM	321.1	187.1
2/2/2019	10:32:58 AM	318.3	184.3
2/2/2019	10:32:59 AM	316.1	182.1
2/2/2019	10:33:00 AM	313.6	179.6
2/2/2019	10:33:01 AM	311.5	177.5

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
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Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:33:02 AM	309.2	175.2
2/2/2019	10:33:03 AM	307.0	173.0
2/2/2019	10:33:04 AM	304.7	170.7
2/2/2019	10:33:05 AM	302.6	168.6
2/2/2019	10:33:06 AM	300.2	166.2
2/2/2019	10:33:07 AM	298.2	164.2
2/2/2019	10:33:08 AM	295.8	161.8
2/2/2019	10:33:09 AM	293.9	159.9
2/2/2019	10:33:10 AM	291.8	157.8
2/2/2019	10:33:11 AM	289.9	155.9
2/2/2019	10:33:12 AM	287.6	153.6
2/2/2019	10:33:13 AM	285.7	151.7
2/2/2019	10:33:14 AM	283.6	149.6
2/2/2019	10:33:15 AM	281.8	147.8
2/2/2019	10:33:16 AM	279.9	145.9
2/2/2019	10:33:17 AM	278.1	144.1
2/2/2019	10:33:18 AM	276.2	142.2
2/2/2019	10:33:19 AM	274.2	140.2
2/2/2019	10:33:20 AM	272.7	138.7
2/2/2019	10:33:21 AM	270.9	136.9
2/2/2019	10:33:22 AM	269.4	135.4
2/2/2019	10:33:23 AM	267.6	133.6
2/2/2019	10:33:24 AM	266.1	132.1
2/2/2019	10:33:25 AM	264.5	130.5
2/2/2019	10:33:26 AM	263.2	129.2
2/2/2019	10:33:27 AM	261.6	127.6
2/2/2019	10:33:28 AM	260.1	126.1
2/2/2019	10:33:29 AM	258.4	124.4
2/2/2019	10:33:30 AM	256.9	122.9
2/2/2019	10:33:31 AM	255.4	121.4
2/2/2019	10:33:32 AM	254.2	120.2
2/2/2019	10:33:33 AM	252.7	118.7
2/2/2019	10:33:34 AM	251.4	117.4
2/2/2019	10:33:35 AM	250.1	116.1
2/2/2019	10:33:36 AM	248.8	114.8
2/2/2019	10:33:37 AM	247.4	113.4
2/2/2019	10:33:38 AM	246.1	112.1
2/2/2019	10:33:39 AM	244.6	110.6
2/2/2019	10:33:40 AM	243.4	109.4
2/2/2019	10:33:41 AM	242.1	108.1
2/2/2019	10:33:42 AM	241.0	107.0
2/2/2019	10:33:43 AM	239.8	105.8
2/2/2019	10:33:44 AM	238.7	104.7
2/2/2019	10:33:45 AM	237.4	103.4
2/2/2019	10:33:46 AM	236.2	102.2
2/2/2019	10:33:47 AM	234.9	100.9
2/2/2019	10:33:48 AM	233.8	99.8
2/2/2019	10:33:49 AM	232.6	98.6
2/2/2019	10:33:50 AM	231.5	97.5
2/2/2019	10:33:51 AM	230.3	96.3
2/2/2019	10:33:52 AM	229.4	95.4
2/2/2019	10:33:53 AM	228.2	94.2
2/2/2019	10:33:54 AM	227.1	93.1
2/2/2019	10:33:55 AM	226.0	92.0
2/2/2019	10:33:56 AM	225.0	91.0
2/2/2019	10:33:57 AM	223.6	89.6
2/2/2019	10:33:58 AM	222.9	88.9
2/2/2019	10:33:59 AM	221.8	87.8
2/2/2019	10:34:00 AM	220.6	86.6
2/2/2019	10:34:01 AM	219.5	85.5
2/2/2019	10:34:02 AM	218.5	84.5
2/2/2019	10:34:03 AM	217.4	83.4
2/2/2019	10:34:04 AM	216.5	82.5
2/2/2019	10:34:05 AM	215.5	81.5
2/2/2019	10:34:06 AM	214.7	80.7
2/2/2019	10:34:07 AM	213.8	79.8
2/2/2019	10:34:08 AM	212.9	78.9
2/2/2019	10:34:09 AM	212.0	78.0
2/2/2019	10:34:10 AM	211.3	77.3
2/2/2019	10:34:11 AM	210.6	76.6
2/2/2019	10:34:12 AM	209.8	75.8
2/2/2019	10:34:13 AM	208.8	74.8
2/2/2019	10:34:14 AM	208.2	74.2
2/2/2019	10:34:15 AM	207.2	73.2
2/2/2019	10:34:16 AM	206.4	72.4
2/2/2019	10:34:17 AM	205.6	71.6

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:34:18 AM	204.7	70.7
2/2/2019	10:34:19 AM	203.9	69.9
2/2/2019	10:34:20 AM	203.1	69.1
2/2/2019	10:34:21 AM	202.3	68.3
2/2/2019	10:34:22 AM	201.4	67.4
2/2/2019	10:34:23 AM	200.6	66.6
2/2/2019	10:34:24 AM	199.8	65.8
2/2/2019	10:34:25 AM	199.1	65.1
2/2/2019	10:34:26 AM	198.3	64.3
2/2/2019	10:34:27 AM	197.6	63.6
2/2/2019	10:34:28 AM	196.9	62.9
2/2/2019	10:34:29 AM	196.3	62.3
2/2/2019	10:34:30 AM	195.5	61.5
2/2/2019	10:34:31 AM	194.9	60.9
2/2/2019	10:34:32 AM	194.2	60.2
2/2/2019	10:34:33 AM	193.6	59.6
2/2/2019	10:34:34 AM	193.0	59.0
2/2/2019	10:34:35 AM	192.5	58.5
2/2/2019	10:34:36 AM	191.8	57.8
2/2/2019	10:34:37 AM	191.2	57.2
2/2/2019	10:34:38 AM	190.5	56.5
2/2/2019	10:34:39 AM	190.0	56.0
2/2/2019	10:34:40 AM	189.3	55.3
2/2/2019	10:34:41 AM	188.8	54.8
2/2/2019	10:34:42 AM	188.2	54.2
2/2/2019	10:34:43 AM	187.7	53.7
2/2/2019	10:34:44 AM	187.2	53.2
2/2/2019	10:34:45 AM	186.7	52.7
2/2/2019	10:34:46 AM	186.2	52.2
2/2/2019	10:34:47 AM	185.6	51.6
2/2/2019	10:34:48 AM	184.9	50.9
2/2/2019	10:34:49 AM	184.4	50.4
2/2/2019	10:34:50 AM	183.8	49.8
2/2/2019	10:34:51 AM	183.4	49.4
2/2/2019	10:34:52 AM	182.8	48.8
2/2/2019	10:34:53 AM	182.3	48.3
2/2/2019	10:34:54 AM	181.9	47.9
2/2/2019	10:34:55 AM	181.4	47.4
2/2/2019	10:34:56 AM	180.9	46.9
2/2/2019	10:34:57 AM	180.4	46.4
2/2/2019	10:34:58 AM	179.9	45.9
2/2/2019	10:34:59 AM	179.4	45.4
2/2/2019	10:35:00 AM	179.0	45.0
2/2/2019	10:35:01 AM	178.6	44.6
2/2/2019	10:35:02 AM	178.2	44.2
2/2/2019	10:35:03 AM	177.7	43.7
2/2/2019	10:35:04 AM	177.3	43.3
2/2/2019	10:35:05 AM	176.8	42.8
2/2/2019	10:35:06 AM	176.4	42.4
2/2/2019	10:35:07 AM	175.9	41.9
2/2/2019	10:35:08 AM	175.4	41.4
2/2/2019	10:35:09 AM	175.0	41.0
2/2/2019	10:35:10 AM	174.6	40.6
2/2/2019	10:35:11 AM	174.2	40.2
2/2/2019	10:35:12 AM	173.8	39.8
2/2/2019	10:35:13 AM	173.4	39.4
2/2/2019	10:35:14 AM	173.0	39.0
2/2/2019	10:35:15 AM	172.6	38.6
2/2/2019	10:35:16 AM	172.3	38.3
2/2/2019	10:35:17 AM	171.9	37.9
2/2/2019	10:35:18 AM	171.5	37.5
2/2/2019	10:35:19 AM	171.1	37.1
2/2/2019	10:35:20 AM	170.7	36.7
2/2/2019	10:35:21 AM	170.3	36.3
2/2/2019	10:35:22 AM	170.0	36.0
2/2/2019	10:35:23 AM	169.6	35.6
2/2/2019	10:35:24 AM	169.3	35.3
2/2/2019	10:35:25 AM	168.9	34.9
2/2/2019	10:35:26 AM	168.6	34.6
2/2/2019	10:35:27 AM	168.3	34.3
2/2/2019	10:35:28 AM	168.0	34.0
2/2/2019	10:35:29 AM	167.7	33.7
2/2/2019	10:35:30 AM	167.5	33.5
2/2/2019	10:35:31 AM	167.3	33.3
2/2/2019	10:35:32 AM	167.1	33.1
2/2/2019	10:35:33 AM	166.8	32.8

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:35:34 AM	166.6	32.6
2/2/2019	10:35:35 AM	166.3	32.3
2/2/2019	10:35:36 AM	166.1	32.1
2/2/2019	10:35:37 AM	165.8	31.8
2/2/2019	10:35:38 AM	165.5	31.5
2/2/2019	10:35:39 AM	165.3	31.3
2/2/2019	10:35:40 AM	165.0	31.0
2/2/2019	10:35:41 AM	164.7	30.7
2/2/2019	10:35:42 AM	164.4	30.4
2/2/2019	10:35:43 AM	164.1	30.1
2/2/2019	10:35:44 AM	163.7	29.7
2/2/2019	10:35:45 AM	163.5	29.5
2/2/2019	10:35:46 AM	163.2	29.2
2/2/2019	10:35:47 AM	162.9	28.9
2/2/2019	10:35:48 AM	162.6	28.6
2/2/2019	10:35:49 AM	162.4	28.4
2/2/2019	10:35:50 AM	162.1	28.1
2/2/2019	10:35:51 AM	161.9	27.9
2/2/2019	10:35:52 AM	161.6	27.6
2/2/2019	10:35:53 AM	161.4	27.4
2/2/2019	10:35:54 AM	161.1	27.1
2/2/2019	10:35:55 AM	160.9	26.9
2/2/2019	10:35:56 AM	160.7	26.7
2/2/2019	10:35:57 AM	160.5	26.5
2/2/2019	10:35:58 AM	160.2	26.2
2/2/2019	10:35:59 AM	160.0	26.0
2/2/2019	10:36:00 AM	159.8	25.8
2/2/2019	10:36:01 AM	159.5	25.5
2/2/2019	10:36:02 AM	159.3	25.3
2/2/2019	10:36:03 AM	159.1	25.1
2/2/2019	10:36:04 AM	158.9	24.9
2/2/2019	10:36:05 AM	158.7	24.7
2/2/2019	10:36:06 AM	158.4	24.4
2/2/2019	10:36:07 AM	158.2	24.2
2/2/2019	10:36:08 AM	158.0	24.0
2/2/2019	10:36:09 AM	157.8	23.8
2/2/2019	10:36:10 AM	157.6	23.6
2/2/2019	10:36:11 AM	157.4	23.4
2/2/2019	10:36:12 AM	157.2	23.2
2/2/2019	10:36:13 AM	157.0	23.0
2/2/2019	10:36:14 AM	156.8	22.8
2/2/2019	10:36:15 AM	156.6	22.6
2/2/2019	10:36:16 AM	156.4	22.4
2/2/2019	10:36:17 AM	156.2	22.2
2/2/2019	10:36:18 AM	156.1	22.1
2/2/2019	10:36:19 AM	155.9	21.9
2/2/2019	10:36:20 AM	155.7	21.7
2/2/2019	10:36:21 AM	155.5	21.5
2/2/2019	10:36:22 AM	155.3	21.3
2/2/2019	10:36:23 AM	155.1	21.1
2/2/2019	10:36:24 AM	154.9	20.9
2/2/2019	10:36:25 AM	154.8	20.8
2/2/2019	10:36:26 AM	154.6	20.6
2/2/2019	10:36:27 AM	154.4	20.4
2/2/2019	10:36:28 AM	154.3	20.3
2/2/2019	10:36:29 AM	154.1	20.1
2/2/2019	10:36:30 AM	153.9	19.9
2/2/2019	10:36:31 AM	153.7	19.7
2/2/2019	10:36:32 AM	153.6	19.6
2/2/2019	10:36:33 AM	153.5	19.5
2/2/2019	10:36:34 AM	153.3	19.3
2/2/2019	10:36:35 AM	153.2	19.2
2/2/2019	10:36:36 AM	153.1	19.1
2/2/2019	10:36:37 AM	152.9	18.9
2/2/2019	10:36:38 AM	152.8	18.8
2/2/2019	10:36:39 AM	152.7	18.7
2/2/2019	10:36:40 AM	152.6	18.6
2/2/2019	10:36:41 AM	152.4	18.4
2/2/2019	10:36:42 AM	152.3	18.3
2/2/2019	10:36:43 AM	152.2	18.2
2/2/2019	10:36:44 AM	152.1	18.1
2/2/2019	10:36:45 AM	151.9	17.9
2/2/2019	10:36:46 AM	151.8	17.8
2/2/2019	10:36:47 AM	151.6	17.6
2/2/2019	10:36:48 AM	151.5	17.5
2/2/2019	10:36:49 AM	151.3	17.3

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:36:50 AM	151.1	17.1
2/2/2019	10:36:51 AM	151.0	17.0
2/2/2019	10:36:52 AM	150.8	16.8
2/2/2019	10:36:53 AM	150.6	16.6
2/2/2019	10:36:54 AM	150.4	16.4
2/2/2019	10:36:55 AM	150.2	16.2
2/2/2019	10:36:56 AM	150.1	16.1
2/2/2019	10:36:57 AM	150.0	16.0
2/2/2019	10:36:58 AM	149.8	15.8
2/2/2019	10:36:59 AM	149.7	15.7
2/2/2019	10:37:00 AM	149.5	15.5
2/2/2019	10:37:01 AM	149.4	15.4
2/2/2019	10:37:02 AM	149.2	15.2
2/2/2019	10:37:03 AM	149.1	15.1
2/2/2019	10:37:04 AM	149.0	15.0
2/2/2019	10:37:05 AM	148.9	14.9
2/2/2019	10:37:06 AM	148.9	14.9
2/2/2019	10:37:07 AM	148.8	14.8
2/2/2019	10:37:08 AM	148.7	14.7
2/2/2019	10:37:09 AM	148.6	14.6
2/2/2019	10:37:10 AM	148.5	14.5
2/2/2019	10:37:11 AM	148.4	14.4
2/2/2019	10:37:12 AM	148.3	14.3
2/2/2019	10:37:13 AM	148.2	14.2
2/2/2019	10:37:14 AM	148.1	14.1
2/2/2019	10:37:15 AM	148.0	14.0
2/2/2019	10:37:16 AM	147.9	13.9
2/2/2019	10:37:17 AM	147.8	13.8
2/2/2019	10:37:18 AM	147.7	13.7
2/2/2019	10:37:19 AM	147.6	13.6
2/2/2019	10:37:20 AM	147.5	13.5
2/2/2019	10:37:21 AM	147.4	13.4
2/2/2019	10:37:22 AM	147.3	13.3
2/2/2019	10:37:23 AM	147.2	13.2
2/2/2019	10:37:24 AM	147.1	13.1
2/2/2019	10:37:25 AM	147.0	13.0
2/2/2019	10:37:26 AM	146.9	12.9
2/2/2019	10:37:27 AM	146.8	12.8
2/2/2019	10:37:28 AM	146.7	12.7
2/2/2019	10:37:29 AM	146.6	12.6
2/2/2019	10:37:30 AM	146.5	12.5
2/2/2019	10:37:31 AM	146.4	12.4
2/2/2019	10:37:32 AM	146.3	12.3
2/2/2019	10:37:33 AM	146.3	12.3
2/2/2019	10:37:34 AM	146.2	12.2
2/2/2019	10:37:35 AM	146.1	12.1
2/2/2019	10:37:36 AM	146.0	12.0
2/2/2019	10:37:37 AM	145.9	11.9
2/2/2019	10:37:38 AM	145.8	11.8
2/2/2019	10:37:39 AM	145.7	11.7
2/2/2019	10:37:40 AM	145.6	11.6
2/2/2019	10:37:41 AM	145.5	11.5
2/2/2019	10:37:42 AM	145.4	11.4
2/2/2019	10:37:43 AM	145.4	11.4
2/2/2019	10:37:44 AM	145.3	11.3
2/2/2019	10:37:45 AM	145.2	11.2
2/2/2019	10:37:46 AM	145.1	11.1
2/2/2019	10:37:47 AM	145.0	11.0
2/2/2019	10:37:48 AM	144.9	10.9
2/2/2019	10:37:49 AM	144.8	10.8
2/2/2019	10:37:50 AM	144.8	10.8
2/2/2019	10:37:51 AM	144.7	10.7
2/2/2019	10:37:52 AM	144.6	10.6
2/2/2019	10:37:53 AM	144.5	10.5
2/2/2019	10:37:54 AM	144.4	10.4
2/2/2019	10:37:55 AM	144.3	10.3
2/2/2019	10:37:56 AM	144.3	10.3
2/2/2019	10:37:57 AM	144.2	10.2
2/2/2019	10:37:58 AM	144.1	10.1
2/2/2019	10:37:59 AM	144.0	10.0
2/2/2019	10:38:00 AM	144.0	10.0
2/2/2019	10:38:01 AM	143.9	9.9
2/2/2019	10:38:02 AM	143.8	9.8
2/2/2019	10:38:03 AM	143.7	9.7
2/2/2019	10:38:04 AM	143.6	9.6
2/2/2019	10:38:05 AM	143.6	9.6

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-5 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	10:38:06 AM	143.5	9.5
2/2/2019	10:38:07 AM	143.4	9.4
2/2/2019	10:38:08 AM	143.3	9.3
2/2/2019	10:38:09 AM	143.2	9.2
2/2/2019	10:38:10 AM	143.1	9.1
2/2/2019	10:38:11 AM	143.1	9.1
2/2/2019	10:38:12 AM	143.0	9.0

APPENDIX E16: SALT DILUTION GAUGING SUMMARY
Old Outfall-5 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-5 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-5 TEST-2	944	129.5	-
OLDOF-5 TEST-2	946	131	-
OLDOF-5 TEST-2	947	129.6	-
OLDOF-5 TEST-2	948	130.8	-
Geometric Mean		130.2	(µS/cms)
Average (pre-test)		134.0	(µS/cms)
Average (post-test)		-	(µS/cms)

Table E3 OLDOF-5 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-5 TEST-2	100	205.3	17.3
OLDOF-5 TEST-2	1,000	1,752.0	18.1
OLDOF-5 TEST-2	10,000	15,375.0	18.3
OLDOF-5 TEST-2	100,000	191,178.0	17.6

Table E4 OLDOF-5 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,700	mg
Slope of Calibration Curve	K	1.9081	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	63,825.34	(s) . (µS/cms)
Calculated Flow Rate	Q	8.99	L/s
		142.69	GPM

Notes:

°C degrees celsius
mg/L miligrams per liter
µS/cms microSiemens per centimeter second
GPM gallons per minute
s second
Ect raw electronic conductivty during test
Ecbkg background electronic conductivity value
Δt time interval between conductivity readings (1 second)
Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E17: SALT DILUTION GAUGING SUMMARY
Old Outfall-TR-1 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-TR-1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	4:00:54 PM	171.9	-
2/2/2019	4:00:55 PM	171.8	-
2/2/2019	4:00:56 PM	171.7	-
2/2/2019	4:00:57 PM	171.7	-
2/2/2019	4:00:58 PM	171.6	-
2/2/2019	4:00:59 PM	171.5	-
2/2/2019	4:01:00 PM	171.4	-
2/2/2019	4:01:01 PM	171.3	-
2/2/2019	4:01:02 PM	171.2	-
2/2/2019	4:01:03 PM	171.1	-
2/2/2019	4:01:04 PM	171.0	-
2/2/2019	4:01:05 PM	170.9	-
2/2/2019	4:01:06 PM	170.9	-
2/2/2019	4:01:07 PM	170.8	-
2/2/2019	4:01:08 PM	170.8	-
2/2/2019	4:01:09 PM	170.7	-
2/2/2019	4:01:10 PM	170.7	-
2/2/2019	4:01:11 PM	170.7	-
2/2/2019	4:01:12 PM	170.7	-
2/2/2019	4:01:13 PM	170.8	-
2/2/2019	4:01:14 PM	170.8	-
2/2/2019	4:01:15 PM	170.8	-
2/2/2019	4:01:16 PM	170.8	-
2/2/2019	4:01:17 PM	170.9	-
2/2/2019	4:01:18 PM	170.9	-
2/2/2019	4:01:19 PM	170.9	-
2/2/2019	4:01:20 PM	170.9	-
2/2/2019	4:01:21 PM	170.9	-
2/2/2019	4:01:22 PM	170.9	-
2/2/2019	4:01:23 PM	170.8	-
2/2/2019	4:01:24 PM	170.8	-
2/2/2019	4:01:25 PM	170.9	-
2/2/2019	4:01:26 PM	171.0	-
2/2/2019	4:01:27 PM	171.7	-
2/2/2019	4:01:28 PM	173.2	-
2/2/2019	4:01:29 PM	278.4	107.3
2/2/2019	4:01:30 PM	392.2	221.1
2/2/2019	4:01:31 PM	461.6	290.5
2/2/2019	4:01:32 PM	618.6	447.5
2/2/2019	4:01:33 PM	767.5	596.4
2/2/2019	4:01:34 PM	870.7	699.6
2/2/2019	4:01:35 PM	1086.0	914.9
2/2/2019	4:01:36 PM	1223.8	1052.7
2/2/2019	4:01:37 PM	1302.6	1131.5
2/2/2019	4:01:38 PM	1352.3	1181.2
2/2/2019	4:01:39 PM	1377.6	1206.5
2/2/2019	4:01:40 PM	1391.7	1220.6
2/2/2019	4:01:41 PM	1401.0	1229.9
2/2/2019	4:01:42 PM	1402.4	1231.3
2/2/2019	4:01:43 PM	1396.2	1225.1
2/2/2019	4:01:44 PM	1390.0	1218.9
2/2/2019	4:01:45 PM	1298.2	1127.1
2/2/2019	4:01:46 PM	1270.5	1099.4
2/2/2019	4:01:47 PM	1230.0	1058.9
2/2/2019	4:01:48 PM	1185.0	1013.9
2/2/2019	4:01:49 PM	1172.6	1001.5
2/2/2019	4:01:50 PM	1149.4	978.3
2/2/2019	4:01:51 PM	1035.7	864.6
2/2/2019	4:01:52 PM	1000.6	829.5
2/2/2019	4:01:53 PM	946.0	774.9
2/2/2019	4:01:54 PM	925.5	754.4
2/2/2019	4:01:55 PM	906.9	735.8
2/2/2019	4:01:56 PM	803.3	632.2
2/2/2019	4:01:57 PM	769.5	598.4
2/2/2019	4:01:58 PM	739.0	567.9
2/2/2019	4:01:59 PM	731.3	560.2
2/2/2019	4:02:00 PM	634.7	463.6
2/2/2019	4:02:01 PM	640.4	469.3
2/2/2019	4:02:02 PM	630.6	459.5

APPENDIX E17: SALT DILUTION GAUGING SUMMARY
Old Outfall-TR-1 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-TR-1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	4:02:03 PM	614.5	443.4
2/2/2019	4:02:04 PM	593.9	422.8
2/2/2019	4:02:05 PM	577.9	406.8
2/2/2019	4:02:06 PM	503.1	332.0
2/2/2019	4:02:07 PM	485.2	314.1
2/2/2019	4:02:08 PM	465.3	294.2
2/2/2019	4:02:09 PM	458.6	287.5
2/2/2019	4:02:10 PM	447.2	276.1
2/2/2019	4:02:11 PM	438.7	267.6
2/2/2019	4:02:12 PM	429.8	258.7
2/2/2019	4:02:13 PM	421.9	250.8
2/2/2019	4:02:14 PM	412.8	241.7
2/2/2019	4:02:15 PM	405.9	234.8
2/2/2019	4:02:16 PM	345.8	174.7
2/2/2019	4:02:17 PM	337.6	166.5
2/2/2019	4:02:18 PM	323.2	152.1
2/2/2019	4:02:19 PM	318.1	147.0
2/2/2019	4:02:20 PM	313.7	142.6
2/2/2019	4:02:21 PM	309.6	138.5
2/2/2019	4:02:22 PM	305.3	134.2
2/2/2019	4:02:23 PM	302.0	130.9
2/2/2019	4:02:24 PM	298.0	126.9
2/2/2019	4:02:25 PM	294.6	123.5
2/2/2019	4:02:26 PM	290.8	119.7
2/2/2019	4:02:27 PM	287.8	116.7
2/2/2019	4:02:28 PM	284.4	113.3
2/2/2019	4:02:29 PM	281.5	110.4
2/2/2019	4:02:30 PM	278.4	107.3
2/2/2019	4:02:31 PM	275.8	104.7
2/2/2019	4:02:32 PM	272.4	101.3
2/2/2019	4:02:33 PM	267.0	95.9
2/2/2019	4:02:34 PM	261.2	90.1
2/2/2019	4:02:35 PM	256.4	85.3
2/2/2019	4:02:36 PM	251.3	80.2
2/2/2019	4:02:37 PM	247.1	76.0
2/2/2019	4:02:38 PM	242.8	71.7
2/2/2019	4:02:39 PM	239.3	68.2
2/2/2019	4:02:40 PM	235.4	64.3
2/2/2019	4:02:41 PM	232.2	61.1
2/2/2019	4:02:42 PM	229.0	57.9
2/2/2019	4:02:43 PM	226.3	55.2
2/2/2019	4:02:44 PM	223.3	52.2
2/2/2019	4:02:45 PM	220.9	49.8
2/2/2019	4:02:46 PM	218.3	47.2
2/2/2019	4:02:47 PM	216.2	45.1
2/2/2019	4:02:48 PM	213.8	42.7
2/2/2019	4:02:49 PM	211.9	40.8
2/2/2019	4:02:50 PM	209.9	38.8
2/2/2019	4:02:51 PM	207.9	36.8
2/2/2019	4:02:52 PM	206.2	35.1
2/2/2019	4:02:53 PM	204.5	33.4
2/2/2019	4:02:54 PM	203.0	31.9
2/2/2019	4:02:55 PM	201.5	30.4
2/2/2019	4:02:56 PM	200.3	29.2
2/2/2019	4:02:57 PM	199.1	28.0
2/2/2019	4:02:58 PM	198.1	27.0
2/2/2019	4:02:59 PM	197.0	25.9
2/2/2019	4:03:00 PM	196.2	25.1
2/2/2019	4:03:01 PM	195.2	24.1
2/2/2019	4:03:02 PM	194.5	23.4
2/2/2019	4:03:03 PM	193.7	22.6
2/2/2019	4:03:04 PM	193.0	21.9
2/2/2019	4:03:05 PM	192.3	21.2
2/2/2019	4:03:06 PM	191.8	20.7
2/2/2019	4:03:07 PM	191.1	20.0
2/2/2019	4:03:08 PM	190.6	19.5
2/2/2019	4:03:09 PM	189.9	18.8
2/2/2019	4:03:10 PM	189.4	18.3
2/2/2019	4:03:11 PM	188.7	17.6
2/2/2019	4:03:12 PM	188.2	17.1
2/2/2019	4:03:13 PM	187.5	16.4
2/2/2019	4:03:14 PM	187.0	15.9
2/2/2019	4:03:15 PM	186.4	15.3
2/2/2019	4:03:16 PM	186.0	14.9

Table E1 OLDOF-TR-1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	4:03:17 PM	185.5	14.4
2/2/2019	4:03:18 PM	185.1	14.0
2/2/2019	4:03:19 PM	184.6	13.5
2/2/2019	4:03:20 PM	184.2	13.1
2/2/2019	4:03:21 PM	183.8	12.7
2/2/2019	4:03:22 PM	183.5	12.4
2/2/2019	4:03:23 PM	183.1	12.0
2/2/2019	4:03:24 PM	182.9	11.8
2/2/2019	4:03:25 PM	182.6	11.5
2/2/2019	4:03:26 PM	182.3	11.2
2/2/2019	4:03:27 PM	182.0	10.9
2/2/2019	4:03:28 PM	181.8	10.7
2/2/2019	4:03:29 PM	181.5	10.4
2/2/2019	4:03:30 PM	181.2	10.1
2/2/2019	4:03:31 PM	180.9	9.8
2/2/2019	4:03:32 PM	180.6	9.5
2/2/2019	4:03:33 PM	180.3	9.2
2/2/2019	4:03:34 PM	180.1	9.0
2/2/2019	4:03:35 PM	179.9	8.8
2/2/2019	4:03:36 PM	179.7	8.6
2/2/2019	4:03:37 PM	179.5	8.4
2/2/2019	4:03:38 PM	179.3	8.2
2/2/2019	4:03:39 PM	179.2	8.1
2/2/2019	4:03:40 PM	179.0	7.9
2/2/2019	4:03:41 PM	178.9	7.8
2/2/2019	4:03:42 PM	178.8	7.7
2/2/2019	4:03:43 PM	178.6	7.5
2/2/2019	4:03:44 PM	178.5	7.4
2/2/2019	4:03:45 PM	178.4	7.3
2/2/2019	4:03:46 PM	178.3	7.2
2/2/2019	4:03:47 PM	178.1	7.0
2/2/2019	4:03:48 PM	178.0	6.9
2/2/2019	4:03:49 PM	177.8	6.7
2/2/2019	4:03:50 PM	177.6	6.5
2/2/2019	4:03:51 PM	177.4	6.3
2/2/2019	4:03:52 PM	177.2	6.1
2/2/2019	4:03:53 PM	177.0	5.9
2/2/2019	4:03:54 PM	176.9	5.8
2/2/2019	4:03:55 PM	176.7	5.6
2/2/2019	4:03:56 PM	176.5	5.4
2/2/2019	4:03:57 PM	176.3	5.2
2/2/2019	4:03:58 PM	176.2	5.1
2/2/2019	4:03:59 PM	176.0	4.9
2/2/2019	4:04:00 PM	175.9	4.8
2/2/2019	4:04:01 PM	175.7	4.6
2/2/2019	4:04:02 PM	175.6	4.5
2/2/2019	4:04:03 PM	175.4	4.3
2/2/2019	4:04:04 PM	175.3	4.2
2/2/2019	4:04:05 PM	175.1	4.0
2/2/2019	4:04:06 PM	175.0	3.9
2/2/2019	4:04:07 PM	174.9	3.8
2/2/2019	4:04:08 PM	174.8	-
2/2/2019	4:04:09 PM	174.6	-
2/2/2019	4:04:10 PM	174.5	-
2/2/2019	4:04:11 PM	174.4	-
2/2/2019	4:04:12 PM	174.3	-

APPENDIX E17: SALT DILUTION GAUGING SUMMARY
Old Outfall-TR-1 Test-1 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-TR-1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-TR-1 TEST-1	1534	166.9	10.3
OLDOF-TR-1 TEST-1	1536	157.9	10
OLDOF-TR-1 TEST-1	1538	150.0	9.9
Geometric Mean		158.1	(µS/cms)
Average (pre-test)		171.1	(µS/cms)
Average (post-test)		174.6	(µS/cms)

Table E3 OLDOF-TR-1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-TR-1 TEST-1	100	202.2	17.4
OLDOF-TR-1 TEST-1	1,000	1,718.0	17.8
OLDOF-TR-1 TEST-1	10,000	14,826.0	17.3
OLDOF-TR-1 TEST-1	100,000	116,811.0	17.7

Table E4 OLDOF-TR-1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	150,000	mg
Slope of Calibration Curve	K	1.1713	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	36,346.71	(s) . (µS/cms)
Calculated Flow Rate	Q	4.83	L/s
		76.73	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E18: SALT DILUTION GAUGING SUMMARY
Old Outfall-TR-1 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-TR-1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	4:10:10 PM	170.1	-
2/2/2019	4:10:11 PM	170.1	-
2/2/2019	4:10:12 PM	170.0	-
2/2/2019	4:10:13 PM	169.9	-
2/2/2019	4:10:14 PM	169.9	-
2/2/2019	4:10:15 PM	169.8	-
2/2/2019	4:10:16 PM	169.7	-
2/2/2019	4:10:17 PM	169.6	-
2/2/2019	4:10:18 PM	169.4	-
2/2/2019	4:10:19 PM	169.3	-
2/2/2019	4:10:20 PM	169.2	-
2/2/2019	4:10:21 PM	169.1	-
2/2/2019	4:10:22 PM	169.0	-
2/2/2019	4:10:23 PM	168.9	-
2/2/2019	4:10:24 PM	168.8	-
2/2/2019	4:10:25 PM	168.7	-
2/2/2019	4:10:26 PM	168.6	-
2/2/2019	4:10:27 PM	168.5	-
2/2/2019	4:10:28 PM	168.4	-
2/2/2019	4:10:29 PM	168.3	-
2/2/2019	4:10:30 PM	168.2	-
2/2/2019	4:10:31 PM	168.1	-
2/2/2019	4:10:32 PM	168.0	-
2/2/2019	4:10:33 PM	168.1	-
2/2/2019	4:10:34 PM	169.3	-
2/2/2019	4:10:35 PM	239.7	70.6
2/2/2019	4:10:36 PM	355.2	186.1
2/2/2019	4:10:37 PM	496.6	327.5
2/2/2019	4:10:38 PM	623.5	454.4
2/2/2019	4:10:39 PM	740.1	571.0
2/2/2019	4:10:40 PM	1318.7	1149.6
2/2/2019	4:10:41 PM	1353.2	1184.1
2/2/2019	4:10:42 PM	1503.3	1334.2
2/2/2019	4:10:43 PM	1526.3	1357.2
2/2/2019	4:10:44 PM	1571.2	1402.1
2/2/2019	4:10:45 PM	1598.7	1429.6
2/2/2019	4:10:46 PM	1615.6	1446.5
2/2/2019	4:10:47 PM	1615.8	1446.7
2/2/2019	4:10:48 PM	1606.0	1436.9
2/2/2019	4:10:49 PM	1466.1	1297.0
2/2/2019	4:10:50 PM	1402.1	1233.0
2/2/2019	4:10:51 PM	1330.9	1161.8
2/2/2019	4:10:52 PM	1292.9	1123.8
2/2/2019	4:10:53 PM	1148.3	979.2
2/2/2019	4:10:54 PM	1069.1	900.0
2/2/2019	4:10:55 PM	1006.6	837.5
2/2/2019	4:10:56 PM	972.7	803.6
2/2/2019	4:10:57 PM	945.7	776.6
2/2/2019	4:10:58 PM	914.6	745.5
2/2/2019	4:10:59 PM	803.5	634.4
2/2/2019	4:11:00 PM	764.8	595.7
2/2/2019	4:11:01 PM	743.2	574.1
2/2/2019	4:11:02 PM	741.9	572.8
2/2/2019	4:11:03 PM	619.3	450.2
2/2/2019	4:11:04 PM	606.0	436.9
2/2/2019	4:11:05 PM	588.8	419.7
2/2/2019	4:11:06 PM	578.9	409.8
2/2/2019	4:11:07 PM	567.0	397.9
2/2/2019	4:11:08 PM	555.2	386.1
2/2/2019	4:11:09 PM	484.4	315.3
2/2/2019	4:11:10 PM	465.7	296.6
2/2/2019	4:11:11 PM	443.9	274.8
2/2/2019	4:11:12 PM	434.4	265.3
2/2/2019	4:11:13 PM	424.5	255.4
2/2/2019	4:11:14 PM	415.7	246.6
2/2/2019	4:11:15 PM	405.9	236.8
2/2/2019	4:11:16 PM	398.3	229.2
2/2/2019	4:11:17 PM	388.7	219.6
2/2/2019	4:11:18 PM	382.3	213.2

APPENDIX E18: SALT DILUTION GAUGING SUMMARY
Old Outfall-TR-1 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E1 OLDOF-TR-1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/2/2019	4:11:19 PM	375.7	206.6
2/2/2019	4:11:20 PM	317.3	148.2
2/2/2019	4:11:21 PM	307.8	138.7
2/2/2019	4:11:22 PM	300.4	131.3
2/2/2019	4:11:23 PM	296.7	127.6
2/2/2019	4:11:24 PM	293.2	124.1
2/2/2019	4:11:25 PM	288.6	119.5
2/2/2019	4:11:26 PM	286.1	117.0
2/2/2019	4:11:27 PM	282.2	113.1
2/2/2019	4:11:28 PM	279.0	109.9
2/2/2019	4:11:29 PM	274.6	105.5
2/2/2019	4:11:30 PM	271.8	102.7
2/2/2019	4:11:31 PM	268.8	99.7
2/2/2019	4:11:32 PM	267.0	97.9
2/2/2019	4:11:33 PM	263.4	94.3
2/2/2019	4:11:34 PM	261.1	92.0
2/2/2019	4:11:35 PM	258.5	89.4
2/2/2019	4:11:36 PM	256.0	86.9
2/2/2019	4:11:37 PM	250.6	81.5
2/2/2019	4:11:38 PM	246.2	77.1
2/2/2019	4:11:39 PM	241.6	72.5
2/2/2019	4:11:40 PM	238.9	69.8
2/2/2019	4:11:41 PM	233.8	64.7
2/2/2019	4:11:42 PM	230.6	61.5
2/2/2019	4:11:43 PM	227.9	58.8
2/2/2019	4:11:44 PM	224.2	55.1
2/2/2019	4:11:45 PM	221.1	52.0
2/2/2019	4:11:46 PM	218.7	49.6
2/2/2019	4:11:47 PM	216.7	47.6
2/2/2019	4:11:48 PM	213.8	44.7
2/2/2019	4:11:49 PM	210.8	41.7
2/2/2019	4:11:50 PM	209.3	40.2
2/2/2019	4:11:51 PM	207.1	38.0
2/2/2019	4:11:52 PM	204.7	35.6
2/2/2019	4:11:53 PM	202.9	33.8
2/2/2019	4:11:54 PM	201.7	32.6
2/2/2019	4:11:55 PM	199.7	30.6
2/2/2019	4:11:56 PM	198.2	29.1
2/2/2019	4:11:57 PM	196.6	27.5
2/2/2019	4:11:58 PM	195.7	26.6
2/2/2019	4:11:59 PM	194.3	25.2
2/2/2019	4:12:00 PM	192.8	23.7
2/2/2019	4:12:01 PM	191.6	22.5
2/2/2019	4:12:02 PM	190.8	21.7
2/2/2019	4:12:03 PM	190.1	21.0
2/2/2019	4:12:04 PM	188.8	19.7
2/2/2019	4:12:05 PM	188.0	18.9
2/2/2019	4:12:06 PM	187.0	17.9
2/2/2019	4:12:07 PM	186.0	16.9
2/2/2019	4:12:08 PM	185.3	16.2
2/2/2019	4:12:09 PM	184.5	15.4
2/2/2019	4:12:10 PM	183.9	14.8
2/2/2019	4:12:11 PM	183.3	14.2
2/2/2019	4:12:12 PM	182.8	13.7
2/2/2019	4:12:13 PM	182.3	13.2
2/2/2019	4:12:14 PM	181.6	12.5
2/2/2019	4:12:15 PM	181.1	12.0
2/2/2019	4:12:16 PM	180.7	11.6
2/2/2019	4:12:17 PM	180.4	11.3
2/2/2019	4:12:18 PM	180.0	10.9
2/2/2019	4:12:19 PM	179.6	10.5
2/2/2019	4:12:20 PM	179.2	10.1

APPENDIX E18: SALT DILUTION GAUGING SUMMARY
Old Outfall-TR-1 Test-2 February
Chemours Fayettevile Works, North Carolina

Table E2 OLDOF-TR-1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
OLDOF-TR-1 TEST-2	1534	166.9	10.3
OLDOF-TR-1 TEST-2	1536	157.9	10
OLDOF-TR-1 TEST-2	1538	150.0	9.9
Geometric Mean		158.1	(µS/cms)
Average (pre-test)		169.1	(µS/cms)
Average (post-test)		-	(µS/cms)

Table E3 OLDOF-TR-1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
OLDOF-TR-1 TEST-2	100	202.2	17.4
OLDOF-TR-1 TEST-2	1,000	1,718.0	17.8
OLDOF-TR-1 TEST-2	10,000	14,826.0	17.3
OLDOF-TR-1 TEST-2	100,000	116,811.0	17.7

Table E4 OLDOF-TR-1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	150,000	mg
Slope of Calibration Curve	K	1.1713	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	34,615.92	(s) . (µS/cms)
Calculated Flow Rate	Q	5.08	L/s
		80.56	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E19: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 February
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:18:35 PM	125.0	-
2/7/2019	12:18:36 PM	125.0	-
2/7/2019	12:18:37 PM	125.0	-
2/7/2019	12:18:38 PM	124.9	-
2/7/2019	12:18:39 PM	124.9	-
2/7/2019	12:18:40 PM	124.8	-
2/7/2019	12:18:41 PM	124.8	-
2/7/2019	12:18:42 PM	124.7	-
2/7/2019	12:18:43 PM	124.7	-
2/7/2019	12:18:44 PM	124.6	-
2/7/2019	12:18:45 PM	124.6	-
2/7/2019	12:18:46 PM	124.5	-
2/7/2019	12:18:47 PM	124.5	-
2/7/2019	12:18:48 PM	124.4	-
2/7/2019	12:18:49 PM	124.3	-
2/7/2019	12:18:50 PM	124.2	-
2/7/2019	12:18:51 PM	124.2	-
2/7/2019	12:18:52 PM	124.1	-
2/7/2019	12:18:53 PM	124.0	-
2/7/2019	12:18:54 PM	123.9	-
2/7/2019	12:18:55 PM	123.9	-
2/7/2019	12:18:56 PM	123.8	-
2/7/2019	12:18:57 PM	123.7	-
2/7/2019	12:18:58 PM	123.7	-
2/7/2019	12:18:59 PM	123.6	-
2/7/2019	12:19:00 PM	123.5	-
2/7/2019	12:19:01 PM	123.5	-
2/7/2019	12:19:02 PM	123.4	-
2/7/2019	12:19:03 PM	123.4	-
2/7/2019	12:19:04 PM	123.4	-
2/7/2019	12:19:05 PM	123.3	-
2/7/2019	12:19:06 PM	123.3	-
2/7/2019	12:19:07 PM	123.3	-
2/7/2019	12:19:08 PM	123.2	-
2/7/2019	12:19:09 PM	123.2	-
2/7/2019	12:19:10 PM	123.1	-
2/7/2019	12:19:11 PM	123.0	-
2/7/2019	12:19:12 PM	122.9	-
2/7/2019	12:19:13 PM	122.9	-
2/7/2019	12:19:14 PM	123.6	-
2/7/2019	12:19:15 PM	204.2	80.2
2/7/2019	12:19:16 PM	411.1	287.1
2/7/2019	12:19:17 PM	669.2	545.2
2/7/2019	12:19:18 PM	1719.2	1595.2
2/7/2019	12:19:19 PM	2286.7	2162.7
2/7/2019	12:19:20 PM	3328.8	3204.8
2/7/2019	12:19:21 PM	4140.1	4016.1
2/7/2019	12:19:22 PM	4929.7	4805.7
2/7/2019	12:19:23 PM	5077.9	4953.9
2/7/2019	12:19:24 PM	4830.3	4706.3
2/7/2019	12:19:25 PM	4533.6	4409.6
2/7/2019	12:19:26 PM	3796.7	3672.7
2/7/2019	12:19:27 PM	3314.1	3190.1
2/7/2019	12:19:28 PM	2809.5	2685.5
2/7/2019	12:19:29 PM	2541.9	2417.9
2/7/2019	12:19:30 PM	2243.9	2119.9
2/7/2019	12:19:31 PM	1943.8	1819.8
2/7/2019	12:19:32 PM	1821.7	1697.7
2/7/2019	12:19:33 PM	1601.3	1477.3
2/7/2019	12:19:34 PM	1429.3	1305.3
2/7/2019	12:19:35 PM	1279.3	1155.3
2/7/2019	12:19:36 PM	1212.6	1088.6
2/7/2019	12:19:37 PM	1031.1	907.1
2/7/2019	12:19:38 PM	949.1	825.1
2/7/2019	12:19:39 PM	877.0	753.0
2/7/2019	12:19:40 PM	858.3	734.3
2/7/2019	12:19:41 PM	835.7	711.7
2/7/2019	12:19:42 PM	739.6	615.6
2/7/2019	12:19:43 PM	683.8	559.8
2/7/2019	12:19:44 PM	644.8	520.8

APPENDIX E19: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 February
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:19:45 PM	628.6	504.6
2/7/2019	12:19:46 PM	611.9	487.9
2/7/2019	12:19:47 PM	513.9	389.9
2/7/2019	12:19:48 PM	531.6	407.6
2/7/2019	12:19:49 PM	509.9	385.9
2/7/2019	12:19:50 PM	494.1	370.1
2/7/2019	12:19:51 PM	481.0	357.0
2/7/2019	12:19:52 PM	472.0	348.0
2/7/2019	12:19:53 PM	464.4	340.4
2/7/2019	12:19:54 PM	458.0	334.0
2/7/2019	12:19:55 PM	407.5	283.5
2/7/2019	12:19:56 PM	390.1	266.1
2/7/2019	12:19:57 PM	382.9	258.9
2/7/2019	12:19:58 PM	370.1	246.1
2/7/2019	12:19:59 PM	360.6	236.6
2/7/2019	12:20:00 PM	353.1	229.1
2/7/2019	12:20:01 PM	347.2	223.2
2/7/2019	12:20:02 PM	341.9	217.9
2/7/2019	12:20:03 PM	335.7	211.7
2/7/2019	12:20:04 PM	330.4	206.4
2/7/2019	12:20:05 PM	325.3	201.3
2/7/2019	12:20:06 PM	321.6	197.6
2/7/2019	12:20:07 PM	276.4	152.4
2/7/2019	12:20:08 PM	265.4	141.4
2/7/2019	12:20:09 PM	254.6	130.6
2/7/2019	12:20:10 PM	246.5	122.5
2/7/2019	12:20:11 PM	243.4	119.4
2/7/2019	12:20:12 PM	239.1	115.1
2/7/2019	12:20:13 PM	236.2	112.2
2/7/2019	12:20:14 PM	233.4	109.4
2/7/2019	12:20:15 PM	231.3	107.3
2/7/2019	12:20:16 PM	228.9	104.9
2/7/2019	12:20:17 PM	227.5	103.5
2/7/2019	12:20:18 PM	226.8	102.8
2/7/2019	12:20:19 PM	226.2	102.2
2/7/2019	12:20:20 PM	225.2	101.2
2/7/2019	12:20:21 PM	224.4	100.4
2/7/2019	12:20:22 PM	223.3	99.3
2/7/2019	12:20:23 PM	222.0	98.0
2/7/2019	12:20:24 PM	218.7	94.7
2/7/2019	12:20:25 PM	215.4	91.4
2/7/2019	12:20:26 PM	211.4	87.4
2/7/2019	12:20:27 PM	208.0	84.0
2/7/2019	12:20:28 PM	204.1	80.1
2/7/2019	12:20:29 PM	200.8	76.8
2/7/2019	12:20:30 PM	197.0	73.0
2/7/2019	12:20:31 PM	193.3	69.3
2/7/2019	12:20:32 PM	188.7	64.7
2/7/2019	12:20:33 PM	184.9	60.9
2/7/2019	12:20:34 PM	180.2	56.2
2/7/2019	12:20:35 PM	176.3	52.3
2/7/2019	12:20:36 PM	172.3	48.3
2/7/2019	12:20:37 PM	169.3	45.3
2/7/2019	12:20:38 PM	166.6	42.6
2/7/2019	12:20:39 PM	164.4	40.4
2/7/2019	12:20:40 PM	162.2	38.2
2/7/2019	12:20:41 PM	160.5	36.5
2/7/2019	12:20:42 PM	158.6	34.6
2/7/2019	12:20:43 PM	157.0	33.0
2/7/2019	12:20:44 PM	155.1	31.1
2/7/2019	12:20:45 PM	153.7	29.7
2/7/2019	12:20:46 PM	152.2	28.2
2/7/2019	12:20:47 PM	151.2	27.2
2/7/2019	12:20:48 PM	150.1	26.1
2/7/2019	12:20:49 PM	149.2	25.2
2/7/2019	12:20:50 PM	148.0	24.0
2/7/2019	12:20:51 PM	146.8	22.8
2/7/2019	12:20:52 PM	145.7	21.7
2/7/2019	12:20:53 PM	144.5	20.5
2/7/2019	12:20:54 PM	143.3	19.3
2/7/2019	12:20:55 PM	142.0	18.0
2/7/2019	12:20:56 PM	140.8	16.8
2/7/2019	12:20:57 PM	139.3	15.3
2/7/2019	12:20:58 PM	137.5	13.5
2/7/2019	12:20:59 PM	136.3	12.3

APPENDIX E19: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 February
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:21:00 PM	134.8	10.8
2/7/2019	12:21:01 PM	133.0	9.0
2/7/2019	12:21:02 PM	131.4	7.4
2/7/2019	12:21:03 PM	129.7	5.7
2/7/2019	12:21:04 PM	128.1	4.1
2/7/2019	12:21:05 PM	126.4	2.4
2/7/2019	12:21:06 PM	124.9	0.9
2/7/2019	12:21:07 PM	123.2	-
2/7/2019	12:21:08 PM	121.3	-
2/7/2019	12:21:09 PM	120.1	-
2/7/2019	12:21:10 PM	119.0	-
2/7/2019	12:21:11 PM	117.8	-
2/7/2019	12:21:12 PM	116.8	-
2/7/2019	12:21:13 PM	115.5	-
2/7/2019	12:21:14 PM	114.9	-
2/7/2019	12:21:15 PM	114.0	-
2/7/2019	12:21:16 PM	113.4	-
2/7/2019	12:21:17 PM	112.5	-
2/7/2019	12:21:18 PM	112.0	-
2/7/2019	12:21:19 PM	111.4	-
2/7/2019	12:21:20 PM	110.9	-
2/7/2019	12:21:21 PM	110.2	-
2/7/2019	12:21:22 PM	109.7	-
2/7/2019	12:21:23 PM	109.1	-
2/7/2019	12:21:24 PM	108.6	-
2/7/2019	12:21:25 PM	108.1	-
2/7/2019	12:21:26 PM	107.6	-
2/7/2019	12:21:27 PM	107.1	-
2/7/2019	12:21:28 PM	106.7	-
2/7/2019	12:21:29 PM	106.2	-
2/7/2019	12:21:30 PM	105.9	-
2/7/2019	12:21:31 PM	105.5	-
2/7/2019	12:21:32 PM	105.2	-
2/7/2019	12:21:33 PM	104.8	-
2/7/2019	12:21:34 PM	104.6	-
2/7/2019	12:21:35 PM	104.3	-
2/7/2019	12:21:36 PM	104.0	-
2/7/2019	12:21:37 PM	103.8	-
2/7/2019	12:21:38 PM	103.5	-
2/7/2019	12:21:39 PM	103.1	-
2/7/2019	12:21:40 PM	102.6	-
2/7/2019	12:21:41 PM	102.2	-
2/7/2019	12:21:42 PM	101.7	-
2/7/2019	12:21:43 PM	101.2	-
2/7/2019	12:21:44 PM	100.8	-
2/7/2019	12:21:45 PM	100.4	-
2/7/2019	12:21:46 PM	99.9	-
2/7/2019	12:21:47 PM	99.5	-
2/7/2019	12:21:48 PM	99.0	-
2/7/2019	12:21:49 PM	98.6	-
2/7/2019	12:21:50 PM	98.1	-
2/7/2019	12:21:51 PM	97.7	-
2/7/2019	12:21:52 PM	97.4	-
2/7/2019	12:21:53 PM	97.2	-
2/7/2019	12:21:54 PM	96.9	-
2/7/2019	12:21:55 PM	96.7	-
2/7/2019	12:21:56 PM	96.5	-
2/7/2019	12:21:57 PM	96.2	-
2/7/2019	12:21:58 PM	96.0	-
2/7/2019	12:21:59 PM	95.7	-
2/7/2019	12:22:00 PM	95.5	-
2/7/2019	12:22:01 PM	95.3	-
2/7/2019	12:22:02 PM	95.1	-
2/7/2019	12:22:03 PM	94.9	-
2/7/2019	12:22:04 PM	94.6	-
2/7/2019	12:22:05 PM	94.5	-
2/7/2019	12:22:06 PM	94.3	-
2/7/2019	12:22:07 PM	94.1	-
2/7/2019	12:22:08 PM	93.9	-
2/7/2019	12:22:09 PM	93.7	-
2/7/2019	12:22:10 PM	93.5	-
2/7/2019	12:22:11 PM	93.4	-
2/7/2019	12:22:12 PM	93.2	-
2/7/2019	12:22:13 PM	93.0	-
2/7/2019	12:22:14 PM	92.8	-
2/7/2019	12:22:15 PM	92.7	-

APPENDIX E19: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 February
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:22:16 PM	92.5	-
2/7/2019	12:22:17 PM	92.4	-
2/7/2019	12:22:18 PM	92.2	-
2/7/2019	12:22:19 PM	92.0	-
2/7/2019	12:22:20 PM	91.9	-
2/7/2019	12:22:21 PM	91.7	-
2/7/2019	12:22:22 PM	91.5	-
2/7/2019	12:22:23 PM	91.3	-
2/7/2019	12:22:24 PM	91.2	-
2/7/2019	12:22:25 PM	91.1	-
2/7/2019	12:22:26 PM	91.0	-
2/7/2019	12:22:27 PM	90.9	-
2/7/2019	12:22:28 PM	90.8	-
2/7/2019	12:22:29 PM	90.7	-
2/7/2019	12:22:30 PM	90.6	-
2/7/2019	12:22:31 PM	90.5	-
2/7/2019	12:22:32 PM	90.4	-
2/7/2019	12:22:33 PM	90.4	-
2/7/2019	12:22:34 PM	90.3	-
2/7/2019	12:22:35 PM	90.2	-
2/7/2019	12:22:36 PM	90.1	-
2/7/2019	12:22:37 PM	90.0	-
2/7/2019	12:22:38 PM	89.9	-
2/7/2019	12:22:39 PM	89.7	-
2/7/2019	12:22:40 PM	89.6	-
2/7/2019	12:22:41 PM	89.5	-
2/7/2019	12:22:42 PM	89.3	-
2/7/2019	12:22:43 PM	89.2	-
2/7/2019	12:22:44 PM	89.1	-
2/7/2019	12:22:45 PM	88.9	-
2/7/2019	12:22:46 PM	88.8	-
2/7/2019	12:22:47 PM	88.6	-
2/7/2019	12:22:48 PM	88.5	-
2/7/2019	12:22:49 PM	88.4	-
2/7/2019	12:22:50 PM	88.3	-
2/7/2019	12:22:51 PM	88.2	-
2/7/2019	12:22:52 PM	88.1	-
2/7/2019	12:22:53 PM	87.9	-
2/7/2019	12:22:54 PM	87.8	-
2/7/2019	12:22:55 PM	87.7	-
2/7/2019	12:22:56 PM	87.6	-
2/7/2019	12:22:57 PM	87.5	-
2/7/2019	12:22:58 PM	87.4	-
2/7/2019	12:22:59 PM	87.3	-
2/7/2019	12:23:00 PM	87.2	-
2/7/2019	12:23:01 PM	87.1	-
2/7/2019	12:23:02 PM	87.0	-
2/7/2019	12:23:03 PM	87.0	-
2/7/2019	12:23:04 PM	86.9	-
2/7/2019	12:23:05 PM	86.9	-
2/7/2019	12:23:06 PM	86.8	-
2/7/2019	12:23:07 PM	86.8	-
2/7/2019	12:23:08 PM	86.8	-
2/7/2019	12:23:09 PM	86.8	-
2/7/2019	12:23:10 PM	86.8	-
2/7/2019	12:23:11 PM	86.7	-
2/7/2019	12:23:12 PM	86.7	-
2/7/2019	12:23:13 PM	86.7	-
2/7/2019	12:23:14 PM	86.7	-
2/7/2019	12:23:15 PM	86.7	-
2/7/2019	12:23:16 PM	86.7	-
2/7/2019	12:23:17 PM	86.7	-
2/7/2019	12:23:18 PM	86.7	-

APPENDIX E19: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 February
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-1	1139	110.1	18
SEEP-A1 TEST-1	1140	128.7	17.9
SEEP-A1 TEST-1	1142	115.9	17.9
SEEP-A1 TEST-1	1143	109.8	18
SEEP-A1 TEST-1	1145	101	18
Geometric Mean		112.7	(µS/cms)
Average (pre-test)		124.0	(µS/cms)
Average (post-test)		96.4	(µS/cms)

Table E3 SEEP-A1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-1	10	137.4	22.0
SEEP-A1 TEST-1	100	197.1	22.2
SEEP-A1 TEST-1	1,000	1,436.0	22.3
SEEP-A1 TEST-1	10,000	11,790.0	22.3
SEEP-A1 TEST-1	100,000	97,320.0	22.2

Table E4 SEEP-A1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,400	mg
Slope of Calibration Curve	K	0.9753	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	69,255.76	(s) . (µS/cms)
Calculated Flow Rate	Q	4.23	L/s
		67.15	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E20: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 February
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:29:45 PM	120.3	-
2/7/2019	12:29:46 PM	120.3	-
2/7/2019	12:29:47 PM	120.3	-
2/7/2019	12:29:48 PM	120.2	-
2/7/2019	12:29:49 PM	120.2	-
2/7/2019	12:29:50 PM	120.2	-
2/7/2019	12:29:51 PM	120.1	-
2/7/2019	12:29:52 PM	120.1	-
2/7/2019	12:29:53 PM	120.1	-
2/7/2019	12:29:54 PM	120.1	-
2/7/2019	12:29:55 PM	120.1	-
2/7/2019	12:29:56 PM	120.1	-
2/7/2019	12:29:57 PM	120.1	-
2/7/2019	12:29:58 PM	120.1	-
2/7/2019	12:29:59 PM	120.1	-
2/7/2019	12:30:00 PM	120.0	-
2/7/2019	12:30:01 PM	119.9	-
2/7/2019	12:30:02 PM	119.8	-
2/7/2019	12:30:03 PM	119.7	-
2/7/2019	12:30:04 PM	119.5	-
2/7/2019	12:30:05 PM	119.4	-
2/7/2019	12:30:06 PM	119.3	-
2/7/2019	12:30:07 PM	119.1	-
2/7/2019	12:30:08 PM	118.9	-
2/7/2019	12:30:09 PM	118.8	-
2/7/2019	12:30:10 PM	118.5	-
2/7/2019	12:30:11 PM	118.3	-
2/7/2019	12:30:12 PM	118.1	-
2/7/2019	12:30:13 PM	117.9	-
2/7/2019	12:30:14 PM	117.8	-
2/7/2019	12:30:15 PM	117.7	-
2/7/2019	12:30:16 PM	117.6	-
2/7/2019	12:30:17 PM	117.4	-
2/7/2019	12:30:18 PM	117.1	-
2/7/2019	12:30:19 PM	116.9	-
2/7/2019	12:30:20 PM	116.7	-
2/7/2019	12:30:21 PM	116.6	-
2/7/2019	12:30:22 PM	116.5	-
2/7/2019	12:30:23 PM	117.0	-
2/7/2019	12:30:24 PM	242.6	123.6
2/7/2019	12:30:25 PM	474.7	355.7
2/7/2019	12:30:26 PM	680.7	561.7
2/7/2019	12:30:27 PM	1774.0	1655.0
2/7/2019	12:30:28 PM	2377.7	2258.7
2/7/2019	12:30:29 PM	2927.5	2808.5
2/7/2019	12:30:30 PM	3175.5	3056.5
2/7/2019	12:30:31 PM	3183.0	3064.0
2/7/2019	12:30:32 PM	2919.9	2800.9
2/7/2019	12:30:33 PM	2466.4	2347.4
2/7/2019	12:30:34 PM	2057.4	1938.4
2/7/2019	12:30:35 PM	1692.7	1573.7
2/7/2019	12:30:36 PM	1318.0	1199.0
2/7/2019	12:30:37 PM	1090.5	971.5
2/7/2019	12:30:38 PM	922.9	803.9
2/7/2019	12:30:39 PM	774.9	655.9
2/7/2019	12:30:40 PM	675.1	556.1
2/7/2019	12:30:41 PM	587.8	468.8
2/7/2019	12:30:42 PM	423.6	304.6
2/7/2019	12:30:43 PM	477.1	358.1
2/7/2019	12:30:44 PM	472.4	353.4
2/7/2019	12:30:45 PM	460.8	341.8
2/7/2019	12:30:46 PM	396.5	277.5
2/7/2019	12:30:47 PM	369.5	250.5
2/7/2019	12:30:48 PM	352.7	233.7
2/7/2019	12:30:49 PM	345.6	226.6
2/7/2019	12:30:50 PM	337.5	218.5
2/7/2019	12:30:51 PM	326.7	207.7
2/7/2019	12:30:52 PM	321.4	202.4
2/7/2019	12:30:53 PM	311.3	192.3
2/7/2019	12:30:54 PM	262.4	143.4

APPENDIX E20: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 February
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:30:55 PM	250.9	131.9
2/7/2019	12:30:56 PM	241.4	122.4
2/7/2019	12:30:57 PM	235.8	116.8
2/7/2019	12:30:58 PM	231.7	112.7
2/7/2019	12:30:59 PM	226.9	107.9
2/7/2019	12:31:00 PM	223.4	104.4
2/7/2019	12:31:01 PM	219.6	100.6
2/7/2019	12:31:02 PM	216.7	97.7
2/7/2019	12:31:03 PM	213.5	94.5
2/7/2019	12:31:04 PM	211.1	92.1
2/7/2019	12:31:05 PM	208.6	89.6
2/7/2019	12:31:06 PM	206.6	87.6
2/7/2019	12:31:07 PM	204.3	85.3
2/7/2019	12:31:08 PM	202.5	83.5
2/7/2019	12:31:09 PM	200.5	81.5
2/7/2019	12:31:10 PM	198.7	79.7
2/7/2019	12:31:11 PM	194.3	75.3
2/7/2019	12:31:12 PM	190.7	71.7
2/7/2019	12:31:13 PM	187.1	68.1
2/7/2019	12:31:14 PM	184.2	65.2
2/7/2019	12:31:15 PM	181.3	62.3
2/7/2019	12:31:16 PM	178.9	59.9
2/7/2019	12:31:17 PM	176.3	57.3
2/7/2019	12:31:18 PM	174.2	55.2
2/7/2019	12:31:19 PM	171.9	52.9
2/7/2019	12:31:20 PM	170.2	51.2
2/7/2019	12:31:21 PM	168.3	49.3
2/7/2019	12:31:22 PM	166.7	47.7
2/7/2019	12:31:23 PM	165.0	46.0
2/7/2019	12:31:24 PM	163.5	44.5
2/7/2019	12:31:25 PM	161.8	42.8
2/7/2019	12:31:26 PM	160.4	41.4
2/7/2019	12:31:27 PM	158.7	39.7
2/7/2019	12:31:28 PM	157.3	38.3
2/7/2019	12:31:29 PM	155.8	36.8
2/7/2019	12:31:30 PM	154.5	35.5
2/7/2019	12:31:31 PM	153.0	34.0
2/7/2019	12:31:32 PM	151.6	32.6
2/7/2019	12:31:33 PM	150.0	31.0
2/7/2019	12:31:34 PM	148.3	29.3
2/7/2019	12:31:35 PM	146.9	27.9
2/7/2019	12:31:36 PM	145.3	26.3
2/7/2019	12:31:37 PM	144.0	25.0
2/7/2019	12:31:38 PM	142.6	23.6
2/7/2019	12:31:39 PM	141.4	22.4
2/7/2019	12:31:40 PM	140.0	21.0
2/7/2019	12:31:41 PM	138.8	19.8
2/7/2019	12:31:42 PM	137.5	18.5
2/7/2019	12:31:43 PM	136.3	17.3
2/7/2019	12:31:44 PM	135.1	16.1
2/7/2019	12:31:45 PM	134.1	15.1
2/7/2019	12:31:46 PM	132.9	13.9
2/7/2019	12:31:47 PM	132.0	13.0
2/7/2019	12:31:48 PM	131.0	12.0
2/7/2019	12:31:49 PM	130.1	11.1
2/7/2019	12:31:50 PM	129.2	10.2
2/7/2019	12:31:51 PM	128.4	9.4
2/7/2019	12:31:52 PM	127.6	8.6
2/7/2019	12:31:53 PM	126.9	7.9
2/7/2019	12:31:54 PM	126.2	7.2
2/7/2019	12:31:55 PM	125.6	6.6
2/7/2019	12:31:56 PM	125.0	6.0
2/7/2019	12:31:57 PM	124.5	5.5
2/7/2019	12:31:58 PM	124.0	5.0
2/7/2019	12:31:59 PM	123.6	4.6
2/7/2019	12:32:00 PM	123.2	4.2
2/7/2019	12:32:01 PM	122.9	3.9
2/7/2019	12:32:02 PM	122.6	3.6
2/7/2019	12:32:03 PM	122.3	3.3
2/7/2019	12:32:04 PM	122.0	3.0
2/7/2019	12:32:05 PM	121.7	2.7
2/7/2019	12:32:06 PM	121.4	2.4
2/7/2019	12:32:07 PM	121.1	2.1
2/7/2019	12:32:08 PM	120.7	-
2/7/2019	12:32:09 PM	120.4	-

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:32:10 PM	120.1	-
2/7/2019	12:32:11 PM	119.9	-
2/7/2019	12:32:12 PM	119.5	-
2/7/2019	12:32:13 PM	119.2	-
2/7/2019	12:32:14 PM	118.8	-
2/7/2019	12:32:15 PM	118.5	-
2/7/2019	12:32:16 PM	118.1	-
2/7/2019	12:32:17 PM	117.8	-
2/7/2019	12:32:18 PM	117.5	-
2/7/2019	12:32:19 PM	117.2	-
2/7/2019	12:32:20 PM	116.8	-
2/7/2019	12:32:21 PM	116.6	-
2/7/2019	12:32:22 PM	116.3	-
2/7/2019	12:32:23 PM	116.0	-
2/7/2019	12:32:24 PM	115.7	-
2/7/2019	12:32:25 PM	115.5	-
2/7/2019	12:32:26 PM	115.2	-
2/7/2019	12:32:27 PM	114.9	-
2/7/2019	12:32:28 PM	114.6	-
2/7/2019	12:32:29 PM	114.2	-
2/7/2019	12:32:30 PM	113.9	-
2/7/2019	12:32:31 PM	113.6	-
2/7/2019	12:32:32 PM	113.2	-
2/7/2019	12:32:33 PM	112.8	-
2/7/2019	12:32:34 PM	112.4	-
2/7/2019	12:32:35 PM	112.0	-
2/7/2019	12:32:36 PM	111.6	-
2/7/2019	12:32:37 PM	111.1	-
2/7/2019	12:32:38 PM	110.7	-
2/7/2019	12:32:39 PM	110.3	-
2/7/2019	12:32:40 PM	109.9	-
2/7/2019	12:32:41 PM	109.6	-
2/7/2019	12:32:42 PM	109.2	-
2/7/2019	12:32:43 PM	108.8	-
2/7/2019	12:32:44 PM	108.5	-
2/7/2019	12:32:45 PM	108.2	-
2/7/2019	12:32:46 PM	108.0	-
2/7/2019	12:32:47 PM	107.8	-
2/7/2019	12:32:48 PM	107.6	-
2/7/2019	12:32:49 PM	107.5	-
2/7/2019	12:32:50 PM	107.4	-
2/7/2019	12:32:51 PM	107.3	-
2/7/2019	12:32:52 PM	107.2	-
2/7/2019	12:32:53 PM	107.0	-
2/7/2019	12:32:54 PM	106.9	-
2/7/2019	12:32:55 PM	106.9	-
2/7/2019	12:32:56 PM	106.8	-
2/7/2019	12:32:57 PM	106.8	-
2/7/2019	12:32:58 PM	106.8	-
2/7/2019	12:32:59 PM	106.7	-
2/7/2019	12:33:00 PM	106.6	-
2/7/2019	12:33:01 PM	106.5	-
2/7/2019	12:33:02 PM	106.3	-
2/7/2019	12:33:03 PM	106.0	-
2/7/2019	12:33:04 PM	105.8	-
2/7/2019	12:33:05 PM	105.6	-
2/7/2019	12:33:06 PM	105.4	-
2/7/2019	12:33:07 PM	105.2	-
2/7/2019	12:33:08 PM	104.9	-
2/7/2019	12:33:09 PM	104.7	-
2/7/2019	12:33:10 PM	104.4	-
2/7/2019	12:33:11 PM	104.1	-
2/7/2019	12:33:12 PM	103.9	-
2/7/2019	12:33:13 PM	103.6	-
2/7/2019	12:33:14 PM	103.4	-
2/7/2019	12:33:15 PM	103.2	-
2/7/2019	12:33:16 PM	103.0	-
2/7/2019	12:33:17 PM	102.7	-
2/7/2019	12:33:18 PM	102.5	-
2/7/2019	12:33:19 PM	102.3	-
2/7/2019	12:33:20 PM	102.1	-
2/7/2019	12:33:21 PM	101.9	-
2/7/2019	12:33:22 PM	101.7	-
2/7/2019	12:33:23 PM	101.5	-
2/7/2019	12:33:24 PM	101.3	-
2/7/2019	12:33:25 PM	101.2	-

APPENDIX E20: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 February
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	12:33:26 PM	101.0	-
2/7/2019	12:33:27 PM	100.8	-
2/7/2019	12:33:28 PM	100.6	-
2/7/2019	12:33:29 PM	100.5	-
2/7/2019	12:33:30 PM	100.4	-
2/7/2019	12:33:31 PM	100.2	-
2/7/2019	12:33:32 PM	100.1	-
2/7/2019	12:33:33 PM	100.0	-
2/7/2019	12:33:34 PM	99.8	-
2/7/2019	12:33:35 PM	99.7	-
2/7/2019	12:33:36 PM	99.6	-
2/7/2019	12:33:37 PM	99.5	-
2/7/2019	12:33:38 PM	99.4	-
2/7/2019	12:33:39 PM	99.3	-
2/7/2019	12:33:40 PM	99.3	-
2/7/2019	12:33:41 PM	99.2	-
2/7/2019	12:33:42 PM	99.2	-
2/7/2019	12:33:43 PM	99.1	-
2/7/2019	12:33:44 PM	99.0	-
2/7/2019	12:33:45 PM	99.0	-
2/7/2019	12:33:46 PM	98.8	-
2/7/2019	12:33:47 PM	98.8	-
2/7/2019	12:33:48 PM	98.7	-
2/7/2019	12:33:49 PM	98.6	-
2/7/2019	12:33:50 PM	98.5	-
2/7/2019	12:33:51 PM	98.4	-
2/7/2019	12:33:52 PM	98.2	-
2/7/2019	12:33:53 PM	98.1	-
2/7/2019	12:33:54 PM	98.0	-
2/7/2019	12:33:55 PM	97.9	-
2/7/2019	12:33:56 PM	97.7	-
2/7/2019	12:33:57 PM	97.6	-
2/7/2019	12:33:58 PM	97.6	-
2/7/2019	12:33:59 PM	97.5	-
2/7/2019	12:34:00 PM	97.4	-
2/7/2019	12:34:01 PM	97.3	-
2/7/2019	12:34:02 PM	97.2	-
2/7/2019	12:34:03 PM	97.1	-
2/7/2019	12:34:04 PM	97.1	-
2/7/2019	12:34:05 PM	97.1	-
2/7/2019	12:34:06 PM	97.0	-
2/7/2019	12:34:07 PM	97.0	-
2/7/2019	12:34:08 PM	96.9	-
2/7/2019	12:34:09 PM	96.8	-
2/7/2019	12:34:10 PM	96.8	-
2/7/2019	12:34:11 PM	96.8	-
2/7/2019	12:34:12 PM	96.7	-
2/7/2019	12:34:13 PM	96.7	-
2/7/2019	12:34:14 PM	96.7	-
2/7/2019	12:34:15 PM	96.7	-
2/7/2019	12:34:16 PM	96.6	-
2/7/2019	12:34:17 PM	96.5	-
2/7/2019	12:34:18 PM	96.5	-
2/7/2019	12:34:19 PM	96.4	-
2/7/2019	12:34:20 PM	96.3	-
2/7/2019	12:34:21 PM	96.2	-
2/7/2019	12:34:22 PM	96.2	-

APPENDIX E20: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 February
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-1	1139	110.1	18
SEEP-A1 TEST-1	1140	128.7	17.9
SEEP-A1 TEST-1	1142	115.9	17.9
SEEP-A1 TEST-1	1143	109.8	18
SEEP-A1 TEST-1	1145	101	18
Geometric Mean		112.7	(µS/cms)
Average (pre-test)		124.0	(µS/cms)
Average (post-test)		96.4	(µS/cms)

Table E3 SEEP-A1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-1	10	137.4	22.0
SEEP-A1 TEST-1	100	197.1	22.2
SEEP-A1 TEST-1	1,000	1,436.0	22.3
SEEP-A1 TEST-1	10,000	11,790.0	22.3
SEEP-A1 TEST-1	100,000	97,320.0	22.2

Table E4 SEEP-A1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	150,000	mg
Slope of Calibration Curve	K	0.9753	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	33,645.50	(s) . (µS/cms)
Calculated Flow Rate	Q	4.40	L/s
		69.00	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E21: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:28:57 PM	168.9	-
5/23/2019	2:28:58 PM	168.8	-
5/23/2019	2:28:59 PM	168.7	-
5/23/2019	2:29:00 PM	168.5	-
5/23/2019	2:29:01 PM	168.4	-
5/23/2019	2:29:02 PM	168.2	-
5/23/2019	2:29:03 PM	168.1	-
5/23/2019	2:29:04 PM	167.9	-
5/23/2019	2:29:05 PM	167.8	-
5/23/2019	2:29:06 PM	167.6	-
5/23/2019	2:29:07 PM	167.5	-
5/23/2019	2:29:08 PM	167.4	-
5/23/2019	2:29:09 PM	167.3	-
5/23/2019	2:29:10 PM	167.2	-
5/23/2019	2:29:11 PM	167.1	-
5/23/2019	2:29:12 PM	167.0	-
5/23/2019	2:29:13 PM	166.9	-
5/23/2019	2:29:14 PM	166.9	-
5/23/2019	2:29:15 PM	166.8	-
5/23/2019	2:29:16 PM	166.7	-
5/23/2019	2:29:17 PM	166.6	-
5/23/2019	2:29:18 PM	166.5	-
5/23/2019	2:29:19 PM	166.5	-
5/23/2019	2:29:20 PM	167.2	-
5/23/2019	2:29:21 PM	473.2	305.7
5/23/2019	2:29:22 PM	783.0	615.5
5/23/2019	2:29:23 PM	3359.2	3191.7
5/23/2019	2:29:24 PM	4465.0	4297.5
5/23/2019	2:29:25 PM	6103.6	5936.1
5/23/2019	2:29:26 PM	6478.7	6311.2
5/23/2019	2:29:27 PM	6627.1	6459.6
5/23/2019	2:29:28 PM	6530.9	6363.4
5/23/2019	2:29:29 PM	5893.6	5726.1
5/23/2019	2:29:30 PM	5528.1	5360.6
5/23/2019	2:29:31 PM	5135.1	4967.6
5/23/2019	2:29:32 PM	4878.5	4711.0
5/23/2019	2:29:33 PM	4272.5	4105.0
5/23/2019	2:29:34 PM	3947.3	3779.8
5/23/2019	2:29:35 PM	3623.5	3456.0
5/23/2019	2:29:36 PM	3276.9	3109.4
5/23/2019	2:29:37 PM	2984.7	2817.2
5/23/2019	2:29:38 PM	2735.2	2567.7
5/23/2019	2:29:39 PM	2537.5	2370.0
5/23/2019	2:29:40 PM	2148.5	1981.0
5/23/2019	2:29:41 PM	1946.7	1779.2
5/23/2019	2:29:42 PM	1719.2	1551.7
5/23/2019	2:29:43 PM	1601.4	1433.9
5/23/2019	2:29:44 PM	1372.3	1204.8
5/23/2019	2:29:45 PM	1188.2	1020.7
5/23/2019	2:29:46 PM	1072.1	904.6
5/23/2019	2:29:47 PM	959.6	792.1
5/23/2019	2:29:48 PM	865.1	697.6
5/23/2019	2:29:49 PM	784.1	616.6
5/23/2019	2:29:50 PM	707.3	539.8
5/23/2019	2:29:51 PM	684.9	517.4
5/23/2019	2:29:52 PM	674.0	506.5
5/23/2019	2:29:53 PM	566.2	398.7
5/23/2019	2:29:54 PM	514.2	346.7
5/23/2019	2:29:55 PM	486.0	318.5
5/23/2019	2:29:56 PM	474.5	307.0
5/23/2019	2:29:57 PM	459.0	291.5
5/23/2019	2:29:58 PM	450.5	283.0
5/23/2019	2:29:59 PM	384.6	217.1
5/23/2019	2:30:00 PM	372.6	205.1
5/23/2019	2:30:01 PM	354.6	187.1
5/23/2019	2:30:02 PM	343.1	175.6
5/23/2019	2:30:03 PM	338.2	170.7
5/23/2019	2:30:04 PM	332.8	165.3
5/23/2019	2:30:05 PM	325.2	157.7
5/23/2019	2:30:06 PM	319.4	151.9

APPENDIX E21: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:30:07 PM	314.6	147.1
5/23/2019	2:30:08 PM	309.9	142.4
5/23/2019	2:30:09 PM	306.3	138.8
5/23/2019	2:30:10 PM	302.1	134.6
5/23/2019	2:30:11 PM	298.6	131.1
5/23/2019	2:30:12 PM	294.9	127.4
5/23/2019	2:30:13 PM	291.7	124.2
5/23/2019	2:30:14 PM	288.3	120.8
5/23/2019	2:30:15 PM	284.9	117.4
5/23/2019	2:30:16 PM	277.5	110.0
5/23/2019	2:30:17 PM	271.9	104.4
5/23/2019	2:30:18 PM	266.1	98.6
5/23/2019	2:30:19 PM	261.4	93.9
5/23/2019	2:30:20 PM	256.6	89.1
5/23/2019	2:30:21 PM	252.5	85.0
5/23/2019	2:30:22 PM	248.2	80.7
5/23/2019	2:30:23 PM	244.9	77.4
5/23/2019	2:30:24 PM	241.5	74.0
5/23/2019	2:30:25 PM	238.4	70.9
5/23/2019	2:30:26 PM	235.9	68.4
5/23/2019	2:30:27 PM	233.4	65.9
5/23/2019	2:30:28 PM	231.3	63.8
5/23/2019	2:30:29 PM	229.0	61.5
5/23/2019	2:30:30 PM	227.1	59.6
5/23/2019	2:30:31 PM	225.1	57.6
5/23/2019	2:30:32 PM	223.5	56.0
5/23/2019	2:30:33 PM	221.7	54.2
5/23/2019	2:30:34 PM	220.3	52.8
5/23/2019	2:30:35 PM	218.8	51.3
5/23/2019	2:30:36 PM	217.5	50.0
5/23/2019	2:30:37 PM	216.1	48.6
5/23/2019	2:30:38 PM	214.9	47.4
5/23/2019	2:30:39 PM	213.5	46.0
5/23/2019	2:30:40 PM	212.4	44.9
5/23/2019	2:30:41 PM	211.2	43.7
5/23/2019	2:30:42 PM	210.2	42.7
5/23/2019	2:30:43 PM	209.1	41.6
5/23/2019	2:30:44 PM	208.1	40.6
5/23/2019	2:30:45 PM	207.2	39.7
5/23/2019	2:30:46 PM	206.3	38.8
5/23/2019	2:30:47 PM	205.5	38.0
5/23/2019	2:30:48 PM	204.7	37.2
5/23/2019	2:30:49 PM	204.0	36.5
5/23/2019	2:30:50 PM	203.3	35.8
5/23/2019	2:30:51 PM	202.7	35.2
5/23/2019	2:30:52 PM	202.1	34.6
5/23/2019	2:30:53 PM	201.6	34.1
5/23/2019	2:30:54 PM	201.1	33.6
5/23/2019	2:30:55 PM	200.6	33.1
5/23/2019	2:30:56 PM	200.1	32.6
5/23/2019	2:30:57 PM	199.7	32.2
5/23/2019	2:30:58 PM	199.2	31.7
5/23/2019	2:30:59 PM	198.8	31.3
5/23/2019	2:31:00 PM	198.3	30.8
5/23/2019	2:31:01 PM	197.9	30.4
5/23/2019	2:31:02 PM	197.4	29.9
5/23/2019	2:31:03 PM	196.9	29.4
5/23/2019	2:31:04 PM	196.5	29.0
5/23/2019	2:31:05 PM	196.0	28.5
5/23/2019	2:31:06 PM	195.5	28.0
5/23/2019	2:31:07 PM	195.0	27.5
5/23/2019	2:31:08 PM	194.5	27.0
5/23/2019	2:31:09 PM	194.0	26.5
5/23/2019	2:31:10 PM	193.5	26.0
5/23/2019	2:31:11 PM	193.0	25.5
5/23/2019	2:31:12 PM	192.5	25.0
5/23/2019	2:31:13 PM	192.0	24.5
5/23/2019	2:31:14 PM	191.6	24.1
5/23/2019	2:31:15 PM	191.1	23.6
5/23/2019	2:31:16 PM	190.7	23.2
5/23/2019	2:31:17 PM	190.2	22.7
5/23/2019	2:31:18 PM	189.8	22.3
5/23/2019	2:31:19 PM	189.4	21.9
5/23/2019	2:31:20 PM	189.0	21.5
5/23/2019	2:31:21 PM	188.6	21.1

APPENDIX E21: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:31:22 PM	188.2	20.7
5/23/2019	2:31:23 PM	187.9	20.4
5/23/2019	2:31:24 PM	187.5	20.0
5/23/2019	2:31:25 PM	187.2	19.7
5/23/2019	2:31:26 PM	186.9	19.4
5/23/2019	2:31:27 PM	186.6	19.1
5/23/2019	2:31:28 PM	186.3	18.8
5/23/2019	2:31:29 PM	186.0	18.5
5/23/2019	2:31:30 PM	185.7	18.2
5/23/2019	2:31:31 PM	185.5	18.0
5/23/2019	2:31:32 PM	185.2	17.7
5/23/2019	2:31:33 PM	185.0	17.5
5/23/2019	2:31:34 PM	184.7	17.2
5/23/2019	2:31:35 PM	184.5	17.0
5/23/2019	2:31:36 PM	184.2	16.7
5/23/2019	2:31:37 PM	184.0	16.5
5/23/2019	2:31:38 PM	183.7	16.2
5/23/2019	2:31:39 PM	183.5	16.0
5/23/2019	2:31:40 PM	183.2	15.7
5/23/2019	2:31:41 PM	183.0	15.5
5/23/2019	2:31:42 PM	182.8	15.3
5/23/2019	2:31:43 PM	182.5	15.0
5/23/2019	2:31:44 PM	182.3	14.8
5/23/2019	2:31:45 PM	182.0	14.5
5/23/2019	2:31:46 PM	181.8	14.3
5/23/2019	2:31:47 PM	181.6	14.1
5/23/2019	2:31:48 PM	181.4	13.9
5/23/2019	2:31:49 PM	181.2	13.7
5/23/2019	2:31:50 PM	181.0	13.5
5/23/2019	2:31:51 PM	180.8	13.3
5/23/2019	2:31:52 PM	180.6	13.1
5/23/2019	2:31:53 PM	180.3	12.8
5/23/2019	2:31:54 PM	180.2	12.7
5/23/2019	2:31:55 PM	179.9	12.4
5/23/2019	2:31:56 PM	179.8	12.3
5/23/2019	2:31:57 PM	179.5	12.0
5/23/2019	2:31:58 PM	179.4	11.9
5/23/2019	2:31:59 PM	179.2	11.7
5/23/2019	2:32:00 PM	179.0	11.5
5/23/2019	2:32:01 PM	178.8	11.3
5/23/2019	2:32:02 PM	178.7	11.2
5/23/2019	2:32:03 PM	178.5	11.0
5/23/2019	2:32:04 PM	178.3	10.8
5/23/2019	2:32:05 PM	178.2	10.7
5/23/2019	2:32:06 PM	178.0	10.5
5/23/2019	2:32:07 PM	177.9	10.4
5/23/2019	2:32:08 PM	177.7	10.2
5/23/2019	2:32:09 PM	177.5	10.0
5/23/2019	2:32:10 PM	177.3	9.8
5/23/2019	2:32:11 PM	177.2	9.7
5/23/2019	2:32:12 PM	177.0	9.5
5/23/2019	2:32:13 PM	176.8	9.3
5/23/2019	2:32:14 PM	176.6	9.1
5/23/2019	2:32:15 PM	176.5	9.0
5/23/2019	2:32:16 PM	176.3	8.8
5/23/2019	2:32:17 PM	176.1	8.6
5/23/2019	2:32:18 PM	175.9	8.4
5/23/2019	2:32:19 PM	175.8	8.3
5/23/2019	2:32:20 PM	175.6	8.1
5/23/2019	2:32:21 PM	175.4	7.9
5/23/2019	2:32:22 PM	175.3	7.8
5/23/2019	2:32:23 PM	175.1	7.6
5/23/2019	2:32:24 PM	175.0	7.5
5/23/2019	2:32:25 PM	174.8	7.3
5/23/2019	2:32:26 PM	174.7	7.2
5/23/2019	2:32:27 PM	174.5	7.0
5/23/2019	2:32:28 PM	174.3	6.8
5/23/2019	2:32:29 PM	174.1	6.6
5/23/2019	2:32:30 PM	174.0	6.5
5/23/2019	2:32:31 PM	173.8	6.3
5/23/2019	2:32:32 PM	173.7	6.2
5/23/2019	2:32:33 PM	173.5	6.0
5/23/2019	2:32:34 PM	173.4	5.9
5/23/2019	2:32:35 PM	173.2	5.7
5/23/2019	2:32:36 PM	173.1	5.6

APPENDIX E21: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:32:37 PM	172.9	5.4
5/23/2019	2:32:38 PM	172.8	5.3
5/23/2019	2:32:39 PM	172.7	5.2
5/23/2019	2:32:40 PM	172.5	5.0
5/23/2019	2:32:41 PM	172.4	4.9
5/23/2019	2:32:42 PM	172.2	4.7
5/23/2019	2:32:43 PM	172.1	4.6
5/23/2019	2:32:44 PM	172.0	4.5
5/23/2019	2:32:45 PM	171.8	4.3
5/23/2019	2:32:46 PM	171.7	4.2
5/23/2019	2:32:47 PM	171.5	4.0
5/23/2019	2:32:48 PM	171.4	3.9
5/23/2019	2:32:49 PM	171.2	3.7
5/23/2019	2:32:50 PM	171.1	3.6
5/23/2019	2:32:51 PM	170.9	3.4
5/23/2019	2:32:52 PM	170.8	3.3
5/23/2019	2:32:53 PM	170.6	3.1

APPENDIX E21: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-1	1418	173	19.5
SEEP-A1 TEST-1	1419	179.6	19.6
SEEP-A1 TEST-1	1420	179	19.6
SEEP-A1 TEST-1	1421	174.7	19.7
SEEP-A1 TEST-1	1422	175.9	19.7
Geometric Mean		176.4	(µS/cms)
Average (pre-test)		179.9	(µS/cms)
Average (post-test)		163.1	(µS/cms)

Table E3 SEEP-A1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-1	1	39.4	25.8
SEEP-A1 TEST-1	10	180.0	25.3
SEEP-A1 TEST-1	100	453.0	24.6
SEEP-A1 TEST-1	1000	3,480.0	25.2
SEEP-A1 TEST-1	10000	15,600.0	26.3
SEEP-A1 TEST-1	100000	129,760.0	25.9

Table E4 SEEP-A1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.3004	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	98,513.0	(s) . (µS/cms)
Calculated Flow Rate	Q	4.00	L/s
		62.90	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E22: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:38:46 PM	179.8	-
5/23/2019	2:38:47 PM	179.8	-
5/23/2019	2:38:48 PM	179.8	-
5/23/2019	2:38:49 PM	179.8	-
5/23/2019	2:38:50 PM	179.8	-
5/23/2019	2:38:51 PM	179.8	-
5/23/2019	2:38:52 PM	179.8	-
5/23/2019	2:38:53 PM	179.8	-
5/23/2019	2:38:54 PM	179.8	-
5/23/2019	2:38:55 PM	179.8	-
5/23/2019	2:38:56 PM	179.8	-
5/23/2019	2:38:57 PM	179.8	-
5/23/2019	2:38:58 PM	179.8	-
5/23/2019	2:38:59 PM	179.8	-
5/23/2019	2:39:00 PM	179.8	-
5/23/2019	2:39:01 PM	179.8	-
5/23/2019	2:39:02 PM	179.8	-
5/23/2019	2:39:03 PM	179.7	-
5/23/2019	2:39:04 PM	179.8	-
5/23/2019	2:39:05 PM	347.1	167.3
5/23/2019	2:39:06 PM	722.2	542.4
5/23/2019	2:39:07 PM	2390.7	2210.9
5/23/2019	2:39:08 PM	5110.1	4930.3
5/23/2019	2:39:09 PM	6769.1	6589.3
5/23/2019	2:39:10 PM	7846.7	7666.9
5/23/2019	2:39:11 PM	8244.0	8064.2
5/23/2019	2:39:12 PM	7704.3	7524.5
5/23/2019	2:39:13 PM	7058.7	6878.9
5/23/2019	2:39:14 PM	6772.1	6592.3
5/23/2019	2:39:15 PM	5958.5	5778.7
5/23/2019	2:39:16 PM	5242.3	5062.5
5/23/2019	2:39:17 PM	4717.2	4537.4
5/23/2019	2:39:18 PM	4326.0	4146.2
5/23/2019	2:39:19 PM	3953.3	3773.5
5/23/2019	2:39:20 PM	3754.9	3575.1
5/23/2019	2:39:21 PM	3302.6	3122.8
5/23/2019	2:39:22 PM	2954.9	2775.1
5/23/2019	2:39:23 PM	2703.0	2523.2
5/23/2019	2:39:24 PM	2385.1	2205.3
5/23/2019	2:39:25 PM	2007.9	1828.1
5/23/2019	2:39:26 PM	1934.1	1754.3
5/23/2019	2:39:27 PM	1581.2	1401.4
5/23/2019	2:39:28 PM	1476.4	1296.6
5/23/2019	2:39:29 PM	1339.8	1160.0
5/23/2019	2:39:30 PM	1119.4	939.6
5/23/2019	2:39:31 PM	951.8	772.0
5/23/2019	2:39:32 PM	896.8	717.0
5/23/2019	2:39:33 PM	866.9	687.1
5/23/2019	2:39:34 PM	689.4	509.6
5/23/2019	2:39:35 PM	641.0	461.2
5/23/2019	2:39:36 PM	561.7	381.9
5/23/2019	2:39:37 PM	565.3	385.5
5/23/2019	2:39:38 PM	529.4	349.6
5/23/2019	2:39:39 PM	464.5	284.7
5/23/2019	2:39:40 PM	417.9	238.1
5/23/2019	2:39:41 PM	391.8	212.0
5/23/2019	2:39:42 PM	378.1	198.3
5/23/2019	2:39:43 PM	368.0	188.2
5/23/2019	2:39:44 PM	360.1	180.3
5/23/2019	2:39:45 PM	351.1	171.3
5/23/2019	2:39:46 PM	343.0	163.2
5/23/2019	2:39:47 PM	292.3	112.5
5/23/2019	2:39:48 PM	281.7	101.9
5/23/2019	2:39:49 PM	276.5	96.7
5/23/2019	2:39:50 PM	267.9	88.1
5/23/2019	2:39:51 PM	263.1	83.3
5/23/2019	2:39:52 PM	258.2	78.4
5/23/2019	2:39:53 PM	254.4	74.6
5/23/2019	2:39:54 PM	251.6	71.8
5/23/2019	2:39:55 PM	249.0	69.2

APPENDIX E22: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:39:56 PM	246.7	66.9
5/23/2019	2:39:57 PM	244.2	64.4
5/23/2019	2:39:58 PM	242.2	62.4
5/23/2019	2:39:59 PM	240.0	60.2
5/23/2019	2:40:00 PM	238.3	58.5
5/23/2019	2:40:01 PM	236.4	56.6
5/23/2019	2:40:02 PM	234.8	55.0
5/23/2019	2:40:03 PM	232.8	53.0
5/23/2019	2:40:04 PM	229.3	49.5
5/23/2019	2:40:05 PM	225.8	46.0
5/23/2019	2:40:06 PM	223.1	43.3
5/23/2019	2:40:07 PM	220.2	40.4
5/23/2019	2:40:08 PM	217.8	38.0
5/23/2019	2:40:09 PM	215.5	35.7
5/23/2019	2:40:10 PM	213.6	33.8
5/23/2019	2:40:11 PM	212.1	32.3
5/23/2019	2:40:12 PM	210.3	30.5
5/23/2019	2:40:13 PM	208.8	29.0
5/23/2019	2:40:14 PM	207.3	27.5
5/23/2019	2:40:15 PM	205.8	26.0
5/23/2019	2:40:16 PM	204.6	24.8
5/23/2019	2:40:17 PM	203.6	23.8
5/23/2019	2:40:18 PM	202.6	22.8
5/23/2019	2:40:19 PM	201.8	22.0
5/23/2019	2:40:20 PM	200.9	21.1
5/23/2019	2:40:21 PM	200.3	20.5
5/23/2019	2:40:22 PM	199.6	19.8
5/23/2019	2:40:23 PM	199.0	19.2
5/23/2019	2:40:24 PM	198.4	18.6
5/23/2019	2:40:25 PM	197.9	18.1
5/23/2019	2:40:26 PM	197.4	17.6
5/23/2019	2:40:27 PM	197.0	17.2
5/23/2019	2:40:28 PM	196.5	16.7
5/23/2019	2:40:29 PM	196.1	16.3
5/23/2019	2:40:30 PM	195.6	15.8
5/23/2019	2:40:31 PM	195.3	15.5
5/23/2019	2:40:32 PM	194.9	15.1
5/23/2019	2:40:33 PM	194.4	14.6
5/23/2019	2:40:34 PM	194.0	14.2
5/23/2019	2:40:35 PM	193.5	13.7
5/23/2019	2:40:36 PM	192.9	13.1
5/23/2019	2:40:37 PM	192.6	12.8
5/23/2019	2:40:38 PM	192.1	12.3
5/23/2019	2:40:39 PM	191.7	11.9
5/23/2019	2:40:40 PM	191.3	11.5
5/23/2019	2:40:41 PM	190.8	11.0
5/23/2019	2:40:42 PM	190.6	10.8
5/23/2019	2:40:43 PM	190.1	10.3
5/23/2019	2:40:44 PM	189.8	10.0
5/23/2019	2:40:45 PM	189.4	9.6
5/23/2019	2:40:46 PM	189.1	9.3
5/23/2019	2:40:47 PM	188.8	9.0
5/23/2019	2:40:48 PM	188.5	8.7
5/23/2019	2:40:49 PM	188.2	8.4
5/23/2019	2:40:50 PM	187.9	8.1
5/23/2019	2:40:51 PM	187.7	7.9
5/23/2019	2:40:52 PM	187.4	7.6
5/23/2019	2:40:53 PM	187.1	7.3
5/23/2019	2:40:54 PM	186.8	7.0
5/23/2019	2:40:55 PM	186.6	6.8
5/23/2019	2:40:56 PM	186.3	6.5
5/23/2019	2:40:57 PM	186.1	6.3
5/23/2019	2:40:58 PM	185.9	6.1
5/23/2019	2:40:59 PM	185.7	5.9
5/23/2019	2:41:00 PM	185.5	5.7
5/23/2019	2:41:01 PM	185.3	5.5
5/23/2019	2:41:02 PM	185.2	5.4
5/23/2019	2:41:03 PM	185.0	5.2
5/23/2019	2:41:04 PM	184.9	5.1
5/23/2019	2:41:05 PM	184.7	4.9
5/23/2019	2:41:06 PM	184.4	4.6
5/23/2019	2:41:07 PM	184.2	4.4
5/23/2019	2:41:08 PM	183.9	4.1
5/23/2019	2:41:09 PM	183.6	3.8
5/23/2019	2:41:10 PM	183.4	3.6

APPENDIX E22: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:41:11 PM	183.1	3.3
5/23/2019	2:41:12 PM	182.9	3.1
5/23/2019	2:41:13 PM	182.7	2.9
5/23/2019	2:41:14 PM	182.5	2.7
5/23/2019	2:41:15 PM	182.4	2.6
5/23/2019	2:41:16 PM	182.3	2.5
5/23/2019	2:41:17 PM	182.2	2.4
5/23/2019	2:41:18 PM	182.1	2.3
5/23/2019	2:41:19 PM	182.2	2.4
5/23/2019	2:41:20 PM	182.2	2.4
5/23/2019	2:41:21 PM	182.3	2.5
5/23/2019	2:41:22 PM	182.3	2.5
5/23/2019	2:41:23 PM	182.4	2.6
5/23/2019	2:41:24 PM	182.4	2.6
5/23/2019	2:41:25 PM	182.4	2.6
5/23/2019	2:41:26 PM	182.4	2.6
5/23/2019	2:41:27 PM	182.3	2.5
5/23/2019	2:41:28 PM	182.2	2.4
5/23/2019	2:41:29 PM	182.1	2.3
5/23/2019	2:41:30 PM	181.9	2.1
5/23/2019	2:41:31 PM	181.7	1.9
5/23/2019	2:41:32 PM	181.4	1.6
5/23/2019	2:41:33 PM	181.2	1.4
5/23/2019	2:41:34 PM	180.9	1.1
5/23/2019	2:41:35 PM	180.6	0.8
5/23/2019	2:41:36 PM	180.3	0.5
5/23/2019	2:41:37 PM	180.0	0.2
5/23/2019	2:41:38 PM	179.8	0.0
5/23/2019	2:41:39 PM	179.6	-0.2
5/23/2019	2:41:40 PM	179.4	-0.4
5/23/2019	2:41:41 PM	179.3	-0.5
5/23/2019	2:41:42 PM	179.1	-0.7
5/23/2019	2:41:43 PM	179.0	-0.8
5/23/2019	2:41:44 PM	178.9	-0.9
5/23/2019	2:41:45 PM	178.9	-0.9
5/23/2019	2:41:46 PM	178.9	-0.9

APPENDIX E22: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-2	1418	173	19.5
SEEP-A1 TEST-2	1419	179.6	19.6
SEEP-A1 TEST-2	1420	179	19.6
SEEP-A1 TEST-2	1421	174.7	19.7
SEEP-A1 TEST-2	1422	175.9	19.7
Geometric Mean		176.4	(µS/cms)
Average (pre-test)		179.9	(µS/cms)
Average (post-test)		163.1	(µS/cms)

Table E3 SEEP-A1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-2	1	39.4	25.8
SEEP-A1 TEST-2	10	180.0	25.3
SEEP-A1 TEST-2	100	453.0	24.6
SEEP-A1 TEST-2	1000	3,480.0	25.2
SEEP-A1 TEST-2	10000	15,600.0	26.3
SEEP-A1 TEST-2	100000	129,760.0	25.9

Table E4 SEEP-A1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,800	mg
Slope of Calibration Curve	K	1.3004	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	105,324.6	(s) . (µS/cms)
Calculated Flow Rate	Q	3.70	L/s
		59.00	GPM

Notes:

°C	degrees celsius
mg/L	miligrams per liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E23: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:49:19 PM	179.8	-
5/23/2019	2:49:20 PM	179.9	-
5/23/2019	2:49:21 PM	179.9	-
5/23/2019	2:49:22 PM	180.0	-
5/23/2019	2:49:23 PM	180.0	-
5/23/2019	2:49:24 PM	180.1	-
5/23/2019	2:49:25 PM	180.2	-
5/23/2019	2:49:26 PM	180.3	-
5/23/2019	2:49:27 PM	180.3	-
5/23/2019	2:49:28 PM	180.3	-
5/23/2019	2:49:29 PM	180.3	-
5/23/2019	2:49:30 PM	180.2	-
5/23/2019	2:49:31 PM	180.2	-
5/23/2019	2:49:32 PM	180.1	-
5/23/2019	2:49:33 PM	180.0	-
5/23/2019	2:49:34 PM	179.8	-
5/23/2019	2:49:35 PM	179.7	-
5/23/2019	2:49:36 PM	179.6	-
5/23/2019	2:49:37 PM	179.4	-
5/23/2019	2:49:38 PM	179.3	-
5/23/2019	2:49:39 PM	179.2	-
5/23/2019	2:49:40 PM	179.2	-
5/23/2019	2:49:41 PM	179.2	-
5/23/2019	2:49:42 PM	179.8	-
5/23/2019	2:49:43 PM	609.0	429.1
5/23/2019	2:49:44 PM	3498.1	3318.2
5/23/2019	2:49:45 PM	7553.0	7373.1
5/23/2019	2:49:46 PM	9610.6	9430.7
5/23/2019	2:49:47 PM	10174.5	9994.6
5/23/2019	2:49:48 PM	10145.7	9965.8
5/23/2019	2:49:49 PM	8907.0	8727.1
5/23/2019	2:49:50 PM	7230.4	7050.5
5/23/2019	2:49:51 PM	6486.8	6306.9
5/23/2019	2:49:52 PM	5468.8	5288.9
5/23/2019	2:49:53 PM	4435.1	4255.2
5/23/2019	2:49:54 PM	4105.0	3925.1
5/23/2019	2:49:55 PM	3941.1	3761.2
5/23/2019	2:49:56 PM	3475.6	3295.7
5/23/2019	2:49:57 PM	3172.3	2992.4
5/23/2019	2:49:58 PM	2813.3	2633.4
5/23/2019	2:49:59 PM	2658.8	2478.9
5/23/2019	2:50:00 PM	2348.2	2168.3
5/23/2019	2:50:01 PM	2095.3	1915.4
5/23/2019	2:50:02 PM	1804.3	1624.4
5/23/2019	2:50:03 PM	1664.7	1484.8
5/23/2019	2:50:04 PM	1253.5	1073.6
5/23/2019	2:50:05 PM	1086.8	906.9
5/23/2019	2:50:06 PM	955.7	775.8
5/23/2019	2:50:07 PM	869.5	689.6
5/23/2019	2:50:08 PM	798.2	618.3
5/23/2019	2:50:09 PM	715.5	535.6
5/23/2019	2:50:10 PM	688.3	508.4
5/23/2019	2:50:11 PM	682.6	502.7
5/23/2019	2:50:12 PM	528.2	348.3
5/23/2019	2:50:13 PM	506.4	326.5
5/23/2019	2:50:14 PM	478.9	299.0
5/23/2019	2:50:15 PM	473.6	293.7
5/23/2019	2:50:16 PM	457.5	277.6
5/23/2019	2:50:17 PM	381.5	201.6
5/23/2019	2:50:18 PM	366.4	186.5
5/23/2019	2:50:19 PM	346.1	166.2
5/23/2019	2:50:20 PM	343.6	163.7
5/23/2019	2:50:21 PM	337.4	157.5
5/23/2019	2:50:22 PM	329.3	149.4
5/23/2019	2:50:23 PM	318.7	138.8
5/23/2019	2:50:24 PM	310.8	130.9
5/23/2019	2:50:25 PM	303.2	123.3
5/23/2019	2:50:26 PM	297.2	117.3
5/23/2019	2:50:27 PM	291.1	111.2
5/23/2019	2:50:28 PM	285.9	106.0
5/23/2019	2:50:29 PM	282.0	102.1

APPENDIX E23: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:50:30 PM	277.8	97.9
5/23/2019	2:50:31 PM	232.9	53.0
5/23/2019	2:50:32 PM	228.6	48.7
5/23/2019	2:50:33 PM	226.4	46.5
5/23/2019	2:50:34 PM	224.8	44.9
5/23/2019	2:50:35 PM	223.2	43.3
5/23/2019	2:50:36 PM	221.1	41.2
5/23/2019	2:50:37 PM	220.0	40.1
5/23/2019	2:50:38 PM	218.8	38.9
5/23/2019	2:50:39 PM	217.6	37.7
5/23/2019	2:50:40 PM	216.4	36.5
5/23/2019	2:50:41 PM	215.5	35.6
5/23/2019	2:50:42 PM	214.5	34.6
5/23/2019	2:50:43 PM	213.6	33.7
5/23/2019	2:50:44 PM	212.6	32.7
5/23/2019	2:50:45 PM	211.7	31.8
5/23/2019	2:50:46 PM	210.8	30.9
5/23/2019	2:50:47 PM	209.5	29.6
5/23/2019	2:50:48 PM	207.8	27.9
5/23/2019	2:50:49 PM	206.0	26.1
5/23/2019	2:50:50 PM	204.6	24.7
5/23/2019	2:50:51 PM	203.1	23.2
5/23/2019	2:50:52 PM	202.0	22.1
5/23/2019	2:50:53 PM	200.8	20.9
5/23/2019	2:50:54 PM	199.9	20.0
5/23/2019	2:50:55 PM	198.9	19.0
5/23/2019	2:50:56 PM	198.2	18.3
5/23/2019	2:50:57 PM	197.5	17.6
5/23/2019	2:50:58 PM	197.0	17.1
5/23/2019	2:50:59 PM	196.5	16.6
5/23/2019	2:51:00 PM	196.2	16.3
5/23/2019	2:51:01 PM	195.9	16.0
5/23/2019	2:51:02 PM	195.5	15.6
5/23/2019	2:51:03 PM	195.1	15.2
5/23/2019	2:51:04 PM	194.8	14.9
5/23/2019	2:51:05 PM	194.3	14.4
5/23/2019	2:51:06 PM	193.8	13.9
5/23/2019	2:51:07 PM	193.4	13.5
5/23/2019	2:51:08 PM	192.9	13.0
5/23/2019	2:51:09 PM	192.4	12.5
5/23/2019	2:51:10 PM	191.9	12.0
5/23/2019	2:51:11 PM	191.4	11.5
5/23/2019	2:51:12 PM	190.8	10.9
5/23/2019	2:51:13 PM	190.3	10.4
5/23/2019	2:51:14 PM	189.7	9.8
5/23/2019	2:51:15 PM	189.3	9.4
5/23/2019	2:51:16 PM	188.8	8.9
5/23/2019	2:51:17 PM	188.4	8.5
5/23/2019	2:51:18 PM	188.0	8.1
5/23/2019	2:51:19 PM	187.6	7.7
5/23/2019	2:51:20 PM	187.2	7.3
5/23/2019	2:51:21 PM	186.9	7.0
5/23/2019	2:51:22 PM	186.6	6.7
5/23/2019	2:51:23 PM	186.4	6.5
5/23/2019	2:51:24 PM	186.1	6.2
5/23/2019	2:51:25 PM	185.9	6.0
5/23/2019	2:51:26 PM	185.6	5.7
5/23/2019	2:51:27 PM	185.4	5.5
5/23/2019	2:51:28 PM	185.1	5.2
5/23/2019	2:51:29 PM	184.8	4.9
5/23/2019	2:51:30 PM	184.6	4.7
5/23/2019	2:51:31 PM	184.3	4.4
5/23/2019	2:51:32 PM	184.1	4.2
5/23/2019	2:51:33 PM	183.9	4.0
5/23/2019	2:51:34 PM	183.7	3.8
5/23/2019	2:51:35 PM	183.4	3.5
5/23/2019	2:51:36 PM	183.1	3.2
5/23/2019	2:51:37 PM	182.8	2.9
5/23/2019	2:51:38 PM	182.5	2.6
5/23/2019	2:51:39 PM	182.2	2.3
5/23/2019	2:51:40 PM	182.0	2.1
5/23/2019	2:51:41 PM	181.7	1.8
5/23/2019	2:51:42 PM	181.3	1.4
5/23/2019	2:51:43 PM	181.0	1.1
5/23/2019	2:51:44 PM	180.6	0.7
5/23/2019	2:51:45 PM	180.2	0.3
5/23/2019	2:51:46 PM	179.8	-0.1
5/23/2019	2:51:47 PM	179.4	-0.5
5/23/2019	2:51:48 PM	179.0	-0.9

APPENDIX E23: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:51:49 PM	178.7	-1.2
5/23/2019	2:51:50 PM	178.2	-1.7
5/23/2019	2:51:51 PM	177.8	-2.1
5/23/2019	2:51:52 PM	177.4	-2.5
5/23/2019	2:51:53 PM	177.0	-2.9
5/23/2019	2:51:54 PM	176.5	-3.4
5/23/2019	2:51:55 PM	176.0	-3.9
5/23/2019	2:51:56 PM	175.5	-4.4
5/23/2019	2:51:57 PM	175.0	-4.9
5/23/2019	2:51:58 PM	174.5	-5.4
5/23/2019	2:51:59 PM	174.1	-5.8
5/23/2019	2:52:00 PM	173.8	-6.1
5/23/2019	2:52:01 PM	173.5	-6.4
5/23/2019	2:52:02 PM	173.4	-6.5
5/23/2019	2:52:03 PM	173.4	-6.5
5/23/2019	2:52:04 PM	173.3	-6.6
5/23/2019	2:52:05 PM	173.4	-6.5
5/23/2019	2:52:06 PM	173.5	-6.4
5/23/2019	2:52:07 PM	173.8	-6.1
5/23/2019	2:52:08 PM	174.1	-5.8
5/23/2019	2:52:09 PM	174.4	-5.5
5/23/2019	2:52:10 PM	174.7	-5.2
5/23/2019	2:52:11 PM	175.0	-4.9
5/23/2019	2:52:12 PM	175.3	-4.6
5/23/2019	2:52:13 PM	175.5	-4.4
5/23/2019	2:52:14 PM	175.7	-4.2
5/23/2019	2:52:15 PM	175.8	-4.1
5/23/2019	2:52:16 PM	175.8	-4.1
5/23/2019	2:52:17 PM	175.8	-4.1
5/23/2019	2:52:18 PM	175.8	-4.1
5/23/2019	2:52:19 PM	175.7	-4.2
5/23/2019	2:52:20 PM	175.6	-4.3
5/23/2019	2:52:21 PM	175.4	-4.5
5/23/2019	2:52:22 PM	175.2	-4.7
5/23/2019	2:52:23 PM	175.1	-4.8
5/23/2019	2:52:24 PM	174.8	-5.1
5/23/2019	2:52:25 PM	174.5	-5.4
5/23/2019	2:52:26 PM	174.1	-5.8
5/23/2019	2:52:27 PM	173.7	-6.2
5/23/2019	2:52:28 PM	173.2	-6.7
5/23/2019	2:52:29 PM	172.9	-7.0
5/23/2019	2:52:30 PM	172.4	-7.5
5/23/2019	2:52:31 PM	172.1	-7.8
5/23/2019	2:52:32 PM	171.6	-8.3
5/23/2019	2:52:33 PM	171.2	-8.7
5/23/2019	2:52:34 PM	170.8	-9.1
5/23/2019	2:52:35 PM	170.5	-9.4
5/23/2019	2:52:36 PM	170.2	-9.7
5/23/2019	2:52:37 PM	169.9	-10.0
5/23/2019	2:52:38 PM	169.7	-10.2
5/23/2019	2:52:39 PM	169.6	-10.3
5/23/2019	2:52:40 PM	169.5	-10.4
5/23/2019	2:52:41 PM	169.4	-10.5
5/23/2019	2:52:42 PM	169.3	-10.6
5/23/2019	2:52:43 PM	169.2	-10.7
5/23/2019	2:52:44 PM	169.1	-10.8
5/23/2019	2:52:45 PM	169.0	-10.9
5/23/2019	2:52:46 PM	168.9	-11.0
5/23/2019	2:52:47 PM	168.7	-11.2
5/23/2019	2:52:48 PM	168.6	-11.3
5/23/2019	2:52:49 PM	168.4	-11.5
5/23/2019	2:52:50 PM	168.2	-11.7
5/23/2019	2:52:51 PM	168.0	-11.9
5/23/2019	2:52:52 PM	167.8	-12.1
5/23/2019	2:52:53 PM	167.5	-12.4
5/23/2019	2:52:54 PM	167.3	-12.6
5/23/2019	2:52:55 PM	167.0	-12.9
5/23/2019	2:52:56 PM	166.8	-13.1
5/23/2019	2:52:57 PM	166.6	-13.3
5/23/2019	2:52:58 PM	166.4	-13.5
5/23/2019	2:52:59 PM	166.2	-13.7
5/23/2019	2:53:00 PM	166.1	-13.8
5/23/2019	2:53:01 PM	166.0	-13.9
5/23/2019	2:53:02 PM	165.9	-14.0
5/23/2019	2:53:03 PM	165.9	-14.0
5/23/2019	2:53:04 PM	165.8	-14.1
5/23/2019	2:53:05 PM	165.9	-14.0
5/23/2019	2:53:06 PM	165.9	-14.0
5/23/2019	2:53:07 PM	166.0	-13.9
5/23/2019	2:53:08 PM	166.1	-13.8

APPENDIX E23: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:53:09 PM	166.2	-13.7
5/23/2019	2:53:10 PM	166.4	-13.5
5/23/2019	2:53:11 PM	166.6	-13.3
5/23/2019	2:53:12 PM	166.6	-13.3
5/23/2019	2:53:13 PM	166.7	-13.2
5/23/2019	2:53:14 PM	166.8	-13.1
5/23/2019	2:53:15 PM	166.9	-13.0
5/23/2019	2:53:16 PM	166.9	-13.0
5/23/2019	2:53:17 PM	167.0	-12.9
5/23/2019	2:53:18 PM	167.0	-12.9
5/23/2019	2:53:19 PM	167.0	-12.9
5/23/2019	2:53:20 PM	166.9	-13.0
5/23/2019	2:53:21 PM	166.9	-13.0
5/23/2019	2:53:22 PM	166.8	-13.1
5/23/2019	2:53:23 PM	166.7	-13.2
5/23/2019	2:53:24 PM	166.5	-13.4
5/23/2019	2:53:25 PM	166.4	-13.5
5/23/2019	2:53:26 PM	166.2	-13.7
5/23/2019	2:53:27 PM	166.0	-13.9
5/23/2019	2:53:28 PM	165.8	-14.1
5/23/2019	2:53:29 PM	165.6	-14.3
5/23/2019	2:53:30 PM	165.4	-14.5
5/23/2019	2:53:31 PM	165.1	-14.8
5/23/2019	2:53:32 PM	164.9	-15.0
5/23/2019	2:53:33 PM	164.6	-15.3
5/23/2019	2:53:34 PM	164.4	-15.5
5/23/2019	2:53:35 PM	164.2	-15.7
5/23/2019	2:53:36 PM	164.0	-15.9
5/23/2019	2:53:37 PM	163.9	-16.0
5/23/2019	2:53:38 PM	163.8	-16.1
5/23/2019	2:53:39 PM	163.8	-16.1
5/23/2019	2:53:40 PM	163.7	-16.2
5/23/2019	2:53:41 PM	163.7	-16.2
5/23/2019	2:53:42 PM	163.6	-16.3
5/23/2019	2:53:43 PM	163.6	-16.3
5/23/2019	2:53:44 PM	163.6	-16.3
5/23/2019	2:53:45 PM	163.6	-16.3
5/23/2019	2:53:46 PM	163.6	-16.3
5/23/2019	2:53:47 PM	163.6	-16.3
5/23/2019	2:53:48 PM	163.5	-16.4
5/23/2019	2:53:49 PM	163.4	-16.5
5/23/2019	2:53:50 PM	163.3	-16.6
5/23/2019	2:53:51 PM	163.2	-16.7
5/23/2019	2:53:52 PM	163.0	-16.9
5/23/2019	2:53:53 PM	162.8	-17.1
5/23/2019	2:53:54 PM	162.6	-17.3
5/23/2019	2:53:55 PM	162.4	-17.5
5/23/2019	2:53:56 PM	162.1	-17.8
5/23/2019	2:53:57 PM	161.9	-18.0
5/23/2019	2:53:58 PM	161.6	-18.3
5/23/2019	2:53:59 PM	161.3	-18.6
5/23/2019	2:54:00 PM	161.0	-18.9
5/23/2019	2:54:01 PM	160.7	-19.2
5/23/2019	2:54:02 PM	160.4	-19.5
5/23/2019	2:54:03 PM	160.0	-19.9
5/23/2019	2:54:04 PM	159.7	-20.2
5/23/2019	2:54:05 PM	159.2	-20.7
5/23/2019	2:54:06 PM	158.8	-21.1
5/23/2019	2:54:07 PM	158.4	-21.5
5/23/2019	2:54:08 PM	158.0	-21.9
5/23/2019	2:54:09 PM	157.5	-22.4
5/23/2019	2:54:10 PM	157.1	-22.8
5/23/2019	2:54:11 PM	156.5	-23.4
5/23/2019	2:54:12 PM	156.1	-23.8
5/23/2019	2:54:13 PM	155.7	-24.2
5/23/2019	2:54:14 PM	155.2	-24.7
5/23/2019	2:54:15 PM	154.9	-25.0
5/23/2019	2:54:16 PM	154.6	-25.3
5/23/2019	2:54:17 PM	154.4	-25.5
5/23/2019	2:54:18 PM	154.3	-25.6
5/23/2019	2:54:19 PM	154.2	-25.7
5/23/2019	2:54:20 PM	154.1	-25.8
5/23/2019	2:54:21 PM	154.0	-25.9
5/23/2019	2:54:22 PM	154.1	-25.8
5/23/2019	2:54:23 PM	154.1	-25.8
5/23/2019	2:54:24 PM	154.3	-25.6
5/23/2019	2:54:25 PM	154.4	-25.5
5/23/2019	2:54:26 PM	154.5	-25.4
5/23/2019	2:54:27 PM	154.6	-25.3
5/23/2019	2:54:28 PM	154.7	-25.2

APPENDIX E23: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	2:54:29 PM	154.7	-25.2
5/23/2019	2:54:30 PM	154.7	-25.2
5/23/2019	2:54:31 PM	154.7	-25.2
5/23/2019	2:54:32 PM	154.7	-25.2
5/23/2019	2:54:33 PM	154.6	-25.3
5/23/2019	2:54:34 PM	154.6	-25.3
5/23/2019	2:54:35 PM	154.6	-25.3
5/23/2019	2:54:36 PM	154.5	-25.4
5/23/2019	2:54:37 PM	154.5	-25.4
5/23/2019	2:54:38 PM	154.5	-25.4
5/23/2019	2:54:39 PM	154.5	-25.4
5/23/2019	2:54:40 PM	154.5	-25.4
5/23/2019	2:54:41 PM	154.5	-25.4
5/23/2019	2:54:42 PM	154.5	-25.4
5/23/2019	2:54:43 PM	154.5	-25.4
5/23/2019	2:54:44 PM	154.6	-25.3
5/23/2019	2:54:45 PM	154.6	-25.3
5/23/2019	2:54:46 PM	154.6	-25.3
5/23/2019	2:54:47 PM	154.5	-25.4
5/23/2019	2:54:48 PM	154.5	-25.4
5/23/2019	2:54:49 PM	154.4	-25.5
5/23/2019	2:54:50 PM	154.3	-25.6
5/23/2019	2:54:51 PM	154.3	-25.6
5/23/2019	2:54:52 PM	154.1	-25.8
5/23/2019	2:54:53 PM	154.0	-25.9
5/23/2019	2:54:54 PM	153.8	-26.1
5/23/2019	2:54:55 PM	153.6	-26.3
5/23/2019	2:54:56 PM	153.3	-26.6
5/23/2019	2:54:57 PM	153.0	-26.9
5/23/2019	2:54:58 PM	152.8	-27.1
5/23/2019	2:54:59 PM	152.5	-27.4
5/23/2019	2:55:00 PM	152.2	-27.7
5/23/2019	2:55:01 PM	151.9	-28.0
5/23/2019	2:55:02 PM	151.4	-28.5
5/23/2019	2:55:03 PM	151.2	-28.7
5/23/2019	2:55:04 PM	150.7	-29.2
5/23/2019	2:55:05 PM	150.5	-29.4
5/23/2019	2:55:06 PM	150.2	-29.7
5/23/2019	2:55:07 PM	149.8	-30.1
5/23/2019	2:55:08 PM	149.6	-30.3
5/23/2019	2:55:09 PM	149.4	-30.5
5/23/2019	2:55:10 PM	149.1	-30.8
5/23/2019	2:55:11 PM	148.9	-31.0
5/23/2019	2:55:12 PM	148.7	-31.2
5/23/2019	2:55:13 PM	148.6	-31.3
5/23/2019	2:55:14 PM	148.5	-31.4
5/23/2019	2:55:15 PM	148.4	-31.5
5/23/2019	2:55:16 PM	148.2	-31.7
5/23/2019	2:55:17 PM	148.1	-31.8
5/23/2019	2:55:18 PM	148.0	-31.9
5/23/2019	2:55:19 PM	147.8	-32.1
5/23/2019	2:55:20 PM	147.7	-32.2

APPENDIX E23: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 May
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-3	1418	173.0	19.5
SEEP-A1 TEST-3	1419	179.6	19.6
SEEP-A1 TEST-3	1420	179.0	19.6
SEEP-A1 TEST-3	1421	174.7	19.7
SEEP-A1 TEST-3	1422	175.9	19.7
Average		176.4	(µS/cms)
Geo Mean		176.4	(µS/cms)
Average (pre-test)		179.9	(µS/cms)
Average (post-test)		163.1	(µS/cms)

Table E3 SEEP-A1 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-3	1	39.4	25.8
SEEP-A1 TEST-3	10	180	25.3
SEEP-A1 TEST-3	100	453	24.6
SEEP-A1 TEST-3	1,000	3,480	25.2
SEEP-A1 TEST-3	10000	15,600	26.3
SEEP-A1 TEST-3	100,000	129,760	25.9

Table E4 SEEP-A1 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})*\Delta t\}}{K}}$$

Mass of Salt injected	q	299,800	mg	
Slope of Calibration Curve	K	1.3004	(µS/cms) / (mg/L)	
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	105257	(s) . (µS/cms)	
Calculated Flow Rate	Q	3.7	L/s	
		58.8	GPM	

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E24: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:21:29 AM	132.5	-
6/7/2019	11:21:30 AM	132.5	-
6/7/2019	11:21:31 AM	132.5	-
6/7/2019	11:21:32 AM	132.5	-
6/7/2019	11:21:33 AM	132.5	-
6/7/2019	11:21:34 AM	132.6	-
6/7/2019	11:21:35 AM	132.6	-
6/7/2019	11:21:36 AM	132.6	-
6/7/2019	11:21:37 AM	132.5	-
6/7/2019	11:21:38 AM	132.5	-
6/7/2019	11:21:39 AM	132.5	-
6/7/2019	11:21:40 AM	132.5	-
6/7/2019	11:21:41 AM	132.5	-
6/7/2019	11:21:42 AM	132.5	-
6/7/2019	11:21:43 AM	132.5	-
6/7/2019	11:21:44 AM	132.6	-
6/7/2019	11:21:45 AM	132.6	-
6/7/2019	11:21:46 AM	132.6	-
6/7/2019	11:21:47 AM	132.7	-
6/7/2019	11:21:48 AM	132.7	-
6/7/2019	11:21:49 AM	132.7	-
6/7/2019	11:21:50 AM	132.8	-
6/7/2019	11:21:51 AM	132.8	-
6/7/2019	11:21:52 AM	132.8	-
6/7/2019	11:21:53 AM	133.1	-
6/7/2019	11:21:54 AM	363.0	230.4
6/7/2019	11:21:55 AM	659.3	526.7
6/7/2019	11:21:56 AM	2317.4	2184.8
6/7/2019	11:21:57 AM	3486.7	3354.1
6/7/2019	11:21:58 AM	4258.2	4125.6
6/7/2019	11:21:59 AM	5047.8	4915.2
6/7/2019	11:22:00 AM	5166.2	5033.6
6/7/2019	11:22:01 AM	5147.5	5014.9
6/7/2019	11:22:02 AM	4479.8	4347.2
6/7/2019	11:22:03 AM	3847.1	3714.5
6/7/2019	11:22:04 AM	3423.0	3290.4
6/7/2019	11:22:05 AM	2947.7	2815.1
6/7/2019	11:22:06 AM	2604.1	2471.5
6/7/2019	11:22:07 AM	2137.7	2005.1
6/7/2019	11:22:08 AM	1971.2	1838.6
6/7/2019	11:22:09 AM	1598.9	1466.3
6/7/2019	11:22:10 AM	1462.3	1329.7
6/7/2019	11:22:11 AM	1255.6	1123.0
6/7/2019	11:22:12 AM	1110.6	978.0
6/7/2019	11:22:13 AM	975.7	843.1
6/7/2019	11:22:14 AM	853.7	721.1
6/7/2019	11:22:15 AM	789.8	657.2
6/7/2019	11:22:16 AM	699.8	567.2
6/7/2019	11:22:17 AM	641.9	509.3
6/7/2019	11:22:18 AM	586.8	454.2
6/7/2019	11:22:19 AM	495.6	363.0
6/7/2019	11:22:20 AM	502.6	370.0
6/7/2019	11:22:21 AM	481.8	349.2
6/7/2019	11:22:22 AM	409.2	276.6
6/7/2019	11:22:23 AM	383.0	250.4
6/7/2019	11:22:24 AM	351.1	218.5
6/7/2019	11:22:25 AM	332.6	200.0
6/7/2019	11:22:26 AM	323.2	190.6
6/7/2019	11:22:27 AM	312.0	179.4
6/7/2019	11:22:28 AM	301.0	168.4
6/7/2019	11:22:29 AM	293.8	161.2
6/7/2019	11:22:30 AM	286.6	154.0
6/7/2019	11:22:31 AM	236.0	103.4
6/7/2019	11:22:32 AM	224.2	91.6
6/7/2019	11:22:33 AM	214.9	82.3
6/7/2019	11:22:34 AM	212.1	79.5
6/7/2019	11:22:35 AM	209.4	76.8
6/7/2019	11:22:36 AM	204.6	72.0
6/7/2019	11:22:37 AM	200.3	67.7

APPENDIX E24: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:22:38 AM	197.2	64.6
6/7/2019	11:22:39 AM	194.1	61.5
6/7/2019	11:22:40 AM	191.6	59.0
6/7/2019	11:22:41 AM	189.0	56.4
6/7/2019	11:22:42 AM	186.9	54.3
6/7/2019	11:22:43 AM	184.7	52.1
6/7/2019	11:22:44 AM	183.0	50.4
6/7/2019	11:22:45 AM	181.1	48.5
6/7/2019	11:22:46 AM	179.5	46.9
6/7/2019	11:22:47 AM	177.1	44.5
6/7/2019	11:22:48 AM	173.6	41.0
6/7/2019	11:22:49 AM	170.1	37.5
6/7/2019	11:22:50 AM	167.5	34.9
6/7/2019	11:22:51 AM	164.8	32.2
6/7/2019	11:22:52 AM	162.7	30.1
6/7/2019	11:22:53 AM	160.6	28.0
6/7/2019	11:22:54 AM	159.0	26.4
6/7/2019	11:22:55 AM	157.3	24.7
6/7/2019	11:22:56 AM	155.9	23.3
6/7/2019	11:22:57 AM	154.5	21.9
6/7/2019	11:22:58 AM	153.2	20.6
6/7/2019	11:22:59 AM	152.2	19.6
6/7/2019	11:23:00 AM	151.1	18.5
6/7/2019	11:23:01 AM	150.3	17.7
6/7/2019	11:23:02 AM	149.3	16.7
6/7/2019	11:23:03 AM	148.5	15.9
6/7/2019	11:23:04 AM	147.7	15.1
6/7/2019	11:23:05 AM	147.0	14.4
6/7/2019	11:23:06 AM	146.2	13.6
6/7/2019	11:23:07 AM	145.6	13.0
6/7/2019	11:23:08 AM	144.9	12.3
6/7/2019	11:23:09 AM	144.4	11.8
6/7/2019	11:23:10 AM	143.9	11.3
6/7/2019	11:23:11 AM	143.5	10.9
6/7/2019	11:23:12 AM	143.0	10.4
6/7/2019	11:23:13 AM	142.7	10.1
6/7/2019	11:23:14 AM	142.2	9.6
6/7/2019	11:23:15 AM	141.9	9.3
6/7/2019	11:23:16 AM	141.5	8.9
6/7/2019	11:23:17 AM	141.3	8.7
6/7/2019	11:23:18 AM	141.0	8.4
6/7/2019	11:23:19 AM	140.7	8.1
6/7/2019	11:23:20 AM	140.5	7.9
6/7/2019	11:23:21 AM	140.2	7.6
6/7/2019	11:23:22 AM	139.9	7.3
6/7/2019	11:23:23 AM	139.6	7.0
6/7/2019	11:23:24 AM	139.4	6.8
6/7/2019	11:23:25 AM	139.1	6.5
6/7/2019	11:23:26 AM	138.9	6.3
6/7/2019	11:23:27 AM	138.7	6.1
6/7/2019	11:23:28 AM	138.5	5.9
6/7/2019	11:23:29 AM	138.3	5.7
6/7/2019	11:23:30 AM	138.1	5.5
6/7/2019	11:23:31 AM	137.9	5.3
6/7/2019	11:23:32 AM	137.7	5.1
6/7/2019	11:23:33 AM	137.6	5.0
6/7/2019	11:23:34 AM	137.4	4.8
6/7/2019	11:23:35 AM	137.3	4.7
6/7/2019	11:23:36 AM	137.2	4.6
6/7/2019	11:23:37 AM	137.0	4.4
6/7/2019	11:23:38 AM	136.9	4.3
6/7/2019	11:23:39 AM	136.8	4.2
6/7/2019	11:23:40 AM	136.6	4.0
6/7/2019	11:23:41 AM	136.5	3.9
6/7/2019	11:23:42 AM	136.4	3.8
6/7/2019	11:23:43 AM	136.3	3.7
6/7/2019	11:23:44 AM	136.1	3.5
6/7/2019	11:23:45 AM	136.0	3.4
6/7/2019	11:23:46 AM	135.9	3.3
6/7/2019	11:23:47 AM	135.8	3.2
6/7/2019	11:23:48 AM	135.7	3.1
6/7/2019	11:23:49 AM	135.6	3.0
6/7/2019	11:23:50 AM	135.6	3.0
6/7/2019	11:23:51 AM	135.7	3.1
6/7/2019	11:23:52 AM	135.9	3.3
6/7/2019	11:23:53 AM	136.1	3.5
6/7/2019	11:23:54 AM	136.5	3.9

APPENDIX E24: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:23:55 AM	136.9	4.3
6/7/2019	11:23:56 AM	137.3	4.7
6/7/2019	11:23:57 AM	137.7	5.1
6/7/2019	11:23:58 AM	138.2	5.6
6/7/2019	11:23:59 AM	138.6	6.0
6/7/2019	11:24:00 AM	139.0	6.4
6/7/2019	11:24:01 AM	139.4	6.8
6/7/2019	11:24:02 AM	139.7	7.1
6/7/2019	11:24:03 AM	140.0	7.4
6/7/2019	11:24:04 AM	140.2	7.6
6/7/2019	11:24:05 AM	140.3	7.7
6/7/2019	11:24:06 AM	140.3	7.7
6/7/2019	11:24:07 AM	140.3	7.7
6/7/2019	11:24:08 AM	140.2	7.6
6/7/2019	11:24:09 AM	140.1	7.5
6/7/2019	11:24:10 AM	139.9	7.3
6/7/2019	11:24:11 AM	139.8	7.2
6/7/2019	11:24:12 AM	139.6	7.0
6/7/2019	11:24:13 AM	139.5	6.9
6/7/2019	11:24:14 AM	139.4	6.8
6/7/2019	11:24:15 AM	139.2	6.6
6/7/2019	11:24:16 AM	139.1	6.5
6/7/2019	11:24:17 AM	138.9	6.3
6/7/2019	11:24:18 AM	138.7	6.1
6/7/2019	11:24:19 AM	138.4	5.8
6/7/2019	11:24:20 AM	138.1	5.5
6/7/2019	11:24:21 AM	137.8	5.2
6/7/2019	11:24:22 AM	137.5	4.9
6/7/2019	11:24:23 AM	137.2	4.6
6/7/2019	11:24:24 AM	136.8	4.2
6/7/2019	11:24:25 AM	136.5	3.9
6/7/2019	11:24:26 AM	136.2	3.6
6/7/2019	11:24:27 AM	135.9	3.3
6/7/2019	11:24:28 AM	135.6	3.0
6/7/2019	11:24:29 AM	135.3	2.7
6/7/2019	11:24:30 AM	135.1	2.5
6/7/2019	11:24:31 AM	134.9	2.3
6/7/2019	11:24:32 AM	134.8	2.2
6/7/2019	11:24:33 AM	134.6	2.0
6/7/2019	11:24:34 AM	134.5	1.9
6/7/2019	11:24:35 AM	134.5	1.9
6/7/2019	11:24:36 AM	134.4	1.8
6/7/2019	11:24:37 AM	134.4	1.8
6/7/2019	11:24:38 AM	134.3	1.7
6/7/2019	11:24:39 AM	134.3	1.7
6/7/2019	11:24:40 AM	134.2	1.6
6/7/2019	11:24:41 AM	134.1	1.5
6/7/2019	11:24:42 AM	134.0	1.4
6/7/2019	11:24:43 AM	133.9	1.3
6/7/2019	11:24:44 AM	133.8	1.2
6/7/2019	11:24:45 AM	133.7	1.1
6/7/2019	11:24:46 AM	133.6	1.0
6/7/2019	11:24:47 AM	133.5	0.9
6/7/2019	11:24:48 AM	133.4	0.8
6/7/2019	11:24:49 AM	133.2	0.6
6/7/2019	11:24:50 AM	133.1	0.5
6/7/2019	11:24:51 AM	133.0	0.4
6/7/2019	11:24:52 AM	132.9	0.3
6/7/2019	11:24:53 AM	132.7	0.1
6/7/2019	11:24:54 AM	132.6	0.0
6/7/2019	11:24:55 AM	132.5	-0.1
6/7/2019	11:24:56 AM	132.5	-0.1
6/7/2019	11:24:57 AM	132.4	-0.2
6/7/2019	11:24:58 AM	132.3	-0.3
6/7/2019	11:24:59 AM	132.2	-0.4
6/7/2019	11:25:00 AM	132.2	-0.4
6/7/2019	11:25:01 AM	132.1	-0.5
6/7/2019	11:25:02 AM	132.0	-0.6
6/7/2019	11:25:03 AM	132.0	-0.6
6/7/2019	11:25:04 AM	132.0	-0.6
6/7/2019	11:25:05 AM	131.9	-0.7
6/7/2019	11:25:06 AM	131.9	-0.7
6/7/2019	11:25:07 AM	131.9	-0.7
6/7/2019	11:25:08 AM	131.9	-0.7
6/7/2019	11:25:09 AM	131.8	-0.8
6/7/2019	11:25:10 AM	131.8	-0.8
6/7/2019	11:25:11 AM	131.8	-0.8
6/7/2019	11:25:12 AM	131.8	-0.8
6/7/2019	11:25:13 AM	131.8	-0.8

APPENDIX E24: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:25:14 AM	131.8	-0.8
6/7/2019	11:25:15 AM	131.7	-0.9
6/7/2019	11:25:16 AM	131.7	-0.9
6/7/2019	11:25:17 AM	131.7	-0.9
6/7/2019	11:25:18 AM	131.7	-0.9
6/7/2019	11:25:19 AM	131.7	-0.9
6/7/2019	11:25:20 AM	131.6	-1.0
6/7/2019	11:25:21 AM	131.6	-1.0
6/7/2019	11:25:22 AM	131.5	-1.1
6/7/2019	11:25:23 AM	131.5	-1.1
6/7/2019	11:25:24 AM	131.4	-1.2
6/7/2019	11:25:25 AM	131.3	-1.3
6/7/2019	11:25:26 AM	131.3	-1.3
6/7/2019	11:25:27 AM	131.2	-1.4
6/7/2019	11:25:28 AM	131.1	-1.5
6/7/2019	11:25:29 AM	131.0	-1.6
6/7/2019	11:25:30 AM	130.9	-1.7
6/7/2019	11:25:31 AM	130.9	-1.7
6/7/2019	11:25:32 AM	130.8	-1.8
6/7/2019	11:25:33 AM	130.7	-1.9
6/7/2019	11:25:34 AM	130.6	-2.0
6/7/2019	11:25:35 AM	130.6	-2.0
6/7/2019	11:25:36 AM	130.5	-2.1
6/7/2019	11:25:37 AM	130.4	-2.2
6/7/2019	11:25:38 AM	130.4	-2.2
6/7/2019	11:25:39 AM	130.3	-2.3
6/7/2019	11:25:40 AM	130.3	-2.3
6/7/2019	11:25:41 AM	130.2	-2.4
6/7/2019	11:25:42 AM	130.2	-2.4
6/7/2019	11:25:43 AM	130.1	-2.5
6/7/2019	11:25:44 AM	130.1	-2.5
6/7/2019	11:25:45 AM	130.0	-2.6
6/7/2019	11:25:46 AM	130.0	-2.6
6/7/2019	11:25:47 AM	129.9	-2.7
6/7/2019	11:25:48 AM	129.9	-2.7
6/7/2019	11:25:49 AM	129.8	-2.8
6/7/2019	11:25:50 AM	129.8	-2.8
6/7/2019	11:25:51 AM	129.7	-2.9
6/7/2019	11:25:52 AM	129.7	-2.9
6/7/2019	11:25:53 AM	129.6	-3.0
6/7/2019	11:25:54 AM	129.6	-3.0
6/7/2019	11:25:55 AM	129.5	-3.1
6/7/2019	11:25:56 AM	129.5	-3.1
6/7/2019	11:25:57 AM	129.4	-3.2
6/7/2019	11:25:58 AM	129.4	-3.2
6/7/2019	11:25:59 AM	129.3	-3.3
6/7/2019	11:26:00 AM	129.3	-3.3
6/7/2019	11:26:01 AM	129.3	-3.3
6/7/2019	11:26:02 AM	129.3	-3.3
6/7/2019	11:26:03 AM	129.2	-3.4
6/7/2019	11:26:04 AM	129.2	-3.4
6/7/2019	11:26:05 AM	129.2	-3.4
6/7/2019	11:26:06 AM	129.2	-3.4
6/7/2019	11:26:07 AM	129.1	-3.5
6/7/2019	11:26:08 AM	129.1	-3.5
6/7/2019	11:26:09 AM	129.1	-3.5
6/7/2019	11:26:10 AM	129.1	-3.5
6/7/2019	11:26:11 AM	129.1	-3.5
6/7/2019	11:26:12 AM	129.0	-3.6
6/7/2019	11:26:13 AM	129.0	-3.6
6/7/2019	11:26:14 AM	129.0	-3.6
6/7/2019	11:26:15 AM	129.0	-3.6
6/7/2019	11:26:16 AM	129.0	-3.6
6/7/2019	11:26:17 AM	129.0	-3.6
6/7/2019	11:26:18 AM	129.0	-3.6
6/7/2019	11:26:19 AM	129.0	-3.6
6/7/2019	11:26:20 AM	129.0	-3.6
6/7/2019	11:26:21 AM	129.0	-3.6
6/7/2019	11:26:22 AM	129.0	-3.6
6/7/2019	11:26:23 AM	129.0	-3.6
6/7/2019	11:26:24 AM	129.0	-3.6
6/7/2019	11:26:25 AM	129.1	-3.5
6/7/2019	11:26:26 AM	129.1	-3.5
6/7/2019	11:26:27 AM	129.1	-3.5
6/7/2019	11:26:28 AM	129.1	-3.5
6/7/2019	11:26:29 AM	129.1	-3.5
6/7/2019	11:26:30 AM	129.1	-3.5
6/7/2019	11:26:31 AM	129.1	-3.5
6/7/2019	11:26:32 AM	129.1	-3.5
6/7/2019	11:26:33 AM	129.1	-3.5
6/7/2019	11:26:34 AM	129.0	-3.6
6/7/2019	11:26:35 AM	129.0	-3.6
6/7/2019	11:26:36 AM	129.0	-3.6
6/7/2019	11:26:37 AM	129.0	-3.6

APPENDIX E24: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-1	1054	131.6	21.1
SEEP-A1 TEST-1	1055	131.00	21.1
SEEP-A1 TEST-1	1100	128.9	21.1
SEEP-A1 TEST-1	1102	129.6	21.12
SEEP-A1 TEST-1	NR	130.6	21.2
Average		130.3	(µS/cms)
Geo Mean		130.3	(µS/cms)
Average (pre-test)		132.6	(µS/cms)
Average (post-test)		131.2	(µS/cms)

Table E3 SEEP-A1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-1	100	245	NR
SEEP-A1 TEST-1	1,000	2,160	NR
SEEP-A1 TEST-1	10000	18,420	NR
SEEP-A1 TEST-1	100,000	135,005	NR

Table E4 SEEP-A1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.3550	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	55260	(s) . (µS/cms)
Calculated Flow Rate	Q	6.9	L/s
		108.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E25: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:31:57 AM	128.5	-
6/7/2019	11:31:58 AM	128.4	-
6/7/2019	11:31:59 AM	128.4	-
6/7/2019	11:32:00 AM	128.3	-
6/7/2019	11:32:01 AM	128.4	-
6/7/2019	11:32:02 AM	128.3	-
6/7/2019	11:32:03 AM	128.1	-
6/7/2019	11:32:04 AM	128.0	-
6/7/2019	11:32:05 AM	128.0	-
6/7/2019	11:32:06 AM	128.1	-
6/7/2019	11:32:07 AM	128.1	-
6/7/2019	11:32:08 AM	128.0	-
6/7/2019	11:32:09 AM	127.9	-
6/7/2019	11:32:10 AM	127.8	-
6/7/2019	11:32:11 AM	127.8	-
6/7/2019	11:32:12 AM	127.8	-
6/7/2019	11:32:13 AM	127.8	-
6/7/2019	11:32:14 AM	127.8	-
6/7/2019	11:32:15 AM	127.8	-
6/7/2019	11:32:16 AM	127.8	-
6/7/2019	11:32:17 AM	127.9	-
6/7/2019	11:32:18 AM	128.0	-
6/7/2019	11:32:19 AM	128.0	-
6/7/2019	11:32:20 AM	128.0	-
6/7/2019	11:32:21 AM	128.1	-
6/7/2019	11:32:22 AM	128.3	-
6/7/2019	11:32:23 AM	128.4	-
6/7/2019	11:32:24 AM	128.6	-
6/7/2019	11:32:25 AM	129.6	-
6/7/2019	11:32:26 AM	395.4	267.3
6/7/2019	11:32:27 AM	648.0	519.9
6/7/2019	11:32:28 AM	2436.8	2308.7
6/7/2019	11:32:29 AM	3134.3	3006.2
6/7/2019	11:32:30 AM	4180.7	4052.6
6/7/2019	11:32:31 AM	4529.2	4401.1
6/7/2019	11:32:32 AM	4472.9	4344.8
6/7/2019	11:32:33 AM	4371.8	4243.7
6/7/2019	11:32:34 AM	3653.2	3525.1
6/7/2019	11:32:35 AM	3169.5	3041.4
6/7/2019	11:32:36 AM	2705.3	2577.2
6/7/2019	11:32:37 AM	2285.6	2157.5
6/7/2019	11:32:38 AM	1896.7	1768.6
6/7/2019	11:32:39 AM	1684.7	1556.6
6/7/2019	11:32:40 AM	1450.2	1322.1
6/7/2019	11:32:41 AM	1226.3	1098.2
6/7/2019	11:32:42 AM	1052.8	924.7
6/7/2019	11:32:43 AM	937.6	809.5
6/7/2019	11:32:44 AM	807.6	679.5
6/7/2019	11:32:45 AM	708.6	580.5
6/7/2019	11:32:46 AM	646.6	518.5
6/7/2019	11:32:47 AM	614.5	486.4
6/7/2019	11:32:48 AM	480.4	352.3
6/7/2019	11:32:49 AM	484.3	356.2
6/7/2019	11:32:50 AM	455.2	327.1
6/7/2019	11:32:51 AM	430.6	302.5
6/7/2019	11:32:52 AM	411.5	283.4
6/7/2019	11:32:53 AM	393.4	265.3
6/7/2019	11:32:54 AM	381.8	253.7
6/7/2019	11:32:55 AM	317.4	189.3
6/7/2019	11:32:56 AM	302.1	174.0
6/7/2019	11:32:57 AM	284.6	156.5
6/7/2019	11:32:58 AM	279.5	151.4
6/7/2019	11:32:59 AM	271.7	143.6
6/7/2019	11:33:00 AM	266.6	138.5
6/7/2019	11:33:01 AM	261.1	133.0
6/7/2019	11:33:02 AM	256.9	128.8
6/7/2019	11:33:03 AM	252.1	124.0
6/7/2019	11:33:04 AM	248.2	120.1
6/7/2019	11:33:05 AM	244.0	115.9
6/7/2019	11:33:06 AM	240.0	111.9

APPENDIX E25: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:33:07 AM	236.9	108.8
6/7/2019	11:33:08 AM	233.6	105.5
6/7/2019	11:33:09 AM	230.9	102.8
6/7/2019	11:33:10 AM	228.1	100.0
6/7/2019	11:33:11 AM	223.2	95.1
6/7/2019	11:33:12 AM	217.1	89.0
6/7/2019	11:33:13 AM	212.2	84.1
6/7/2019	11:33:14 AM	207.2	79.1
6/7/2019	11:33:15 AM	203.2	75.1
6/7/2019	11:33:16 AM	199.2	71.1
6/7/2019	11:33:17 AM	196.1	68.0
6/7/2019	11:33:18 AM	192.9	64.8
6/7/2019	11:33:19 AM	190.4	62.3
6/7/2019	11:33:20 AM	187.8	59.7
6/7/2019	11:33:21 AM	185.7	57.6
6/7/2019	11:33:22 AM	183.5	55.4
6/7/2019	11:33:23 AM	181.6	53.5
6/7/2019	11:33:24 AM	179.7	51.6
6/7/2019	11:33:25 AM	177.9	49.8
6/7/2019	11:33:26 AM	176.6	48.5
6/7/2019	11:33:27 AM	175.1	47.0
6/7/2019	11:33:28 AM	173.9	45.8
6/7/2019	11:33:29 AM	172.6	44.5
6/7/2019	11:33:30 AM	171.6	43.5
6/7/2019	11:33:31 AM	170.5	42.4
6/7/2019	11:33:32 AM	169.7	41.6
6/7/2019	11:33:33 AM	168.8	40.7
6/7/2019	11:33:34 AM	168.0	39.9
6/7/2019	11:33:35 AM	167.2	39.1
6/7/2019	11:33:36 AM	166.5	38.4
6/7/2019	11:33:37 AM	165.8	37.7
6/7/2019	11:33:38 AM	165.2	37.1
6/7/2019	11:33:39 AM	164.6	36.5
6/7/2019	11:33:40 AM	164.0	35.9
6/7/2019	11:33:41 AM	163.5	35.4
6/7/2019	11:33:42 AM	163.0	34.9
6/7/2019	11:33:43 AM	162.5	34.4
6/7/2019	11:33:44 AM	162.1	34.0
6/7/2019	11:33:45 AM	161.7	33.6
6/7/2019	11:33:46 AM	161.3	33.2
6/7/2019	11:33:47 AM	160.9	32.8
6/7/2019	11:33:48 AM	160.5	32.4
6/7/2019	11:33:49 AM	160.2	32.1
6/7/2019	11:33:50 AM	159.9	31.8
6/7/2019	11:33:51 AM	159.6	31.5
6/7/2019	11:33:52 AM	159.2	31.1
6/7/2019	11:33:53 AM	159.0	30.9
6/7/2019	11:33:54 AM	158.6	30.5
6/7/2019	11:33:55 AM	158.4	30.3
6/7/2019	11:33:56 AM	158.1	30.0
6/7/2019	11:33:57 AM	157.8	29.7
6/7/2019	11:33:58 AM	157.5	29.4
6/7/2019	11:33:59 AM	157.2	29.1
6/7/2019	11:34:00 AM	156.9	28.8
6/7/2019	11:34:01 AM	156.7	28.6
6/7/2019	11:34:02 AM	156.4	28.3
6/7/2019	11:34:03 AM	156.1	28.0
6/7/2019	11:34:04 AM	155.9	27.8
6/7/2019	11:34:05 AM	155.6	27.5
6/7/2019	11:34:06 AM	155.4	27.3
6/7/2019	11:34:07 AM	155.1	27.0
6/7/2019	11:34:08 AM	154.9	26.8
6/7/2019	11:34:09 AM	154.7	26.6
6/7/2019	11:34:10 AM	154.5	26.4
6/7/2019	11:34:11 AM	154.2	26.1
6/7/2019	11:34:12 AM	154.0	25.9
6/7/2019	11:34:13 AM	153.8	25.7
6/7/2019	11:34:14 AM	153.6	25.5
6/7/2019	11:34:15 AM	153.4	25.3
6/7/2019	11:34:16 AM	153.3	25.2
6/7/2019	11:34:17 AM	153.1	25.0
6/7/2019	11:34:18 AM	152.9	24.8
6/7/2019	11:34:19 AM	152.8	24.7
6/7/2019	11:34:20 AM	152.6	24.5
6/7/2019	11:34:21 AM	152.4	24.3
6/7/2019	11:34:22 AM	152.2	24.1
6/7/2019	11:34:23 AM	152.1	24.0

APPENDIX E25: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:34:24 AM	152.0	23.9
6/7/2019	11:34:25 AM	151.8	23.7
6/7/2019	11:34:26 AM	151.7	23.6
6/7/2019	11:34:27 AM	151.6	23.5
6/7/2019	11:34:28 AM	151.5	23.4
6/7/2019	11:34:29 AM	151.3	23.2
6/7/2019	11:34:30 AM	151.2	23.1
6/7/2019	11:34:31 AM	151.1	23.0
6/7/2019	11:34:32 AM	151.0	22.9
6/7/2019	11:34:33 AM	150.9	22.8
6/7/2019	11:34:34 AM	150.8	22.7
6/7/2019	11:34:35 AM	150.7	22.6
6/7/2019	11:34:36 AM	150.6	22.5
6/7/2019	11:34:37 AM	150.5	22.4
6/7/2019	11:34:38 AM	150.4	22.3
6/7/2019	11:34:39 AM	150.4	22.3
6/7/2019	11:34:40 AM	150.3	22.2
6/7/2019	11:34:41 AM	150.2	22.1
6/7/2019	11:34:42 AM	150.1	22.0
6/7/2019	11:34:43 AM	150.0	21.9
6/7/2019	11:34:44 AM	149.9	21.8
6/7/2019	11:34:45 AM	149.9	21.8
6/7/2019	11:34:46 AM	149.8	21.7
6/7/2019	11:34:47 AM	149.7	21.6
6/7/2019	11:34:48 AM	149.6	21.5
6/7/2019	11:34:49 AM	149.5	21.4
6/7/2019	11:34:50 AM	149.4	21.3
6/7/2019	11:34:51 AM	149.4	21.3
6/7/2019	11:34:52 AM	149.3	21.2
6/7/2019	11:34:53 AM	149.2	21.1
6/7/2019	11:34:54 AM	149.2	21.1
6/7/2019	11:34:55 AM	149.1	21.0
6/7/2019	11:34:56 AM	149.0	20.9
6/7/2019	11:34:57 AM	149.0	20.9
6/7/2019	11:34:58 AM	148.9	20.8
6/7/2019	11:34:59 AM	148.8	20.7
6/7/2019	11:35:00 AM	148.8	20.7
6/7/2019	11:35:01 AM	148.7	20.6
6/7/2019	11:35:02 AM	148.6	20.5
6/7/2019	11:35:03 AM	148.5	20.4
6/7/2019	11:35:04 AM	148.5	20.4
6/7/2019	11:35:05 AM	148.4	20.3
6/7/2019	11:35:06 AM	148.4	20.3
6/7/2019	11:35:07 AM	148.3	20.2
6/7/2019	11:35:08 AM	148.2	20.1
6/7/2019	11:35:09 AM	148.2	20.1
6/7/2019	11:35:10 AM	148.1	20.0
6/7/2019	11:35:11 AM	148.0	19.9
6/7/2019	11:35:12 AM	147.9	19.8
6/7/2019	11:35:13 AM	147.9	19.8
6/7/2019	11:35:14 AM	147.8	19.7
6/7/2019	11:35:15 AM	147.7	19.6
6/7/2019	11:35:16 AM	147.6	19.5
6/7/2019	11:35:17 AM	147.6	19.5
6/7/2019	11:35:18 AM	147.5	19.4
6/7/2019	11:35:19 AM	147.4	19.3
6/7/2019	11:35:20 AM	147.3	19.2
6/7/2019	11:35:21 AM	147.3	19.2
6/7/2019	11:35:22 AM	147.2	19.1
6/7/2019	11:35:23 AM	147.2	19.1
6/7/2019	11:35:24 AM	147.1	19.0
6/7/2019	11:35:25 AM	147.1	19.0
6/7/2019	11:35:26 AM	147.0	18.9
6/7/2019	11:35:27 AM	147.0	18.9
6/7/2019	11:35:28 AM	146.9	18.8
6/7/2019	11:35:29 AM	146.8	18.7
6/7/2019	11:35:30 AM	146.8	18.7
6/7/2019	11:35:31 AM	146.7	18.6
6/7/2019	11:35:32 AM	146.6	18.5
6/7/2019	11:35:33 AM	146.6	18.5
6/7/2019	11:35:34 AM	146.5	18.4
6/7/2019	11:35:35 AM	146.4	18.3
6/7/2019	11:35:36 AM	146.4	18.3
6/7/2019	11:35:37 AM	146.3	18.2
6/7/2019	11:35:38 AM	146.2	18.1
6/7/2019	11:35:39 AM	146.2	18.1
6/7/2019	11:35:40 AM	146.2	18.1
6/7/2019	11:35:41 AM	146.1	18.0
6/7/2019	11:35:42 AM	146.1	18.0

APPENDIX E25: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:35:43 AM	146.0	17.9
6/7/2019	11:35:44 AM	145.9	17.8
6/7/2019	11:35:45 AM	145.9	17.8
6/7/2019	11:35:46 AM	145.8	17.7
6/7/2019	11:35:47 AM	145.7	17.6
6/7/2019	11:35:48 AM	145.7	17.6
6/7/2019	11:35:49 AM	145.7	17.6
6/7/2019	11:35:50 AM	145.6	17.5
6/7/2019	11:35:51 AM	145.5	17.4
6/7/2019	11:35:52 AM	145.4	17.3
6/7/2019	11:35:53 AM	145.4	17.3
6/7/2019	11:35:54 AM	145.3	17.2
6/7/2019	11:35:55 AM	145.3	17.2
6/7/2019	11:35:56 AM	145.2	17.1
6/7/2019	11:35:57 AM	145.1	17.0
6/7/2019	11:35:58 AM	145.1	17.0
6/7/2019	11:35:59 AM	145.0	16.9
6/7/2019	11:36:00 AM	145.0	16.9
6/7/2019	11:36:01 AM	145.0	16.9
6/7/2019	11:36:02 AM	144.9	16.8
6/7/2019	11:36:03 AM	144.8	16.7
6/7/2019	11:36:04 AM	144.8	16.7
6/7/2019	11:36:05 AM	144.7	16.6
6/7/2019	11:36:06 AM	144.6	16.5
6/7/2019	11:36:07 AM	144.6	16.5
6/7/2019	11:36:08 AM	144.5	16.4
6/7/2019	11:36:09 AM	144.5	16.4
6/7/2019	11:36:10 AM	144.4	16.3
6/7/2019	11:36:11 AM	144.3	16.2
6/7/2019	11:36:12 AM	144.3	16.2
6/7/2019	11:36:13 AM	144.2	16.1
6/7/2019	11:36:14 AM	144.1	16.0
6/7/2019	11:36:15 AM	144.0	15.9
6/7/2019	11:36:16 AM	144.0	15.9
6/7/2019	11:36:17 AM	143.9	15.8
6/7/2019	11:36:18 AM	143.8	15.7
6/7/2019	11:36:19 AM	143.8	15.7
6/7/2019	11:36:20 AM	143.7	15.6
6/7/2019	11:36:21 AM	143.6	15.5
6/7/2019	11:36:22 AM	143.6	15.5
6/7/2019	11:36:23 AM	143.5	15.4
6/7/2019	11:36:24 AM	143.5	15.4
6/7/2019	11:36:25 AM	143.4	15.3
6/7/2019	11:36:26 AM	143.4	15.3
6/7/2019	11:36:27 AM	143.3	15.2
6/7/2019	11:36:28 AM	143.3	15.2
6/7/2019	11:36:29 AM	143.3	15.2
6/7/2019	11:36:30 AM	143.2	15.1
6/7/2019	11:36:31 AM	143.2	15.1
6/7/2019	11:36:32 AM	143.2	15.1
6/7/2019	11:36:33 AM	143.1	15.0
6/7/2019	11:36:34 AM	143.1	15.0
6/7/2019	11:36:35 AM	143.1	15.0
6/7/2019	11:36:36 AM	143.0	14.9
6/7/2019	11:36:37 AM	143.0	14.9
6/7/2019	11:36:38 AM	142.9	14.8
6/7/2019	11:36:39 AM	142.9	14.8
6/7/2019	11:36:40 AM	142.8	14.7
6/7/2019	11:36:41 AM	142.8	14.7
6/7/2019	11:36:42 AM	142.7	14.6
6/7/2019	11:36:43 AM	142.7	14.6
6/7/2019	11:36:44 AM	142.6	14.5
6/7/2019	11:36:45 AM	142.5	14.4
6/7/2019	11:36:46 AM	142.4	14.3
6/7/2019	11:36:47 AM	142.2	14.1
6/7/2019	11:36:48 AM	142.1	14.0
6/7/2019	11:36:49 AM	142.0	13.9
6/7/2019	11:36:50 AM	141.9	13.8
6/7/2019	11:36:51 AM	141.7	13.6
6/7/2019	11:36:52 AM	141.6	13.5
6/7/2019	11:36:53 AM	141.4	13.3
6/7/2019	11:36:54 AM	141.3	13.2
6/7/2019	11:36:55 AM	141.1	13.0
6/7/2019	11:36:56 AM	141.0	12.9
6/7/2019	11:36:57 AM	140.9	12.8
6/7/2019	11:36:58 AM	140.8	12.7
6/7/2019	11:36:59 AM	140.7	12.6
6/7/2019	11:37:00 AM	140.6	12.5
6/7/2019	11:37:01 AM	140.5	12.4

APPENDIX E25: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:37:02 AM	140.4	12.3
6/7/2019	11:37:03 AM	140.3	12.2
6/7/2019	11:37:04 AM	140.2	12.1
6/7/2019	11:37:05 AM	140.2	12.1
6/7/2019	11:37:06 AM	140.1	12.0
6/7/2019	11:37:07 AM	140.0	11.9
6/7/2019	11:37:08 AM	139.9	11.8
6/7/2019	11:37:09 AM	139.9	11.8
6/7/2019	11:37:10 AM	139.8	11.7
6/7/2019	11:37:11 AM	139.8	11.7
6/7/2019	11:37:12 AM	139.7	11.6
6/7/2019	11:37:13 AM	139.6	11.5
6/7/2019	11:37:14 AM	139.6	11.5
6/7/2019	11:37:15 AM	139.5	11.4
6/7/2019	11:37:16 AM	139.4	11.3
6/7/2019	11:37:17 AM	139.4	11.3
6/7/2019	11:37:18 AM	139.3	11.2
6/7/2019	11:37:19 AM	139.2	11.1
6/7/2019	11:37:20 AM	139.1	11.0
6/7/2019	11:37:21 AM	139.1	11.0
6/7/2019	11:37:22 AM	139.0	10.9
6/7/2019	11:37:23 AM	138.9	10.8
6/7/2019	11:37:24 AM	138.8	10.7
6/7/2019	11:37:25 AM	138.7	10.6
6/7/2019	11:37:26 AM	138.6	10.5
6/7/2019	11:37:27 AM	138.6	10.5
6/7/2019	11:37:28 AM	138.5	10.4
6/7/2019	11:37:29 AM	138.4	10.3
6/7/2019	11:37:30 AM	138.3	10.2
6/7/2019	11:37:31 AM	138.2	10.1
6/7/2019	11:37:32 AM	138.1	10.0
6/7/2019	11:37:33 AM	138.0	9.9
6/7/2019	11:37:34 AM	137.9	9.8
6/7/2019	11:37:35 AM	137.8	9.7
6/7/2019	11:37:36 AM	137.7	9.6
6/7/2019	11:37:37 AM	137.6	9.5
6/7/2019	11:37:38 AM	137.5	9.4
6/7/2019	11:37:39 AM	137.4	9.3
6/7/2019	11:37:40 AM	137.3	9.2
6/7/2019	11:37:41 AM	137.2	9.1
6/7/2019	11:37:42 AM	137.2	9.1
6/7/2019	11:37:43 AM	137.0	8.9
6/7/2019	11:37:44 AM	136.9	8.8
6/7/2019	11:37:45 AM	136.8	8.7
6/7/2019	11:37:46 AM	136.7	8.6
6/7/2019	11:37:47 AM	136.5	8.4
6/7/2019	11:37:48 AM	136.3	8.2
6/7/2019	11:37:49 AM	136.2	8.1
6/7/2019	11:37:50 AM	136.0	7.9
6/7/2019	11:37:51 AM	135.9	7.8
6/7/2019	11:37:52 AM	135.7	7.6
6/7/2019	11:37:53 AM	135.6	7.5
6/7/2019	11:37:54 AM	135.4	7.3
6/7/2019	11:37:55 AM	135.3	7.2
6/7/2019	11:37:56 AM	135.1	7.0
6/7/2019	11:37:57 AM	135.0	6.9
6/7/2019	11:37:58 AM	134.9	6.8
6/7/2019	11:37:59 AM	134.8	6.7
6/7/2019	11:38:00 AM	134.7	6.6
6/7/2019	11:38:01 AM	134.7	6.6
6/7/2019	11:38:02 AM	134.6	6.5
6/7/2019	11:38:03 AM	134.5	6.4
6/7/2019	11:38:04 AM	134.5	6.4
6/7/2019	11:38:05 AM	134.4	6.3
6/7/2019	11:38:06 AM	134.4	6.3
6/7/2019	11:38:07 AM	134.3	6.2
6/7/2019	11:38:08 AM	134.3	6.2
6/7/2019	11:38:09 AM	134.2	6.1
6/7/2019	11:38:10 AM	134.2	6.1
6/7/2019	11:38:11 AM	134.1	6.0
6/7/2019	11:38:12 AM	134.1	6.0
6/7/2019	11:38:13 AM	134.0	5.9
6/7/2019	11:38:14 AM	134.0	5.9
6/7/2019	11:38:15 AM	133.9	5.8
6/7/2019	11:38:16 AM	133.9	5.8
6/7/2019	11:38:17 AM	133.9	5.8
6/7/2019	11:38:18 AM	133.8	5.7
6/7/2019	11:38:19 AM	133.8	5.7
6/7/2019	11:38:20 AM	133.8	5.7

APPENDIX E25: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:38:21 AM	133.8	5.7
6/7/2019	11:38:22 AM	133.8	5.7
6/7/2019	11:38:23 AM	133.8	5.7
6/7/2019	11:38:24 AM	133.8	5.7
6/7/2019	11:38:25 AM	133.8	5.7
6/7/2019	11:38:26 AM	133.8	5.7
6/7/2019	11:38:27 AM	133.8	5.7
6/7/2019	11:38:28 AM	133.7	5.6
6/7/2019	11:38:29 AM	133.7	5.6
6/7/2019	11:38:30 AM	133.7	5.6
6/7/2019	11:38:31 AM	133.7	5.6
6/7/2019	11:38:32 AM	133.7	5.6
6/7/2019	11:38:33 AM	133.7	5.6
6/7/2019	11:38:34 AM	133.7	5.6
6/7/2019	11:38:35 AM	133.7	5.6
6/7/2019	11:38:36 AM	133.7	5.6
6/7/2019	11:38:37 AM	133.7	5.6
6/7/2019	11:38:38 AM	133.7	5.6
6/7/2019	11:38:39 AM	133.7	5.6
6/7/2019	11:38:40 AM	133.7	5.6
6/7/2019	11:38:41 AM	133.7	5.6
6/7/2019	11:38:42 AM	133.7	5.6
6/7/2019	11:38:43 AM	133.7	5.6
6/7/2019	11:38:44 AM	133.7	5.6
6/7/2019	11:38:45 AM	133.8	5.7
6/7/2019	11:38:46 AM	133.8	5.7
6/7/2019	11:38:47 AM	133.8	5.7
6/7/2019	11:38:48 AM	133.9	5.8
6/7/2019	11:38:49 AM	133.9	5.8
6/7/2019	11:38:50 AM	134.0	5.9
6/7/2019	11:38:51 AM	134.0	5.9
6/7/2019	11:38:52 AM	134.1	6.0
6/7/2019	11:38:53 AM	134.1	6.0
6/7/2019	11:38:54 AM	134.2	6.1
6/7/2019	11:38:55 AM	134.2	6.1
6/7/2019	11:38:56 AM	134.3	6.2
6/7/2019	11:38:57 AM	134.3	6.2
6/7/2019	11:38:58 AM	134.3	6.2
6/7/2019	11:38:59 AM	134.3	6.2
6/7/2019	11:39:00 AM	134.4	6.3
6/7/2019	11:39:01 AM	134.4	6.3
6/7/2019	11:39:02 AM	134.4	6.3
6/7/2019	11:39:03 AM	134.4	6.3
6/7/2019	11:39:04 AM	134.5	6.4

APPENDIX E25: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-3	1054	131.6	21.1
SEEP-A1 TEST-3	1055	131.0	21.1
SEEP-A1 TEST-3	1100	128.9	21.1
SEEP-A1 TEST-3	1102	129.6	21.12
SEEP-A1 TEST-3	NR	130.6	21.2
Average		130.3	(µS/cms)
Geo Mean		130.3	(µS/cms)
Average (pre-test)		128.1	(µS/cms)
Average (post-test)		134.3	(µS/cms)

Table E3 SEEP-A1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-3	100	245	NR
SEEP-A1 TEST-3	1,000	2,160	NR
SEEP-A1 TEST-3	10000	18,420	NR
SEEP-A1 TEST-3	100,000	135,005	NR

Table E4 SEEP-A1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,400	mg
Slope of Calibration Curve	K	1.3550	µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	55,097.9	(s) . (µS/cms)
Calculated Flow Rate	Q	7.4	L/s
		117.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E26: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:47:41 AM	132.7	-
6/7/2019	11:47:42 AM	132.7	-
6/7/2019	11:47:43 AM	132.6	-
6/7/2019	11:47:44 AM	132.6	-
6/7/2019	11:47:45 AM	132.6	-
6/7/2019	11:47:46 AM	132.6	-
6/7/2019	11:47:47 AM	132.6	-
6/7/2019	11:47:48 AM	132.6	-
6/7/2019	11:47:49 AM	132.6	-
6/7/2019	11:47:50 AM	132.6	-
6/7/2019	11:47:51 AM	132.6	-
6/7/2019	11:47:52 AM	132.6	-
6/7/2019	11:47:53 AM	132.6	-
6/7/2019	11:47:54 AM	132.6	-
6/7/2019	11:47:55 AM	132.6	-
6/7/2019	11:47:56 AM	132.6	-
6/7/2019	11:47:57 AM	132.6	-
6/7/2019	11:47:58 AM	132.6	-
6/7/2019	11:47:59 AM	132.6	-
6/7/2019	11:48:00 AM	132.6	-
6/7/2019	11:48:01 AM	132.6	-
6/7/2019	11:48:02 AM	132.6	-
6/7/2019	11:48:03 AM	132.6	-
6/7/2019	11:48:04 AM	132.6	-
6/7/2019	11:48:05 AM	132.5	-
6/7/2019	11:48:06 AM	132.5	-
6/7/2019	11:48:07 AM	132.5	-
6/7/2019	11:48:08 AM	132.5	-
6/7/2019	11:48:09 AM	132.9	-
6/7/2019	11:48:10 AM	218.9	86.3
6/7/2019	11:48:11 AM	547.0	414.4
6/7/2019	11:48:12 AM	1278.6	1146.0
6/7/2019	11:48:13 AM	2568.8	2436.2
6/7/2019	11:48:14 AM	3508.5	3375.9
6/7/2019	11:48:15 AM	4540.3	4407.7
6/7/2019	11:48:16 AM	5006.9	4874.3
6/7/2019	11:48:17 AM	4968.0	4835.4
6/7/2019	11:48:18 AM	5012.3	4879.7
6/7/2019	11:48:19 AM	4843.0	4710.4
6/7/2019	11:48:20 AM	4135.0	4002.4
6/7/2019	11:48:21 AM	3140.0	3007.4
6/7/2019	11:48:22 AM	2716.9	2584.3
6/7/2019	11:48:23 AM	2372.2	2239.6
6/7/2019	11:48:24 AM	2034.6	1902.0
6/7/2019	11:48:25 AM	1806.0	1673.4
6/7/2019	11:48:26 AM	1644.4	1511.8
6/7/2019	11:48:27 AM	1464.8	1332.2
6/7/2019	11:48:28 AM	1232.4	1099.8
6/7/2019	11:48:29 AM	997.7	865.1
6/7/2019	11:48:30 AM	904.8	772.2
6/7/2019	11:48:31 AM	843.6	711.0
6/7/2019	11:48:32 AM	765.3	632.7
6/7/2019	11:48:33 AM	667.2	534.6
6/7/2019	11:48:34 AM	628.0	495.4
6/7/2019	11:48:35 AM	621.2	488.6
6/7/2019	11:48:36 AM	510.7	378.1
6/7/2019	11:48:37 AM	496.9	364.3
6/7/2019	11:48:38 AM	441.0	308.4
6/7/2019	11:48:39 AM	420.6	288.0
6/7/2019	11:48:40 AM	403.1	270.5
6/7/2019	11:48:41 AM	387.1	254.5
6/7/2019	11:48:42 AM	374.5	241.9
6/7/2019	11:48:43 AM	321.2	188.6
6/7/2019	11:48:44 AM	303.7	171.1
6/7/2019	11:48:45 AM	293.2	160.6
6/7/2019	11:48:46 AM	290.2	157.6
6/7/2019	11:48:47 AM	282.4	149.8
6/7/2019	11:48:48 AM	272.4	139.8
6/7/2019	11:48:49 AM	264.2	131.6
6/7/2019	11:48:50 AM	258.2	125.6

APPENDIX E26: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:48:51 AM	252.2	119.6
6/7/2019	11:48:52 AM	247.5	114.9
6/7/2019	11:48:53 AM	242.4	109.8
6/7/2019	11:48:54 AM	238.5	105.9
6/7/2019	11:48:55 AM	234.2	101.6
6/7/2019	11:48:56 AM	230.7	98.1
6/7/2019	11:48:57 AM	227.0	94.4
6/7/2019	11:48:58 AM	224.2	91.6
6/7/2019	11:48:59 AM	221.1	88.5
6/7/2019	11:49:00 AM	214.4	81.8
6/7/2019	11:49:01 AM	207.9	75.3
6/7/2019	11:49:02 AM	202.9	70.3
6/7/2019	11:49:03 AM	197.9	65.3
6/7/2019	11:49:04 AM	193.4	60.8
6/7/2019	11:49:05 AM	189.9	57.3
6/7/2019	11:49:06 AM	186.5	53.9
6/7/2019	11:49:07 AM	183.7	51.1
6/7/2019	11:49:08 AM	181.0	48.4
6/7/2019	11:49:09 AM	178.9	46.3
6/7/2019	11:49:10 AM	176.6	44.0
6/7/2019	11:49:11 AM	174.9	42.3
6/7/2019	11:49:12 AM	173.0	40.4
6/7/2019	11:49:13 AM	171.5	38.9
6/7/2019	11:49:14 AM	169.9	37.3
6/7/2019	11:49:15 AM	168.5	35.9
6/7/2019	11:49:16 AM	167.1	34.5
6/7/2019	11:49:17 AM	166.0	33.4
6/7/2019	11:49:18 AM	164.8	32.2
6/7/2019	11:49:19 AM	163.8	31.2
6/7/2019	11:49:20 AM	162.8	30.2
6/7/2019	11:49:21 AM	161.9	29.3
6/7/2019	11:49:22 AM	161.1	28.5
6/7/2019	11:49:23 AM	160.4	27.8
6/7/2019	11:49:24 AM	159.6	27.0
6/7/2019	11:49:25 AM	158.9	26.3
6/7/2019	11:49:26 AM	158.3	25.7
6/7/2019	11:49:27 AM	157.6	25.0
6/7/2019	11:49:28 AM	157.2	24.6
6/7/2019	11:49:29 AM	156.6	24.0
6/7/2019	11:49:30 AM	156.2	23.6
6/7/2019	11:49:31 AM	155.8	23.2
6/7/2019	11:49:32 AM	155.5	22.9
6/7/2019	11:49:33 AM	155.2	22.6
6/7/2019	11:49:34 AM	154.9	22.3
6/7/2019	11:49:35 AM	154.5	21.9
6/7/2019	11:49:36 AM	154.2	21.6
6/7/2019	11:49:37 AM	153.9	21.3
6/7/2019	11:49:38 AM	153.6	21.0
6/7/2019	11:49:39 AM	153.3	20.7
6/7/2019	11:49:40 AM	153.1	20.5
6/7/2019	11:49:41 AM	152.8	20.2
6/7/2019	11:49:42 AM	152.5	19.9
6/7/2019	11:49:43 AM	152.2	19.6
6/7/2019	11:49:44 AM	151.9	19.3
6/7/2019	11:49:45 AM	151.6	19.0
6/7/2019	11:49:46 AM	151.3	18.7
6/7/2019	11:49:47 AM	151.0	18.4
6/7/2019	11:49:48 AM	150.7	18.1
6/7/2019	11:49:49 AM	150.5	17.9
6/7/2019	11:49:50 AM	150.1	17.5
6/7/2019	11:49:51 AM	149.8	17.2
6/7/2019	11:49:52 AM	149.5	16.9
6/7/2019	11:49:53 AM	149.1	16.5
6/7/2019	11:49:54 AM	148.8	16.2
6/7/2019	11:49:55 AM	148.5	15.9
6/7/2019	11:49:56 AM	148.1	15.5
6/7/2019	11:49:57 AM	147.8	15.2
6/7/2019	11:49:58 AM	147.5	14.9
6/7/2019	11:49:59 AM	147.2	14.6
6/7/2019	11:50:00 AM	146.9	14.3
6/7/2019	11:50:01 AM	146.6	14.0
6/7/2019	11:50:02 AM	146.3	13.7
6/7/2019	11:50:03 AM	146.1	13.5
6/7/2019	11:50:04 AM	145.9	13.3
6/7/2019	11:50:05 AM	145.7	13.1
6/7/2019	11:50:06 AM	145.5	12.9
6/7/2019	11:50:07 AM	145.3	12.7

APPENDIX E26: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:50:08 AM	145.2	12.6
6/7/2019	11:50:09 AM	145.0	12.4
6/7/2019	11:50:10 AM	144.9	12.3
6/7/2019	11:50:11 AM	144.7	12.1
6/7/2019	11:50:12 AM	144.5	11.9
6/7/2019	11:50:13 AM	144.4	11.8
6/7/2019	11:50:14 AM	144.2	11.6
6/7/2019	11:50:15 AM	144.1	11.5
6/7/2019	11:50:16 AM	144.0	11.4
6/7/2019	11:50:17 AM	143.8	11.2
6/7/2019	11:50:18 AM	143.7	11.1
6/7/2019	11:50:19 AM	143.5	10.9
6/7/2019	11:50:20 AM	143.4	10.8
6/7/2019	11:50:21 AM	143.3	10.7
6/7/2019	11:50:22 AM	143.2	10.6
6/7/2019	11:50:23 AM	143.1	10.5
6/7/2019	11:50:24 AM	143.0	10.4
6/7/2019	11:50:25 AM	142.9	10.3
6/7/2019	11:50:26 AM	142.8	10.2
6/7/2019	11:50:27 AM	142.7	10.1
6/7/2019	11:50:28 AM	142.6	10.0
6/7/2019	11:50:29 AM	142.5	9.9
6/7/2019	11:50:30 AM	142.4	9.8
6/7/2019	11:50:31 AM	142.3	9.7
6/7/2019	11:50:32 AM	142.3	9.7
6/7/2019	11:50:33 AM	142.2	9.6
6/7/2019	11:50:34 AM	142.1	9.5
6/7/2019	11:50:35 AM	142.1	9.5
6/7/2019	11:50:36 AM	142.0	9.4
6/7/2019	11:50:37 AM	141.9	9.3
6/7/2019	11:50:38 AM	141.8	9.2
6/7/2019	11:50:39 AM	141.8	9.2
6/7/2019	11:50:40 AM	141.7	9.1
6/7/2019	11:50:41 AM	141.6	9.0
6/7/2019	11:50:42 AM	141.6	9.0
6/7/2019	11:50:43 AM	141.5	8.9
6/7/2019	11:50:44 AM	141.4	8.8
6/7/2019	11:50:45 AM	141.4	8.8
6/7/2019	11:50:46 AM	141.3	8.7
6/7/2019	11:50:47 AM	141.3	8.7
6/7/2019	11:50:48 AM	141.2	8.6
6/7/2019	11:50:49 AM	141.1	8.5
6/7/2019	11:50:50 AM	141.1	8.5
6/7/2019	11:50:51 AM	141.0	8.4
6/7/2019	11:50:52 AM	141.0	8.4
6/7/2019	11:50:53 AM	140.9	8.3
6/7/2019	11:50:54 AM	140.8	8.2
6/7/2019	11:50:55 AM	140.7	8.1
6/7/2019	11:50:56 AM	140.7	8.1
6/7/2019	11:50:57 AM	140.6	8.0
6/7/2019	11:50:58 AM	140.5	7.9
6/7/2019	11:50:59 AM	140.4	7.8
6/7/2019	11:51:00 AM	140.4	7.8
6/7/2019	11:51:01 AM	140.3	7.7
6/7/2019	11:51:02 AM	140.2	7.6
6/7/2019	11:51:03 AM	140.1	7.5
6/7/2019	11:51:04 AM	140.1	7.5
6/7/2019	11:51:05 AM	140.0	7.4
6/7/2019	11:51:06 AM	139.9	7.3
6/7/2019	11:51:07 AM	139.8	7.2
6/7/2019	11:51:08 AM	139.8	7.2
6/7/2019	11:51:09 AM	139.7	7.1
6/7/2019	11:51:10 AM	139.7	7.1
6/7/2019	11:51:11 AM	139.6	7.0
6/7/2019	11:51:12 AM	139.5	6.9
6/7/2019	11:51:13 AM	139.5	6.9
6/7/2019	11:51:14 AM	139.5	6.9
6/7/2019	11:51:15 AM	139.4	6.8
6/7/2019	11:51:16 AM	139.4	6.8
6/7/2019	11:51:17 AM	139.3	6.7
6/7/2019	11:51:18 AM	139.3	6.7
6/7/2019	11:51:19 AM	139.3	6.7
6/7/2019	11:51:20 AM	139.3	6.7
6/7/2019	11:51:21 AM	139.2	6.6
6/7/2019	11:51:22 AM	139.2	6.6
6/7/2019	11:51:23 AM	139.2	6.6
6/7/2019	11:51:24 AM	139.2	6.6
6/7/2019	11:51:25 AM	139.2	6.6
6/7/2019	11:51:26 AM	139.2	6.6

APPENDIX E26: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	11:51:27 AM	139.1	6.5
6/7/2019	11:51:28 AM	139.1	6.5
6/7/2019	11:51:29 AM	139.1	6.5
6/7/2019	11:51:30 AM	139.1	6.5
6/7/2019	11:51:31 AM	139.1	6.5
6/7/2019	11:51:32 AM	139.1	6.5
6/7/2019	11:51:33 AM	139.1	6.5
6/7/2019	11:51:34 AM	139.1	6.5
6/7/2019	11:51:35 AM	139.0	6.4
6/7/2019	11:51:36 AM	139.0	6.4
6/7/2019	11:51:37 AM	139.0	6.4
6/7/2019	11:51:38 AM	139.0	6.4
6/7/2019	11:51:39 AM	139.0	6.4
6/7/2019	11:51:40 AM	139.0	6.4
6/7/2019	11:51:41 AM	139.0	6.4
6/7/2019	11:51:42 AM	139.0	6.4
6/7/2019	11:51:43 AM	139.0	6.4
6/7/2019	11:51:44 AM	138.9	6.3
6/7/2019	11:51:45 AM	138.9	6.3
6/7/2019	11:51:46 AM	138.9	6.3
6/7/2019	11:51:47 AM	138.9	6.3
6/7/2019	11:51:48 AM	138.9	6.3
6/7/2019	11:51:49 AM	138.9	6.3
6/7/2019	11:51:50 AM	138.8	6.2
6/7/2019	11:51:51 AM	138.8	6.2
6/7/2019	11:51:52 AM	138.8	6.2
6/7/2019	11:51:53 AM	138.8	6.2
6/7/2019	11:51:54 AM	138.8	6.2
6/7/2019	11:51:55 AM	138.8	6.2
6/7/2019	11:51:56 AM	138.8	6.2
6/7/2019	11:51:57 AM	138.8	6.2
6/7/2019	11:51:58 AM	138.8	6.2
6/7/2019	11:51:59 AM	138.8	6.2
6/7/2019	11:52:00 AM	138.8	6.2
6/7/2019	11:52:01 AM	138.8	6.2
6/7/2019	11:52:02 AM	138.8	6.2
6/7/2019	11:52:03 AM	138.8	6.2
6/7/2019	11:52:04 AM	138.8	6.2
6/7/2019	11:52:05 AM	138.8	6.2
6/7/2019	11:52:06 AM	138.8	6.2
6/7/2019	11:52:07 AM	138.8	6.2
6/7/2019	11:52:08 AM	138.8	6.2
6/7/2019	11:52:09 AM	138.8	6.2
6/7/2019	11:52:10 AM	138.8	6.2
6/7/2019	11:52:11 AM	138.8	6.2
6/7/2019	11:52:12 AM	138.8	6.2
6/7/2019	11:52:13 AM	138.8	6.2
6/7/2019	11:52:14 AM	138.9	6.3
6/7/2019	11:52:15 AM	138.9	6.3
6/7/2019	11:52:16 AM	138.9	6.3
6/7/2019	11:52:17 AM	138.9	6.3
6/7/2019	11:52:18 AM	138.9	6.3
6/7/2019	11:52:19 AM	138.9	6.3
6/7/2019	11:52:20 AM	138.9	6.3
6/7/2019	11:52:21 AM	138.9	6.3
6/7/2019	11:52:22 AM	138.9	6.3
6/7/2019	11:52:23 AM	138.9	6.3
6/7/2019	11:52:24 AM	138.9	6.3
6/7/2019	11:52:25 AM	138.9	6.3
6/7/2019	11:52:26 AM	138.9	6.3
6/7/2019	11:52:27 AM	139.0	6.4
6/7/2019	11:52:28 AM	139.0	6.4
6/7/2019	11:52:29 AM	139.0	6.4
6/7/2019	11:52:30 AM	139.0	6.4
6/7/2019	11:52:31 AM	139.0	6.4
6/7/2019	11:52:32 AM	139.0	6.4
6/7/2019	11:52:33 AM	139.0	6.4
6/7/2019	11:52:34 AM	139.0	6.4
6/7/2019	11:52:35 AM	139.0	6.4
6/7/2019	11:52:36 AM	139.0	6.4
6/7/2019	11:52:37 AM	139.0	6.4
6/7/2019	11:52:38 AM	139.0	6.4

APPENDIX E26: SALT DILUTION GAUGING SUMMARY
SEEP-A1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A1 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A1 TEST-3	1054	131.6	21.1
SEEP-A1 TEST-3	1055	131	21.1
SEEP-A1 TEST-3	1100	128.9	21.1
SEEP-A1 TEST-3	1102	129.6	21.12
SEEP-A1 TEST-3	NR	130.6	21.2
Average		130.3	(µS/cms)
Geo Mean		130.3	(µS/cms)
Average (pre-test)		132.6	(µS/cms)
Average (post-test)		139.0	(µS/cms)

Table E3 SEEP-A1 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A1 TEST-3	100	245	NR
SEEP-A1 TEST-3	1,000	2,160	NR
SEEP-A1 TEST-3	10000	18,420	NR
SEEP-A1 TEST-3	100,000	135,005	NR

Table E4 SEEP-A1 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})_{*\Delta t}\}}{K}}$$

Mass of Salt injected	q	300,700	mg
Slope of Calibration Curve	K	1.3550	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(Ect-ECbkg)	62,355.3	(s) . (µS/cms)
Calculated Flow Rate	Q	6.5	L/s
		103.7	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E27: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:35:50 PM	202.9	-
5/23/2019	3:35:51 PM	202.9	-
5/23/2019	3:35:52 PM	202.9	-
5/23/2019	3:35:53 PM	202.9	-
5/23/2019	3:35:54 PM	202.9	-
5/23/2019	3:35:55 PM	202.9	-
5/23/2019	3:35:56 PM	203.0	-
5/23/2019	3:35:57 PM	203.0	-
5/23/2019	3:35:58 PM	203.0	-
5/23/2019	3:35:59 PM	203.1	-
5/23/2019	3:36:00 PM	203.1	-
5/23/2019	3:36:01 PM	203.2	-
5/23/2019	3:36:02 PM	203.3	-
5/23/2019	3:36:03 PM	203.3	-
5/23/2019	3:36:04 PM	203.3	-
5/23/2019	3:36:05 PM	203.3	-
5/23/2019	3:36:06 PM	203.3	-
5/23/2019	3:36:07 PM	203.3	-
5/23/2019	3:36:08 PM	203.4	-
5/23/2019	3:36:09 PM	203.4	-
5/23/2019	3:36:10 PM	203.5	-
5/23/2019	3:36:11 PM	203.6	-
5/23/2019	3:36:12 PM	203.6	-
5/23/2019	3:36:13 PM	203.7	-
5/23/2019	3:36:14 PM	203.8	-
5/23/2019	3:36:15 PM	203.8	-
5/23/2019	3:36:16 PM	203.8	-
5/23/2019	3:36:17 PM	204.0	-
5/23/2019	3:36:18 PM	204.0	-
5/23/2019	3:36:19 PM	204.1	-
5/23/2019	3:36:20 PM	204.2	-
5/23/2019	3:36:21 PM	204.3	-
5/23/2019	3:36:22 PM	204.3	-
5/23/2019	3:36:23 PM	204.4	-
5/23/2019	3:36:24 PM	204.6	-
5/23/2019	3:36:25 PM	204.7	-
5/23/2019	3:36:26 PM	205.0	-
5/23/2019	3:36:27 PM	205.6	-
5/23/2019	3:36:28 PM	206.6	-
5/23/2019	3:36:29 PM	257.1	53.4
5/23/2019	3:36:30 PM	299.7	96.0
5/23/2019	3:36:31 PM	354.5	150.8
5/23/2019	3:36:32 PM	405.1	201.4
5/23/2019	3:36:33 PM	420.3	216.6
5/23/2019	3:36:34 PM	710.7	507.0
5/23/2019	3:36:35 PM	687.9	484.2
5/23/2019	3:36:36 PM	749.5	545.8
5/23/2019	3:36:37 PM	1272.7	1069.0
5/23/2019	3:36:38 PM	1262.2	1058.5
5/23/2019	3:36:39 PM	1553.0	1349.3
5/23/2019	3:36:40 PM	1678.8	1475.1
5/23/2019	3:36:41 PM	1935.2	1731.5
5/23/2019	3:36:42 PM	2082.8	1879.1
5/23/2019	3:36:43 PM	2493.8	2290.1
5/23/2019	3:36:44 PM	2553.1	2349.4
5/23/2019	3:36:45 PM	2638.7	2435.0
5/23/2019	3:36:46 PM	2685.5	2481.8
5/23/2019	3:36:47 PM	2753.3	2549.6
5/23/2019	3:36:48 PM	2813.2	2609.5
5/23/2019	3:36:49 PM	2848.8	2645.1
5/23/2019	3:36:50 PM	2874.4	2670.7
5/23/2019	3:36:51 PM	2895.7	2692.0
5/23/2019	3:36:52 PM	2909.8	2706.1
5/23/2019	3:36:53 PM	2922.1	2718.4
5/23/2019	3:36:54 PM	2927.0	2723.3
5/23/2019	3:36:55 PM	2925.5	2721.8
5/23/2019	3:36:56 PM	2920.4	2716.7
5/23/2019	3:36:57 PM	2908.9	2705.2
5/23/2019	3:36:58 PM	2707.0	2503.3
5/23/2019	3:36:59 PM	2638.6	2434.9

APPENDIX E27: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:37:00 PM	2589.8	2386.1
5/23/2019	3:37:01 PM	2548.6	2344.9
5/23/2019	3:37:02 PM	2530.0	2326.3
5/23/2019	3:37:03 PM	2481.0	2277.3
5/23/2019	3:37:04 PM	2306.8	2103.1
5/23/2019	3:37:05 PM	2248.7	2045.0
5/23/2019	3:37:06 PM	2154.8	1951.1
5/23/2019	3:37:07 PM	2140.6	1936.9
5/23/2019	3:37:08 PM	2100.7	1897.0
5/23/2019	3:37:09 PM	2065.7	1862.0
5/23/2019	3:37:10 PM	1917.2	1713.5
5/23/2019	3:37:11 PM	1856.2	1652.5
5/23/2019	3:37:12 PM	1763.9	1560.2
5/23/2019	3:37:13 PM	1693.6	1489.9
5/23/2019	3:37:14 PM	1654.3	1450.6
5/23/2019	3:37:15 PM	1605.0	1401.3
5/23/2019	3:37:16 PM	1489.3	1285.6
5/23/2019	3:37:17 PM	1466.7	1263.0
5/23/2019	3:37:18 PM	1403.5	1199.8
5/23/2019	3:37:19 PM	1376.2	1172.5
5/23/2019	3:37:20 PM	1333.3	1129.6
5/23/2019	3:37:21 PM	1309.9	1106.2
5/23/2019	3:37:22 PM	1294.2	1090.5
5/23/2019	3:37:23 PM	1207.6	1003.9
5/23/2019	3:37:24 PM	1201.3	997.6
5/23/2019	3:37:25 PM	1141.8	938.1
5/23/2019	3:37:26 PM	1089.0	885.3
5/23/2019	3:37:27 PM	1067.6	863.9
5/23/2019	3:37:28 PM	996.1	792.4
5/23/2019	3:37:29 PM	973.7	770.0
5/23/2019	3:37:30 PM	957.2	753.5
5/23/2019	3:37:31 PM	949.2	745.5
5/23/2019	3:37:32 PM	931.9	728.2
5/23/2019	3:37:33 PM	924.0	720.3
5/23/2019	3:37:34 PM	921.9	718.2
5/23/2019	3:37:35 PM	916.8	713.1
5/23/2019	3:37:36 PM	899.7	696.0
5/23/2019	3:37:37 PM	860.7	657.0
5/23/2019	3:37:38 PM	845.5	641.8
5/23/2019	3:37:39 PM	836.4	632.7
5/23/2019	3:37:40 PM	823.5	619.8
5/23/2019	3:37:41 PM	810.8	607.1
5/23/2019	3:37:42 PM	748.9	545.2
5/23/2019	3:37:43 PM	731.5	527.8
5/23/2019	3:37:44 PM	722.4	518.7
5/23/2019	3:37:45 PM	695.0	491.3
5/23/2019	3:37:46 PM	681.3	477.6
5/23/2019	3:37:47 PM	678.4	474.7
5/23/2019	3:37:48 PM	599.1	395.4
5/23/2019	3:37:49 PM	609.3	405.6
5/23/2019	3:37:50 PM	590.9	387.2
5/23/2019	3:37:51 PM	588.7	385.0
5/23/2019	3:37:52 PM	581.8	378.1
5/23/2019	3:37:53 PM	577.1	373.4
5/23/2019	3:37:54 PM	573.2	369.5
5/23/2019	3:37:55 PM	569.2	365.5
5/23/2019	3:37:56 PM	564.9	361.2
5/23/2019	3:37:57 PM	560.7	357.0
5/23/2019	3:37:58 PM	556.5	352.8
5/23/2019	3:37:59 PM	552.8	349.1
5/23/2019	3:38:00 PM	548.6	344.9
5/23/2019	3:38:01 PM	545.2	341.5
5/23/2019	3:38:02 PM	541.4	337.7
5/23/2019	3:38:03 PM	490.2	286.5
5/23/2019	3:38:04 PM	489.0	285.3
5/23/2019	3:38:05 PM	476.2	272.5
5/23/2019	3:38:06 PM	473.7	270.0
5/23/2019	3:38:07 PM	467.1	263.4
5/23/2019	3:38:08 PM	461.4	257.7
5/23/2019	3:38:09 PM	457.0	253.3
5/23/2019	3:38:10 PM	453.0	249.3
5/23/2019	3:38:11 PM	449.4	245.7
5/23/2019	3:38:12 PM	446.7	243.0
5/23/2019	3:38:13 PM	444.3	240.6
5/23/2019	3:38:14 PM	442.0	238.3
5/23/2019	3:38:15 PM	439.4	235.7
5/23/2019	3:38:16 PM	437.3	233.6

APPENDIX E27: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:38:17 PM	434.9	231.2
5/23/2019	3:38:18 PM	433.1	229.4
5/23/2019	3:38:19 PM	429.1	225.4
5/23/2019	3:38:20 PM	424.9	221.2
5/23/2019	3:38:21 PM	420.8	217.1
5/23/2019	3:38:22 PM	417.2	213.5
5/23/2019	3:38:23 PM	413.6	209.9
5/23/2019	3:38:24 PM	410.5	206.8
5/23/2019	3:38:25 PM	408.1	204.4
5/23/2019	3:38:26 PM	403.7	200.0
5/23/2019	3:38:27 PM	401.7	198.0
5/23/2019	3:38:28 PM	398.8	195.1
5/23/2019	3:38:29 PM	395.3	191.6
5/23/2019	3:38:30 PM	393.1	189.4
5/23/2019	3:38:31 PM	389.6	185.9
5/23/2019	3:38:32 PM	386.4	182.7
5/23/2019	3:38:33 PM	383.6	179.9
5/23/2019	3:38:34 PM	380.3	176.6
5/23/2019	3:38:35 PM	377.7	174.0
5/23/2019	3:38:36 PM	374.5	170.8
5/23/2019	3:38:37 PM	371.4	167.7
5/23/2019	3:38:38 PM	367.7	164.0
5/23/2019	3:38:39 PM	364.7	161.0
5/23/2019	3:38:40 PM	360.8	157.1
5/23/2019	3:38:41 PM	357.7	154.0
5/23/2019	3:38:42 PM	354.1	150.4
5/23/2019	3:38:43 PM	351.2	147.5
5/23/2019	3:38:44 PM	347.8	144.1
5/23/2019	3:38:45 PM	345.0	141.3
5/23/2019	3:38:46 PM	342.1	138.4
5/23/2019	3:38:47 PM	339.9	136.2
5/23/2019	3:38:48 PM	337.4	133.7
5/23/2019	3:38:49 PM	334.8	131.1
5/23/2019	3:38:50 PM	332.8	129.1
5/23/2019	3:38:51 PM	330.1	126.4
5/23/2019	3:38:52 PM	328.5	124.8
5/23/2019	3:38:53 PM	327.3	123.6
5/23/2019	3:38:54 PM	325.3	121.6
5/23/2019	3:38:55 PM	324.0	120.3
5/23/2019	3:38:56 PM	321.9	118.2
5/23/2019	3:38:57 PM	320.1	116.4
5/23/2019	3:38:58 PM	318.8	115.1
5/23/2019	3:38:59 PM	316.4	112.7
5/23/2019	3:39:00 PM	315.3	111.6
5/23/2019	3:39:01 PM	313.1	109.4
5/23/2019	3:39:02 PM	311.8	108.1
5/23/2019	3:39:03 PM	310.3	106.6
5/23/2019	3:39:04 PM	308.6	104.9
5/23/2019	3:39:05 PM	307.0	103.3
5/23/2019	3:39:06 PM	305.2	101.5
5/23/2019	3:39:07 PM	303.6	99.9
5/23/2019	3:39:08 PM	301.9	98.2
5/23/2019	3:39:09 PM	300.6	96.9
5/23/2019	3:39:10 PM	299.3	95.6
5/23/2019	3:39:11 PM	298.1	94.4
5/23/2019	3:39:12 PM	297.3	93.6
5/23/2019	3:39:13 PM	296.5	92.8
5/23/2019	3:39:14 PM	295.6	91.9
5/23/2019	3:39:15 PM	294.7	91.0
5/23/2019	3:39:16 PM	293.4	89.7
5/23/2019	3:39:17 PM	292.7	89.0
5/23/2019	3:39:18 PM	291.7	88.0
5/23/2019	3:39:19 PM	290.8	87.1
5/23/2019	3:39:20 PM	289.9	86.2
5/23/2019	3:39:21 PM	288.9	85.2
5/23/2019	3:39:22 PM	288.2	84.5
5/23/2019	3:39:23 PM	287.3	83.6
5/23/2019	3:39:24 PM	286.4	82.7
5/23/2019	3:39:25 PM	285.3	81.6
5/23/2019	3:39:26 PM	284.0	80.3
5/23/2019	3:39:27 PM	283.0	79.3
5/23/2019	3:39:28 PM	282.0	78.3
5/23/2019	3:39:29 PM	280.9	77.2
5/23/2019	3:39:30 PM	280.0	76.3
5/23/2019	3:39:31 PM	279.0	75.3
5/23/2019	3:39:32 PM	278.0	74.3
5/23/2019	3:39:33 PM	276.9	73.2
5/23/2019	3:39:34 PM	276.0	72.3
5/23/2019	3:39:35 PM	274.9	71.2

APPENDIX E27: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:39:36 PM	273.6	69.9
5/23/2019	3:39:37 PM	272.8	69.1
5/23/2019	3:39:38 PM	271.8	68.1
5/23/2019	3:39:39 PM	270.8	67.1
5/23/2019	3:39:40 PM	269.9	66.2
5/23/2019	3:39:41 PM	268.8	65.1
5/23/2019	3:39:42 PM	267.7	64.0
5/23/2019	3:39:43 PM	266.8	63.1
5/23/2019	3:39:44 PM	265.8	62.1
5/23/2019	3:39:45 PM	265.0	61.3
5/23/2019	3:39:46 PM	264.0	60.3
5/23/2019	3:39:47 PM	263.0	59.3
5/23/2019	3:39:48 PM	262.1	58.4
5/23/2019	3:39:49 PM	261.1	57.4
5/23/2019	3:39:50 PM	260.1	56.4
5/23/2019	3:39:51 PM	259.2	55.5
5/23/2019	3:39:52 PM	258.2	54.5
5/23/2019	3:39:53 PM	257.3	53.6
5/23/2019	3:39:54 PM	256.3	52.6
5/23/2019	3:39:55 PM	255.6	51.9
5/23/2019	3:39:56 PM	254.7	51.0
5/23/2019	3:39:57 PM	254.0	50.3
5/23/2019	3:39:58 PM	253.2	49.5
5/23/2019	3:39:59 PM	252.5	48.8
5/23/2019	3:40:00 PM	251.9	48.2
5/23/2019	3:40:01 PM	251.3	47.6
5/23/2019	3:40:02 PM	250.6	46.9
5/23/2019	3:40:03 PM	250.0	46.3
5/23/2019	3:40:04 PM	249.5	45.8
5/23/2019	3:40:05 PM	249.1	45.4
5/23/2019	3:40:06 PM	248.7	45.0
5/23/2019	3:40:07 PM	248.2	44.5
5/23/2019	3:40:08 PM	247.9	44.2
5/23/2019	3:40:09 PM	247.5	43.8
5/23/2019	3:40:10 PM	247.1	43.4
5/23/2019	3:40:11 PM	246.7	43.0
5/23/2019	3:40:12 PM	246.4	42.7
5/23/2019	3:40:13 PM	246.0	42.3
5/23/2019	3:40:14 PM	245.6	41.9
5/23/2019	3:40:15 PM	245.1	41.4
5/23/2019	3:40:16 PM	244.7	41.0
5/23/2019	3:40:17 PM	244.3	40.6
5/23/2019	3:40:18 PM	243.9	40.2
5/23/2019	3:40:19 PM	243.4	39.7
5/23/2019	3:40:20 PM	243.0	39.3
5/23/2019	3:40:21 PM	242.5	38.8
5/23/2019	3:40:22 PM	242.0	38.3
5/23/2019	3:40:23 PM	241.6	37.9
5/23/2019	3:40:24 PM	241.1	37.4
5/23/2019	3:40:25 PM	240.8	37.1
5/23/2019	3:40:26 PM	240.3	36.6
5/23/2019	3:40:27 PM	240.0	36.3
5/23/2019	3:40:28 PM	239.6	35.9
5/23/2019	3:40:29 PM	239.2	35.5
5/23/2019	3:40:30 PM	238.7	35.0
5/23/2019	3:40:31 PM	238.3	34.6
5/23/2019	3:40:32 PM	238.0	34.3
5/23/2019	3:40:33 PM	237.6	33.9
5/23/2019	3:40:34 PM	237.3	33.6
5/23/2019	3:40:35 PM	237.0	33.3
5/23/2019	3:40:36 PM	236.6	32.9
5/23/2019	3:40:37 PM	236.4	32.7
5/23/2019	3:40:38 PM	236.0	32.3
5/23/2019	3:40:39 PM	235.7	32.0
5/23/2019	3:40:40 PM	235.4	31.7
5/23/2019	3:40:41 PM	235.1	31.4
5/23/2019	3:40:42 PM	234.7	31.0
5/23/2019	3:40:43 PM	234.5	30.8
5/23/2019	3:40:44 PM	234.1	30.4
5/23/2019	3:40:45 PM	233.8	30.1
5/23/2019	3:40:46 PM	233.5	29.8
5/23/2019	3:40:47 PM	233.1	29.4
5/23/2019	3:40:48 PM	232.8	29.1
5/23/2019	3:40:49 PM	232.4	28.7
5/23/2019	3:40:50 PM	232.0	28.3
5/23/2019	3:40:51 PM	231.7	28.0
5/23/2019	3:40:52 PM	231.4	27.7
5/23/2019	3:40:53 PM	231.1	27.4
5/23/2019	3:40:54 PM	230.8	27.1

APPENDIX E27: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:40:55 PM	230.6	26.9
5/23/2019	3:40:56 PM	230.3	26.6
5/23/2019	3:40:57 PM	230.1	26.4
5/23/2019	3:40:58 PM	229.9	26.2
5/23/2019	3:40:59 PM	229.7	26.0
5/23/2019	3:41:00 PM	229.5	25.8
5/23/2019	3:41:01 PM	229.3	25.6
5/23/2019	3:41:02 PM	229.1	25.4
5/23/2019	3:41:03 PM	228.8	25.1
5/23/2019	3:41:04 PM	228.6	24.9
5/23/2019	3:41:05 PM	228.4	24.7
5/23/2019	3:41:06 PM	228.2	24.5
5/23/2019	3:41:07 PM	228.0	24.3
5/23/2019	3:41:08 PM	227.8	24.1
5/23/2019	3:41:09 PM	227.6	23.9
5/23/2019	3:41:10 PM	227.5	23.8
5/23/2019	3:41:11 PM	227.3	23.6
5/23/2019	3:41:12 PM	227.2	23.5
5/23/2019	3:41:13 PM	227.1	23.4
5/23/2019	3:41:14 PM	226.9	23.2
5/23/2019	3:41:15 PM	226.8	23.1
5/23/2019	3:41:16 PM	226.7	23.0
5/23/2019	3:41:17 PM	226.6	22.9
5/23/2019	3:41:18 PM	226.5	22.8
5/23/2019	3:41:19 PM	226.4	22.7
5/23/2019	3:41:20 PM	226.2	22.5
5/23/2019	3:41:21 PM	226.0	22.3
5/23/2019	3:41:22 PM	225.8	22.1
5/23/2019	3:41:23 PM	225.7	22.0
5/23/2019	3:41:24 PM	225.5	21.8
5/23/2019	3:41:25 PM	225.3	21.6
5/23/2019	3:41:26 PM	225.1	21.4
5/23/2019	3:41:27 PM	224.9	21.2
5/23/2019	3:41:28 PM	224.7	21.0
5/23/2019	3:41:29 PM	224.6	20.9
5/23/2019	3:41:30 PM	224.4	20.7
5/23/2019	3:41:31 PM	224.2	20.5
5/23/2019	3:41:32 PM	224.0	20.3
5/23/2019	3:41:33 PM	223.8	20.1
5/23/2019	3:41:34 PM	223.7	20.0
5/23/2019	3:41:35 PM	223.5	19.8
5/23/2019	3:41:36 PM	223.3	19.6
5/23/2019	3:41:37 PM	223.1	19.4
5/23/2019	3:41:38 PM	223.0	19.3
5/23/2019	3:41:39 PM	222.8	19.1
5/23/2019	3:41:40 PM	222.6	18.9
5/23/2019	3:41:41 PM	222.4	18.7
5/23/2019	3:41:42 PM	222.2	18.5
5/23/2019	3:41:43 PM	222.1	18.4
5/23/2019	3:41:44 PM	221.9	18.2
5/23/2019	3:41:45 PM	221.7	18.0
5/23/2019	3:41:46 PM	221.6	17.9
5/23/2019	3:41:47 PM	221.4	17.7
5/23/2019	3:41:48 PM	221.3	17.6
5/23/2019	3:41:49 PM	221.2	17.5
5/23/2019	3:41:50 PM	221.0	17.3
5/23/2019	3:41:51 PM	220.9	17.2
5/23/2019	3:41:52 PM	220.8	17.1
5/23/2019	3:41:53 PM	220.7	17.0
5/23/2019	3:41:54 PM	220.7	17.0
5/23/2019	3:41:55 PM	220.6	16.9
5/23/2019	3:41:56 PM	220.5	16.8
5/23/2019	3:41:57 PM	220.5	16.8
5/23/2019	3:41:58 PM	220.4	16.7
5/23/2019	3:41:59 PM	220.3	16.6
5/23/2019	3:42:00 PM	220.2	16.5
5/23/2019	3:42:01 PM	220.1	16.4
5/23/2019	3:42:02 PM	219.9	16.2
5/23/2019	3:42:03 PM	219.9	16.2
5/23/2019	3:42:04 PM	219.8	16.1
5/23/2019	3:42:05 PM	219.7	16.0
5/23/2019	3:42:06 PM	219.6	15.9
5/23/2019	3:42:07 PM	219.5	15.8
5/23/2019	3:42:08 PM	219.4	15.7
5/23/2019	3:42:09 PM	219.3	15.6
5/23/2019	3:42:10 PM	219.3	15.6
5/23/2019	3:42:11 PM	219.2	15.5
5/23/2019	3:42:12 PM	219.1	15.4
5/23/2019	3:42:13 PM	219.1	15.4

APPENDIX E27: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:42:14 PM	219.0	15.3
5/23/2019	3:42:15 PM	218.9	15.2
5/23/2019	3:42:16 PM	218.8	15.1
5/23/2019	3:42:17 PM	218.8	15.1
5/23/2019	3:42:18 PM	218.7	15.0
5/23/2019	3:42:19 PM	218.6	14.9
5/23/2019	3:42:20 PM	218.5	14.8
5/23/2019	3:42:21 PM	218.4	14.7
5/23/2019	3:42:22 PM	218.4	14.7
5/23/2019	3:42:23 PM	218.3	14.6
5/23/2019	3:42:24 PM	218.3	14.6
5/23/2019	3:42:25 PM	218.2	14.5
5/23/2019	3:42:26 PM	218.2	14.5
5/23/2019	3:42:27 PM	218.2	14.5
5/23/2019	3:42:28 PM	218.1	14.4
5/23/2019	3:42:29 PM	218.0	14.3
5/23/2019	3:42:30 PM	218.0	14.3
5/23/2019	3:42:31 PM	217.9	14.2
5/23/2019	3:42:32 PM	217.8	14.1
5/23/2019	3:42:33 PM	217.7	14.0
5/23/2019	3:42:34 PM	217.6	13.9
5/23/2019	3:42:35 PM	217.5	13.8
5/23/2019	3:42:36 PM	217.4	13.7
5/23/2019	3:42:37 PM	217.3	13.6
5/23/2019	3:42:38 PM	217.2	13.5
5/23/2019	3:42:39 PM	217.1	13.4
5/23/2019	3:42:40 PM	217.0	13.3
5/23/2019	3:42:41 PM	216.9	13.2
5/23/2019	3:42:42 PM	216.8	13.1
5/23/2019	3:42:43 PM	216.7	13.0
5/23/2019	3:42:44 PM	216.6	12.9
5/23/2019	3:42:45 PM	216.5	12.8
5/23/2019	3:42:46 PM	216.3	12.6
5/23/2019	3:42:47 PM	216.2	12.5
5/23/2019	3:42:48 PM	216.1	12.4
5/23/2019	3:42:49 PM	216.0	12.3
5/23/2019	3:42:50 PM	215.9	12.2
5/23/2019	3:42:51 PM	215.8	12.1
5/23/2019	3:42:52 PM	215.7	12.0
5/23/2019	3:42:53 PM	215.6	11.9
5/23/2019	3:42:54 PM	215.5	11.8
5/23/2019	3:42:55 PM	215.3	11.6
5/23/2019	3:42:56 PM	215.3	11.6

APPENDIX E27: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 MAY
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A3 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A3 TEST-1	1504	208.8	19.1
SEEP-A3 TEST-1	1504	211.0	18.9
SEEP-A3 TEST-1	1505	210.0	19
SEEP-A3 TEST-1	1506	208.3	19
Average		209.5	(µS/cms)
Geo Mean		209.5	(µS/cms)
Average (pre-test)		203.7	(µS/cms)
Average (post-test)		217.8	(µS/cms)

Table E3 SEEP-A3 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A3 TEST-1	1	48.7	26.6
SEEP-A3 TEST-1	10	181	26.9
SEEP-A3 TEST-1	100	450	27.1
SEEP-A3 TEST-1	1,000	3,464	27.5
SEEP-A3 TEST-1	10000	15,648	27.4
SEEP-A3 TEST-1	100,000	127,541	27.5

Table E4 SEEP-A3 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,500	mg
Slope of Calibration Curve	K	1.2785	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(EC t-ECbkg)	135,994.7	(s) . (µS/cms)
Calculated Flow Rate	Q	2.8	L/s
		44.8	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E28: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:46:15 PM	210.9	-
5/23/2019	3:46:16 PM	210.8	-
5/23/2019	3:46:17 PM	210.7	-
5/23/2019	3:46:18 PM	210.6	-
5/23/2019	3:46:19 PM	210.5	-
5/23/2019	3:46:20 PM	210.4	-
5/23/2019	3:46:21 PM	210.3	-
5/23/2019	3:46:22 PM	210.2	-
5/23/2019	3:46:23 PM	210.1	-
5/23/2019	3:46:24 PM	210.1	-
5/23/2019	3:46:25 PM	210.0	-
5/23/2019	3:46:26 PM	209.9	-
5/23/2019	3:46:27 PM	209.8	-
5/23/2019	3:46:28 PM	209.7	-
5/23/2019	3:46:29 PM	209.7	-
5/23/2019	3:46:30 PM	209.6	-
5/23/2019	3:46:31 PM	209.5	-
5/23/2019	3:46:32 PM	209.5	-
5/23/2019	3:46:33 PM	209.4	-
5/23/2019	3:46:34 PM	209.4	-
5/23/2019	3:46:35 PM	209.3	-
5/23/2019	3:46:36 PM	209.2	-
5/23/2019	3:46:37 PM	209.2	-
5/23/2019	3:46:38 PM	209.2	-
5/23/2019	3:46:39 PM	209.1	-
5/23/2019	3:46:40 PM	209.1	-
5/23/2019	3:46:41 PM	209.1	-
5/23/2019	3:46:42 PM	209.0	-
5/23/2019	3:46:43 PM	209.0	-
5/23/2019	3:46:44 PM	208.9	-
5/23/2019	3:46:45 PM	208.9	-
5/23/2019	3:46:46 PM	208.9	-
5/23/2019	3:46:47 PM	208.8	-
5/23/2019	3:46:48 PM	208.8	-
5/23/2019	3:46:49 PM	209.0	-
5/23/2019	3:46:50 PM	209.4	-
5/23/2019	3:46:51 PM	306.9	97.3
5/23/2019	3:46:52 PM	385.3	175.7
5/23/2019	3:46:53 PM	709.4	499.8
5/23/2019	3:46:54 PM	773.4	563.8
5/23/2019	3:46:55 PM	1564.6	1355.0
5/23/2019	3:46:56 PM	1776.4	1566.8
5/23/2019	3:46:57 PM	2291.4	2081.8
5/23/2019	3:46:58 PM	2722.9	2513.3
5/23/2019	3:46:59 PM	3068.7	2859.1
5/23/2019	3:47:00 PM	3563.0	3353.4
5/23/2019	3:47:01 PM	3730.4	3520.8
5/23/2019	3:47:02 PM	3799.9	3590.3
5/23/2019	3:47:03 PM	4128.5	3918.9
5/23/2019	3:47:04 PM	4186.5	3976.9
5/23/2019	3:47:05 PM	4241.6	4032.0
5/23/2019	3:47:06 PM	4299.4	4089.8
5/23/2019	3:47:07 PM	4289.5	4079.9
5/23/2019	3:47:08 PM	4257.6	4048.0
5/23/2019	3:47:09 PM	4236.4	4026.8
5/23/2019	3:47:10 PM	3953.0	3743.4
5/23/2019	3:47:11 PM	3847.8	3638.2
5/23/2019	3:47:12 PM	3640.9	3431.3
5/23/2019	3:47:13 PM	3629.6	3420.0
5/23/2019	3:47:14 PM	3305.3	3095.7
5/23/2019	3:47:15 PM	3260.0	3050.4
5/23/2019	3:47:16 PM	3131.2	2921.6
5/23/2019	3:47:17 PM	2912.9	2703.3
5/23/2019	3:47:18 PM	2878.7	2669.1
5/23/2019	3:47:19 PM	2670.1	2460.5
5/23/2019	3:47:20 PM	2564.5	2354.9
5/23/2019	3:47:21 PM	2457.7	2248.1
5/23/2019	3:47:22 PM	2318.1	2108.5
5/23/2019	3:47:23 PM	2272.3	2062.7
5/23/2019	3:47:24 PM	2016.6	1807.0

APPENDIX E28: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:47:25 PM	1934.4	1724.8
5/23/2019	3:47:26 PM	1852.2	1642.6
5/23/2019	3:47:27 PM	1745.6	1536.0
5/23/2019	3:47:28 PM	1563.5	1353.9
5/23/2019	3:47:29 PM	1485.9	1276.3
5/23/2019	3:47:30 PM	1385.6	1176.0
5/23/2019	3:47:31 PM	1368.7	1159.1
5/23/2019	3:47:32 PM	1340.9	1131.3
5/23/2019	3:47:33 PM	1224.4	1014.8
5/23/2019	3:47:34 PM	1127.4	917.8
5/23/2019	3:47:35 PM	1075.1	865.5
5/23/2019	3:47:36 PM	1062.3	852.7
5/23/2019	3:47:37 PM	930.4	720.8
5/23/2019	3:47:38 PM	909.1	699.5
5/23/2019	3:47:39 PM	870.2	660.6
5/23/2019	3:47:40 PM	845.0	635.4
5/23/2019	3:47:41 PM	753.9	544.3
5/23/2019	3:47:42 PM	758.4	548.8
5/23/2019	3:47:43 PM	711.7	502.1
5/23/2019	3:47:44 PM	704.4	494.8
5/23/2019	3:47:45 PM	705.0	495.4
5/23/2019	3:47:46 PM	698.3	488.7
5/23/2019	3:47:47 PM	549.2	339.6
5/23/2019	3:47:48 PM	620.7	411.1
5/23/2019	3:47:49 PM	621.4	411.8
5/23/2019	3:47:50 PM	615.3	405.7
5/23/2019	3:47:51 PM	609.8	400.2
5/23/2019	3:47:52 PM	598.2	388.6
5/23/2019	3:47:53 PM	588.9	379.3
5/23/2019	3:47:54 PM	582.9	373.3
5/23/2019	3:47:55 PM	575.3	365.7
5/23/2019	3:47:56 PM	517.5	307.9
5/23/2019	3:47:57 PM	511.1	301.5
5/23/2019	3:47:58 PM	506.1	296.5
5/23/2019	3:47:59 PM	496.1	286.5
5/23/2019	3:48:00 PM	493.0	283.4
5/23/2019	3:48:01 PM	489.8	280.2
5/23/2019	3:48:02 PM	487.2	277.6
5/23/2019	3:48:03 PM	483.7	274.1
5/23/2019	3:48:04 PM	479.8	270.2
5/23/2019	3:48:05 PM	476.3	266.7
5/23/2019	3:48:06 PM	472.6	263.0
5/23/2019	3:48:07 PM	469.2	259.6
5/23/2019	3:48:08 PM	465.5	255.9
5/23/2019	3:48:09 PM	461.9	252.3
5/23/2019	3:48:10 PM	458.9	249.3
5/23/2019	3:48:11 PM	455.8	246.2
5/23/2019	3:48:12 PM	453.0	243.4
5/23/2019	3:48:13 PM	447.7	238.1
5/23/2019	3:48:14 PM	441.8	232.2
5/23/2019	3:48:15 PM	435.2	225.6
5/23/2019	3:48:16 PM	430.0	220.4
5/23/2019	3:48:17 PM	424.1	214.5
5/23/2019	3:48:18 PM	419.3	209.7
5/23/2019	3:48:19 PM	413.9	204.3
5/23/2019	3:48:20 PM	409.5	199.9
5/23/2019	3:48:21 PM	404.6	195.0
5/23/2019	3:48:22 PM	400.6	191.0
5/23/2019	3:48:23 PM	396.2	186.6
5/23/2019	3:48:24 PM	392.4	182.8
5/23/2019	3:48:25 PM	388.3	178.7
5/23/2019	3:48:26 PM	385.0	175.4
5/23/2019	3:48:27 PM	381.4	171.8
5/23/2019	3:48:28 PM	378.3	168.7
5/23/2019	3:48:29 PM	374.6	165.0
5/23/2019	3:48:30 PM	371.1	161.5
5/23/2019	3:48:31 PM	368.2	158.6
5/23/2019	3:48:32 PM	364.9	155.3
5/23/2019	3:48:33 PM	362.2	152.6
5/23/2019	3:48:34 PM	359.0	149.4
5/23/2019	3:48:35 PM	356.2	146.6
5/23/2019	3:48:36 PM	353.0	143.4
5/23/2019	3:48:37 PM	350.2	140.6
5/23/2019	3:48:38 PM	347.1	137.5
5/23/2019	3:48:39 PM	344.3	134.7
5/23/2019	3:48:40 PM	341.3	131.7
5/23/2019	3:48:41 PM	338.8	129.2

APPENDIX E28: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:48:42 PM	336.1	126.5
5/23/2019	3:48:43 PM	333.7	124.1
5/23/2019	3:48:44 PM	331.1	121.5
5/23/2019	3:48:45 PM	328.8	119.2
5/23/2019	3:48:46 PM	326.3	116.7
5/23/2019	3:48:47 PM	324.0	114.4
5/23/2019	3:48:48 PM	321.6	112.0
5/23/2019	3:48:49 PM	319.3	109.7
5/23/2019	3:48:50 PM	317.4	107.8
5/23/2019	3:48:51 PM	315.2	105.6
5/23/2019	3:48:52 PM	313.3	103.7
5/23/2019	3:48:53 PM	311.0	101.4
5/23/2019	3:48:54 PM	309.1	99.5
5/23/2019	3:48:55 PM	307.0	97.4
5/23/2019	3:48:56 PM	305.2	95.6
5/23/2019	3:48:57 PM	303.2	93.6
5/23/2019	3:48:58 PM	301.5	91.9
5/23/2019	3:48:59 PM	299.5	89.9
5/23/2019	3:49:00 PM	297.9	88.3
5/23/2019	3:49:01 PM	296.1	86.5
5/23/2019	3:49:02 PM	294.5	84.9
5/23/2019	3:49:03 PM	292.8	83.2
5/23/2019	3:49:04 PM	291.3	81.7
5/23/2019	3:49:05 PM	289.7	80.1
5/23/2019	3:49:06 PM	288.4	78.8
5/23/2019	3:49:07 PM	286.8	77.2
5/23/2019	3:49:08 PM	285.5	75.9
5/23/2019	3:49:09 PM	284.0	74.4
5/23/2019	3:49:10 PM	282.5	72.9
5/23/2019	3:49:11 PM	281.2	71.6
5/23/2019	3:49:12 PM	279.7	70.1
5/23/2019	3:49:13 PM	278.5	68.9
5/23/2019	3:49:14 PM	277.1	67.5
5/23/2019	3:49:15 PM	275.9	66.3
5/23/2019	3:49:16 PM	274.5	64.9
5/23/2019	3:49:17 PM	273.5	63.9
5/23/2019	3:49:18 PM	272.3	62.7
5/23/2019	3:49:19 PM	271.2	61.6
5/23/2019	3:49:20 PM	270.0	60.4
5/23/2019	3:49:21 PM	269.0	59.4
5/23/2019	3:49:22 PM	267.9	58.3
5/23/2019	3:49:23 PM	266.9	57.3
5/23/2019	3:49:24 PM	265.8	56.2
5/23/2019	3:49:25 PM	264.9	55.3
5/23/2019	3:49:26 PM	263.9	54.3
5/23/2019	3:49:27 PM	263.0	53.4
5/23/2019	3:49:28 PM	262.1	52.5
5/23/2019	3:49:29 PM	261.1	51.5
5/23/2019	3:49:30 PM	260.3	50.7
5/23/2019	3:49:31 PM	259.3	49.7
5/23/2019	3:49:32 PM	258.4	48.8
5/23/2019	3:49:33 PM	257.5	47.9
5/23/2019	3:49:34 PM	256.7	47.1
5/23/2019	3:49:35 PM	255.8	46.2
5/23/2019	3:49:36 PM	255.0	45.4
5/23/2019	3:49:37 PM	254.2	44.6
5/23/2019	3:49:38 PM	253.5	43.9
5/23/2019	3:49:39 PM	252.7	43.1
5/23/2019	3:49:40 PM	252.0	42.4
5/23/2019	3:49:41 PM	251.2	41.6
5/23/2019	3:49:42 PM	250.5	40.9
5/23/2019	3:49:43 PM	249.7	40.1
5/23/2019	3:49:44 PM	249.1	39.5
5/23/2019	3:49:45 PM	248.3	38.7
5/23/2019	3:49:46 PM	247.7	38.1
5/23/2019	3:49:47 PM	247.0	37.4
5/23/2019	3:49:48 PM	246.4	36.8
5/23/2019	3:49:49 PM	245.8	36.2
5/23/2019	3:49:50 PM	245.1	35.5
5/23/2019	3:49:51 PM	244.6	35.0
5/23/2019	3:49:52 PM	243.9	34.3
5/23/2019	3:49:53 PM	243.4	33.8
5/23/2019	3:49:54 PM	242.7	33.1
5/23/2019	3:49:55 PM	242.3	32.7
5/23/2019	3:49:56 PM	241.8	32.2
5/23/2019	3:49:57 PM	241.2	31.6
5/23/2019	3:49:58 PM	240.8	31.2
5/23/2019	3:49:59 PM	240.3	30.7
5/23/2019	3:50:00 PM	239.7	30.1

APPENDIX E28: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:50:01 PM	239.3	29.7
5/23/2019	3:50:02 PM	238.8	29.2
5/23/2019	3:50:03 PM	238.2	28.6
5/23/2019	3:50:04 PM	237.7	28.1
5/23/2019	3:50:05 PM	237.4	27.8
5/23/2019	3:50:06 PM	236.8	27.2
5/23/2019	3:50:07 PM	236.5	26.9
5/23/2019	3:50:08 PM	236.0	26.4
5/23/2019	3:50:09 PM	235.5	25.9
5/23/2019	3:50:10 PM	235.1	25.5
5/23/2019	3:50:11 PM	234.8	25.2
5/23/2019	3:50:12 PM	234.3	24.7
5/23/2019	3:50:13 PM	233.9	24.3
5/23/2019	3:50:14 PM	233.6	24.0
5/23/2019	3:50:15 PM	233.2	23.6
5/23/2019	3:50:16 PM	232.8	23.2
5/23/2019	3:50:17 PM	232.6	23.0
5/23/2019	3:50:18 PM	232.2	22.6
5/23/2019	3:50:19 PM	231.8	22.2
5/23/2019	3:50:20 PM	231.6	22.0
5/23/2019	3:50:21 PM	231.2	21.6
5/23/2019	3:50:22 PM	230.9	21.3
5/23/2019	3:50:23 PM	230.7	21.1
5/23/2019	3:50:24 PM	230.3	20.7
5/23/2019	3:50:25 PM	230.0	20.4
5/23/2019	3:50:26 PM	229.8	20.2
5/23/2019	3:50:27 PM	229.3	19.7
5/23/2019	3:50:28 PM	229.1	19.5
5/23/2019	3:50:29 PM	228.9	19.3
5/23/2019	3:50:30 PM	228.5	18.9
5/23/2019	3:50:31 PM	228.3	18.7
5/23/2019	3:50:32 PM	228.0	18.4
5/23/2019	3:50:33 PM	227.6	18.0
5/23/2019	3:50:34 PM	227.4	17.8
5/23/2019	3:50:35 PM	227.2	17.6
5/23/2019	3:50:36 PM	226.8	17.2
5/23/2019	3:50:37 PM	226.5	16.9
5/23/2019	3:50:38 PM	226.3	16.7
5/23/2019	3:50:39 PM	226.0	16.4
5/23/2019	3:50:40 PM	225.8	16.2
5/23/2019	3:50:41 PM	225.5	15.9
5/23/2019	3:50:42 PM	225.3	15.7
5/23/2019	3:50:43 PM	225.0	15.4
5/23/2019	3:50:44 PM	224.7	15.1
5/23/2019	3:50:45 PM	224.5	14.9
5/23/2019	3:50:46 PM	224.2	14.6
5/23/2019	3:50:47 PM	224.0	14.4
5/23/2019	3:50:48 PM	223.8	14.2
5/23/2019	3:50:49 PM	223.5	13.9
5/23/2019	3:50:50 PM	223.4	13.8
5/23/2019	3:50:51 PM	223.1	13.5
5/23/2019	3:50:52 PM	222.9	13.3
5/23/2019	3:50:53 PM	222.7	13.1
5/23/2019	3:50:54 PM	222.5	12.9
5/23/2019	3:50:55 PM	222.3	12.7
5/23/2019	3:50:56 PM	222.1	12.5
5/23/2019	3:50:57 PM	221.9	12.3
5/23/2019	3:50:58 PM	221.7	12.1
5/23/2019	3:50:59 PM	221.5	11.9
5/23/2019	3:51:00 PM	221.4	11.8
5/23/2019	3:51:01 PM	221.1	11.5
5/23/2019	3:51:02 PM	221.0	11.4
5/23/2019	3:51:03 PM	220.8	11.2
5/23/2019	3:51:04 PM	220.6	11.0
5/23/2019	3:51:05 PM	220.5	10.9
5/23/2019	3:51:06 PM	220.3	10.7
5/23/2019	3:51:07 PM	220.1	10.5
5/23/2019	3:51:08 PM	220.0	10.4
5/23/2019	3:51:09 PM	219.7	10.1
5/23/2019	3:51:10 PM	219.6	10.0
5/23/2019	3:51:11 PM	219.4	9.8
5/23/2019	3:51:12 PM	219.2	9.6
5/23/2019	3:51:13 PM	219.1	9.5
5/23/2019	3:51:14 PM	218.9	9.3
5/23/2019	3:51:15 PM	218.7	9.1
5/23/2019	3:51:16 PM	218.6	9.0
5/23/2019	3:51:17 PM	218.4	8.8
5/23/2019	3:51:18 PM	218.2	8.6
5/23/2019	3:51:19 PM	218.0	8.4

APPENDIX E28: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:51:20 PM	217.9	8.3
5/23/2019	3:51:21 PM	217.7	8.1
5/23/2019	3:51:22 PM	217.6	8.0
5/23/2019	3:51:23 PM	217.4	7.8
5/23/2019	3:51:24 PM	217.3	7.7
5/23/2019	3:51:25 PM	217.2	7.6
5/23/2019	3:51:26 PM	217.0	7.4
5/23/2019	3:51:27 PM	216.9	7.3
5/23/2019	3:51:28 PM	216.7	7.1
5/23/2019	3:51:29 PM	216.6	7.0
5/23/2019	3:51:30 PM	216.5	6.9
5/23/2019	3:51:31 PM	216.4	6.8
5/23/2019	3:51:32 PM	216.3	6.7
5/23/2019	3:51:33 PM	216.2	6.6
5/23/2019	3:51:34 PM	216.0	6.4
5/23/2019	3:51:35 PM	216.0	6.4
5/23/2019	3:51:36 PM	215.8	6.2
5/23/2019	3:51:37 PM	215.7	6.1
5/23/2019	3:51:38 PM	215.7	6.1
5/23/2019	3:51:39 PM	215.5	5.9
5/23/2019	3:51:40 PM	215.5	5.9
5/23/2019	3:51:41 PM	215.4	5.8
5/23/2019	3:51:42 PM	215.3	5.7
5/23/2019	3:51:43 PM	215.2	5.6
5/23/2019	3:51:44 PM	215.1	5.5
5/23/2019	3:51:45 PM	215.0	5.4
5/23/2019	3:51:46 PM	215.0	5.4
5/23/2019	3:51:47 PM	214.9	5.3
5/23/2019	3:51:48 PM	214.8	5.2
5/23/2019	3:51:49 PM	214.7	5.1
5/23/2019	3:51:50 PM	214.7	5.1
5/23/2019	3:51:51 PM	214.6	5.0
5/23/2019	3:51:52 PM	214.5	4.9
5/23/2019	3:51:53 PM	214.4	4.8
5/23/2019	3:51:54 PM	214.3	4.7
5/23/2019	3:51:55 PM	214.2	4.6
5/23/2019	3:51:56 PM	214.1	4.5
5/23/2019	3:51:57 PM	214.1	4.5
5/23/2019	3:51:58 PM	214.0	4.4
5/23/2019	3:51:59 PM	213.8	4.2
5/23/2019	3:52:00 PM	213.8	4.2
5/23/2019	3:52:01 PM	213.7	4.1
5/23/2019	3:52:02 PM	213.6	4.0
5/23/2019	3:52:03 PM	213.5	3.9
5/23/2019	3:52:04 PM	213.4	3.8
5/23/2019	3:52:05 PM	213.4	3.8
5/23/2019	3:52:06 PM	213.3	3.7
5/23/2019	3:52:07 PM	213.2	3.6
5/23/2019	3:52:08 PM	213.1	3.5
5/23/2019	3:52:09 PM	213.1	3.5
5/23/2019	3:52:10 PM	213.0	3.4
5/23/2019	3:52:11 PM	212.9	3.3
5/23/2019	3:52:12 PM	212.8	3.2
5/23/2019	3:52:13 PM	212.8	3.2
5/23/2019	3:52:14 PM	212.7	3.1
5/23/2019	3:52:15 PM	212.6	3.0
5/23/2019	3:52:16 PM	212.6	3.0
5/23/2019	3:52:17 PM	212.5	2.9
5/23/2019	3:52:18 PM	212.4	2.8
5/23/2019	3:52:19 PM	212.3	2.7
5/23/2019	3:52:20 PM	212.3	2.7
5/23/2019	3:52:21 PM	212.2	2.6
5/23/2019	3:52:22 PM	212.1	2.5
5/23/2019	3:52:23 PM	212.1	2.5
5/23/2019	3:52:24 PM	212.0	2.4
5/23/2019	3:52:25 PM	211.9	2.3
5/23/2019	3:52:26 PM	211.9	2.3
5/23/2019	3:52:27 PM	211.8	2.2
5/23/2019	3:52:28 PM	211.7	2.1
5/23/2019	3:52:29 PM	211.7	2.1
5/23/2019	3:52:30 PM	211.6	2.0
5/23/2019	3:52:31 PM	211.6	2.0
5/23/2019	3:52:32 PM	211.5	1.9
5/23/2019	3:52:33 PM	211.4	1.8
5/23/2019	3:52:34 PM	211.4	1.8
5/23/2019	3:52:35 PM	211.3	1.7
5/23/2019	3:52:36 PM	211.3	1.7
5/23/2019	3:52:37 PM	211.3	1.7
5/23/2019	3:52:38 PM	211.2	1.6

APPENDIX E28: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	3:52:39 PM	211.2	1.6
5/23/2019	3:52:40 PM	211.1	1.5
5/23/2019	3:52:41 PM	211.1	1.5
5/23/2019	3:52:42 PM	211.1	1.5
5/23/2019	3:52:43 PM	211.0	1.4
5/23/2019	3:52:44 PM	210.9	1.3
5/23/2019	3:52:45 PM	210.9	1.3
5/23/2019	3:52:46 PM	210.8	1.2
5/23/2019	3:52:47 PM	210.8	1.2
5/23/2019	3:52:48 PM	210.7	1.1
5/23/2019	3:52:49 PM	210.7	1.1
5/23/2019	3:52:50 PM	210.6	1.0

APPENDIX E28: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 MAY
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A3 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A3 TEST-2	1504	208.8	19.1
SEEP-A3 TEST-2	1504	211.0	18.9
SEEP-A3 TEST-2	1505	210.0	19
SEEP-A3 TEST-2	1506	208.3	19
Average		209.5	(µS/cms)
Geo Mean		209.5	(µS/cms)
Average (pre-test)		209.6	(µS/cms)
Average (post-test)		214.2	(µS/cms)

Table E3 SEEP-A3TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A3 TEST-2	1	48.7	26.6
SEEP-A3 TEST-2	10	181	26.9
SEEP-A3 TEST-2	100	450	27.1
SEEP-A3 TEST-2	1,000	3,464	27.5
SEEP-A3 TEST-2	10000	15,648	27.4
SEEP-A3 TEST-2	100,000	127,541	27.5

Table E4 SEEP-A3 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,300	mg
Slope of Calibration Curve	K	1.2785	µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(EC t-ECbkg)	132,598.3	(s) . (µS/cms)
Calculated Flow Rate	Q	2.9	L/s
		46.0	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E29: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:01:18 PM	211.6	-
5/23/2019	4:01:19 PM	211.5	-
5/23/2019	4:01:20 PM	211.3	-
5/23/2019	4:01:21 PM	211.2	-
5/23/2019	4:01:22 PM	211.1	-
5/23/2019	4:01:23 PM	211.0	-
5/23/2019	4:01:24 PM	211.0	-
5/23/2019	4:01:25 PM	210.9	-
5/23/2019	4:01:26 PM	210.8	-
5/23/2019	4:01:27 PM	210.8	-
5/23/2019	4:01:28 PM	210.6	-
5/23/2019	4:01:29 PM	210.5	-
5/23/2019	4:01:30 PM	210.3	-
5/23/2019	4:01:31 PM	210.1	-
5/23/2019	4:01:32 PM	210.1	-
5/23/2019	4:01:33 PM	210.1	-
5/23/2019	4:01:34 PM	210.1	-
5/23/2019	4:01:35 PM	210.1	-
5/23/2019	4:01:36 PM	210.1	-
5/23/2019	4:01:37 PM	210.2	-
5/23/2019	4:01:38 PM	210.2	-
5/23/2019	4:01:39 PM	210.2	-
5/23/2019	4:01:40 PM	210.2	-
5/23/2019	4:01:41 PM	210.3	-
5/23/2019	4:01:42 PM	210.3	-
5/23/2019	4:01:43 PM	210.4	-
5/23/2019	4:01:44 PM	210.4	-
5/23/2019	4:01:45 PM	210.5	-
5/23/2019	4:01:46 PM	210.7	-
5/23/2019	4:01:47 PM	211.0	-
5/23/2019	4:01:48 PM	262.8	52.2
5/23/2019	4:01:49 PM	313.4	102.8
5/23/2019	4:01:50 PM	402.8	192.2
5/23/2019	4:01:51 PM	478.0	267.4
5/23/2019	4:01:52 PM	744.1	533.5
5/23/2019	4:01:53 PM	1238.5	1027.9
5/23/2019	4:01:54 PM	1465.2	1254.6
5/23/2019	4:01:55 PM	1802.7	1592.1
5/23/2019	4:01:56 PM	2263.8	2053.2
5/23/2019	4:01:57 PM	2460.5	2249.9
5/23/2019	4:01:58 PM	3201.8	2991.2
5/23/2019	4:01:59 PM	3522.9	3312.3
5/23/2019	4:02:00 PM	4012.3	3801.7
5/23/2019	4:02:01 PM	4136.4	3925.8
5/23/2019	4:02:02 PM	4284.7	4074.1
5/23/2019	4:02:03 PM	4253.1	4042.5
5/23/2019	4:02:04 PM	4251.8	4041.2
5/23/2019	4:02:05 PM	4245.4	4034.8
5/23/2019	4:02:06 PM	4237.7	4027.1
5/23/2019	4:02:07 PM	4219.8	4009.2
5/23/2019	4:02:08 PM	4195.2	3984.6
5/23/2019	4:02:09 PM	3854.4	3643.8
5/23/2019	4:02:10 PM	3784.5	3573.9
5/23/2019	4:02:11 PM	3636.8	3426.2
5/23/2019	4:02:12 PM	3623.0	3412.4
5/23/2019	4:02:13 PM	3334.8	3124.2
5/23/2019	4:02:14 PM	3248.7	3038.1
5/23/2019	4:02:15 PM	3139.4	2928.8
5/23/2019	4:02:16 PM	3019.9	2809.3
5/23/2019	4:02:17 PM	2974.2	2763.6
5/23/2019	4:02:18 PM	2905.6	2695.0
5/23/2019	4:02:19 PM	2603.6	2393.0
5/23/2019	4:02:20 PM	2515.4	2304.8
5/23/2019	4:02:21 PM	2350.4	2139.8
5/23/2019	4:02:22 PM	2289.0	2078.4
5/23/2019	4:02:23 PM	2053.0	1842.4
5/23/2019	4:02:24 PM	1887.5	1676.9
5/23/2019	4:02:25 PM	1814.3	1603.7
5/23/2019	4:02:26 PM	1693.5	1482.9
5/23/2019	4:02:27 PM	1644.4	1433.8
5/23/2019	4:02:28 PM	1484.0	1273.4
5/23/2019	4:02:29 PM	1394.9	1184.3
5/23/2019	4:02:30 PM	1278.2	1067.6
5/23/2019	4:02:31 PM	1238.0	1027.4
5/23/2019	4:02:32 PM	1196.3	985.7

APPENDIX E29: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:02:33 PM	1169.2	958.6
5/23/2019	4:02:34 PM	1065.6	855.0
5/23/2019	4:02:35 PM	1010.1	799.5
5/23/2019	4:02:36 PM	960.5	749.9
5/23/2019	4:02:37 PM	948.0	737.4
5/23/2019	4:02:38 PM	932.7	722.1
5/23/2019	4:02:39 PM	913.3	702.7
5/23/2019	4:02:40 PM	830.2	619.6
5/23/2019	4:02:41 PM	792.1	581.5
5/23/2019	4:02:42 PM	779.7	569.1
5/23/2019	4:02:43 PM	755.1	544.5
5/23/2019	4:02:44 PM	732.0	521.4
5/23/2019	4:02:45 PM	713.7	503.1
5/23/2019	4:02:46 PM	655.9	445.3
5/23/2019	4:02:47 PM	655.7	445.1
5/23/2019	4:02:48 PM	600.9	390.3
5/23/2019	4:02:49 PM	602.1	391.5
5/23/2019	4:02:50 PM	597.1	386.5
5/23/2019	4:02:51 PM	589.1	378.5
5/23/2019	4:02:52 PM	583.8	373.2
5/23/2019	4:02:53 PM	577.5	366.9
5/23/2019	4:02:54 PM	572.4	361.8
5/23/2019	4:02:55 PM	566.5	355.9
5/23/2019	4:02:56 PM	561.6	351.0
5/23/2019	4:02:57 PM	556.7	346.1
5/23/2019	4:02:58 PM	552.3	341.7
5/23/2019	4:02:59 PM	503.3	292.7
5/23/2019	4:03:00 PM	493.3	282.7
5/23/2019	4:03:01 PM	486.5	275.9
5/23/2019	4:03:02 PM	482.4	271.8
5/23/2019	4:03:03 PM	477.7	267.1
5/23/2019	4:03:04 PM	472.4	261.8
5/23/2019	4:03:05 PM	468.3	257.7
5/23/2019	4:03:06 PM	464.7	254.1
5/23/2019	4:03:07 PM	461.3	250.7
5/23/2019	4:03:08 PM	458.1	247.5
5/23/2019	4:03:09 PM	455.3	244.7
5/23/2019	4:03:10 PM	452.4	241.8
5/23/2019	4:03:11 PM	449.7	239.1
5/23/2019	4:03:12 PM	446.6	236.0
5/23/2019	4:03:13 PM	444.1	233.5
5/23/2019	4:03:14 PM	441.2	230.6
5/23/2019	4:03:15 PM	438.4	227.8
5/23/2019	4:03:16 PM	432.4	221.8
5/23/2019	4:03:17 PM	427.5	216.9
5/23/2019	4:03:18 PM	422.0	211.4
5/23/2019	4:03:19 PM	417.2	206.6
5/23/2019	4:03:20 PM	411.7	201.1
5/23/2019	4:03:21 PM	406.7	196.1
5/23/2019	4:03:22 PM	401.3	190.7
5/23/2019	4:03:23 PM	396.1	185.5
5/23/2019	4:03:24 PM	391.8	181.2
5/23/2019	4:03:25 PM	387.1	176.5
5/23/2019	4:03:26 PM	383.1	172.5
5/23/2019	4:03:27 PM	378.6	168.0
5/23/2019	4:03:28 PM	374.7	164.1
5/23/2019	4:03:29 PM	370.4	159.8
5/23/2019	4:03:30 PM	366.8	156.2
5/23/2019	4:03:31 PM	362.8	152.2
5/23/2019	4:03:32 PM	359.6	149.0
5/23/2019	4:03:33 PM	356.4	145.8
5/23/2019	4:03:34 PM	353.7	143.1
5/23/2019	4:03:35 PM	350.8	140.2
5/23/2019	4:03:36 PM	348.2	137.6
5/23/2019	4:03:37 PM	345.4	134.8
5/23/2019	4:03:38 PM	343.0	132.4
5/23/2019	4:03:39 PM	340.4	129.8
5/23/2019	4:03:40 PM	338.1	127.5
5/23/2019	4:03:41 PM	335.8	125.2
5/23/2019	4:03:42 PM	333.7	123.1
5/23/2019	4:03:43 PM	331.9	121.3
5/23/2019	4:03:44 PM	330.1	119.5
5/23/2019	4:03:45 PM	328.4	117.8
5/23/2019	4:03:46 PM	326.6	116.0
5/23/2019	4:03:47 PM	325.0	114.4
5/23/2019	4:03:48 PM	323.2	112.6
5/23/2019	4:03:49 PM	321.5	110.9
5/23/2019	4:03:50 PM	319.7	109.1
5/23/2019	4:03:51 PM	318.2	107.6
5/23/2019	4:03:52 PM	316.4	105.8
5/23/2019	4:03:53 PM	314.9	104.3
5/23/2019	4:03:54 PM	313.1	102.5
5/23/2019	4:03:55 PM	311.4	100.8
5/23/2019	4:03:56 PM	309.4	98.8
5/23/2019	4:03:57 PM	307.7	97.1

APPENDIX E29: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:03:58 PM	305.8	95.2
5/23/2019	4:03:59 PM	304.2	93.6
5/23/2019	4:04:00 PM	302.4	91.8
5/23/2019	4:04:01 PM	300.8	90.2
5/23/2019	4:04:02 PM	299.2	88.6
5/23/2019	4:04:03 PM	297.6	87.0
5/23/2019	4:04:04 PM	296.2	85.6
5/23/2019	4:04:05 PM	294.7	84.1
5/23/2019	4:04:06 PM	293.3	82.7
5/23/2019	4:04:07 PM	291.8	81.2
5/23/2019	4:04:08 PM	290.6	80.0
5/23/2019	4:04:09 PM	289.3	78.7
5/23/2019	4:04:10 PM	288.3	77.7
5/23/2019	4:04:11 PM	287.0	76.4
5/23/2019	4:04:12 PM	285.8	75.2
5/23/2019	4:04:13 PM	284.5	73.9
5/23/2019	4:04:14 PM	283.4	72.8
5/23/2019	4:04:15 PM	282.1	71.5
5/23/2019	4:04:16 PM	281.0	70.4
5/23/2019	4:04:17 PM	279.7	69.1
5/23/2019	4:04:18 PM	278.7	68.1
5/23/2019	4:04:19 PM	277.5	66.9
5/23/2019	4:04:20 PM	276.4	65.8
5/23/2019	4:04:21 PM	275.2	64.6
5/23/2019	4:04:22 PM	274.1	63.5
5/23/2019	4:04:23 PM	272.9	62.3
5/23/2019	4:04:24 PM	271.8	61.2
5/23/2019	4:04:25 PM	270.8	60.2
5/23/2019	4:04:26 PM	269.8	59.2
5/23/2019	4:04:27 PM	268.9	58.3
5/23/2019	4:04:28 PM	267.9	57.3
5/23/2019	4:04:29 PM	267.0	56.4
5/23/2019	4:04:30 PM	266.0	55.4
5/23/2019	4:04:31 PM	265.1	54.5
5/23/2019	4:04:32 PM	264.1	53.5
5/23/2019	4:04:33 PM	263.3	52.7
5/23/2019	4:04:34 PM	262.4	51.8
5/23/2019	4:04:35 PM	261.5	50.9
5/23/2019	4:04:36 PM	260.7	50.1
5/23/2019	4:04:37 PM	259.9	49.3
5/23/2019	4:04:38 PM	259.1	48.5
5/23/2019	4:04:39 PM	258.3	47.7
5/23/2019	4:04:40 PM	257.5	46.9
5/23/2019	4:04:41 PM	256.7	46.1
5/23/2019	4:04:42 PM	255.9	45.3
5/23/2019	4:04:43 PM	255.1	44.5
5/23/2019	4:04:44 PM	254.4	43.8
5/23/2019	4:04:45 PM	253.6	43.0
5/23/2019	4:04:46 PM	253.0	42.4
5/23/2019	4:04:47 PM	252.3	41.7
5/23/2019	4:04:48 PM	251.7	41.1
5/23/2019	4:04:49 PM	251.1	40.5
5/23/2019	4:04:50 PM	250.5	39.9
5/23/2019	4:04:51 PM	249.9	39.3
5/23/2019	4:04:52 PM	249.3	38.7
5/23/2019	4:04:53 PM	248.8	38.2
5/23/2019	4:04:54 PM	248.3	37.7
5/23/2019	4:04:55 PM	247.7	37.1
5/23/2019	4:04:56 PM	247.2	36.6
5/23/2019	4:04:57 PM	246.7	36.1
5/23/2019	4:04:58 PM	246.2	35.6
5/23/2019	4:04:59 PM	245.6	35.0
5/23/2019	4:05:00 PM	245.2	34.6
5/23/2019	4:05:01 PM	244.6	34.0
5/23/2019	4:05:02 PM	244.2	33.6
5/23/2019	4:05:03 PM	243.8	33.2
5/23/2019	4:05:04 PM	243.2	32.6
5/23/2019	4:05:05 PM	242.8	32.2
5/23/2019	4:05:06 PM	242.2	31.6
5/23/2019	4:05:07 PM	241.7	31.1
5/23/2019	4:05:08 PM	241.2	30.6
5/23/2019	4:05:09 PM	240.8	30.2
5/23/2019	4:05:10 PM	240.3	29.7
5/23/2019	4:05:11 PM	239.8	29.2
5/23/2019	4:05:12 PM	239.3	28.7
5/23/2019	4:05:13 PM	238.8	28.2
5/23/2019	4:05:14 PM	238.3	27.7

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:05:15 PM	237.9	27.3
5/23/2019	4:05:16 PM	237.4	26.8
5/23/2019	4:05:17 PM	237.0	26.4
5/23/2019	4:05:18 PM	236.5	25.9
5/23/2019	4:05:19 PM	236.1	25.5
5/23/2019	4:05:20 PM	235.7	25.1
5/23/2019	4:05:21 PM	235.4	24.8
5/23/2019	4:05:22 PM	235.0	24.4
5/23/2019	4:05:23 PM	234.7	24.1
5/23/2019	4:05:24 PM	234.4	23.8
5/23/2019	4:05:25 PM	234.1	23.5
5/23/2019	4:05:26 PM	233.8	23.2
5/23/2019	4:05:27 PM	233.5	22.9
5/23/2019	4:05:28 PM	233.2	22.6
5/23/2019	4:05:29 PM	233.0	22.4
5/23/2019	4:05:30 PM	232.6	22.0
5/23/2019	4:05:31 PM	232.4	21.8
5/23/2019	4:05:32 PM	232.0	21.4
5/23/2019	4:05:33 PM	231.8	21.2
5/23/2019	4:05:34 PM	231.5	20.9
5/23/2019	4:05:35 PM	231.1	20.5
5/23/2019	4:05:36 PM	230.9	20.3
5/23/2019	4:05:37 PM	230.7	20.1
5/23/2019	4:05:38 PM	230.4	19.8
5/23/2019	4:05:39 PM	230.1	19.5
5/23/2019	4:05:40 PM	229.8	19.2
5/23/2019	4:05:41 PM	229.6	19.0
5/23/2019	4:05:42 PM	229.3	18.7
5/23/2019	4:05:43 PM	229.0	18.4
5/23/2019	4:05:44 PM	228.7	18.1
5/23/2019	4:05:45 PM	228.5	17.9
5/23/2019	4:05:46 PM	228.3	17.7
5/23/2019	4:05:47 PM	228.0	17.4
5/23/2019	4:05:48 PM	227.8	17.2
5/23/2019	4:05:49 PM	227.6	17.0
5/23/2019	4:05:50 PM	227.3	16.7
5/23/2019	4:05:51 PM	227.1	16.5
5/23/2019	4:05:52 PM	226.9	16.3
5/23/2019	4:05:53 PM	226.7	16.1
5/23/2019	4:05:54 PM	226.5	15.9
5/23/2019	4:05:55 PM	226.3	15.7
5/23/2019	4:05:56 PM	226.1	15.5
5/23/2019	4:05:57 PM	225.9	15.3
5/23/2019	4:05:58 PM	225.7	15.1
5/23/2019	4:05:59 PM	225.5	14.9
5/23/2019	4:06:00 PM	225.3	14.7
5/23/2019	4:06:01 PM	225.1	14.5
5/23/2019	4:06:02 PM	224.9	14.3
5/23/2019	4:06:03 PM	224.7	14.1
5/23/2019	4:06:04 PM	224.5	13.9
5/23/2019	4:06:05 PM	224.3	13.7
5/23/2019	4:06:06 PM	224.2	13.6
5/23/2019	4:06:07 PM	224.0	13.4
5/23/2019	4:06:08 PM	223.8	13.2
5/23/2019	4:06:09 PM	223.7	13.1
5/23/2019	4:06:10 PM	223.5	12.9
5/23/2019	4:06:11 PM	223.3	12.7
5/23/2019	4:06:12 PM	223.1	12.5
5/23/2019	4:06:13 PM	222.9	12.3
5/23/2019	4:06:14 PM	222.7	12.1
5/23/2019	4:06:15 PM	222.6	12.0
5/23/2019	4:06:16 PM	222.4	11.8
5/23/2019	4:06:17 PM	222.2	11.6
5/23/2019	4:06:18 PM	222.0	11.4
5/23/2019	4:06:19 PM	221.9	11.3
5/23/2019	4:06:20 PM	221.7	11.1
5/23/2019	4:06:21 PM	221.5	10.9
5/23/2019	4:06:22 PM	221.3	10.7
5/23/2019	4:06:23 PM	221.1	10.5
5/23/2019	4:06:24 PM	220.9	10.3
5/23/2019	4:06:25 PM	220.8	10.2
5/23/2019	4:06:26 PM	220.6	10.0
5/23/2019	4:06:27 PM	220.4	9.8
5/23/2019	4:06:28 PM	220.3	9.7
5/23/2019	4:06:29 PM	220.1	9.5
5/23/2019	4:06:30 PM	220.0	9.4
5/23/2019	4:06:31 PM	219.8	9.2
5/23/2019	4:06:32 PM	219.7	9.1
5/23/2019	4:06:33 PM	219.6	9.0
5/23/2019	4:06:34 PM	219.5	8.9
5/23/2019	4:06:35 PM	219.4	8.8
5/23/2019	4:06:36 PM	219.4	8.8
5/23/2019	4:06:37 PM	219.3	8.7
5/23/2019	4:06:38 PM	219.2	8.6
5/23/2019	4:06:39 PM	219.1	8.5
5/23/2019	4:06:40 PM	219.0	8.4

APPENDIX E29: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:06:41 PM	219.0	8.4
5/23/2019	4:06:42 PM	218.9	8.3
5/23/2019	4:06:43 PM	218.7	8.1
5/23/2019	4:06:44 PM	218.6	8.0
5/23/2019	4:06:45 PM	218.5	7.9
5/23/2019	4:06:46 PM	218.4	7.8
5/23/2019	4:06:47 PM	218.3	7.7
5/23/2019	4:06:48 PM	218.2	7.6
5/23/2019	4:06:49 PM	218.1	7.5
5/23/2019	4:06:50 PM	218.0	7.4
5/23/2019	4:06:51 PM	217.9	7.3
5/23/2019	4:06:52 PM	217.8	7.2
5/23/2019	4:06:53 PM	217.7	7.1
5/23/2019	4:06:54 PM	217.6	7.0
5/23/2019	4:06:55 PM	217.5	6.9
5/23/2019	4:06:56 PM	217.5	6.9
5/23/2019	4:06:57 PM	217.4	6.8
5/23/2019	4:06:58 PM	217.3	6.7
5/23/2019	4:06:59 PM	217.2	6.6
5/23/2019	4:07:00 PM	217.1	6.5
5/23/2019	4:07:01 PM	217.0	6.4
5/23/2019	4:07:02 PM	217.0	6.4
5/23/2019	4:07:03 PM	216.9	6.3
5/23/2019	4:07:04 PM	216.8	6.2
5/23/2019	4:07:05 PM	216.7	6.1
5/23/2019	4:07:06 PM	216.7	6.1
5/23/2019	4:07:07 PM	216.6	6.0
5/23/2019	4:07:08 PM	216.5	5.9
5/23/2019	4:07:09 PM	216.5	5.9
5/23/2019	4:07:10 PM	216.4	5.8
5/23/2019	4:07:11 PM	216.3	5.7
5/23/2019	4:07:12 PM	216.2	5.6
5/23/2019	4:07:13 PM	216.1	5.5
5/23/2019	4:07:14 PM	216.0	5.4
5/23/2019	4:07:15 PM	216.0	5.4
5/23/2019	4:07:16 PM	215.9	5.3
5/23/2019	4:07:17 PM	215.8	5.2
5/23/2019	4:07:18 PM	215.7	5.1
5/23/2019	4:07:19 PM	215.7	5.1
5/23/2019	4:07:20 PM	215.6	5.0
5/23/2019	4:07:21 PM	215.5	4.9
5/23/2019	4:07:22 PM	215.4	4.8
5/23/2019	4:07:23 PM	215.4	4.8
5/23/2019	4:07:24 PM	215.3	4.7
5/23/2019	4:07:25 PM	215.3	4.7
5/23/2019	4:07:26 PM	215.2	4.6
5/23/2019	4:07:27 PM	215.2	4.6
5/23/2019	4:07:28 PM	215.1	4.5
5/23/2019	4:07:29 PM	215.0	4.4
5/23/2019	4:07:30 PM	215.0	4.4
5/23/2019	4:07:31 PM	214.9	4.3
5/23/2019	4:07:32 PM	214.8	4.2
5/23/2019	4:07:33 PM	214.8	4.2
5/23/2019	4:07:34 PM	214.7	4.1
5/23/2019	4:07:35 PM	214.6	4.0
5/23/2019	4:07:36 PM	214.5	3.9
5/23/2019	4:07:37 PM	214.5	3.9
5/23/2019	4:07:38 PM	214.4	3.8
5/23/2019	4:07:39 PM	214.3	3.7
5/23/2019	4:07:40 PM	214.3	3.7
5/23/2019	4:07:41 PM	214.2	3.6
5/23/2019	4:07:42 PM	214.2	3.6
5/23/2019	4:07:43 PM	214.1	3.5
5/23/2019	4:07:44 PM	214.1	3.5
5/23/2019	4:07:45 PM	214.0	3.4
5/23/2019	4:07:46 PM	214.0	3.4
5/23/2019	4:07:47 PM	213.9	3.3
5/23/2019	4:07:48 PM	213.9	3.3
5/23/2019	4:07:49 PM	213.8	3.2
5/23/2019	4:07:50 PM	213.8	3.2
5/23/2019	4:07:51 PM	213.8	3.2
5/23/2019	4:07:52 PM	213.7	3.1
5/23/2019	4:07:53 PM	213.7	3.1
5/23/2019	4:07:54 PM	213.6	3.0
5/23/2019	4:07:55 PM	213.6	3.0
5/23/2019	4:07:56 PM	213.5	2.9
5/23/2019	4:07:57 PM	213.5	2.9
5/23/2019	4:07:58 PM	213.4	2.8
5/23/2019	4:07:59 PM	213.4	2.8
5/23/2019	4:08:00 PM	213.3	2.7
5/23/2019	4:08:01 PM	213.3	2.7
5/23/2019	4:08:02 PM	213.3	2.7

APPENDIX E29: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 MAY
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A3 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A3 TEST-3	1504	208.8	19.1
SEEP-A3 TEST-3	1504	211.0	18.9
SEEP-A3 TEST-3	1505	210.0	19
SEEP-A3 TEST-3	1506	208.3	19
Average		209.5	(µS/cms)
Geo Mean		209.5	(µS/cms)
Average (pre-test)		210.6	(µS/cms)
Average (post-test)		216.1	(µS/cms)

Table E3 SEEP-A3 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A3 TEST-3	1	48.7	26.6
SEEP-A3 TEST-3	10	181	26.9
SEEP-A3 TEST-3	100	450	27.1
SEEP-A3 TEST-3	1,000	3,464	27.5
SEEP-A3 TEST-3	10000	15,648	27.4
SEEP-A3 TEST-3	100,000	127,541	27.5

Table E4 SEEP-A3 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,100	mg
Slope of Calibration Curve	K	1.2785	µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(EC t-ECbkg)	135,637.8	(s) . (µS/cms)
Calculated Flow Rate	Q	2.8	L/s
		44.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E30: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-4 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:01:18 PM	211.6	-
5/23/2019	4:01:19 PM	211.5	-
5/23/2019	4:01:20 PM	211.3	-
5/23/2019	4:01:21 PM	211.2	-
5/23/2019	4:01:22 PM	211.1	-
5/23/2019	4:01:23 PM	211.0	-
5/23/2019	4:01:24 PM	211.0	-
5/23/2019	4:01:25 PM	210.9	-
5/23/2019	4:01:26 PM	210.8	-
5/23/2019	4:01:27 PM	210.8	-
5/23/2019	4:01:28 PM	210.6	-
5/23/2019	4:01:29 PM	210.5	-
5/23/2019	4:01:30 PM	210.3	-
5/23/2019	4:01:31 PM	210.1	-
5/23/2019	4:01:32 PM	210.1	-
5/23/2019	4:01:33 PM	210.1	-
5/23/2019	4:01:34 PM	210.1	-
5/23/2019	4:01:35 PM	210.1	-
5/23/2019	4:01:36 PM	210.1	-
5/23/2019	4:01:37 PM	210.2	-
5/23/2019	4:01:38 PM	210.2	-
5/23/2019	4:01:39 PM	210.2	-
5/23/2019	4:01:40 PM	210.2	-
5/23/2019	4:01:41 PM	210.3	-
5/23/2019	4:01:42 PM	210.3	-
5/23/2019	4:01:43 PM	210.4	-
5/23/2019	4:01:44 PM	210.4	-
5/23/2019	4:01:45 PM	210.5	-
5/23/2019	4:01:46 PM	210.7	-
5/23/2019	4:01:47 PM	211.0	-
5/23/2019	4:01:48 PM	262.8	52.2
5/23/2019	4:01:49 PM	313.4	102.8
5/23/2019	4:01:50 PM	402.8	192.2
5/23/2019	4:01:51 PM	478.0	267.4
5/23/2019	4:01:52 PM	744.1	533.5
5/23/2019	4:01:53 PM	1238.5	1027.9
5/23/2019	4:01:54 PM	1465.2	1254.6
5/23/2019	4:01:55 PM	1802.7	1592.1
5/23/2019	4:01:56 PM	2263.8	2053.2
5/23/2019	4:01:57 PM	2460.5	2249.9
5/23/2019	4:01:58 PM	3201.8	2991.2
5/23/2019	4:01:59 PM	3522.9	3312.3
5/23/2019	4:02:00 PM	4012.3	3801.7
5/23/2019	4:02:01 PM	4136.4	3925.8
5/23/2019	4:02:02 PM	4284.7	4074.1
5/23/2019	4:02:03 PM	4253.1	4042.5
5/23/2019	4:02:04 PM	4251.8	4041.2
5/23/2019	4:02:05 PM	4245.4	4034.8
5/23/2019	4:02:06 PM	4237.7	4027.1
5/23/2019	4:02:07 PM	4219.8	4009.2
5/23/2019	4:02:08 PM	4195.2	3984.6
5/23/2019	4:02:09 PM	3854.4	3643.8
5/23/2019	4:02:10 PM	3784.5	3573.9
5/23/2019	4:02:11 PM	3636.8	3426.2
5/23/2019	4:02:12 PM	3623.0	3412.4
5/23/2019	4:02:13 PM	3334.8	3124.2
5/23/2019	4:02:14 PM	3248.7	3038.1
5/23/2019	4:02:15 PM	3139.4	2928.8
5/23/2019	4:02:16 PM	3019.9	2809.3
5/23/2019	4:02:17 PM	2974.2	2763.6
5/23/2019	4:02:18 PM	2905.6	2695.0
5/23/2019	4:02:19 PM	2603.6	2393.0
5/23/2019	4:02:20 PM	2515.4	2304.8
5/23/2019	4:02:21 PM	2350.4	2139.8
5/23/2019	4:02:22 PM	2289.0	2078.4
5/23/2019	4:02:23 PM	2053.0	1842.4
5/23/2019	4:02:24 PM	1887.5	1676.9
5/23/2019	4:02:25 PM	1814.3	1603.7
5/23/2019	4:02:26 PM	1693.5	1482.9
5/23/2019	4:02:27 PM	1644.4	1433.8

APPENDIX E30: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-4 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:02:28 PM	1484.0	1273.4
5/23/2019	4:02:29 PM	1394.9	1184.3
5/23/2019	4:02:30 PM	1278.2	1067.6
5/23/2019	4:02:31 PM	1238.0	1027.4
5/23/2019	4:02:32 PM	1196.3	985.7
5/23/2019	4:02:33 PM	1169.2	958.6
5/23/2019	4:02:34 PM	1065.6	855.0
5/23/2019	4:02:35 PM	1010.1	799.5
5/23/2019	4:02:36 PM	960.5	749.9
5/23/2019	4:02:37 PM	948.0	737.4
5/23/2019	4:02:38 PM	932.7	722.1
5/23/2019	4:02:39 PM	913.3	702.7
5/23/2019	4:02:40 PM	830.2	619.6
5/23/2019	4:02:41 PM	792.1	581.5
5/23/2019	4:02:42 PM	779.7	569.1
5/23/2019	4:02:43 PM	755.1	544.5
5/23/2019	4:02:44 PM	732.0	521.4
5/23/2019	4:02:45 PM	713.7	503.1
5/23/2019	4:02:46 PM	655.9	445.3
5/23/2019	4:02:47 PM	655.7	445.1
5/23/2019	4:02:48 PM	600.9	390.3
5/23/2019	4:02:49 PM	602.1	391.5
5/23/2019	4:02:50 PM	597.1	386.5
5/23/2019	4:02:51 PM	589.1	378.5
5/23/2019	4:02:52 PM	583.8	373.2
5/23/2019	4:02:53 PM	577.5	366.9
5/23/2019	4:02:54 PM	572.4	361.8
5/23/2019	4:02:55 PM	566.5	355.9
5/23/2019	4:02:56 PM	561.6	351.0
5/23/2019	4:02:57 PM	556.7	346.1
5/23/2019	4:02:58 PM	552.3	341.7
5/23/2019	4:02:59 PM	503.3	292.7
5/23/2019	4:03:00 PM	493.3	282.7
5/23/2019	4:03:01 PM	486.5	275.9
5/23/2019	4:03:02 PM	482.4	271.8
5/23/2019	4:03:03 PM	477.7	267.1
5/23/2019	4:03:04 PM	472.4	261.8
5/23/2019	4:03:05 PM	468.3	257.7
5/23/2019	4:03:06 PM	464.7	254.1
5/23/2019	4:03:07 PM	461.3	250.7
5/23/2019	4:03:08 PM	458.1	247.5
5/23/2019	4:03:09 PM	455.3	244.7
5/23/2019	4:03:10 PM	452.4	241.8
5/23/2019	4:03:11 PM	449.7	239.1
5/23/2019	4:03:12 PM	446.6	236.0
5/23/2019	4:03:13 PM	444.1	233.5
5/23/2019	4:03:14 PM	441.2	230.6
5/23/2019	4:03:15 PM	438.4	227.8
5/23/2019	4:03:16 PM	432.4	221.8
5/23/2019	4:03:17 PM	427.5	216.9
5/23/2019	4:03:18 PM	422.0	211.4
5/23/2019	4:03:19 PM	417.2	206.6
5/23/2019	4:03:20 PM	411.7	201.1
5/23/2019	4:03:21 PM	406.7	196.1
5/23/2019	4:03:22 PM	401.3	190.7
5/23/2019	4:03:23 PM	396.1	185.5
5/23/2019	4:03:24 PM	391.8	181.2
5/23/2019	4:03:25 PM	387.1	176.5
5/23/2019	4:03:26 PM	383.1	172.5
5/23/2019	4:03:27 PM	378.6	168.0
5/23/2019	4:03:28 PM	374.7	164.1
5/23/2019	4:03:29 PM	370.4	159.8
5/23/2019	4:03:30 PM	366.8	156.2
5/23/2019	4:03:31 PM	362.8	152.2
5/23/2019	4:03:32 PM	359.6	149.0
5/23/2019	4:03:33 PM	356.4	145.8
5/23/2019	4:03:34 PM	353.7	143.1
5/23/2019	4:03:35 PM	350.8	140.2
5/23/2019	4:03:36 PM	348.2	137.6
5/23/2019	4:03:37 PM	345.4	134.8
5/23/2019	4:03:38 PM	343.0	132.4
5/23/2019	4:03:39 PM	340.4	129.8
5/23/2019	4:03:40 PM	338.1	127.5
5/23/2019	4:03:41 PM	335.8	125.2
5/23/2019	4:03:42 PM	333.7	123.1
5/23/2019	4:03:43 PM	331.9	121.3
5/23/2019	4:03:44 PM	330.1	119.5

APPENDIX E30: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-4 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:03:45 PM	328.4	117.8
5/23/2019	4:03:46 PM	326.6	116.0
5/23/2019	4:03:47 PM	325.0	114.4
5/23/2019	4:03:48 PM	323.2	112.6
5/23/2019	4:03:49 PM	321.5	110.9
5/23/2019	4:03:50 PM	319.7	109.1
5/23/2019	4:03:51 PM	318.2	107.6
5/23/2019	4:03:52 PM	316.4	105.8
5/23/2019	4:03:53 PM	314.9	104.3
5/23/2019	4:03:54 PM	313.1	102.5
5/23/2019	4:03:55 PM	311.4	100.8
5/23/2019	4:03:56 PM	309.4	98.8
5/23/2019	4:03:57 PM	307.7	97.1
5/23/2019	4:03:58 PM	305.8	95.2
5/23/2019	4:03:59 PM	304.2	93.6
5/23/2019	4:04:00 PM	302.4	91.8
5/23/2019	4:04:01 PM	300.8	90.2
5/23/2019	4:04:02 PM	299.2	88.6
5/23/2019	4:04:03 PM	297.6	87.0
5/23/2019	4:04:04 PM	296.2	85.6
5/23/2019	4:04:05 PM	294.7	84.1
5/23/2019	4:04:06 PM	293.3	82.7
5/23/2019	4:04:07 PM	291.8	81.2
5/23/2019	4:04:08 PM	290.6	80.0
5/23/2019	4:04:09 PM	289.3	78.7
5/23/2019	4:04:10 PM	288.3	77.7
5/23/2019	4:04:11 PM	287.0	76.4
5/23/2019	4:04:12 PM	285.8	75.2
5/23/2019	4:04:13 PM	284.5	73.9
5/23/2019	4:04:14 PM	283.4	72.8
5/23/2019	4:04:15 PM	282.1	71.5
5/23/2019	4:04:16 PM	281.0	70.4
5/23/2019	4:04:17 PM	279.7	69.1
5/23/2019	4:04:18 PM	278.7	68.1
5/23/2019	4:04:19 PM	277.5	66.9
5/23/2019	4:04:20 PM	276.4	65.8
5/23/2019	4:04:21 PM	275.2	64.6
5/23/2019	4:04:22 PM	274.1	63.5
5/23/2019	4:04:23 PM	272.9	62.3
5/23/2019	4:04:24 PM	271.8	61.2
5/23/2019	4:04:25 PM	270.8	60.2
5/23/2019	4:04:26 PM	269.8	59.2
5/23/2019	4:04:27 PM	268.9	58.3
5/23/2019	4:04:28 PM	267.9	57.3
5/23/2019	4:04:29 PM	267.0	56.4
5/23/2019	4:04:30 PM	266.0	55.4
5/23/2019	4:04:31 PM	265.1	54.5
5/23/2019	4:04:32 PM	264.1	53.5
5/23/2019	4:04:33 PM	263.3	52.7
5/23/2019	4:04:34 PM	262.4	51.8
5/23/2019	4:04:35 PM	261.5	50.9
5/23/2019	4:04:36 PM	260.7	50.1
5/23/2019	4:04:37 PM	259.9	49.3
5/23/2019	4:04:38 PM	259.1	48.5
5/23/2019	4:04:39 PM	258.3	47.7
5/23/2019	4:04:40 PM	257.5	46.9
5/23/2019	4:04:41 PM	256.7	46.1
5/23/2019	4:04:42 PM	255.9	45.3
5/23/2019	4:04:43 PM	255.1	44.5
5/23/2019	4:04:44 PM	254.4	43.8
5/23/2019	4:04:45 PM	253.6	43.0
5/23/2019	4:04:46 PM	253.0	42.4
5/23/2019	4:04:47 PM	252.3	41.7
5/23/2019	4:04:48 PM	251.7	41.1
5/23/2019	4:04:49 PM	251.1	40.5
5/23/2019	4:04:50 PM	250.5	39.9
5/23/2019	4:04:51 PM	249.9	39.3
5/23/2019	4:04:52 PM	249.3	38.7
5/23/2019	4:04:53 PM	248.8	38.2
5/23/2019	4:04:54 PM	248.3	37.7
5/23/2019	4:04:55 PM	247.7	37.1
5/23/2019	4:04:56 PM	247.2	36.6
5/23/2019	4:04:57 PM	246.7	36.1
5/23/2019	4:04:58 PM	246.2	35.6
5/23/2019	4:04:59 PM	245.6	35.0
5/23/2019	4:05:00 PM	245.2	34.6
5/23/2019	4:05:01 PM	244.6	34.0
5/23/2019	4:05:02 PM	244.2	33.6
5/23/2019	4:05:03 PM	243.8	33.2

APPENDIX E30: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-4 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:05:04 PM	243.2	32.6
5/23/2019	4:05:05 PM	242.8	32.2
5/23/2019	4:05:06 PM	242.2	31.6
5/23/2019	4:05:07 PM	241.7	31.1
5/23/2019	4:05:08 PM	241.2	30.6
5/23/2019	4:05:09 PM	240.8	30.2
5/23/2019	4:05:10 PM	240.3	29.7
5/23/2019	4:05:11 PM	239.8	29.2
5/23/2019	4:05:12 PM	239.3	28.7
5/23/2019	4:05:13 PM	238.8	28.2
5/23/2019	4:05:14 PM	238.3	27.7
5/23/2019	4:05:15 PM	237.9	27.3
5/23/2019	4:05:16 PM	237.4	26.8
5/23/2019	4:05:17 PM	237.0	26.4
5/23/2019	4:05:18 PM	236.5	25.9
5/23/2019	4:05:19 PM	236.1	25.5
5/23/2019	4:05:20 PM	235.7	25.1
5/23/2019	4:05:21 PM	235.4	24.8
5/23/2019	4:05:22 PM	235.0	24.4
5/23/2019	4:05:23 PM	234.7	24.1
5/23/2019	4:05:24 PM	234.4	23.8
5/23/2019	4:05:25 PM	234.1	23.5
5/23/2019	4:05:26 PM	233.8	23.2
5/23/2019	4:05:27 PM	233.5	22.9
5/23/2019	4:05:28 PM	233.2	22.6
5/23/2019	4:05:29 PM	233.0	22.4
5/23/2019	4:05:30 PM	232.6	22.0
5/23/2019	4:05:31 PM	232.4	21.8
5/23/2019	4:05:32 PM	232.0	21.4
5/23/2019	4:05:33 PM	231.8	21.2
5/23/2019	4:05:34 PM	231.5	20.9
5/23/2019	4:05:35 PM	231.1	20.5
5/23/2019	4:05:36 PM	230.9	20.3
5/23/2019	4:05:37 PM	230.7	20.1
5/23/2019	4:05:38 PM	230.4	19.8
5/23/2019	4:05:39 PM	230.1	19.5
5/23/2019	4:05:40 PM	229.8	19.2
5/23/2019	4:05:41 PM	229.6	19.0
5/23/2019	4:05:42 PM	229.3	18.7
5/23/2019	4:05:43 PM	229.0	18.4
5/23/2019	4:05:44 PM	228.7	18.1
5/23/2019	4:05:45 PM	228.5	17.9
5/23/2019	4:05:46 PM	228.3	17.7
5/23/2019	4:05:47 PM	228.0	17.4
5/23/2019	4:05:48 PM	227.8	17.2
5/23/2019	4:05:49 PM	227.6	17.0
5/23/2019	4:05:50 PM	227.3	16.7
5/23/2019	4:05:51 PM	227.1	16.5
5/23/2019	4:05:52 PM	226.9	16.3
5/23/2019	4:05:53 PM	226.7	16.1
5/23/2019	4:05:54 PM	226.5	15.9
5/23/2019	4:05:55 PM	226.3	15.7
5/23/2019	4:05:56 PM	226.1	15.5
5/23/2019	4:05:57 PM	225.9	15.3
5/23/2019	4:05:58 PM	225.7	15.1
5/23/2019	4:05:59 PM	225.5	14.9
5/23/2019	4:06:00 PM	225.3	14.7
5/23/2019	4:06:01 PM	225.1	14.5
5/23/2019	4:06:02 PM	224.9	14.3
5/23/2019	4:06:03 PM	224.7	14.1
5/23/2019	4:06:04 PM	224.5	13.9
5/23/2019	4:06:05 PM	224.3	13.7
5/23/2019	4:06:06 PM	224.2	13.6
5/23/2019	4:06:07 PM	224.0	13.4
5/23/2019	4:06:08 PM	223.8	13.2
5/23/2019	4:06:09 PM	223.7	13.1
5/23/2019	4:06:10 PM	223.5	12.9
5/23/2019	4:06:11 PM	223.3	12.7
5/23/2019	4:06:12 PM	223.1	12.5
5/23/2019	4:06:13 PM	222.9	12.3
5/23/2019	4:06:14 PM	222.7	12.1
5/23/2019	4:06:15 PM	222.6	12.0
5/23/2019	4:06:16 PM	222.4	11.8
5/23/2019	4:06:17 PM	222.2	11.6
5/23/2019	4:06:18 PM	222.0	11.4
5/23/2019	4:06:19 PM	221.9	11.3
5/23/2019	4:06:20 PM	221.7	11.1
5/23/2019	4:06:21 PM	221.5	10.9
5/23/2019	4:06:22 PM	221.3	10.7

APPENDIX E30: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-4 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:06:23 PM	221.1	10.5
5/23/2019	4:06:24 PM	220.9	10.3
5/23/2019	4:06:25 PM	220.8	10.2
5/23/2019	4:06:26 PM	220.6	10.0
5/23/2019	4:06:27 PM	220.4	9.8
5/23/2019	4:06:28 PM	220.3	9.7
5/23/2019	4:06:29 PM	220.1	9.5
5/23/2019	4:06:30 PM	220.0	9.4
5/23/2019	4:06:31 PM	219.8	9.2
5/23/2019	4:06:32 PM	219.7	9.1
5/23/2019	4:06:33 PM	219.6	9.0
5/23/2019	4:06:34 PM	219.5	8.9
5/23/2019	4:06:35 PM	219.4	8.8
5/23/2019	4:06:36 PM	219.4	8.8
5/23/2019	4:06:37 PM	219.3	8.7
5/23/2019	4:06:38 PM	219.2	8.6
5/23/2019	4:06:39 PM	219.1	8.5
5/23/2019	4:06:40 PM	219.0	8.4
5/23/2019	4:06:41 PM	219.0	8.4
5/23/2019	4:06:42 PM	218.9	8.3
5/23/2019	4:06:43 PM	218.7	8.1
5/23/2019	4:06:44 PM	218.6	8.0
5/23/2019	4:06:45 PM	218.5	7.9
5/23/2019	4:06:46 PM	218.4	7.8
5/23/2019	4:06:47 PM	218.3	7.7
5/23/2019	4:06:48 PM	218.2	7.6
5/23/2019	4:06:49 PM	218.1	7.5
5/23/2019	4:06:50 PM	218.0	7.4
5/23/2019	4:06:51 PM	217.9	7.3
5/23/2019	4:06:52 PM	217.8	7.2
5/23/2019	4:06:53 PM	217.7	7.1
5/23/2019	4:06:54 PM	217.6	7.0
5/23/2019	4:06:55 PM	217.5	6.9
5/23/2019	4:06:56 PM	217.5	6.9
5/23/2019	4:06:57 PM	217.4	6.8
5/23/2019	4:06:58 PM	217.3	6.7
5/23/2019	4:06:59 PM	217.2	6.6
5/23/2019	4:07:00 PM	217.1	6.5
5/23/2019	4:07:01 PM	217.0	6.4
5/23/2019	4:07:02 PM	217.0	6.4
5/23/2019	4:07:03 PM	216.9	6.3
5/23/2019	4:07:04 PM	216.8	6.2
5/23/2019	4:07:05 PM	216.7	6.1
5/23/2019	4:07:06 PM	216.7	6.1
5/23/2019	4:07:07 PM	216.6	6.0
5/23/2019	4:07:08 PM	216.5	5.9
5/23/2019	4:07:09 PM	216.5	5.9
5/23/2019	4:07:10 PM	216.4	5.8
5/23/2019	4:07:11 PM	216.3	5.7
5/23/2019	4:07:12 PM	216.2	5.6
5/23/2019	4:07:13 PM	216.1	5.5
5/23/2019	4:07:14 PM	216.0	5.4
5/23/2019	4:07:15 PM	216.0	5.4
5/23/2019	4:07:16 PM	215.9	5.3
5/23/2019	4:07:17 PM	215.8	5.2
5/23/2019	4:07:18 PM	215.7	5.1
5/23/2019	4:07:19 PM	215.7	5.1
5/23/2019	4:07:20 PM	215.6	5.0
5/23/2019	4:07:21 PM	215.5	4.9
5/23/2019	4:07:22 PM	215.4	4.8
5/23/2019	4:07:23 PM	215.4	4.8
5/23/2019	4:07:24 PM	215.3	4.7
5/23/2019	4:07:25 PM	215.3	4.7
5/23/2019	4:07:26 PM	215.2	4.6
5/23/2019	4:07:27 PM	215.2	4.6
5/23/2019	4:07:28 PM	215.1	4.5
5/23/2019	4:07:29 PM	215.0	4.4
5/23/2019	4:07:30 PM	215.0	4.4
5/23/2019	4:07:31 PM	214.9	4.3
5/23/2019	4:07:32 PM	214.8	4.2
5/23/2019	4:07:33 PM	214.8	4.2
5/23/2019	4:07:34 PM	214.7	4.1
5/23/2019	4:07:35 PM	214.6	4.0
5/23/2019	4:07:36 PM	214.5	3.9
5/23/2019	4:07:37 PM	214.5	3.9
5/23/2019	4:07:38 PM	214.4	3.8
5/23/2019	4:07:39 PM	214.3	3.7
5/23/2019	4:07:40 PM	214.3	3.7
5/23/2019	4:07:41 PM	214.2	3.6

APPENDIX E30: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-4 MAY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/23/2019	4:07:42 PM	214.2	3.6
5/23/2019	4:07:43 PM	214.1	3.5
5/23/2019	4:07:44 PM	214.1	3.5
5/23/2019	4:07:45 PM	214.0	3.4
5/23/2019	4:07:46 PM	214.0	3.4
5/23/2019	4:07:47 PM	213.9	3.3
5/23/2019	4:07:48 PM	213.9	3.3
5/23/2019	4:07:49 PM	213.8	3.2
5/23/2019	4:07:50 PM	213.8	3.2
5/23/2019	4:07:51 PM	213.8	3.2
5/23/2019	4:07:52 PM	213.7	3.1
5/23/2019	4:07:53 PM	213.7	3.1
5/23/2019	4:07:54 PM	213.6	3.0
5/23/2019	4:07:55 PM	213.6	3.0
5/23/2019	4:07:56 PM	213.5	2.9
5/23/2019	4:07:57 PM	213.5	2.9
5/23/2019	4:07:58 PM	213.4	2.8
5/23/2019	4:07:59 PM	213.4	2.8
5/23/2019	4:08:00 PM	213.3	2.7
5/23/2019	4:08:01 PM	213.3	2.7
5/23/2019	4:08:02 PM	213.3	2.7

APPENDIX E30: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-4 MAY
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A3 TEST-4 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A3 TEST-4	1504	208.8	19.1
SEEP-A3 TEST-4	1504	211.0	18.9
SEEP-A3 TEST-4	1505	210.0	19
SEEP-A3 TEST-4	1506	208.3	19
Average		209.5	(µS/cms)
Geo Mean		209.5	(µS/cms)
Average (pre-test)		210.6	(µS/cms)
Average (post-test)		216.1	(µS/cms)

Table E3 SEEP-A3 TEST-4 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A3 TEST-4	1	48.7	26.6
SEEP-A3 TEST-4	10	181	26.9
SEEP-A3 TEST-4	100	450	27.1
SEEP-A3 TEST-4	1,000	3,464	27.5
SEEP-A3 TEST-4	10000	15,648	27.4
SEEP-A3 TEST-4	100,000	127,541	27.5

Table E4 SEEP-A3 TEST-4 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.2785	µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(EC t-ECbkg)	136,609.0	(s) . (µS/cms)
Calculated Flow Rate	Q	2.8	L/s
		44.6	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E31: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:55:18 PM	214.4	-
6/7/2019	12:55:19 PM	210.8	-
6/7/2019	12:55:20 PM	209.6	-
6/7/2019	12:55:21 PM	208.5	-
6/7/2019	12:55:22 PM	207.9	-
6/7/2019	12:55:23 PM	207.4	-
6/7/2019	12:55:24 PM	207.1	-
6/7/2019	12:55:25 PM	206.7	-
6/7/2019	12:55:26 PM	206.3	-
6/7/2019	12:55:27 PM	206.2	-
6/7/2019	12:55:28 PM	205.9	-
6/7/2019	12:55:29 PM	205.8	-
6/7/2019	12:55:30 PM	205.6	-
6/7/2019	12:55:31 PM	204.8	-
6/7/2019	12:55:32 PM	204.4	-
6/7/2019	12:55:33 PM	204.2	-
6/7/2019	12:55:34 PM	204.0	-
6/7/2019	12:55:35 PM	204.0	-
6/7/2019	12:55:36 PM	203.9	-
6/7/2019	12:55:37 PM	203.8	-
6/7/2019	12:55:38 PM	203.8	-
6/7/2019	12:55:39 PM	203.7	-
6/7/2019	12:55:40 PM	203.7	-
6/7/2019	12:55:41 PM	203.6	-
6/7/2019	12:55:42 PM	203.6	-
6/7/2019	12:55:43 PM	203.6	-
6/7/2019	12:55:44 PM	261.4	57.3
6/7/2019	12:55:45 PM	475.9	271.9
6/7/2019	12:55:46 PM	2633.0	2428.9
6/7/2019	12:55:47 PM	4051.4	3847.3
6/7/2019	12:55:48 PM	6542.3	6338.2
6/7/2019	12:55:49 PM	9940.7	9736.7
6/7/2019	12:55:50 PM	10413.6	10209.5
6/7/2019	12:55:51 PM	10383.0	10179.0
6/7/2019	12:55:52 PM	9620.2	9416.1
6/7/2019	12:55:53 PM	9076.6	8872.5
6/7/2019	12:55:54 PM	7480.7	7276.6
6/7/2019	12:55:55 PM	6783.4	6579.3
6/7/2019	12:55:56 PM	5713.1	5509.1
6/7/2019	12:55:57 PM	4956.8	4752.7
6/7/2019	12:55:58 PM	4180.2	3976.2
6/7/2019	12:55:59 PM	3678.0	3473.9
6/7/2019	12:56:00 PM	3265.8	3061.7
6/7/2019	12:56:01 PM	2814.1	2610.0
6/7/2019	12:56:02 PM	2599.3	2395.3
6/7/2019	12:56:03 PM	2288.5	2084.4
6/7/2019	12:56:04 PM	2099.8	1895.8
6/7/2019	12:56:05 PM	2084.6	1880.5
6/7/2019	12:56:06 PM	1877.0	1672.9
6/7/2019	12:56:07 PM	1676.3	1472.2
6/7/2019	12:56:08 PM	1465.8	1261.8
6/7/2019	12:56:09 PM	1443.7	1239.6
6/7/2019	12:56:10 PM	1396.1	1192.1
6/7/2019	12:56:11 PM	1208.4	1004.3
6/7/2019	12:56:12 PM	998.4	794.3
6/7/2019	12:56:13 PM	933.9	729.8
6/7/2019	12:56:14 PM	934.2	730.2
6/7/2019	12:56:15 PM	927.1	723.0
6/7/2019	12:56:16 PM	754.9	550.8
6/7/2019	12:56:17 PM	751.2	547.2
6/7/2019	12:56:18 PM	671.2	467.1
6/7/2019	12:56:19 PM	675.3	471.2
6/7/2019	12:56:20 PM	668.3	464.2
6/7/2019	12:56:21 PM	666.1	462.1
6/7/2019	12:56:22 PM	527.1	323.0
6/7/2019	12:56:23 PM	538.2	334.2
6/7/2019	12:56:24 PM	523.3	319.2
6/7/2019	12:56:25 PM	524.3	320.2
6/7/2019	12:56:26 PM	525.3	321.2
6/7/2019	12:56:27 PM	456.9	252.9

APPENDIX E31: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:56:28 PM	430.6	226.5
6/7/2019	12:56:29 PM	430.4	226.4
6/7/2019	12:56:30 PM	413.9	209.8
6/7/2019	12:56:31 PM	400.6	196.5
6/7/2019	12:56:32 PM	398.0	193.9
6/7/2019	12:56:33 PM	389.9	185.9
6/7/2019	12:56:34 PM	382.3	178.2
6/7/2019	12:56:35 PM	376.8	172.8
6/7/2019	12:56:36 PM	371.5	167.4
6/7/2019	12:56:37 PM	367.5	163.4
6/7/2019	12:56:38 PM	310.8	106.7
6/7/2019	12:56:39 PM	336.1	132.0
6/7/2019	12:56:40 PM	310.8	106.8
6/7/2019	12:56:41 PM	303.2	99.1
6/7/2019	12:56:42 PM	298.3	94.3
6/7/2019	12:56:43 PM	291.9	87.8
6/7/2019	12:56:44 PM	292.0	87.9
6/7/2019	12:56:45 PM	292.4	88.3
6/7/2019	12:56:46 PM	292.1	88.1
6/7/2019	12:56:47 PM	291.4	87.3
6/7/2019	12:56:48 PM	288.6	84.6
6/7/2019	12:56:49 PM	286.2	82.1
6/7/2019	12:56:50 PM	283.9	79.8
6/7/2019	12:56:51 PM	281.6	77.5
6/7/2019	12:56:52 PM	279.4	75.4
6/7/2019	12:56:53 PM	277.9	73.8
6/7/2019	12:56:54 PM	275.4	71.4
6/7/2019	12:56:55 PM	272.8	68.7
6/7/2019	12:56:56 PM	270.0	65.9
6/7/2019	12:56:57 PM	266.1	62.0
6/7/2019	12:56:58 PM	263.2	59.1
6/7/2019	12:56:59 PM	259.8	55.8
6/7/2019	12:57:00 PM	256.0	51.9
6/7/2019	12:57:01 PM	254.1	50.1
6/7/2019	12:57:02 PM	253.0	48.9
6/7/2019	12:57:03 PM	251.3	47.2
6/7/2019	12:57:04 PM	248.8	44.7
6/7/2019	12:57:05 PM	247.9	43.9
6/7/2019	12:57:06 PM	245.7	41.6
6/7/2019	12:57:07 PM	245.1	41.1
6/7/2019	12:57:08 PM	242.5	38.4
6/7/2019	12:57:09 PM	241.1	37.0
6/7/2019	12:57:10 PM	240.1	36.0
6/7/2019	12:57:11 PM	238.8	34.8
6/7/2019	12:57:12 PM	238.4	34.3
6/7/2019	12:57:13 PM	238.3	34.3
6/7/2019	12:57:14 PM	237.6	33.5
6/7/2019	12:57:15 PM	236.5	32.4
6/7/2019	12:57:16 PM	235.9	31.8
6/7/2019	12:57:17 PM	235.1	31.0
6/7/2019	12:57:18 PM	234.3	30.3
6/7/2019	12:57:19 PM	233.6	29.5
6/7/2019	12:57:20 PM	232.4	28.4
6/7/2019	12:57:21 PM	231.2	27.1
6/7/2019	12:57:22 PM	230.4	26.3
6/7/2019	12:57:23 PM	229.9	25.8
6/7/2019	12:57:24 PM	229.4	25.4
6/7/2019	12:57:25 PM	228.4	24.3
6/7/2019	12:57:26 PM	226.8	22.8
6/7/2019	12:57:27 PM	225.4	21.3
6/7/2019	12:57:28 PM	224.5	20.4
6/7/2019	12:57:29 PM	223.2	19.1
6/7/2019	12:57:30 PM	222.6	18.6
6/7/2019	12:57:31 PM	221.8	17.7
6/7/2019	12:57:32 PM	221.2	17.2
6/7/2019	12:57:33 PM	220.9	16.8
6/7/2019	12:57:34 PM	220.5	16.4
6/7/2019	12:57:35 PM	220.1	16.0
6/7/2019	12:57:36 PM	219.6	15.6
6/7/2019	12:57:37 PM	218.9	14.8
6/7/2019	12:57:38 PM	218.7	14.6
6/7/2019	12:57:39 PM	218.2	14.2
6/7/2019	12:57:40 PM	217.8	13.7
6/7/2019	12:57:41 PM	217.4	13.3
6/7/2019	12:57:42 PM	217.4	13.3
6/7/2019	12:57:43 PM	217.0	13.0
6/7/2019	12:57:44 PM	216.7	12.6

APPENDIX E31: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:57:45 PM	216.4	12.4
6/7/2019	12:57:46 PM	216.1	12.0
6/7/2019	12:57:47 PM	215.7	11.6
6/7/2019	12:57:48 PM	215.6	11.5
6/7/2019	12:57:49 PM	215.4	11.4
6/7/2019	12:57:50 PM	215.2	11.1
6/7/2019	12:57:51 PM	214.9	10.9
6/7/2019	12:57:52 PM	214.6	10.5
6/7/2019	12:57:53 PM	214.6	10.5
6/7/2019	12:57:54 PM	214.4	10.3
6/7/2019	12:57:55 PM	214.2	10.2
6/7/2019	12:57:56 PM	213.8	9.7
6/7/2019	12:57:57 PM	213.6	9.6
6/7/2019	12:57:58 PM	213.5	9.4
6/7/2019	12:57:59 PM	213.2	9.1
6/7/2019	12:58:00 PM	213.2	9.1
6/7/2019	12:58:01 PM	213.0	8.9
6/7/2019	12:58:02 PM	212.9	8.9
6/7/2019	12:58:03 PM	212.7	8.6
6/7/2019	12:58:04 PM	212.7	8.7
6/7/2019	12:58:05 PM	212.7	8.6
6/7/2019	12:58:06 PM	212.6	8.5
6/7/2019	12:58:07 PM	212.5	8.4
6/7/2019	12:58:08 PM	212.4	8.4
6/7/2019	12:58:09 PM	212.4	8.3
6/7/2019	12:58:10 PM	212.3	8.3
6/7/2019	12:58:11 PM	212.1	8.0
6/7/2019	12:58:12 PM	212.0	7.9
6/7/2019	12:58:13 PM	211.8	7.7
6/7/2019	12:58:14 PM	211.7	7.7
6/7/2019	12:58:15 PM	211.6	7.5
6/7/2019	12:58:16 PM	211.3	7.3
6/7/2019	12:58:17 PM	211.2	7.1
6/7/2019	12:58:18 PM	211.0	6.9
6/7/2019	12:58:19 PM	210.9	6.8
6/7/2019	12:58:20 PM	210.7	6.6
6/7/2019	12:58:21 PM	210.6	6.6
6/7/2019	12:58:22 PM	210.3	6.2
6/7/2019	12:58:23 PM	210.2	6.2
6/7/2019	12:58:24 PM	210.2	6.1
6/7/2019	12:58:25 PM	210.2	6.1
6/7/2019	12:58:26 PM	210.1	6.0
6/7/2019	12:58:27 PM	210.1	6.1
6/7/2019	12:58:28 PM	210.0	5.9
6/7/2019	12:58:29 PM	210.0	6.0
6/7/2019	12:58:30 PM	209.9	5.8
6/7/2019	12:58:31 PM	209.8	5.7
6/7/2019	12:58:32 PM	209.7	5.6
6/7/2019	12:58:33 PM	209.6	5.6
6/7/2019	12:58:34 PM	209.6	5.5
6/7/2019	12:58:35 PM	209.6	5.6
6/7/2019	12:58:36 PM	209.5	5.4
6/7/2019	12:58:37 PM	209.5	5.4
6/7/2019	12:58:38 PM	209.4	5.3
6/7/2019	12:58:39 PM	209.3	5.2
6/7/2019	12:58:40 PM	209.2	5.2
6/7/2019	12:58:41 PM	209.1	5.0
6/7/2019	12:58:42 PM	209.1	5.1
6/7/2019	12:58:43 PM	209.0	4.9
6/7/2019	12:58:44 PM	209.0	4.9
6/7/2019	12:58:45 PM	209.0	4.9
6/7/2019	12:58:46 PM	209.1	5.1
6/7/2019	12:58:47 PM	209.0	4.9
6/7/2019	12:58:48 PM	209.0	5.0
6/7/2019	12:58:49 PM	209.0	4.9
6/7/2019	12:58:50 PM	208.9	4.8
6/7/2019	12:58:51 PM	208.8	4.7
6/7/2019	12:58:52 PM	208.8	4.8
6/7/2019	12:58:53 PM	208.8	4.7
6/7/2019	12:58:54 PM	208.8	4.8
6/7/2019	12:58:55 PM	208.7	4.6
6/7/2019	12:58:56 PM	208.6	4.5
6/7/2019	12:58:57 PM	208.6	4.5
6/7/2019	12:58:58 PM	208.5	4.5
6/7/2019	12:58:59 PM	208.5	4.4
6/7/2019	12:59:00 PM	208.4	4.3
6/7/2019	12:59:01 PM	208.3	4.3
6/7/2019	12:59:02 PM	208.3	4.2
6/7/2019	12:59:03 PM	208.1	4.0

APPENDIX E31: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:59:04 PM	207.9	3.8
6/7/2019	12:59:05 PM	207.9	3.9
6/7/2019	12:59:06 PM	207.8	3.7
6/7/2019	12:59:07 PM	207.7	3.7
6/7/2019	12:59:08 PM	207.6	3.5
6/7/2019	12:59:09 PM	207.5	3.4
6/7/2019	12:59:10 PM	207.4	3.3
6/7/2019	12:59:11 PM	207.3	3.3
6/7/2019	12:59:12 PM	207.1	3.0
6/7/2019	12:59:13 PM	207.1	3.1
6/7/2019	12:59:14 PM	207.0	2.9
6/7/2019	12:59:15 PM	206.9	2.8
6/7/2019	12:59:16 PM	206.9	2.8
6/7/2019	12:59:17 PM	206.9	2.9
6/7/2019	12:59:18 PM	206.9	2.8
6/7/2019	12:59:19 PM	206.9	2.9
6/7/2019	12:59:20 PM	206.9	2.8
6/7/2019	12:59:21 PM	206.8	2.7
6/7/2019	12:59:22 PM	206.8	2.7
6/7/2019	12:59:23 PM	206.8	2.7
6/7/2019	12:59:24 PM	206.8	2.8
6/7/2019	12:59:25 PM	206.8	2.7
6/7/2019	12:59:26 PM	206.8	2.8
6/7/2019	12:59:27 PM	206.8	2.7
6/7/2019	12:59:28 PM	206.8	2.7
6/7/2019	12:59:29 PM	206.7	2.6
6/7/2019	12:59:30 PM	206.8	2.8
6/7/2019	12:59:31 PM	206.8	2.7
6/7/2019	12:59:32 PM	206.7	2.7
6/7/2019	12:59:33 PM	206.7	2.6
6/7/2019	12:59:34 PM	206.7	2.6
6/7/2019	12:59:35 PM	206.7	2.6
6/7/2019	12:59:36 PM	206.7	2.7
6/7/2019	12:59:37 PM	206.6	2.5
6/7/2019	12:59:38 PM	206.6	2.6
6/7/2019	12:59:39 PM	206.6	2.5
6/7/2019	12:59:40 PM	206.5	2.4
6/7/2019	12:59:41 PM	206.4	2.3
6/7/2019	12:59:42 PM	206.4	2.3
6/7/2019	12:59:43 PM	206.4	2.4
6/7/2019	12:59:44 PM	206.4	2.3
6/7/2019	12:59:45 PM	206.3	2.3
6/7/2019	12:59:46 PM	206.4	2.3
6/7/2019	12:59:47 PM	206.4	2.3
6/7/2019	12:59:48 PM	206.4	2.3
6/7/2019	12:59:49 PM	206.4	2.4
6/7/2019	12:59:50 PM	206.4	2.3
6/7/2019	12:59:51 PM	206.4	2.4
6/7/2019	12:59:52 PM	206.4	2.3
6/7/2019	12:59:53 PM	206.5	2.4
6/7/2019	12:59:54 PM	206.5	2.4
6/7/2019	12:59:55 PM	206.5	2.5
6/7/2019	12:59:56 PM	206.5	2.4
6/7/2019	12:59:57 PM	206.4	2.4
6/7/2019	12:59:58 PM	206.4	2.3
6/7/2019	12:59:59 PM	206.4	2.3
6/7/2019	1:00:00 PM	206.3	2.2
6/7/2019	1:00:01 PM	206.2	2.1
6/7/2019	1:00:02 PM	206.2	2.2
6/7/2019	1:00:03 PM	206.2	2.1
6/7/2019	1:00:04 PM	206.2	2.2
6/7/2019	1:00:05 PM	206.2	2.1
6/7/2019	1:00:06 PM	206.1	2.0
6/7/2019	1:00:07 PM	206.1	2.0
6/7/2019	1:00:08 PM	206.1	2.1
6/7/2019	1:00:09 PM	206.1	2.0
6/7/2019	1:00:10 PM	206.1	2.1
6/7/2019	1:00:11 PM	206.1	2.0
6/7/2019	1:00:12 PM	206.1	2.0
6/7/2019	1:00:13 PM	206.2	2.1
6/7/2019	1:00:14 PM	206.2	2.2

APPENDIX E31: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A3 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A3 TEST-1	1240	198.1	18.6
SEEP-A3 TEST-1	1241	198.4	18.6
SEEP-A3 TEST-1	1243	202.4	18.6
SEEP-A3 TEST-1	1245	201.4	18.6
Average		200.1	(µS/cms)
Geo Mean		200.1	(µS/cms)
Average (pre-test)		204.1	(µS/cms)
Average (post-test)		207.5	(µS/cms)

Table E3 SEEP-A3 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A3 TEST-1	100	245	24.4
SEEP-A3 TEST-1	1,000	2,128	24.3
SEEP-A3 TEST-1	10000	17,684	24.2
SEEP-A3 TEST-1	100,000	128,985	24.2

Table E4 SEEP-A3 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	299,900	mg
Slope of Calibration Curve	K	1.2947	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(EC t-ECbkg)	128,243.4	(s) . (µS/cms)
Calculated Flow Rate	Q	3.0	L/s
		48.1	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E32: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:07:29 PM	211.5	-
6/7/2019	1:07:30 PM	211.5	-
6/7/2019	1:07:31 PM	211.5	-
6/7/2019	1:07:32 PM	211.5	-
6/7/2019	1:07:33 PM	211.5	-
6/7/2019	1:07:34 PM	211.3	-
6/7/2019	1:07:35 PM	211.2	-
6/7/2019	1:07:36 PM	210.9	-
6/7/2019	1:07:37 PM	210.7	-
6/7/2019	1:07:38 PM	210.5	-
6/7/2019	1:07:39 PM	210.3	-
6/7/2019	1:07:40 PM	210.1	-
6/7/2019	1:07:41 PM	209.9	-
6/7/2019	1:07:42 PM	209.7	-
6/7/2019	1:07:43 PM	209.6	-
6/7/2019	1:07:44 PM	209.3	-
6/7/2019	1:07:45 PM	209.2	-
6/7/2019	1:07:46 PM	209.0	-
6/7/2019	1:07:47 PM	208.8	-
6/7/2019	1:07:48 PM	208.6	-
6/7/2019	1:07:49 PM	208.5	-
6/7/2019	1:07:50 PM	208.3	-
6/7/2019	1:07:51 PM	208.1	-
6/7/2019	1:07:52 PM	208.8	-
6/7/2019	1:07:53 PM	732.4	523.4
6/7/2019	1:07:54 PM	3735.8	3526.8
6/7/2019	1:07:55 PM	6061.3	5852.3
6/7/2019	1:07:56 PM	7535.7	7326.7
6/7/2019	1:07:57 PM	8721.8	8512.8
6/7/2019	1:07:58 PM	9028.9	8819.9
6/7/2019	1:07:59 PM	8997.2	8788.2
6/7/2019	1:08:00 PM	8849.9	8640.9
6/7/2019	1:08:01 PM	7387.3	7178.3
6/7/2019	1:08:02 PM	7034.6	6825.6
6/7/2019	1:08:03 PM	5752.9	5543.9
6/7/2019	1:08:04 PM	5409.6	5200.6
6/7/2019	1:08:05 PM	4702.6	4493.6
6/7/2019	1:08:06 PM	4264.2	4055.2
6/7/2019	1:08:07 PM	3739.2	3530.2
6/7/2019	1:08:08 PM	3403.0	3194.0
6/7/2019	1:08:09 PM	3004.4	2795.4
6/7/2019	1:08:10 PM	2816.0	2607.0
6/7/2019	1:08:11 PM	2608.5	2399.5
6/7/2019	1:08:12 PM	2269.7	2060.7
6/7/2019	1:08:13 PM	1989.9	1780.9
6/7/2019	1:08:14 PM	1846.5	1637.5
6/7/2019	1:08:15 PM	1770.7	1561.7
6/7/2019	1:08:16 PM	1551.6	1342.6
6/7/2019	1:08:17 PM	1418.1	1209.1
6/7/2019	1:08:18 PM	1290.8	1081.8
6/7/2019	1:08:19 PM	1154.1	945.1
6/7/2019	1:08:20 PM	1109.0	900.0
6/7/2019	1:08:21 PM	1027.8	818.8
6/7/2019	1:08:22 PM	965.1	756.1
6/7/2019	1:08:23 PM	959.3	750.3
6/7/2019	1:08:24 PM	839.3	630.3
6/7/2019	1:08:25 PM	801.5	592.5
6/7/2019	1:08:26 PM	730.6	521.6
6/7/2019	1:08:27 PM	716.9	507.9
6/7/2019	1:08:28 PM	697.9	488.9
6/7/2019	1:08:29 PM	649.2	440.2
6/7/2019	1:08:30 PM	640.6	431.6
6/7/2019	1:08:31 PM	562.5	353.5
6/7/2019	1:08:32 PM	564.5	355.5
6/7/2019	1:08:33 PM	561.2	352.2
6/7/2019	1:08:34 PM	543.8	334.8
6/7/2019	1:08:35 PM	527.5	318.5
6/7/2019	1:08:36 PM	517.8	308.8
6/7/2019	1:08:37 PM	509.2	300.2
6/7/2019	1:08:38 PM	457.1	248.1

APPENDIX E32: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:08:39 PM	433.1	224.1
6/7/2019	1:08:40 PM	424.7	215.7
6/7/2019	1:08:41 PM	419.5	210.5
6/7/2019	1:08:42 PM	411.5	202.5
6/7/2019	1:08:43 PM	401.9	192.9
6/7/2019	1:08:44 PM	397.8	188.8
6/7/2019	1:08:45 PM	393.1	184.1
6/7/2019	1:08:46 PM	389.3	180.3
6/7/2019	1:08:47 PM	385.6	176.6
6/7/2019	1:08:48 PM	383.8	174.8
6/7/2019	1:08:49 PM	381.8	172.8
6/7/2019	1:08:50 PM	379.9	170.9
6/7/2019	1:08:51 PM	376.8	167.8
6/7/2019	1:08:52 PM	374.0	165.0
6/7/2019	1:08:53 PM	370.7	161.7
6/7/2019	1:08:54 PM	324.6	115.6
6/7/2019	1:08:55 PM	320.8	111.8
6/7/2019	1:08:56 PM	315.3	106.3
6/7/2019	1:08:57 PM	312.4	103.4
6/7/2019	1:08:58 PM	311.6	102.6
6/7/2019	1:08:59 PM	310.2	101.2
6/7/2019	1:09:00 PM	308.9	99.9
6/7/2019	1:09:01 PM	307.6	98.6
6/7/2019	1:09:02 PM	305.8	96.8
6/7/2019	1:09:03 PM	304.2	95.2
6/7/2019	1:09:04 PM	302.6	93.6
6/7/2019	1:09:05 PM	301.4	92.4
6/7/2019	1:09:06 PM	300.2	91.2
6/7/2019	1:09:07 PM	298.8	89.8
6/7/2019	1:09:08 PM	296.5	87.5
6/7/2019	1:09:09 PM	295.4	86.4
6/7/2019	1:09:10 PM	293.7	84.7
6/7/2019	1:09:11 PM	291.0	82.0
6/7/2019	1:09:12 PM	287.9	78.9
6/7/2019	1:09:13 PM	284.8	75.8
6/7/2019	1:09:14 PM	282.3	73.3
6/7/2019	1:09:15 PM	279.6	70.6
6/7/2019	1:09:16 PM	277.5	68.5
6/7/2019	1:09:17 PM	275.0	66.0
6/7/2019	1:09:18 PM	272.6	63.6
6/7/2019	1:09:19 PM	270.0	61.0
6/7/2019	1:09:20 PM	268.1	59.1
6/7/2019	1:09:21 PM	266.2	57.2
6/7/2019	1:09:22 PM	264.6	55.6
6/7/2019	1:09:23 PM	262.8	53.8
6/7/2019	1:09:24 PM	261.3	52.3
6/7/2019	1:09:25 PM	260.0	51.0
6/7/2019	1:09:26 PM	259.0	50.0
6/7/2019	1:09:27 PM	257.8	48.8
6/7/2019	1:09:28 PM	256.6	47.6
6/7/2019	1:09:29 PM	255.2	46.2
6/7/2019	1:09:30 PM	254.3	45.3
6/7/2019	1:09:31 PM	253.0	44.0
6/7/2019	1:09:32 PM	251.6	42.6
6/7/2019	1:09:33 PM	250.2	41.2
6/7/2019	1:09:34 PM	248.7	39.7
6/7/2019	1:09:35 PM	247.3	38.3
6/7/2019	1:09:36 PM	245.6	36.6
6/7/2019	1:09:37 PM	244.2	35.2
6/7/2019	1:09:38 PM	242.6	33.6
6/7/2019	1:09:39 PM	241.2	32.2
6/7/2019	1:09:40 PM	239.6	30.6
6/7/2019	1:09:41 PM	238.4	29.4
6/7/2019	1:09:42 PM	237.1	28.1
6/7/2019	1:09:43 PM	235.7	26.7
6/7/2019	1:09:44 PM	234.5	25.5
6/7/2019	1:09:45 PM	233.7	24.7
6/7/2019	1:09:46 PM	232.9	23.9
6/7/2019	1:09:47 PM	232.3	23.3
6/7/2019	1:09:48 PM	231.7	22.7
6/7/2019	1:09:49 PM	231.3	22.3
6/7/2019	1:09:50 PM	230.7	21.7
6/7/2019	1:09:51 PM	230.0	21.0
6/7/2019	1:09:52 PM	229.4	20.4
6/7/2019	1:09:53 PM	228.7	19.7
6/7/2019	1:09:54 PM	228.1	19.1
6/7/2019	1:09:55 PM	227.5	18.5

APPENDIX E32: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:09:56 PM	227.1	18.1
6/7/2019	1:09:57 PM	226.7	17.7
6/7/2019	1:09:58 PM	226.3	17.3
6/7/2019	1:09:59 PM	225.8	16.8
6/7/2019	1:10:00 PM	225.4	16.4
6/7/2019	1:10:01 PM	225.0	16.0
6/7/2019	1:10:02 PM	224.7	15.7
6/7/2019	1:10:03 PM	224.2	15.2
6/7/2019	1:10:04 PM	223.9	14.9
6/7/2019	1:10:05 PM	223.6	14.6
6/7/2019	1:10:06 PM	223.2	14.2
6/7/2019	1:10:07 PM	222.7	13.7
6/7/2019	1:10:08 PM	222.3	13.3
6/7/2019	1:10:09 PM	222.0	13.0
6/7/2019	1:10:10 PM	221.7	12.7
6/7/2019	1:10:11 PM	221.3	12.3
6/7/2019	1:10:12 PM	221.1	12.1
6/7/2019	1:10:13 PM	220.7	11.7
6/7/2019	1:10:14 PM	220.3	11.3
6/7/2019	1:10:15 PM	219.9	10.9
6/7/2019	1:10:16 PM	219.5	10.5
6/7/2019	1:10:17 PM	219.1	10.1
6/7/2019	1:10:18 PM	218.7	9.7
6/7/2019	1:10:19 PM	218.4	9.4
6/7/2019	1:10:20 PM	218.2	9.2
6/7/2019	1:10:21 PM	217.9	8.9
6/7/2019	1:10:22 PM	217.6	8.6
6/7/2019	1:10:23 PM	217.5	8.5
6/7/2019	1:10:24 PM	217.2	8.2
6/7/2019	1:10:25 PM	216.9	7.9
6/7/2019	1:10:26 PM	216.6	7.6
6/7/2019	1:10:27 PM	216.4	7.4
6/7/2019	1:10:28 PM	216.1	7.1
6/7/2019	1:10:29 PM	216.0	7.0
6/7/2019	1:10:30 PM	215.9	6.9
6/7/2019	1:10:31 PM	215.6	6.6
6/7/2019	1:10:32 PM	215.5	6.5
6/7/2019	1:10:33 PM	215.2	6.2
6/7/2019	1:10:34 PM	215.1	6.1
6/7/2019	1:10:35 PM	214.9	5.9
6/7/2019	1:10:36 PM	214.6	5.6
6/7/2019	1:10:37 PM	214.4	5.4
6/7/2019	1:10:38 PM	214.3	5.3
6/7/2019	1:10:39 PM	214.1	5.1
6/7/2019	1:10:40 PM	214.0	5.0
6/7/2019	1:10:41 PM	213.7	4.7
6/7/2019	1:10:42 PM	213.6	4.6
6/7/2019	1:10:43 PM	213.3	4.3
6/7/2019	1:10:44 PM	213.0	4.0
6/7/2019	1:10:45 PM	212.7	3.7
6/7/2019	1:10:46 PM	212.4	3.4
6/7/2019	1:10:47 PM	212.1	3.1
6/7/2019	1:10:48 PM	211.9	2.9
6/7/2019	1:10:49 PM	211.6	2.6
6/7/2019	1:10:50 PM	211.3	2.3
6/7/2019	1:10:51 PM	211.0	2.0
6/7/2019	1:10:52 PM	210.8	1.8
6/7/2019	1:10:53 PM	210.7	1.7
6/7/2019	1:10:54 PM	210.6	1.6
6/7/2019	1:10:55 PM	210.5	1.5
6/7/2019	1:10:56 PM	210.4	1.4
6/7/2019	1:10:57 PM	210.4	1.4
6/7/2019	1:10:58 PM	210.5	1.5
6/7/2019	1:10:59 PM	210.5	1.5
6/7/2019	1:11:00 PM	210.5	1.5
6/7/2019	1:11:01 PM	210.5	1.5
6/7/2019	1:11:02 PM	210.6	1.6
6/7/2019	1:11:03 PM	210.6	1.6
6/7/2019	1:11:04 PM	210.4	1.4
6/7/2019	1:11:05 PM	210.0	1.0
6/7/2019	1:11:06 PM	209.5	0.5
6/7/2019	1:11:07 PM	209.1	0.1
6/7/2019	1:11:08 PM	208.9	-0.1
6/7/2019	1:11:09 PM	208.4	-0.6
6/7/2019	1:11:10 PM	208.1	-0.9
6/7/2019	1:11:11 PM	207.4	-1.6
6/7/2019	1:11:12 PM	207.0	-2.0
6/7/2019	1:11:13 PM	206.2	-2.8
6/7/2019	1:11:14 PM	205.9	-3.1

APPENDIX E32: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:11:15 PM	205.3	-3.7
6/7/2019	1:11:16 PM	204.7	-4.3
6/7/2019	1:11:17 PM	204.3	-4.7
6/7/2019	1:11:18 PM	204.1	-4.9
6/7/2019	1:11:19 PM	203.8	-5.2
6/7/2019	1:11:20 PM	203.6	-5.4
6/7/2019	1:11:21 PM	203.3	-5.7
6/7/2019	1:11:22 PM	203.1	-5.9
6/7/2019	1:11:23 PM	203.0	-6.0
6/7/2019	1:11:24 PM	202.9	-6.1
6/7/2019	1:11:25 PM	202.8	-6.2
6/7/2019	1:11:26 PM	202.7	-6.3
6/7/2019	1:11:27 PM	202.6	-6.4
6/7/2019	1:11:28 PM	202.5	-6.5
6/7/2019	1:11:29 PM	202.4	-6.6

APPENDIX E32: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A3 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A3 TEST-2	1240	198.1	18.6
SEEP-A3 TEST-2	1241	198.4	18.6
SEEP-A3 TEST-2	1243	202.4	18.6
SEEP-A3 TEST-2	1245	201.4	18.6
Average		200.1	(µS/cms)
Geo Mean		200.1	(µS/cms)
Average (pre-test)		209.0	(µS/cms)
Average (post-test)		205.3	(µS/cms)

Table E3 SEEP-A3 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A3 TEST-2	100	245	24.4
SEEP-A3 TEST-2	1,000	2,128	24.3
SEEP-A3 TEST-2	10000	17,684	24.2
SEEP-A3 TEST-2	100,000	128,985	24.2

Table E4 SEEP-A3 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.2947	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	127,657.0	(s) . (µS/cms)
Calculated Flow Rate	Q	3.0	L/s
		48.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E33: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:15:19 PM	204.7	-
6/7/2019	1:15:20 PM	204.6	-
6/7/2019	1:15:21 PM	204.6	-
6/7/2019	1:15:22 PM	204.5	-
6/7/2019	1:15:23 PM	204.5	-
6/7/2019	1:15:24 PM	204.4	-
6/7/2019	1:15:25 PM	204.4	-
6/7/2019	1:15:26 PM	204.3	-
6/7/2019	1:15:27 PM	204.2	-
6/7/2019	1:15:28 PM	204.1	-
6/7/2019	1:15:29 PM	204.0	-
6/7/2019	1:15:30 PM	203.9	-
6/7/2019	1:15:31 PM	203.7	-
6/7/2019	1:15:32 PM	203.6	-
6/7/2019	1:15:33 PM	203.6	-
6/7/2019	1:15:34 PM	203.5	-
6/7/2019	1:15:35 PM	203.4	-
6/7/2019	1:15:36 PM	203.3	-
6/7/2019	1:15:37 PM	203.2	-
6/7/2019	1:15:38 PM	203.2	-
6/7/2019	1:15:39 PM	322.6	118.6
6/7/2019	1:15:40 PM	779.1	575.1
6/7/2019	1:15:41 PM	3104.0	2900.0
6/7/2019	1:15:42 PM	5397.8	5193.8
6/7/2019	1:15:43 PM	7238.7	7034.7
6/7/2019	1:15:44 PM	9225.7	9021.7
6/7/2019	1:15:45 PM	9880.8	9676.8
6/7/2019	1:15:46 PM	9904.9	9700.9
6/7/2019	1:15:47 PM	8647.4	8443.4
6/7/2019	1:15:48 PM	7547.1	7343.1
6/7/2019	1:15:49 PM	6550.3	6346.3
6/7/2019	1:15:50 PM	5891.1	5687.1
6/7/2019	1:15:51 PM	5198.0	4994.0
6/7/2019	1:15:52 PM	4523.8	4319.8
6/7/2019	1:15:53 PM	4033.9	3829.9
6/7/2019	1:15:54 PM	3692.1	3488.1
6/7/2019	1:15:55 PM	3104.0	2900.0
6/7/2019	1:15:56 PM	2777.9	2573.9
6/7/2019	1:15:57 PM	2570.5	2366.5
6/7/2019	1:15:58 PM	2454.1	2250.1
6/7/2019	1:15:59 PM	2207.0	2003.0
6/7/2019	1:16:00 PM	1945.3	1741.3
6/7/2019	1:16:01 PM	1785.7	1581.7
6/7/2019	1:16:02 PM	1520.1	1316.1
6/7/2019	1:16:03 PM	1423.0	1219.0
6/7/2019	1:16:04 PM	1274.5	1070.5
6/7/2019	1:16:05 PM	1243.6	1039.6
6/7/2019	1:16:06 PM	1070.2	866.2
6/7/2019	1:16:07 PM	1005.3	801.3
6/7/2019	1:16:08 PM	928.4	724.4
6/7/2019	1:16:09 PM	919.1	715.1
6/7/2019	1:16:10 PM	916.8	712.8
6/7/2019	1:16:11 PM	780.1	576.1
6/7/2019	1:16:12 PM	742.0	538.0
6/7/2019	1:16:13 PM	681.3	477.3
6/7/2019	1:16:14 PM	664.7	460.7
6/7/2019	1:16:15 PM	656.1	452.1
6/7/2019	1:16:16 PM	537.5	333.5
6/7/2019	1:16:17 PM	556.2	352.2
6/7/2019	1:16:18 PM	507.0	303.0
6/7/2019	1:16:19 PM	497.5	293.5
6/7/2019	1:16:20 PM	484.9	280.9
6/7/2019	1:16:21 PM	476.7	272.7
6/7/2019	1:16:22 PM	472.6	268.6
6/7/2019	1:16:23 PM	466.7	262.7
6/7/2019	1:16:24 PM	462.8	258.8
6/7/2019	1:16:25 PM	404.5	200.5
6/7/2019	1:16:26 PM	379.4	175.4
6/7/2019	1:16:27 PM	390.4	186.4
6/7/2019	1:16:28 PM	398.9	194.9

APPENDIX E33: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:16:29 PM	391.2	187.2
6/7/2019	1:16:30 PM	373.7	169.7
6/7/2019	1:16:31 PM	362.4	158.4
6/7/2019	1:16:32 PM	357.5	153.5
6/7/2019	1:16:33 PM	350.6	146.6
6/7/2019	1:16:34 PM	345.0	141.0
6/7/2019	1:16:35 PM	341.1	137.1
6/7/2019	1:16:36 PM	335.8	131.8
6/7/2019	1:16:37 PM	335.1	131.1
6/7/2019	1:16:38 PM	332.9	128.9
6/7/2019	1:16:39 PM	286.4	82.4
6/7/2019	1:16:40 PM	278.9	74.9
6/7/2019	1:16:41 PM	277.8	73.8
6/7/2019	1:16:42 PM	275.0	71.0
6/7/2019	1:16:43 PM	274.3	70.3
6/7/2019	1:16:44 PM	276.1	72.1
6/7/2019	1:16:45 PM	274.9	70.9
6/7/2019	1:16:46 PM	274.2	70.2
6/7/2019	1:16:47 PM	273.3	69.3
6/7/2019	1:16:48 PM	272.2	68.2
6/7/2019	1:16:49 PM	271.1	67.1
6/7/2019	1:16:50 PM	268.3	64.3
6/7/2019	1:16:51 PM	266.9	62.9
6/7/2019	1:16:52 PM	265.8	61.8
6/7/2019	1:16:53 PM	264.1	60.1
6/7/2019	1:16:54 PM	262.8	58.8
6/7/2019	1:16:55 PM	261.1	57.1
6/7/2019	1:16:56 PM	259.1	55.1
6/7/2019	1:16:57 PM	255.5	51.5
6/7/2019	1:16:58 PM	253.8	49.8
6/7/2019	1:16:59 PM	250.4	46.4
6/7/2019	1:17:00 PM	248.5	44.5
6/7/2019	1:17:01 PM	246.7	42.7
6/7/2019	1:17:02 PM	245.0	41.0
6/7/2019	1:17:03 PM	243.7	39.7
6/7/2019	1:17:04 PM	242.8	38.8
6/7/2019	1:17:05 PM	240.7	36.7
6/7/2019	1:17:06 PM	239.3	35.3
6/7/2019	1:17:07 PM	238.0	34.0
6/7/2019	1:17:08 PM	236.6	32.6
6/7/2019	1:17:09 PM	234.9	30.9
6/7/2019	1:17:10 PM	234.0	30.0
6/7/2019	1:17:11 PM	233.0	29.0
6/7/2019	1:17:12 PM	232.0	28.0
6/7/2019	1:17:13 PM	231.1	27.1
6/7/2019	1:17:14 PM	230.0	26.0
6/7/2019	1:17:15 PM	229.0	25.0
6/7/2019	1:17:16 PM	228.0	24.0
6/7/2019	1:17:17 PM	227.1	23.1
6/7/2019	1:17:18 PM	226.2	22.2
6/7/2019	1:17:19 PM	225.7	21.7
6/7/2019	1:17:20 PM	225.0	21.0
6/7/2019	1:17:21 PM	224.4	20.4
6/7/2019	1:17:22 PM	223.8	19.8
6/7/2019	1:17:23 PM	223.1	19.1
6/7/2019	1:17:24 PM	222.0	18.0
6/7/2019	1:17:25 PM	221.4	17.4
6/7/2019	1:17:26 PM	220.9	16.9
6/7/2019	1:17:27 PM	219.9	15.9
6/7/2019	1:17:28 PM	219.1	15.1
6/7/2019	1:17:29 PM	218.5	14.5
6/7/2019	1:17:30 PM	217.5	13.5
6/7/2019	1:17:31 PM	217.1	13.1
6/7/2019	1:17:32 PM	216.7	12.7
6/7/2019	1:17:33 PM	216.1	12.1
6/7/2019	1:17:34 PM	215.3	11.3
6/7/2019	1:17:35 PM	215.0	11.0
6/7/2019	1:17:36 PM	214.3	10.3
6/7/2019	1:17:37 PM	213.6	9.6
6/7/2019	1:17:38 PM	213.0	9.0
6/7/2019	1:17:39 PM	211.9	7.9
6/7/2019	1:17:40 PM	211.4	7.4
6/7/2019	1:17:41 PM	210.9	6.9
6/7/2019	1:17:42 PM	210.2	6.2
6/7/2019	1:17:43 PM	209.7	5.7
6/7/2019	1:17:44 PM	209.1	5.1
6/7/2019	1:17:45 PM	208.3	4.3

APPENDIX E33: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A3 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:17:46 PM	208.0	4.0
6/7/2019	1:17:47 PM	207.4	3.4
6/7/2019	1:17:48 PM	206.7	2.7
6/7/2019	1:17:49 PM	206.1	2.1
6/7/2019	1:17:50 PM	205.8	1.8
6/7/2019	1:17:51 PM	205.2	1.2
6/7/2019	1:17:52 PM	204.8	0.8
6/7/2019	1:17:53 PM	204.4	0.4
6/7/2019	1:17:54 PM	203.9	-0.1
6/7/2019	1:17:55 PM	203.5	-0.5
6/7/2019	1:17:56 PM	202.9	-1.1
6/7/2019	1:17:57 PM	202.3	-1.7
6/7/2019	1:17:58 PM	201.9	-2.1
6/7/2019	1:17:59 PM	201.5	-2.5
6/7/2019	1:18:00 PM	201.0	-3.0
6/7/2019	1:18:01 PM	200.7	-3.3
6/7/2019	1:18:02 PM	200.3	-3.7
6/7/2019	1:18:03 PM	200.0	-4.0
6/7/2019	1:18:04 PM	199.6	-4.4
6/7/2019	1:18:05 PM	199.2	-4.8
6/7/2019	1:18:06 PM	198.9	-5.1
6/7/2019	1:18:07 PM	198.7	-5.3
6/7/2019	1:18:08 PM	198.2	-5.8
6/7/2019	1:18:09 PM	197.8	-6.2
6/7/2019	1:18:10 PM	197.5	-6.5
6/7/2019	1:18:11 PM	197.3	-6.7
6/7/2019	1:18:12 PM	196.9	-7.1
6/7/2019	1:18:13 PM	196.7	-7.3
6/7/2019	1:18:14 PM	196.5	-7.5

APPENDIX E33: SALT DILUTION GAUGING SUMMARY
SEEP-A3 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A3 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A3 TEST-3	1240	198.1	18.6
SEEP-A3 TEST-3	1241	198.4	18.6
SEEP-A3 TEST-3	1243	202.4	18.6
SEEP-A3 TEST-3	1245	201.4	18.6
Average		200.1	(µS/cms)
Geo Mean		200.1	(µS/cms)
Average (pre-test)		204.0	(µS/cms)
Average (post-test)		202.2	(µS/cms)

Table E3 SEEP-A3 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A3 TEST-3	100	245	24.4
SEEP-A3 TEST-3	1,000	2,128	24.3
SEEP-A3 TEST-3	10000	17,684	24.2
SEEP-A3 TEST-3	100,000	128,985	24.2

Table E4 SEEP-A3 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,500	mg
Slope of Calibration Curve	K	1.2947	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	122,171.9	(s) . (µS/cms)
Calculated Flow Rate	Q	3.2	L/s
		50.6	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:31:40 PM	108.6	-
6/7/2019	12:31:41 PM	108.6	-
6/7/2019	12:31:42 PM	108.5	-
6/7/2019	12:31:43 PM	108.5	-
6/7/2019	12:31:44 PM	108.5	-
6/7/2019	12:31:45 PM	108.5	-
6/7/2019	12:31:46 PM	108.5	-
6/7/2019	12:31:47 PM	108.4	-
6/7/2019	12:31:48 PM	108.4	-
6/7/2019	12:31:49 PM	108.4	-
6/7/2019	12:31:50 PM	108.4	-
6/7/2019	12:31:51 PM	108.4	-
6/7/2019	12:31:52 PM	108.3	-
6/7/2019	12:31:53 PM	108.3	-
6/7/2019	12:31:54 PM	108.3	-
6/7/2019	12:31:55 PM	108.3	-
6/7/2019	12:31:56 PM	108.3	-
6/7/2019	12:31:57 PM	108.3	-
6/7/2019	12:31:58 PM	108.3	-
6/7/2019	12:31:59 PM	108.3	-
6/7/2019	12:32:00 PM	108.3	-
6/7/2019	12:32:01 PM	108.7	-
6/7/2019	12:32:02 PM	571.9	463.5
6/7/2019	12:32:03 PM	4556.0	4447.6
6/7/2019	12:32:04 PM	6937.3	6828.9
6/7/2019	12:32:05 PM	24717.5	24609.1
6/7/2019	12:32:06 PM	31029.4	30921.0
6/7/2019	12:32:07 PM	39130.1	39021.7
6/7/2019	12:32:08 PM	41884.2	41775.8
6/7/2019	12:32:09 PM	42284.2	42175.8
6/7/2019	12:32:10 PM	41212.3	41103.9
6/7/2019	12:32:11 PM	37339.0	37230.6
6/7/2019	12:32:12 PM	33359.6	33251.2
6/7/2019	12:32:13 PM	29295.8	29187.4
6/7/2019	12:32:14 PM	27182.0	27073.6
6/7/2019	12:32:15 PM	21893.6	21785.2
6/7/2019	12:32:16 PM	18295.1	18186.7
6/7/2019	12:32:17 PM	15730.1	15621.7
6/7/2019	12:32:18 PM	13120.0	13011.6
6/7/2019	12:32:19 PM	11474.1	11365.7
6/7/2019	12:32:20 PM	9570.5	9462.1
6/7/2019	12:32:21 PM	8962.9	8854.5
6/7/2019	12:32:22 PM	7267.1	7158.7
6/7/2019	12:32:23 PM	6394.6	6286.2
6/7/2019	12:32:24 PM	5790.3	5681.9
6/7/2019	12:32:25 PM	5254.8	5146.4
6/7/2019	12:32:26 PM	4514.2	4405.8
6/7/2019	12:32:27 PM	4064.0	3955.6
6/7/2019	12:32:28 PM	3591.6	3483.2
6/7/2019	12:32:29 PM	3429.2	3320.8
6/7/2019	12:32:30 PM	3017.4	2909.0
6/7/2019	12:32:31 PM	2736.0	2627.6
6/7/2019	12:32:32 PM	2506.0	2397.6
6/7/2019	12:32:33 PM	2435.5	2327.1
6/7/2019	12:32:34 PM	2162.3	2053.9
6/7/2019	12:32:35 PM	2032.7	1924.3
6/7/2019	12:32:36 PM	1856.8	1748.4
6/7/2019	12:32:37 PM	1816.6	1708.2
6/7/2019	12:32:38 PM	1755.6	1647.2
6/7/2019	12:32:39 PM	1566.6	1458.2
6/7/2019	12:32:40 PM	1499.8	1391.4
6/7/2019	12:32:41 PM	1419.7	1311.3
6/7/2019	12:32:42 PM	1399.5	1291.1
6/7/2019	12:32:43 PM	1356.7	1248.3
6/7/2019	12:32:44 PM	1255.5	1147.1
6/7/2019	12:32:45 PM	1243.5	1135.1
6/7/2019	12:32:46 PM	1246.2	1137.8
6/7/2019	12:32:47 PM	1242.9	1134.5
6/7/2019	12:32:48 PM	1243.3	1134.9
6/7/2019	12:32:49 PM	1222.5	1114.1

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:32:50 PM	1206.1	1097.7
6/7/2019	12:32:51 PM	1099.1	990.7
6/7/2019	12:32:52 PM	1087.0	978.6
6/7/2019	12:32:53 PM	1014.2	905.8
6/7/2019	12:32:54 PM	1008.2	899.8
6/7/2019	12:32:55 PM	985.9	877.5
6/7/2019	12:32:56 PM	967.9	859.5
6/7/2019	12:32:57 PM	897.3	788.9
6/7/2019	12:32:58 PM	861.6	753.2
6/7/2019	12:32:59 PM	842.5	734.1
6/7/2019	12:33:00 PM	839.9	731.5
6/7/2019	12:33:01 PM	826.2	717.8
6/7/2019	12:33:02 PM	762.1	653.7
6/7/2019	12:33:03 PM	731.0	622.6
6/7/2019	12:33:04 PM	700.0	591.6
6/7/2019	12:33:05 PM	681.1	572.7
6/7/2019	12:33:06 PM	667.2	558.8
6/7/2019	12:33:07 PM	652.5	544.1
6/7/2019	12:33:08 PM	592.7	484.3
6/7/2019	12:33:09 PM	574.5	466.1
6/7/2019	12:33:10 PM	514.0	405.6
6/7/2019	12:33:11 PM	533.8	425.4
6/7/2019	12:33:12 PM	528.9	420.5
6/7/2019	12:33:13 PM	525.3	416.9
6/7/2019	12:33:14 PM	521.0	412.6
6/7/2019	12:33:15 PM	517.0	408.6
6/7/2019	12:33:16 PM	512.5	404.1
6/7/2019	12:33:17 PM	508.6	400.2
6/7/2019	12:33:18 PM	504.5	396.1
6/7/2019	12:33:19 PM	500.3	391.9
6/7/2019	12:33:20 PM	496.7	388.3
6/7/2019	12:33:21 PM	492.7	384.3
6/7/2019	12:33:22 PM	447.2	338.8
6/7/2019	12:33:23 PM	434.3	325.9
6/7/2019	12:33:24 PM	426.5	318.1
6/7/2019	12:33:25 PM	420.4	312.0
6/7/2019	12:33:26 PM	416.1	307.7
6/7/2019	12:33:27 PM	411.5	303.1
6/7/2019	12:33:28 PM	407.6	299.2
6/7/2019	12:33:29 PM	403.5	295.1
6/7/2019	12:33:30 PM	400.2	291.8
6/7/2019	12:33:31 PM	396.4	288.0
6/7/2019	12:33:32 PM	393.3	284.9
6/7/2019	12:33:33 PM	390.6	282.2
6/7/2019	12:33:34 PM	389.3	280.9
6/7/2019	12:33:35 PM	388.8	280.4
6/7/2019	12:33:36 PM	388.8	280.4
6/7/2019	12:33:37 PM	388.9	280.5
6/7/2019	12:33:38 PM	388.6	280.2
6/7/2019	12:33:39 PM	385.6	277.2
6/7/2019	12:33:40 PM	382.7	274.3
6/7/2019	12:33:41 PM	380.4	272.0
6/7/2019	12:33:42 PM	377.8	269.4
6/7/2019	12:33:43 PM	375.5	267.1
6/7/2019	12:33:44 PM	373.2	264.8
6/7/2019	12:33:45 PM	371.4	263.0
6/7/2019	12:33:46 PM	369.1	260.7
6/7/2019	12:33:47 PM	366.6	258.2
6/7/2019	12:33:48 PM	363.0	254.6
6/7/2019	12:33:49 PM	359.2	250.8
6/7/2019	12:33:50 PM	354.6	246.2
6/7/2019	12:33:51 PM	350.7	242.3
6/7/2019	12:33:52 PM	346.5	238.1
6/7/2019	12:33:53 PM	343.0	234.6
6/7/2019	12:33:54 PM	339.2	230.8
6/7/2019	12:33:55 PM	335.9	227.5
6/7/2019	12:33:56 PM	332.1	223.7
6/7/2019	12:33:57 PM	328.7	220.3
6/7/2019	12:33:58 PM	324.9	216.5
6/7/2019	12:33:59 PM	320.8	212.4
6/7/2019	12:34:00 PM	317.2	208.8
6/7/2019	12:34:01 PM	313.0	204.6
6/7/2019	12:34:02 PM	309.3	200.9
6/7/2019	12:34:03 PM	305.0	196.6
6/7/2019	12:34:04 PM	301.2	192.8
6/7/2019	12:34:05 PM	297.0	188.6
6/7/2019	12:34:06 PM	293.4	185.0

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:34:07 PM	289.5	181.1
6/7/2019	12:34:08 PM	286.2	177.8
6/7/2019	12:34:09 PM	282.5	174.1
6/7/2019	12:34:10 PM	279.5	171.1
6/7/2019	12:34:11 PM	276.1	167.7
6/7/2019	12:34:12 PM	273.4	165.0
6/7/2019	12:34:13 PM	270.3	161.9
6/7/2019	12:34:14 PM	267.7	159.3
6/7/2019	12:34:15 PM	265.0	156.6
6/7/2019	12:34:16 PM	262.6	154.2
6/7/2019	12:34:17 PM	259.9	151.5
6/7/2019	12:34:18 PM	257.6	149.2
6/7/2019	12:34:19 PM	254.9	146.5
6/7/2019	12:34:20 PM	252.2	143.8
6/7/2019	12:34:21 PM	249.8	141.4
6/7/2019	12:34:22 PM	247.1	138.7
6/7/2019	12:34:23 PM	244.8	136.4
6/7/2019	12:34:24 PM	242.2	133.8
6/7/2019	12:34:25 PM	240.0	131.6
6/7/2019	12:34:26 PM	237.7	129.3
6/7/2019	12:34:27 PM	235.6	127.2
6/7/2019	12:34:28 PM	233.3	124.9
6/7/2019	12:34:29 PM	231.4	123.0
6/7/2019	12:34:30 PM	229.3	120.9
6/7/2019	12:34:31 PM	227.4	119.0
6/7/2019	12:34:32 PM	225.3	116.9
6/7/2019	12:34:33 PM	223.5	115.1
6/7/2019	12:34:34 PM	221.6	113.2
6/7/2019	12:34:35 PM	219.9	111.5
6/7/2019	12:34:36 PM	218.0	109.6
6/7/2019	12:34:37 PM	216.4	108.0
6/7/2019	12:34:38 PM	214.5	106.1
6/7/2019	12:34:39 PM	212.9	104.5
6/7/2019	12:34:40 PM	211.2	102.8
6/7/2019	12:34:41 PM	209.7	101.3
6/7/2019	12:34:42 PM	208.4	100.0
6/7/2019	12:34:43 PM	207.0	98.6
6/7/2019	12:34:44 PM	206.0	97.6
6/7/2019	12:34:45 PM	205.0	96.6
6/7/2019	12:34:46 PM	204.1	95.7
6/7/2019	12:34:47 PM	203.2	94.8
6/7/2019	12:34:48 PM	202.5	94.1
6/7/2019	12:34:49 PM	201.7	93.3
6/7/2019	12:34:50 PM	201.0	92.6
6/7/2019	12:34:51 PM	200.3	91.9
6/7/2019	12:34:52 PM	199.7	91.3
6/7/2019	12:34:53 PM	199.0	90.6
6/7/2019	12:34:54 PM	198.4	90.0
6/7/2019	12:34:55 PM	197.8	89.4
6/7/2019	12:34:56 PM	197.4	89.0
6/7/2019	12:34:57 PM	196.9	88.5
6/7/2019	12:34:58 PM	196.5	88.1
6/7/2019	12:34:59 PM	196.0	87.6
6/7/2019	12:35:00 PM	195.7	87.3
6/7/2019	12:35:01 PM	195.5	87.1
6/7/2019	12:35:02 PM	195.3	86.9
6/7/2019	12:35:03 PM	195.2	86.8
6/7/2019	12:35:04 PM	195.1	86.7
6/7/2019	12:35:05 PM	195.0	86.6
6/7/2019	12:35:06 PM	194.9	86.5
6/7/2019	12:35:07 PM	194.8	86.4
6/7/2019	12:35:08 PM	194.6	86.2
6/7/2019	12:35:09 PM	194.3	85.9
6/7/2019	12:35:10 PM	193.9	85.5
6/7/2019	12:35:11 PM	193.6	85.2
6/7/2019	12:35:12 PM	193.2	84.8
6/7/2019	12:35:13 PM	192.9	84.5
6/7/2019	12:35:14 PM	192.4	84.0
6/7/2019	12:35:15 PM	192.0	83.6
6/7/2019	12:35:16 PM	191.4	83.0
6/7/2019	12:35:17 PM	190.9	82.5
6/7/2019	12:35:18 PM	190.1	81.7
6/7/2019	12:35:19 PM	189.5	81.1
6/7/2019	12:35:20 PM	188.7	80.3
6/7/2019	12:35:21 PM	188.0	79.6
6/7/2019	12:35:22 PM	187.2	78.8
6/7/2019	12:35:23 PM	186.4	78.0
6/7/2019	12:35:24 PM	185.7	77.3
6/7/2019	12:35:25 PM	184.9	76.5

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:35:26 PM	184.1	75.7
6/7/2019	12:35:27 PM	183.2	74.8
6/7/2019	12:35:28 PM	182.2	73.8
6/7/2019	12:35:29 PM	180.7	72.3
6/7/2019	12:35:30 PM	179.1	70.7
6/7/2019	12:35:31 PM	177.0	68.6
6/7/2019	12:35:32 PM	175.0	66.6
6/7/2019	12:35:33 PM	172.7	64.3
6/7/2019	12:35:34 PM	170.7	62.3
6/7/2019	12:35:35 PM	168.4	60.0
6/7/2019	12:35:36 PM	166.5	58.1
6/7/2019	12:35:37 PM	164.4	56.0
6/7/2019	12:35:38 PM	162.5	54.1
6/7/2019	12:35:39 PM	160.5	52.1
6/7/2019	12:35:40 PM	158.8	50.4
6/7/2019	12:35:41 PM	157.3	48.9
6/7/2019	12:35:42 PM	156.4	48.0
6/7/2019	12:35:43 PM	155.7	47.3
6/7/2019	12:35:44 PM	155.5	47.1
6/7/2019	12:35:45 PM	155.4	47.0
6/7/2019	12:35:46 PM	155.4	47.0
6/7/2019	12:35:47 PM	155.4	47.0
6/7/2019	12:35:48 PM	155.5	47.1
6/7/2019	12:35:49 PM	155.5	47.1
6/7/2019	12:35:50 PM	155.6	47.2
6/7/2019	12:35:51 PM	155.6	47.2
6/7/2019	12:35:52 PM	155.7	47.3
6/7/2019	12:35:53 PM	155.7	47.3
6/7/2019	12:35:54 PM	155.7	47.3
6/7/2019	12:35:55 PM	155.7	47.3
6/7/2019	12:35:56 PM	155.8	47.4
6/7/2019	12:35:57 PM	155.8	47.4
6/7/2019	12:35:58 PM	155.8	47.4
6/7/2019	12:35:59 PM	155.8	47.4
6/7/2019	12:36:00 PM	155.9	47.5
6/7/2019	12:36:01 PM	155.9	47.5
6/7/2019	12:36:02 PM	156.0	47.6
6/7/2019	12:36:03 PM	156.0	47.6
6/7/2019	12:36:04 PM	156.0	47.6
6/7/2019	12:36:05 PM	156.1	47.7
6/7/2019	12:36:06 PM	156.2	47.8
6/7/2019	12:36:07 PM	156.3	47.9
6/7/2019	12:36:08 PM	156.3	47.9
6/7/2019	12:36:09 PM	156.3	47.9
6/7/2019	12:36:10 PM	156.3	47.9
6/7/2019	12:36:11 PM	156.3	47.9
6/7/2019	12:36:12 PM	156.2	47.8
6/7/2019	12:36:13 PM	156.2	47.8
6/7/2019	12:36:14 PM	156.1	47.7
6/7/2019	12:36:15 PM	156.0	47.6
6/7/2019	12:36:16 PM	155.9	47.5
6/7/2019	12:36:17 PM	155.9	47.5
6/7/2019	12:36:18 PM	155.8	47.4
6/7/2019	12:36:19 PM	155.7	47.3
6/7/2019	12:36:20 PM	155.5	47.1
6/7/2019	12:36:21 PM	155.3	46.9
6/7/2019	12:36:22 PM	155.2	46.8
6/7/2019	12:36:23 PM	155.0	46.6
6/7/2019	12:36:24 PM	154.8	46.4
6/7/2019	12:36:25 PM	154.6	46.2
6/7/2019	12:36:26 PM	154.4	46.0
6/7/2019	12:36:27 PM	154.3	45.9
6/7/2019	12:36:28 PM	154.1	45.7
6/7/2019	12:36:29 PM	153.9	45.5
6/7/2019	12:36:30 PM	153.7	45.3
6/7/2019	12:36:31 PM	153.5	45.1
6/7/2019	12:36:32 PM	153.4	45.0
6/7/2019	12:36:33 PM	153.4	45.0
6/7/2019	12:36:34 PM	153.4	45.0
6/7/2019	12:36:35 PM	153.4	45.0
6/7/2019	12:36:36 PM	153.6	45.2
6/7/2019	12:36:37 PM	153.7	45.3
6/7/2019	12:36:38 PM	153.8	45.4
6/7/2019	12:36:39 PM	153.9	45.5
6/7/2019	12:36:40 PM	154.0	45.6
6/7/2019	12:36:41 PM	154.1	45.7
6/7/2019	12:36:42 PM	154.2	45.8
6/7/2019	12:36:43 PM	154.3	45.9
6/7/2019	12:36:44 PM	154.4	46.0

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:36:45 PM	154.3	45.9
6/7/2019	12:36:46 PM	154.2	45.8
6/7/2019	12:36:47 PM	154.0	45.6
6/7/2019	12:36:48 PM	153.9	45.5
6/7/2019	12:36:49 PM	153.6	45.2
6/7/2019	12:36:50 PM	153.3	44.9
6/7/2019	12:36:51 PM	153.0	44.6
6/7/2019	12:36:52 PM	152.8	44.4
6/7/2019	12:36:53 PM	152.5	44.1
6/7/2019	12:36:54 PM	152.3	43.9
6/7/2019	12:36:55 PM	152.0	43.6
6/7/2019	12:36:56 PM	151.7	43.3
6/7/2019	12:36:57 PM	151.5	43.1
6/7/2019	12:36:58 PM	151.3	42.9
6/7/2019	12:36:59 PM	151.1	42.7
6/7/2019	12:37:00 PM	150.9	42.5
6/7/2019	12:37:01 PM	150.7	42.3
6/7/2019	12:37:02 PM	150.6	42.2
6/7/2019	12:37:03 PM	150.4	42.0
6/7/2019	12:37:04 PM	150.3	41.9
6/7/2019	12:37:05 PM	150.1	41.7
6/7/2019	12:37:06 PM	150.0	41.6
6/7/2019	12:37:07 PM	149.9	41.5
6/7/2019	12:37:08 PM	149.7	41.3
6/7/2019	12:37:09 PM	149.6	41.2
6/7/2019	12:37:10 PM	149.5	41.1
6/7/2019	12:37:11 PM	149.4	41.0
6/7/2019	12:37:12 PM	149.3	40.9
6/7/2019	12:37:13 PM	149.2	40.8
6/7/2019	12:37:14 PM	149.1	40.7
6/7/2019	12:37:15 PM	149.1	40.7
6/7/2019	12:37:16 PM	149.0	40.6
6/7/2019	12:37:17 PM	148.9	40.5
6/7/2019	12:37:18 PM	148.8	40.4
6/7/2019	12:37:19 PM	148.7	40.3
6/7/2019	12:37:20 PM	148.6	40.2
6/7/2019	12:37:21 PM	148.6	40.2
6/7/2019	12:37:22 PM	148.5	40.1
6/7/2019	12:37:23 PM	148.4	40.0
6/7/2019	12:37:24 PM	148.3	39.9
6/7/2019	12:37:25 PM	148.2	39.8
6/7/2019	12:37:26 PM	148.2	39.8
6/7/2019	12:37:27 PM	148.1	39.7
6/7/2019	12:37:28 PM	148.0	39.6
6/7/2019	12:37:29 PM	147.9	39.5
6/7/2019	12:37:30 PM	147.8	39.4
6/7/2019	12:37:31 PM	147.7	39.3
6/7/2019	12:37:32 PM	147.6	39.2
6/7/2019	12:37:33 PM	147.6	39.2
6/7/2019	12:37:34 PM	147.5	39.1
6/7/2019	12:37:35 PM	147.4	39.0
6/7/2019	12:37:36 PM	147.3	38.9
6/7/2019	12:37:37 PM	147.3	38.9
6/7/2019	12:37:38 PM	147.2	38.8
6/7/2019	12:37:39 PM	147.2	38.8
6/7/2019	12:37:40 PM	147.1	38.7
6/7/2019	12:37:41 PM	147.1	38.7
6/7/2019	12:37:42 PM	147.0	38.6
6/7/2019	12:37:43 PM	147.0	38.6
6/7/2019	12:37:44 PM	147.0	38.6
6/7/2019	12:37:45 PM	147.0	38.6
6/7/2019	12:37:46 PM	147.0	38.6
6/7/2019	12:37:47 PM	146.9	38.5
6/7/2019	12:37:48 PM	146.9	38.5
6/7/2019	12:37:49 PM	146.9	38.5
6/7/2019	12:37:50 PM	146.9	38.5
6/7/2019	12:37:51 PM	146.9	38.5
6/7/2019	12:37:52 PM	146.9	38.5
6/7/2019	12:37:53 PM	146.9	38.5
6/7/2019	12:37:54 PM	147.0	38.6
6/7/2019	12:37:55 PM	147.0	38.6
6/7/2019	12:37:56 PM	147.0	38.6
6/7/2019	12:37:57 PM	147.0	38.6
6/7/2019	12:37:58 PM	147.0	38.6
6/7/2019	12:37:59 PM	147.0	38.6
6/7/2019	12:38:00 PM	147.0	38.6
6/7/2019	12:38:01 PM	147.0	38.6
6/7/2019	12:38:02 PM	147.1	38.7
6/7/2019	12:38:03 PM	147.1	38.7

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:38:04 PM	147.1	38.7
6/7/2019	12:38:05 PM	147.1	38.7
6/7/2019	12:38:06 PM	147.1	38.7
6/7/2019	12:38:07 PM	147.2	38.8
6/7/2019	12:38:08 PM	147.2	38.8
6/7/2019	12:38:09 PM	147.2	38.8
6/7/2019	12:38:10 PM	147.3	38.9
6/7/2019	12:38:11 PM	147.3	38.9
6/7/2019	12:38:12 PM	147.3	38.9
6/7/2019	12:38:13 PM	147.4	39.0
6/7/2019	12:38:14 PM	147.4	39.0
6/7/2019	12:38:15 PM	147.4	39.0
6/7/2019	12:38:16 PM	147.5	39.1
6/7/2019	12:38:17 PM	147.5	39.1
6/7/2019	12:38:18 PM	147.6	39.2
6/7/2019	12:38:19 PM	147.6	39.2
6/7/2019	12:38:20 PM	147.6	39.2
6/7/2019	12:38:21 PM	147.7	39.3
6/7/2019	12:38:22 PM	147.7	39.3
6/7/2019	12:38:23 PM	147.7	39.3
6/7/2019	12:38:24 PM	147.7	39.3
6/7/2019	12:38:25 PM	147.8	39.4
6/7/2019	12:38:26 PM	147.8	39.4
6/7/2019	12:38:27 PM	147.8	39.4
6/7/2019	12:38:28 PM	147.8	39.4
6/7/2019	12:38:29 PM	147.8	39.4
6/7/2019	12:38:30 PM	147.8	39.4
6/7/2019	12:38:31 PM	147.7	39.3
6/7/2019	12:38:32 PM	147.7	39.3
6/7/2019	12:38:33 PM	147.7	39.3
6/7/2019	12:38:34 PM	147.7	39.3
6/7/2019	12:38:35 PM	147.6	39.2
6/7/2019	12:38:36 PM	147.6	39.2
6/7/2019	12:38:37 PM	147.5	39.1
6/7/2019	12:38:38 PM	147.5	39.1
6/7/2019	12:38:39 PM	147.4	39.0
6/7/2019	12:38:40 PM	147.4	39.0
6/7/2019	12:38:41 PM	147.4	39.0
6/7/2019	12:38:42 PM	147.3	38.9
6/7/2019	12:38:43 PM	147.3	38.9
6/7/2019	12:38:44 PM	147.3	38.9
6/7/2019	12:38:45 PM	147.2	38.8
6/7/2019	12:38:46 PM	147.2	38.8
6/7/2019	12:38:47 PM	147.2	38.8
6/7/2019	12:38:48 PM	147.2	38.8
6/7/2019	12:38:49 PM	147.2	38.8
6/7/2019	12:38:50 PM	147.3	38.9
6/7/2019	12:38:51 PM	147.3	38.9
6/7/2019	12:38:52 PM	147.3	38.9
6/7/2019	12:38:53 PM	147.4	39.0
6/7/2019	12:38:54 PM	147.4	39.0
6/7/2019	12:38:55 PM	147.4	39.0
6/7/2019	12:38:56 PM	147.5	39.1
6/7/2019	12:38:57 PM	147.5	39.1
6/7/2019	12:38:58 PM	147.5	39.1
6/7/2019	12:38:59 PM	147.5	39.1
6/7/2019	12:39:00 PM	147.5	39.1
6/7/2019	12:39:01 PM	147.4	39.0
6/7/2019	12:39:02 PM	147.4	39.0
6/7/2019	12:39:03 PM	147.3	38.9
6/7/2019	12:39:04 PM	147.2	38.8
6/7/2019	12:39:05 PM	147.1	38.7
6/7/2019	12:39:06 PM	147.0	38.6
6/7/2019	12:39:07 PM	146.9	38.5
6/7/2019	12:39:08 PM	146.8	38.4
6/7/2019	12:39:09 PM	146.7	38.3
6/7/2019	12:39:10 PM	146.5	38.1
6/7/2019	12:39:11 PM	146.4	38.0
6/7/2019	12:39:12 PM	146.2	37.8
6/7/2019	12:39:13 PM	146.1	37.7
6/7/2019	12:39:14 PM	145.9	37.5
6/7/2019	12:39:15 PM	145.8	37.4
6/7/2019	12:39:16 PM	145.6	37.2
6/7/2019	12:39:17 PM	145.5	37.1
6/7/2019	12:39:18 PM	145.3	36.9
6/7/2019	12:39:19 PM	145.2	36.8
6/7/2019	12:39:20 PM	145.0	36.6
6/7/2019	12:39:21 PM	144.8	36.4
6/7/2019	12:39:22 PM	144.7	36.3

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:39:23 PM	144.5	36.1
6/7/2019	12:39:24 PM	144.4	36.0
6/7/2019	12:39:25 PM	144.2	35.8
6/7/2019	12:39:26 PM	144.1	35.7
6/7/2019	12:39:27 PM	143.9	35.5
6/7/2019	12:39:28 PM	143.8	35.4
6/7/2019	12:39:29 PM	143.7	35.3
6/7/2019	12:39:30 PM	143.5	35.1
6/7/2019	12:39:31 PM	143.4	35.0
6/7/2019	12:39:32 PM	143.2	34.8
6/7/2019	12:39:33 PM	143.1	34.7
6/7/2019	12:39:34 PM	143.0	34.6
6/7/2019	12:39:35 PM	142.8	34.4
6/7/2019	12:39:36 PM	142.7	34.3
6/7/2019	12:39:37 PM	142.6	34.2
6/7/2019	12:39:38 PM	142.4	34.0
6/7/2019	12:39:39 PM	142.3	33.9
6/7/2019	12:39:40 PM	142.2	33.8
6/7/2019	12:39:41 PM	142.0	33.6
6/7/2019	12:39:42 PM	141.9	33.5
6/7/2019	12:39:43 PM	141.8	33.4
6/7/2019	12:39:44 PM	141.6	33.2
6/7/2019	12:39:45 PM	141.5	33.1
6/7/2019	12:39:46 PM	141.4	33.0
6/7/2019	12:39:47 PM	141.2	32.8
6/7/2019	12:39:48 PM	141.1	32.7
6/7/2019	12:39:49 PM	141.0	32.6
6/7/2019	12:39:50 PM	140.8	32.4
6/7/2019	12:39:51 PM	140.7	32.3
6/7/2019	12:39:52 PM	140.6	32.2
6/7/2019	12:39:53 PM	140.5	32.1
6/7/2019	12:39:54 PM	140.3	31.9
6/7/2019	12:39:55 PM	140.2	31.8
6/7/2019	12:39:56 PM	140.1	31.7
6/7/2019	12:39:57 PM	140.0	31.6
6/7/2019	12:39:58 PM	139.9	31.5
6/7/2019	12:39:59 PM	139.8	31.4
6/7/2019	12:40:00 PM	139.7	31.3
6/7/2019	12:40:01 PM	139.6	31.2
6/7/2019	12:40:02 PM	139.5	31.1
6/7/2019	12:40:03 PM	139.4	31.0
6/7/2019	12:40:04 PM	139.3	30.9
6/7/2019	12:40:05 PM	139.3	30.9
6/7/2019	12:40:06 PM	139.2	30.8
6/7/2019	12:40:07 PM	139.1	30.7
6/7/2019	12:40:08 PM	139.0	30.6
6/7/2019	12:40:09 PM	138.9	30.5
6/7/2019	12:40:10 PM	138.8	30.4
6/7/2019	12:40:11 PM	138.7	30.3
6/7/2019	12:40:12 PM	138.6	30.2
6/7/2019	12:40:13 PM	138.6	30.2
6/7/2019	12:40:14 PM	138.5	30.1
6/7/2019	12:40:15 PM	138.4	30.0
6/7/2019	12:40:16 PM	138.4	30.0
6/7/2019	12:40:17 PM	138.3	29.9
6/7/2019	12:40:18 PM	138.2	29.8
6/7/2019	12:40:19 PM	138.1	29.7
6/7/2019	12:40:20 PM	138.1	29.7
6/7/2019	12:40:21 PM	138.0	29.6
6/7/2019	12:40:22 PM	138.0	29.6
6/7/2019	12:40:23 PM	137.9	29.5
6/7/2019	12:40:24 PM	137.9	29.5
6/7/2019	12:40:25 PM	137.9	29.5
6/7/2019	12:40:26 PM	137.8	29.4
6/7/2019	12:40:27 PM	137.8	29.4
6/7/2019	12:40:28 PM	137.8	29.4
6/7/2019	12:40:29 PM	137.7	29.3
6/7/2019	12:40:30 PM	137.7	29.3
6/7/2019	12:40:31 PM	137.7	29.3
6/7/2019	12:40:32 PM	137.7	29.3
6/7/2019	12:40:33 PM	137.7	29.3
6/7/2019	12:40:34 PM	137.7	29.3
6/7/2019	12:40:35 PM	137.7	29.3
6/7/2019	12:40:36 PM	137.7	29.3
6/7/2019	12:40:37 PM	137.7	29.3
6/7/2019	12:40:38 PM	137.7	29.3
6/7/2019	12:40:39 PM	137.7	29.3
6/7/2019	12:40:40 PM	137.7	29.3
6/7/2019	12:40:41 PM	137.7	29.3

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:40:42 PM	137.7	29.3
6/7/2019	12:40:43 PM	137.7	29.3
6/7/2019	12:40:44 PM	137.7	29.3
6/7/2019	12:40:45 PM	137.7	29.3
6/7/2019	12:40:46 PM	137.7	29.3
6/7/2019	12:40:47 PM	137.8	29.4
6/7/2019	12:40:48 PM	137.8	29.4
6/7/2019	12:40:49 PM	137.8	29.4

APPENDIX E34: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A4 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A4 TEST-1	1221	108.8	21.8
SEEP-A4 TEST-1	1222	109.2	21.6
SEEP-A4 TEST-1	1223	107.8	21.8
SEEP-A4 TEST-1	1224	108.6	21.8
Average		108.6	(µS/cms)
Geo Mean		108.6	(µS/cms)
Average (pre-test)		110.6	(µS/cms)
Average (post-test)		142.6	(µS/cms)

Table E3 SEEP-A4 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A4 TEST-1	100	243.7	24.2
SEEP-A4 TEST-1	1,000	2,163	24.2
SEEP-A4 TEST-1	10000	18,130	24.1
SEEP-A4 TEST-1	100,000	133,511	24.1

Table E4 SEEP-A4 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,700	mg
Slope of Calibration Curve	K	1.3399	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	581,545.6	(s) . (µS/cms)
Calculated Flow Rate	Q	0.7	L/s
		11.0	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E35: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	12:59:34 PM	113.4	-
6/7/2019	12:59:35 PM	113.4	-
6/7/2019	12:59:36 PM	113.3	-
6/7/2019	12:59:37 PM	113.2	-
6/7/2019	12:59:38 PM	113.1	-
6/7/2019	12:59:39 PM	113.0	-
6/7/2019	12:59:40 PM	112.9	-
6/7/2019	12:59:41 PM	112.8	-
6/7/2019	12:59:42 PM	112.7	-
6/7/2019	12:59:43 PM	112.6	-
6/7/2019	12:59:44 PM	112.5	-
6/7/2019	12:59:45 PM	112.4	-
6/7/2019	12:59:46 PM	112.3	-
6/7/2019	12:59:47 PM	112.3	-
6/7/2019	12:59:48 PM	112.2	-
6/7/2019	12:59:49 PM	112.2	-
6/7/2019	12:59:50 PM	112.2	-
6/7/2019	12:59:51 PM	112.2	-
6/7/2019	12:59:52 PM	112.2	-
6/7/2019	12:59:53 PM	112.2	-
6/7/2019	12:59:54 PM	112.5	-
6/7/2019	12:59:55 PM	332.9	220.3
6/7/2019	12:59:56 PM	625.3	512.7
6/7/2019	12:59:57 PM	3823.0	3710.4
6/7/2019	12:59:58 PM	6922.9	6810.3
6/7/2019	12:59:59 PM	10262.5	10149.9
6/7/2019	1:00:00 PM	14006.5	13893.9
6/7/2019	1:00:01 PM	17372.3	17259.7
6/7/2019	1:00:02 PM	18846.2	18733.6
6/7/2019	1:00:03 PM	20072.4	19959.8
6/7/2019	1:00:04 PM	20731.1	20618.5
6/7/2019	1:00:05 PM	20833.0	20720.4
6/7/2019	1:00:06 PM	20918.3	20805.7
6/7/2019	1:00:07 PM	20886.2	20773.6
6/7/2019	1:00:08 PM	20742.8	20630.2
6/7/2019	1:00:09 PM	19101.9	18989.3
6/7/2019	1:00:10 PM	18157.1	18044.5
6/7/2019	1:00:11 PM	17058.5	16945.9
6/7/2019	1:00:12 PM	16417.0	16304.4
6/7/2019	1:00:13 PM	15766.2	15653.6
6/7/2019	1:00:14 PM	14012.5	13899.9
6/7/2019	1:00:15 PM	13125.0	13012.4
6/7/2019	1:00:16 PM	12218.5	12105.9
6/7/2019	1:00:17 PM	11773.0	11660.4
6/7/2019	1:00:18 PM	11355.2	11242.6
6/7/2019	1:00:19 PM	10324.7	10212.1
6/7/2019	1:00:20 PM	9610.0	9497.4
6/7/2019	1:00:21 PM	9100.5	8987.9
6/7/2019	1:00:22 PM	8835.0	8722.4
6/7/2019	1:00:23 PM	8574.7	8462.1
6/7/2019	1:00:24 PM	7669.6	7557.0
6/7/2019	1:00:25 PM	7139.5	7026.9
6/7/2019	1:00:26 PM	6607.1	6494.5
6/7/2019	1:00:27 PM	6424.1	6311.5
6/7/2019	1:00:28 PM	5771.8	5659.2
6/7/2019	1:00:29 PM	5310.3	5197.7
6/7/2019	1:00:30 PM	5006.9	4894.3
6/7/2019	1:00:31 PM	4746.9	4634.3
6/7/2019	1:00:32 PM	4661.0	4548.4
6/7/2019	1:00:33 PM	4244.7	4132.1
6/7/2019	1:00:34 PM	4049.4	3936.8
6/7/2019	1:00:35 PM	3829.5	3716.9
6/7/2019	1:00:36 PM	3724.7	3612.1
6/7/2019	1:00:37 PM	3601.3	3488.7
6/7/2019	1:00:38 PM	3504.5	3391.9
6/7/2019	1:00:39 PM	3190.0	3077.4
6/7/2019	1:00:40 PM	3070.1	2957.5
6/7/2019	1:00:41 PM	2943.7	2831.1
6/7/2019	1:00:42 PM	2899.1	2786.5
6/7/2019	1:00:43 PM	2839.7	2727.1

APPENDIX E35: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:00:44 PM	2792.9	2680.3
6/7/2019	1:00:45 PM	2595.3	2482.7
6/7/2019	1:00:46 PM	2509.4	2396.8
6/7/2019	1:00:47 PM	2463.4	2350.8
6/7/2019	1:00:48 PM	2406.1	2293.5
6/7/2019	1:00:49 PM	2398.0	2285.4
6/7/2019	1:00:50 PM	2373.6	2261.0
6/7/2019	1:00:51 PM	2347.9	2235.3
6/7/2019	1:00:52 PM	2319.4	2206.8
6/7/2019	1:00:53 PM	2126.3	2013.7
6/7/2019	1:00:54 PM	2095.2	1982.6
6/7/2019	1:00:55 PM	2057.8	1945.2
6/7/2019	1:00:56 PM	2034.2	1921.6
6/7/2019	1:00:57 PM	1998.0	1885.4
6/7/2019	1:00:58 PM	1975.3	1862.7
6/7/2019	1:00:59 PM	1953.2	1840.6
6/7/2019	1:01:00 PM	1802.7	1690.1
6/7/2019	1:01:01 PM	1758.1	1645.5
6/7/2019	1:01:02 PM	1728.5	1615.9
6/7/2019	1:01:03 PM	1711.4	1598.8
6/7/2019	1:01:04 PM	1689.8	1577.2
6/7/2019	1:01:05 PM	1671.4	1558.8
6/7/2019	1:01:06 PM	1647.8	1535.2
6/7/2019	1:01:07 PM	1544.4	1431.8
6/7/2019	1:01:08 PM	1489.6	1377.0
6/7/2019	1:01:09 PM	1484.6	1372.0
6/7/2019	1:01:10 PM	1470.2	1357.6
6/7/2019	1:01:11 PM	1442.6	1330.0
6/7/2019	1:01:12 PM	1433.4	1320.8
6/7/2019	1:01:13 PM	1417.7	1305.1
6/7/2019	1:01:14 PM	1411.5	1298.9
6/7/2019	1:01:15 PM	1404.8	1292.2
6/7/2019	1:01:16 PM	1312.4	1199.8
6/7/2019	1:01:17 PM	1256.1	1143.5
6/7/2019	1:01:18 PM	1207.2	1094.6
6/7/2019	1:01:19 PM	1189.6	1077.0
6/7/2019	1:01:20 PM	1178.4	1065.8
6/7/2019	1:01:21 PM	1176.1	1063.5
6/7/2019	1:01:22 PM	1173.2	1060.6
6/7/2019	1:01:23 PM	1169.0	1056.4
6/7/2019	1:01:24 PM	1165.9	1053.3
6/7/2019	1:01:25 PM	1161.8	1049.2
6/7/2019	1:01:26 PM	1156.6	1044.0
6/7/2019	1:01:27 PM	1149.6	1037.0
6/7/2019	1:01:28 PM	1089.5	976.9
6/7/2019	1:01:29 PM	1101.7	989.1
6/7/2019	1:01:30 PM	1077.9	965.3
6/7/2019	1:01:31 PM	1069.9	957.3
6/7/2019	1:01:32 PM	1058.1	945.5
6/7/2019	1:01:33 PM	1038.7	926.1
6/7/2019	1:01:34 PM	999.7	887.1
6/7/2019	1:01:35 PM	964.6	852.0
6/7/2019	1:01:36 PM	956.7	844.1
6/7/2019	1:01:37 PM	951.7	839.1
6/7/2019	1:01:38 PM	933.3	820.7
6/7/2019	1:01:39 PM	926.0	813.4
6/7/2019	1:01:40 PM	916.9	804.3
6/7/2019	1:01:41 PM	854.8	742.2
6/7/2019	1:01:42 PM	826.8	714.2
6/7/2019	1:01:43 PM	830.4	717.8
6/7/2019	1:01:44 PM	819.0	706.4
6/7/2019	1:01:45 PM	804.4	691.8
6/7/2019	1:01:46 PM	800.3	687.7
6/7/2019	1:01:47 PM	796.0	683.4
6/7/2019	1:01:48 PM	789.3	676.7
6/7/2019	1:01:49 PM	712.8	600.2
6/7/2019	1:01:50 PM	696.9	584.3
6/7/2019	1:01:51 PM	668.9	556.3
6/7/2019	1:01:52 PM	654.2	541.6
6/7/2019	1:01:53 PM	641.0	528.4
6/7/2019	1:01:54 PM	628.3	515.7
6/7/2019	1:01:55 PM	574.4	461.8
6/7/2019	1:01:56 PM	555.2	442.6
6/7/2019	1:01:57 PM	608.1	495.5
6/7/2019	1:01:58 PM	633.9	521.3
6/7/2019	1:01:59 PM	635.2	522.6
6/7/2019	1:02:00 PM	634.4	521.8

APPENDIX E35: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:02:01 PM	638.0	525.4
6/7/2019	1:02:02 PM	642.2	529.6
6/7/2019	1:02:03 PM	647.7	535.1
6/7/2019	1:02:04 PM	650.4	537.8
6/7/2019	1:02:05 PM	653.7	541.1
6/7/2019	1:02:06 PM	701.8	589.2
6/7/2019	1:02:07 PM	728.0	615.4
6/7/2019	1:02:08 PM	773.8	661.2
6/7/2019	1:02:09 PM	841.9	729.3
6/7/2019	1:02:10 PM	844.3	731.7
6/7/2019	1:02:11 PM	889.1	776.5
6/7/2019	1:02:12 PM	858.7	746.1
6/7/2019	1:02:13 PM	849.1	736.5
6/7/2019	1:02:14 PM	827.9	715.3
6/7/2019	1:02:15 PM	831.2	718.6
6/7/2019	1:02:16 PM	815.2	702.6
6/7/2019	1:02:17 PM	808.7	696.1
6/7/2019	1:02:18 PM	805.9	693.3
6/7/2019	1:02:19 PM	806.7	694.1
6/7/2019	1:02:20 PM	862.1	749.5
6/7/2019	1:02:21 PM	891.9	779.3
6/7/2019	1:02:22 PM	779.3	666.7
6/7/2019	1:02:23 PM	761.9	649.3
6/7/2019	1:02:24 PM	762.8	650.2
6/7/2019	1:02:25 PM	750.1	637.5
6/7/2019	1:02:26 PM	749.4	636.8
6/7/2019	1:02:27 PM	750.9	638.3
6/7/2019	1:02:28 PM	750.3	637.7
6/7/2019	1:02:29 PM	750.8	638.2
6/7/2019	1:02:30 PM	750.3	637.7
6/7/2019	1:02:31 PM	748.3	635.7
6/7/2019	1:02:32 PM	747.4	634.8
6/7/2019	1:02:33 PM	746.3	633.7
6/7/2019	1:02:34 PM	745.9	633.3
6/7/2019	1:02:35 PM	743.3	630.7
6/7/2019	1:02:36 PM	657.6	545.0
6/7/2019	1:02:37 PM	643.7	531.1
6/7/2019	1:02:38 PM	603.5	490.9
6/7/2019	1:02:39 PM	597.4	484.8
6/7/2019	1:02:40 PM	594.6	482.0
6/7/2019	1:02:41 PM	592.2	479.6
6/7/2019	1:02:42 PM	548.7	436.1
6/7/2019	1:02:43 PM	557.3	444.7
6/7/2019	1:02:44 PM	550.0	437.4
6/7/2019	1:02:45 PM	542.5	429.9
6/7/2019	1:02:46 PM	534.9	422.3
6/7/2019	1:02:47 PM	525.1	412.5
6/7/2019	1:02:48 PM	517.4	404.8
6/7/2019	1:02:49 PM	509.4	396.8
6/7/2019	1:02:50 PM	501.9	389.3
6/7/2019	1:02:51 PM	440.9	328.3
6/7/2019	1:02:52 PM	423.5	310.9
6/7/2019	1:02:53 PM	417.7	305.1
6/7/2019	1:02:54 PM	413.2	300.6
6/7/2019	1:02:55 PM	410.4	297.8
6/7/2019	1:02:56 PM	409.1	296.5
6/7/2019	1:02:57 PM	406.0	293.4
6/7/2019	1:02:58 PM	402.4	289.8
6/7/2019	1:02:59 PM	398.9	286.3
6/7/2019	1:03:00 PM	394.3	281.7
6/7/2019	1:03:01 PM	390.2	277.6
6/7/2019	1:03:02 PM	386.1	273.5
6/7/2019	1:03:03 PM	383.0	270.4
6/7/2019	1:03:04 PM	380.3	267.7
6/7/2019	1:03:05 PM	378.1	265.5
6/7/2019	1:03:06 PM	375.6	263.0
6/7/2019	1:03:07 PM	371.4	258.8
6/7/2019	1:03:08 PM	365.2	252.6
6/7/2019	1:03:09 PM	359.8	247.2
6/7/2019	1:03:10 PM	354.2	241.6
6/7/2019	1:03:11 PM	348.5	235.9
6/7/2019	1:03:12 PM	343.9	231.3
6/7/2019	1:03:13 PM	339.0	226.4
6/7/2019	1:03:14 PM	335.1	222.5
6/7/2019	1:03:15 PM	330.8	218.2
6/7/2019	1:03:16 PM	327.7	215.1
6/7/2019	1:03:17 PM	324.3	211.7
6/7/2019	1:03:18 PM	321.1	208.5
6/7/2019	1:03:19 PM	317.6	205.0

APPENDIX E35: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:03:20 PM	315.5	202.9
6/7/2019	1:03:21 PM	313.3	200.7
6/7/2019	1:03:22 PM	311.4	198.8
6/7/2019	1:03:23 PM	309.4	196.8
6/7/2019	1:03:24 PM	307.9	195.3
6/7/2019	1:03:25 PM	306.7	194.1
6/7/2019	1:03:26 PM	305.6	193.0
6/7/2019	1:03:27 PM	304.6	192.0
6/7/2019	1:03:28 PM	304.0	191.4
6/7/2019	1:03:29 PM	302.8	190.2
6/7/2019	1:03:30 PM	300.9	188.3
6/7/2019	1:03:31 PM	299.4	186.8
6/7/2019	1:03:32 PM	297.5	184.9
6/7/2019	1:03:33 PM	295.4	182.8
6/7/2019	1:03:34 PM	292.6	180.0
6/7/2019	1:03:35 PM	290.2	177.6
6/7/2019	1:03:36 PM	287.6	175.0
6/7/2019	1:03:37 PM	285.4	172.8
6/7/2019	1:03:38 PM	282.7	170.1
6/7/2019	1:03:39 PM	280.5	167.9
6/7/2019	1:03:40 PM	278.1	165.5
6/7/2019	1:03:41 PM	275.8	163.2
6/7/2019	1:03:42 PM	273.1	160.5
6/7/2019	1:03:43 PM	270.8	158.2
6/7/2019	1:03:44 PM	268.5	155.9
6/7/2019	1:03:45 PM	266.5	153.9
6/7/2019	1:03:46 PM	264.4	151.8
6/7/2019	1:03:47 PM	262.7	150.1
6/7/2019	1:03:48 PM	260.8	148.2
6/7/2019	1:03:49 PM	259.2	146.6
6/7/2019	1:03:50 PM	257.3	144.7
6/7/2019	1:03:51 PM	255.4	142.8
6/7/2019	1:03:52 PM	253.8	141.2
6/7/2019	1:03:53 PM	252.3	139.7
6/7/2019	1:03:54 PM	251.3	138.7
6/7/2019	1:03:55 PM	250.6	138.0
6/7/2019	1:03:56 PM	250.4	137.8
6/7/2019	1:03:57 PM	250.3	137.7
6/7/2019	1:03:58 PM	250.6	138.0
6/7/2019	1:03:59 PM	251.2	138.6
6/7/2019	1:04:00 PM	252.0	139.4
6/7/2019	1:04:01 PM	252.9	140.3
6/7/2019	1:04:02 PM	253.9	141.3
6/7/2019	1:04:03 PM	255.9	143.3
6/7/2019	1:04:04 PM	258.5	145.9
6/7/2019	1:04:05 PM	261.4	148.8
6/7/2019	1:04:06 PM	263.6	151.0
6/7/2019	1:04:07 PM	266.1	153.5
6/7/2019	1:04:08 PM	268.0	155.4
6/7/2019	1:04:09 PM	270.1	157.5
6/7/2019	1:04:10 PM	271.7	159.1
6/7/2019	1:04:11 PM	273.8	161.2
6/7/2019	1:04:12 PM	275.6	163.0
6/7/2019	1:04:13 PM	276.7	164.1
6/7/2019	1:04:14 PM	277.7	165.1
6/7/2019	1:04:15 PM	278.4	165.8
6/7/2019	1:04:16 PM	279.2	166.6
6/7/2019	1:04:17 PM	279.7	167.1
6/7/2019	1:04:18 PM	280.4	167.8
6/7/2019	1:04:19 PM	281.7	169.1
6/7/2019	1:04:20 PM	283.3	170.7
6/7/2019	1:04:21 PM	284.8	172.2
6/7/2019	1:04:22 PM	327.8	215.2
6/7/2019	1:04:23 PM	327.2	214.6
6/7/2019	1:04:24 PM	334.2	221.6
6/7/2019	1:04:25 PM	339.9	227.3
6/7/2019	1:04:26 PM	341.2	228.6
6/7/2019	1:04:27 PM	342.1	229.5
6/7/2019	1:04:28 PM	342.4	229.8
6/7/2019	1:04:29 PM	341.8	229.2
6/7/2019	1:04:30 PM	340.2	227.6
6/7/2019	1:04:31 PM	339.0	226.4
6/7/2019	1:04:32 PM	339.2	226.6
6/7/2019	1:04:33 PM	340.1	227.5
6/7/2019	1:04:34 PM	341.0	228.4
6/7/2019	1:04:35 PM	341.5	228.9
6/7/2019	1:04:36 PM	342.1	229.5
6/7/2019	1:04:37 PM	342.8	230.2
6/7/2019	1:04:38 PM	343.4	230.8

APPENDIX E35: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:04:39 PM	344.1	231.5
6/7/2019	1:04:40 PM	344.7	232.1
6/7/2019	1:04:41 PM	345.4	232.8
6/7/2019	1:04:42 PM	345.8	233.2
6/7/2019	1:04:43 PM	346.5	233.9
6/7/2019	1:04:44 PM	347.0	234.4
6/7/2019	1:04:45 PM	346.7	234.1
6/7/2019	1:04:46 PM	345.8	233.2
6/7/2019	1:04:47 PM	344.2	231.6
6/7/2019	1:04:48 PM	342.6	230.0
6/7/2019	1:04:49 PM	340.8	228.2
6/7/2019	1:04:50 PM	339.1	226.5
6/7/2019	1:04:51 PM	337.3	224.7
6/7/2019	1:04:52 PM	335.6	223.0
6/7/2019	1:04:53 PM	333.6	221.0
6/7/2019	1:04:54 PM	331.6	219.0
6/7/2019	1:04:55 PM	330.1	217.5
6/7/2019	1:04:56 PM	328.3	215.7
6/7/2019	1:04:57 PM	326.5	213.9
6/7/2019	1:04:58 PM	324.9	212.3
6/7/2019	1:04:59 PM	324.2	211.6
6/7/2019	1:05:00 PM	324.1	211.5
6/7/2019	1:05:01 PM	324.2	211.6
6/7/2019	1:05:02 PM	324.6	212.0
6/7/2019	1:05:03 PM	324.9	212.3
6/7/2019	1:05:04 PM	325.3	212.7
6/7/2019	1:05:05 PM	325.9	213.3
6/7/2019	1:05:06 PM	326.6	214.0
6/7/2019	1:05:07 PM	327.1	214.5
6/7/2019	1:05:08 PM	327.8	215.2
6/7/2019	1:05:09 PM	328.7	216.1
6/7/2019	1:05:10 PM	330.4	217.8
6/7/2019	1:05:11 PM	331.8	219.2
6/7/2019	1:05:12 PM	332.6	220.0
6/7/2019	1:05:13 PM	332.7	220.1
6/7/2019	1:05:14 PM	332.7	220.1
6/7/2019	1:05:15 PM	332.5	219.9
6/7/2019	1:05:16 PM	332.2	219.6
6/7/2019	1:05:17 PM	331.7	219.1
6/7/2019	1:05:18 PM	330.9	218.3
6/7/2019	1:05:19 PM	329.9	217.3
6/7/2019	1:05:20 PM	329.0	216.4
6/7/2019	1:05:21 PM	328.1	215.5
6/7/2019	1:05:22 PM	326.9	214.3
6/7/2019	1:05:23 PM	325.3	212.7
6/7/2019	1:05:24 PM	324.0	211.4
6/7/2019	1:05:25 PM	322.7	210.1
6/7/2019	1:05:26 PM	321.8	209.2
6/7/2019	1:05:27 PM	321.1	208.5
6/7/2019	1:05:28 PM	320.4	207.8
6/7/2019	1:05:29 PM	319.9	207.3
6/7/2019	1:05:30 PM	319.7	207.1
6/7/2019	1:05:31 PM	319.7	207.1
6/7/2019	1:05:32 PM	319.6	207.0
6/7/2019	1:05:33 PM	319.6	207.0
6/7/2019	1:05:34 PM	319.9	207.3
6/7/2019	1:05:35 PM	320.2	207.6
6/7/2019	1:05:36 PM	320.5	207.9
6/7/2019	1:05:37 PM	320.7	208.1
6/7/2019	1:05:38 PM	321.3	208.7
6/7/2019	1:05:39 PM	321.4	208.8
6/7/2019	1:05:40 PM	321.2	208.6
6/7/2019	1:05:41 PM	321.1	208.5
6/7/2019	1:05:42 PM	320.3	207.7
6/7/2019	1:05:43 PM	319.4	206.8
6/7/2019	1:05:44 PM	318.1	205.5
6/7/2019	1:05:45 PM	316.7	204.1
6/7/2019	1:05:46 PM	315.1	202.5
6/7/2019	1:05:47 PM	313.5	200.9
6/7/2019	1:05:48 PM	311.4	198.8
6/7/2019	1:05:49 PM	309.8	197.2
6/7/2019	1:05:50 PM	308.3	195.7
6/7/2019	1:05:51 PM	306.8	194.2
6/7/2019	1:05:52 PM	305.4	192.8
6/7/2019	1:05:53 PM	304.4	191.8
6/7/2019	1:05:54 PM	303.5	190.9
6/7/2019	1:05:55 PM	303.0	190.4
6/7/2019	1:05:56 PM	302.7	190.1
6/7/2019	1:05:57 PM	302.6	190.0

APPENDIX E35: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:05:58 PM	302.7	190.1
6/7/2019	1:05:59 PM	303.1	190.5
6/7/2019	1:06:00 PM	303.6	191.0
6/7/2019	1:06:01 PM	304.5	191.9
6/7/2019	1:06:02 PM	305.3	192.7
6/7/2019	1:06:03 PM	306.3	193.7
6/7/2019	1:06:04 PM	307.1	194.5
6/7/2019	1:06:05 PM	307.7	195.1
6/7/2019	1:06:06 PM	308.1	195.5
6/7/2019	1:06:07 PM	308.1	195.5
6/7/2019	1:06:08 PM	308.1	195.5
6/7/2019	1:06:09 PM	308.0	195.4
6/7/2019	1:06:10 PM	307.9	195.3
6/7/2019	1:06:11 PM	307.7	195.1
6/7/2019	1:06:12 PM	307.8	195.2
6/7/2019	1:06:13 PM	307.9	195.3
6/7/2019	1:06:14 PM	308.3	195.7
6/7/2019	1:06:15 PM	308.8	196.2
6/7/2019	1:06:16 PM	309.0	196.4
6/7/2019	1:06:17 PM	309.1	196.5
6/7/2019	1:06:18 PM	309.4	196.8
6/7/2019	1:06:19 PM	309.8	197.2
6/7/2019	1:06:20 PM	310.8	198.2
6/7/2019	1:06:21 PM	311.8	199.2
6/7/2019	1:06:22 PM	313.0	200.4
6/7/2019	1:06:23 PM	314.0	201.4
6/7/2019	1:06:24 PM	315.4	202.8
6/7/2019	1:06:25 PM	316.5	203.9
6/7/2019	1:06:26 PM	317.5	204.9
6/7/2019	1:06:27 PM	318.2	205.6
6/7/2019	1:06:28 PM	319.3	206.7
6/7/2019	1:06:29 PM	320.8	208.2
6/7/2019	1:06:30 PM	323.3	210.7

APPENDIX E35: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A4 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A4 TEST-2	1221	108.8	21.8
SEEP-A4 TEST-2	1222	109.2	21.6
SEEP-A4 TEST-2	1223	107.8	21.8
SEEP-A4 TEST-2	1224	108.6	21.8
Average		108.6	(µS/cms)
Geo Mean		108.6	(µS/cms)
Average (pre-test)		110.6	(µS/cms)
Average (post-test)		142.6	(µS/cms)

Table E3 SEEP-A4 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A4 TEST-2	100	243.7	24.2
SEEP-A4 TEST-2	1,000	2,163	24.2
SEEP-A4 TEST-2	10000	18,130	24.1
SEEP-A4 TEST-2	100,000	133,511	24.1

Table E4 SEEP-A4 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})*\Delta t\}}{K}}$$

Mass of Salt injected	q	150,300	mg
Slope of Calibration Curve	K	1.3399	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	646,633.0	(s) . (µS/cms)
Calculated Flow Rate	Q	0.3	L/s
		4.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:19:50 PM	110.6	-
6/7/2019	1:19:51 PM	110.6	-
6/7/2019	1:19:52 PM	110.6	-
6/7/2019	1:19:53 PM	110.6	-
6/7/2019	1:19:54 PM	110.6	-
6/7/2019	1:19:55 PM	110.6	-
6/7/2019	1:19:56 PM	110.6	-
6/7/2019	1:19:57 PM	110.6	-
6/7/2019	1:19:58 PM	110.6	-
6/7/2019	1:19:59 PM	110.6	-
6/7/2019	1:20:00 PM	110.6	-
6/7/2019	1:20:01 PM	110.5	-
6/7/2019	1:20:02 PM	110.5	-
6/7/2019	1:20:03 PM	110.5	-
6/7/2019	1:20:04 PM	110.5	-
6/7/2019	1:20:05 PM	110.5	-
6/7/2019	1:20:06 PM	110.5	-
6/7/2019	1:20:07 PM	110.5	-
6/7/2019	1:20:08 PM	110.6	-
6/7/2019	1:20:09 PM	110.6	-
6/7/2019	1:20:10 PM	111.2	-
6/7/2019	1:20:11 PM	449.1	338.5
6/7/2019	1:20:12 PM	2476.8	2366.2
6/7/2019	1:20:13 PM	5174.5	5063.9
6/7/2019	1:20:14 PM	7074.2	6963.6
6/7/2019	1:20:15 PM	12451.5	12340.9
6/7/2019	1:20:16 PM	16177.0	16066.4
6/7/2019	1:20:17 PM	21004.6	20894.0
6/7/2019	1:20:18 PM	23476.0	23365.4
6/7/2019	1:20:19 PM	24631.7	24521.1
6/7/2019	1:20:20 PM	25108.0	24997.4
6/7/2019	1:20:21 PM	25045.2	24934.6
6/7/2019	1:20:22 PM	24800.8	24690.2
6/7/2019	1:20:23 PM	22855.0	22744.4
6/7/2019	1:20:24 PM	21212.8	21102.2
6/7/2019	1:20:25 PM	19756.2	19645.6
6/7/2019	1:20:26 PM	18542.5	18431.9
6/7/2019	1:20:27 PM	16384.3	16273.7
6/7/2019	1:20:28 PM	14803.7	14693.1
6/7/2019	1:20:29 PM	13267.4	13156.8
6/7/2019	1:20:30 PM	12464.9	12354.3
6/7/2019	1:20:31 PM	10659.9	10549.3
6/7/2019	1:20:32 PM	9405.6	9295.0
6/7/2019	1:20:33 PM	8222.7	8112.1
6/7/2019	1:20:34 PM	7317.8	7207.2
6/7/2019	1:20:35 PM	6449.9	6339.3
6/7/2019	1:20:36 PM	5863.2	5752.6
6/7/2019	1:20:37 PM	4871.8	4761.2
6/7/2019	1:20:38 PM	4613.4	4502.8
6/7/2019	1:20:39 PM	3753.0	3642.4
6/7/2019	1:20:40 PM	3358.9	3248.3
6/7/2019	1:20:41 PM	2978.3	2867.7
6/7/2019	1:20:42 PM	2679.7	2569.1
6/7/2019	1:20:43 PM	2393.6	2283.0
6/7/2019	1:20:44 PM	2169.4	2058.8
6/7/2019	1:20:45 PM	2053.8	1943.2
6/7/2019	1:20:46 PM	1848.4	1737.8
6/7/2019	1:20:47 PM	1680.3	1569.7
6/7/2019	1:20:48 PM	1563.7	1453.1
6/7/2019	1:20:49 PM	1490.5	1379.9
6/7/2019	1:20:50 PM	1441.3	1330.7
6/7/2019	1:20:51 PM	1256.8	1146.2
6/7/2019	1:20:52 PM	1178.7	1068.1
6/7/2019	1:20:53 PM	1116.6	1006.0
6/7/2019	1:20:54 PM	1090.6	980.0
6/7/2019	1:20:55 PM	992.2	881.6
6/7/2019	1:20:56 PM	942.0	831.4
6/7/2019	1:20:57 PM	905.8	795.2
6/7/2019	1:20:58 PM	872.5	761.9
6/7/2019	1:20:59 PM	858.4	747.8

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:21:00 PM	834.7	724.1
6/7/2019	1:21:01 PM	770.5	659.9
6/7/2019	1:21:02 PM	744.8	634.2
6/7/2019	1:21:03 PM	721.2	610.6
6/7/2019	1:21:04 PM	707.5	596.9
6/7/2019	1:21:05 PM	695.2	584.6
6/7/2019	1:21:06 PM	682.6	572.0
6/7/2019	1:21:07 PM	673.1	562.5
6/7/2019	1:21:08 PM	608.4	497.8
6/7/2019	1:21:09 PM	585.7	475.1
6/7/2019	1:21:10 PM	575.2	464.6
6/7/2019	1:21:11 PM	478.4	367.8
6/7/2019	1:21:12 PM	536.5	425.9
6/7/2019	1:21:13 PM	523.3	412.7
6/7/2019	1:21:14 PM	508.6	398.0
6/7/2019	1:21:15 PM	502.4	391.8
6/7/2019	1:21:16 PM	496.1	385.5
6/7/2019	1:21:17 PM	489.9	379.3
6/7/2019	1:21:18 PM	484.8	374.2
6/7/2019	1:21:19 PM	478.9	368.3
6/7/2019	1:21:20 PM	473.8	363.2
6/7/2019	1:21:21 PM	468.1	357.5
6/7/2019	1:21:22 PM	463.6	353.0
6/7/2019	1:21:23 PM	414.3	303.7
6/7/2019	1:21:24 PM	407.6	297.0
6/7/2019	1:21:25 PM	401.1	290.5
6/7/2019	1:21:26 PM	398.4	287.8
6/7/2019	1:21:27 PM	394.1	283.5
6/7/2019	1:21:28 PM	390.8	280.2
6/7/2019	1:21:29 PM	387.5	276.9
6/7/2019	1:21:30 PM	384.7	274.1
6/7/2019	1:21:31 PM	381.9	271.3
6/7/2019	1:21:32 PM	379.4	268.8
6/7/2019	1:21:33 PM	376.6	266.0
6/7/2019	1:21:34 PM	374.2	263.6
6/7/2019	1:21:35 PM	372.0	261.4
6/7/2019	1:21:36 PM	369.1	258.5
6/7/2019	1:21:37 PM	366.4	255.8
6/7/2019	1:21:38 PM	363.4	252.8
6/7/2019	1:21:39 PM	359.5	248.9
6/7/2019	1:21:40 PM	354.0	243.4
6/7/2019	1:21:41 PM	349.3	238.7
6/7/2019	1:21:42 PM	344.2	233.6
6/7/2019	1:21:43 PM	339.8	229.2
6/7/2019	1:21:44 PM	335.0	224.4
6/7/2019	1:21:45 PM	330.8	220.2
6/7/2019	1:21:46 PM	326.1	215.5
6/7/2019	1:21:47 PM	321.9	211.3
6/7/2019	1:21:48 PM	317.2	206.6
6/7/2019	1:21:49 PM	313.6	203.0
6/7/2019	1:21:50 PM	309.7	199.1
6/7/2019	1:21:51 PM	306.4	195.8
6/7/2019	1:21:52 PM	302.7	192.1
6/7/2019	1:21:53 PM	299.5	188.9
6/7/2019	1:21:54 PM	296.1	185.5
6/7/2019	1:21:55 PM	292.6	182.0
6/7/2019	1:21:56 PM	289.7	179.1
6/7/2019	1:21:57 PM	286.4	175.8
6/7/2019	1:21:58 PM	283.6	173.0
6/7/2019	1:21:59 PM	280.5	169.9
6/7/2019	1:22:00 PM	277.9	167.3
6/7/2019	1:22:01 PM	274.9	164.3
6/7/2019	1:22:02 PM	272.3	161.7
6/7/2019	1:22:03 PM	269.5	158.9
6/7/2019	1:22:04 PM	267.1	156.5
6/7/2019	1:22:05 PM	264.5	153.9
6/7/2019	1:22:06 PM	262.2	151.6
6/7/2019	1:22:07 PM	259.6	149.0
6/7/2019	1:22:08 PM	257.4	146.8
6/7/2019	1:22:09 PM	254.8	144.2
6/7/2019	1:22:10 PM	252.6	142.0
6/7/2019	1:22:11 PM	250.3	139.7
6/7/2019	1:22:12 PM	248.4	137.8
6/7/2019	1:22:13 PM	246.4	135.8
6/7/2019	1:22:14 PM	244.5	133.9
6/7/2019	1:22:15 PM	242.9	132.3
6/7/2019	1:22:16 PM	241.0	130.4

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:22:17 PM	239.3	128.7
6/7/2019	1:22:18 PM	237.4	126.8
6/7/2019	1:22:19 PM	235.7	125.1
6/7/2019	1:22:20 PM	233.9	123.3
6/7/2019	1:22:21 PM	232.3	121.7
6/7/2019	1:22:22 PM	230.5	119.9
6/7/2019	1:22:23 PM	228.9	118.3
6/7/2019	1:22:24 PM	227.0	116.4
6/7/2019	1:22:25 PM	225.3	114.7
6/7/2019	1:22:26 PM	223.4	112.8
6/7/2019	1:22:27 PM	221.9	111.3
6/7/2019	1:22:28 PM	220.2	109.6
6/7/2019	1:22:29 PM	218.9	108.3
6/7/2019	1:22:30 PM	217.3	106.7
6/7/2019	1:22:31 PM	216.0	105.4
6/7/2019	1:22:32 PM	214.6	104.0
6/7/2019	1:22:33 PM	213.5	102.9
6/7/2019	1:22:34 PM	212.2	101.6
6/7/2019	1:22:35 PM	211.0	100.4
6/7/2019	1:22:36 PM	210.0	99.4
6/7/2019	1:22:37 PM	208.9	98.3
6/7/2019	1:22:38 PM	208.0	97.4
6/7/2019	1:22:39 PM	207.0	96.4
6/7/2019	1:22:40 PM	206.1	95.5
6/7/2019	1:22:41 PM	205.1	94.5
6/7/2019	1:22:42 PM	204.1	93.5
6/7/2019	1:22:43 PM	203.0	92.4
6/7/2019	1:22:44 PM	202.1	91.5
6/7/2019	1:22:45 PM	201.1	90.5
6/7/2019	1:22:46 PM	200.3	89.7
6/7/2019	1:22:47 PM	199.4	88.8
6/7/2019	1:22:48 PM	198.6	88.0
6/7/2019	1:22:49 PM	197.6	87.0
6/7/2019	1:22:50 PM	196.7	86.1
6/7/2019	1:22:51 PM	195.7	85.1
6/7/2019	1:22:52 PM	194.8	84.2
6/7/2019	1:22:53 PM	193.7	83.1
6/7/2019	1:22:54 PM	192.8	82.2
6/7/2019	1:22:55 PM	191.8	81.2
6/7/2019	1:22:56 PM	191.0	80.4
6/7/2019	1:22:57 PM	190.2	79.6
6/7/2019	1:22:58 PM	189.3	78.7
6/7/2019	1:22:59 PM	188.5	77.9
6/7/2019	1:23:00 PM	187.7	77.1
6/7/2019	1:23:01 PM	187.0	76.4
6/7/2019	1:23:02 PM	186.3	75.7
6/7/2019	1:23:03 PM	185.7	75.1
6/7/2019	1:23:04 PM	185.1	74.5
6/7/2019	1:23:05 PM	184.5	73.9
6/7/2019	1:23:06 PM	184.0	73.4
6/7/2019	1:23:07 PM	183.5	72.9
6/7/2019	1:23:08 PM	182.9	72.3
6/7/2019	1:23:09 PM	182.4	71.8
6/7/2019	1:23:10 PM	181.9	71.3
6/7/2019	1:23:11 PM	181.4	70.8
6/7/2019	1:23:12 PM	180.8	70.2
6/7/2019	1:23:13 PM	180.4	69.8
6/7/2019	1:23:14 PM	179.9	69.3
6/7/2019	1:23:15 PM	179.5	68.9
6/7/2019	1:23:16 PM	179.0	68.4
6/7/2019	1:23:17 PM	178.5	67.9
6/7/2019	1:23:18 PM	178.0	67.4
6/7/2019	1:23:19 PM	177.4	66.8
6/7/2019	1:23:20 PM	176.7	66.1
6/7/2019	1:23:21 PM	176.0	65.4
6/7/2019	1:23:22 PM	175.2	64.6
6/7/2019	1:23:23 PM	174.4	63.8
6/7/2019	1:23:24 PM	173.6	63.0
6/7/2019	1:23:25 PM	172.8	62.2
6/7/2019	1:23:26 PM	172.0	61.4
6/7/2019	1:23:27 PM	171.2	60.6
6/7/2019	1:23:28 PM	170.4	59.8
6/7/2019	1:23:29 PM	169.5	58.9
6/7/2019	1:23:30 PM	168.8	58.2
6/7/2019	1:23:31 PM	168.1	57.5
6/7/2019	1:23:32 PM	167.5	56.9
6/7/2019	1:23:33 PM	166.9	56.3
6/7/2019	1:23:34 PM	166.5	55.9
6/7/2019	1:23:35 PM	166.1	55.5

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:23:36 PM	165.8	55.2
6/7/2019	1:23:37 PM	165.5	54.9
6/7/2019	1:23:38 PM	165.3	54.7
6/7/2019	1:23:39 PM	165.2	54.6
6/7/2019	1:23:40 PM	165.0	54.4
6/7/2019	1:23:41 PM	165.0	54.4
6/7/2019	1:23:42 PM	165.0	54.4
6/7/2019	1:23:43 PM	165.0	54.4
6/7/2019	1:23:44 PM	165.0	54.4
6/7/2019	1:23:45 PM	165.1	54.5
6/7/2019	1:23:46 PM	165.2	54.6
6/7/2019	1:23:47 PM	165.2	54.6
6/7/2019	1:23:48 PM	165.3	54.7
6/7/2019	1:23:49 PM	165.3	54.7
6/7/2019	1:23:50 PM	165.2	54.6
6/7/2019	1:23:51 PM	165.2	54.6
6/7/2019	1:23:52 PM	165.1	54.5
6/7/2019	1:23:53 PM	165.0	54.4
6/7/2019	1:23:54 PM	164.8	54.2
6/7/2019	1:23:55 PM	164.5	53.9
6/7/2019	1:23:56 PM	164.2	53.6
6/7/2019	1:23:57 PM	163.9	53.3
6/7/2019	1:23:58 PM	163.6	53.0
6/7/2019	1:23:59 PM	163.2	52.6
6/7/2019	1:24:00 PM	162.8	52.2
6/7/2019	1:24:01 PM	162.5	51.9
6/7/2019	1:24:02 PM	162.1	51.5
6/7/2019	1:24:03 PM	161.6	51.0
6/7/2019	1:24:04 PM	161.2	50.6
6/7/2019	1:24:05 PM	160.6	50.0
6/7/2019	1:24:06 PM	160.1	49.5
6/7/2019	1:24:07 PM	159.6	49.0
6/7/2019	1:24:08 PM	159.1	48.5
6/7/2019	1:24:09 PM	158.6	48.0
6/7/2019	1:24:10 PM	158.2	47.6
6/7/2019	1:24:11 PM	157.6	47.0
6/7/2019	1:24:12 PM	157.2	46.6
6/7/2019	1:24:13 PM	156.7	46.1
6/7/2019	1:24:14 PM	156.3	45.7
6/7/2019	1:24:15 PM	155.9	45.3
6/7/2019	1:24:16 PM	155.6	45.0
6/7/2019	1:24:17 PM	155.3	44.7
6/7/2019	1:24:18 PM	155.0	44.4
6/7/2019	1:24:19 PM	154.9	44.3
6/7/2019	1:24:20 PM	154.7	44.1
6/7/2019	1:24:21 PM	154.7	44.1
6/7/2019	1:24:22 PM	154.7	44.1
6/7/2019	1:24:23 PM	154.7	44.1
6/7/2019	1:24:24 PM	154.8	44.2
6/7/2019	1:24:25 PM	155.1	44.5
6/7/2019	1:24:26 PM	155.4	44.8
6/7/2019	1:24:27 PM	155.8	45.2
6/7/2019	1:24:28 PM	156.3	45.7
6/7/2019	1:24:29 PM	156.7	46.1
6/7/2019	1:24:30 PM	157.1	46.5
6/7/2019	1:24:31 PM	157.4	46.8
6/7/2019	1:24:32 PM	157.6	47.0
6/7/2019	1:24:33 PM	157.7	47.1
6/7/2019	1:24:34 PM	157.7	47.1
6/7/2019	1:24:35 PM	157.7	47.1
6/7/2019	1:24:36 PM	157.5	46.9
6/7/2019	1:24:37 PM	157.4	46.8
6/7/2019	1:24:38 PM	157.1	46.5
6/7/2019	1:24:39 PM	156.8	46.2
6/7/2019	1:24:40 PM	156.6	46.0
6/7/2019	1:24:41 PM	156.3	45.7
6/7/2019	1:24:42 PM	156.2	45.6
6/7/2019	1:24:43 PM	156.0	45.4
6/7/2019	1:24:44 PM	155.9	45.3
6/7/2019	1:24:45 PM	155.8	45.2
6/7/2019	1:24:46 PM	155.7	45.1
6/7/2019	1:24:47 PM	155.6	45.0
6/7/2019	1:24:48 PM	155.5	44.9
6/7/2019	1:24:49 PM	155.4	44.8
6/7/2019	1:24:50 PM	155.3	44.7
6/7/2019	1:24:51 PM	155.0	44.4
6/7/2019	1:24:52 PM	154.8	44.2
6/7/2019	1:24:53 PM	154.3	43.7
6/7/2019	1:24:54 PM	153.9	43.3

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:24:55 PM	153.2	42.6
6/7/2019	1:24:56 PM	152.6	42.0
6/7/2019	1:24:57 PM	151.9	41.3
6/7/2019	1:24:58 PM	151.3	40.7
6/7/2019	1:24:59 PM	150.6	40.0
6/7/2019	1:25:00 PM	149.9	39.3
6/7/2019	1:25:01 PM	149.4	38.8
6/7/2019	1:25:02 PM	148.8	38.2
6/7/2019	1:25:03 PM	148.3	37.7
6/7/2019	1:25:04 PM	147.8	37.2
6/7/2019	1:25:05 PM	147.3	36.7
6/7/2019	1:25:06 PM	146.8	36.2
6/7/2019	1:25:07 PM	146.4	35.8
6/7/2019	1:25:08 PM	145.9	35.3
6/7/2019	1:25:09 PM	145.6	35.0
6/7/2019	1:25:10 PM	145.3	34.7
6/7/2019	1:25:11 PM	145.1	34.5
6/7/2019	1:25:12 PM	144.9	34.3
6/7/2019	1:25:13 PM	144.8	34.2
6/7/2019	1:25:14 PM	144.8	34.2
6/7/2019	1:25:15 PM	144.7	34.1
6/7/2019	1:25:16 PM	144.6	34.0
6/7/2019	1:25:17 PM	144.5	33.9
6/7/2019	1:25:18 PM	144.4	33.8
6/7/2019	1:25:19 PM	144.4	33.8
6/7/2019	1:25:20 PM	144.3	33.7
6/7/2019	1:25:21 PM	144.3	33.7
6/7/2019	1:25:22 PM	144.3	33.7
6/7/2019	1:25:23 PM	144.2	33.6
6/7/2019	1:25:24 PM	144.2	33.6
6/7/2019	1:25:25 PM	144.2	33.6
6/7/2019	1:25:26 PM	144.2	33.6
6/7/2019	1:25:27 PM	144.2	33.6
6/7/2019	1:25:28 PM	144.2	33.6
6/7/2019	1:25:29 PM	144.3	33.7
6/7/2019	1:25:30 PM	144.4	33.8
6/7/2019	1:25:31 PM	144.5	33.9
6/7/2019	1:25:32 PM	144.7	34.1
6/7/2019	1:25:33 PM	144.9	34.3
6/7/2019	1:25:34 PM	145.1	34.5
6/7/2019	1:25:35 PM	145.2	34.6
6/7/2019	1:25:36 PM	145.3	34.7
6/7/2019	1:25:37 PM	145.3	34.7
6/7/2019	1:25:38 PM	145.3	34.7
6/7/2019	1:25:39 PM	145.3	34.7
6/7/2019	1:25:40 PM	145.2	34.6
6/7/2019	1:25:41 PM	145.1	34.5
6/7/2019	1:25:42 PM	145.0	34.4
6/7/2019	1:25:43 PM	144.9	34.3
6/7/2019	1:25:44 PM	144.7	34.1
6/7/2019	1:25:45 PM	144.4	33.8
6/7/2019	1:25:46 PM	144.2	33.6
6/7/2019	1:25:47 PM	143.9	33.3
6/7/2019	1:25:48 PM	143.6	33.0
6/7/2019	1:25:49 PM	143.4	32.8
6/7/2019	1:25:50 PM	143.1	32.5
6/7/2019	1:25:51 PM	143.0	32.4
6/7/2019	1:25:52 PM	142.8	32.2
6/7/2019	1:25:53 PM	142.7	32.1
6/7/2019	1:25:54 PM	142.6	32.0
6/7/2019	1:25:55 PM	142.5	31.9
6/7/2019	1:25:56 PM	142.4	31.8
6/7/2019	1:25:57 PM	142.2	31.6
6/7/2019	1:25:58 PM	142.1	31.5
6/7/2019	1:25:59 PM	142.0	31.4
6/7/2019	1:26:00 PM	141.9	31.3
6/7/2019	1:26:01 PM	141.7	31.1
6/7/2019	1:26:02 PM	141.6	31.0
6/7/2019	1:26:03 PM	141.5	30.9
6/7/2019	1:26:04 PM	141.4	30.8
6/7/2019	1:26:05 PM	141.2	30.6
6/7/2019	1:26:06 PM	141.1	30.5
6/7/2019	1:26:07 PM	140.9	30.3
6/7/2019	1:26:08 PM	140.8	30.2
6/7/2019	1:26:09 PM	140.7	30.1
6/7/2019	1:26:10 PM	140.6	30.0
6/7/2019	1:26:11 PM	140.6	30.0
6/7/2019	1:26:12 PM	140.6	30.0
6/7/2019	1:26:13 PM	140.6	30.0

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:26:14 PM	140.6	30.0
6/7/2019	1:26:15 PM	140.7	30.1
6/7/2019	1:26:16 PM	140.8	30.2
6/7/2019	1:26:17 PM	140.9	30.3
6/7/2019	1:26:18 PM	141.0	30.4
6/7/2019	1:26:19 PM	141.1	30.5
6/7/2019	1:26:20 PM	141.2	30.6
6/7/2019	1:26:21 PM	141.2	30.6
6/7/2019	1:26:22 PM	141.2	30.6
6/7/2019	1:26:23 PM	141.2	30.6
6/7/2019	1:26:24 PM	141.1	30.5
6/7/2019	1:26:25 PM	141.2	30.6
6/7/2019	1:26:26 PM	141.2	30.6
6/7/2019	1:26:27 PM	141.3	30.7
6/7/2019	1:26:28 PM	141.4	30.8
6/7/2019	1:26:29 PM	141.4	30.8
6/7/2019	1:26:30 PM	141.4	30.8
6/7/2019	1:26:31 PM	141.4	30.8
6/7/2019	1:26:32 PM	141.3	30.7
6/7/2019	1:26:33 PM	141.3	30.7
6/7/2019	1:26:34 PM	141.2	30.6
6/7/2019	1:26:35 PM	141.2	30.6
6/7/2019	1:26:36 PM	141.3	30.7
6/7/2019	1:26:37 PM	141.3	30.7
6/7/2019	1:26:38 PM	141.3	30.7
6/7/2019	1:26:39 PM	141.2	30.6
6/7/2019	1:26:40 PM	141.1	30.5
6/7/2019	1:26:41 PM	140.9	30.3
6/7/2019	1:26:42 PM	140.8	30.2
6/7/2019	1:26:43 PM	140.6	30.0
6/7/2019	1:26:44 PM	140.6	30.0
6/7/2019	1:26:45 PM	140.5	29.9
6/7/2019	1:26:46 PM	140.5	29.9
6/7/2019	1:26:47 PM	140.5	29.9
6/7/2019	1:26:48 PM	140.5	29.9
6/7/2019	1:26:49 PM	140.5	29.9
6/7/2019	1:26:50 PM	140.5	29.9
6/7/2019	1:26:51 PM	140.5	29.9
6/7/2019	1:26:52 PM	140.6	30.0
6/7/2019	1:26:53 PM	140.7	30.1
6/7/2019	1:26:54 PM	140.7	30.1
6/7/2019	1:26:55 PM	140.8	30.2
6/7/2019	1:26:56 PM	140.9	30.3
6/7/2019	1:26:57 PM	141.0	30.4
6/7/2019	1:26:58 PM	141.1	30.5
6/7/2019	1:26:59 PM	141.2	30.6
6/7/2019	1:27:00 PM	141.3	30.7
6/7/2019	1:27:01 PM	141.5	30.9
6/7/2019	1:27:02 PM	141.6	31.0
6/7/2019	1:27:03 PM	141.8	31.2
6/7/2019	1:27:04 PM	142.0	31.4
6/7/2019	1:27:05 PM	142.2	31.6
6/7/2019	1:27:06 PM	142.5	31.9
6/7/2019	1:27:07 PM	142.6	32.0
6/7/2019	1:27:08 PM	142.8	32.2
6/7/2019	1:27:09 PM	143.0	32.4
6/7/2019	1:27:10 PM	143.1	32.5
6/7/2019	1:27:11 PM	143.2	32.6
6/7/2019	1:27:12 PM	143.2	32.6
6/7/2019	1:27:13 PM	143.3	32.7
6/7/2019	1:27:14 PM	143.3	32.7
6/7/2019	1:27:15 PM	143.3	32.7
6/7/2019	1:27:16 PM	143.3	32.7
6/7/2019	1:27:17 PM	143.2	32.6
6/7/2019	1:27:18 PM	143.1	32.5
6/7/2019	1:27:19 PM	143.1	32.5
6/7/2019	1:27:20 PM	142.9	32.3
6/7/2019	1:27:21 PM	142.9	32.3
6/7/2019	1:27:22 PM	142.8	32.2
6/7/2019	1:27:23 PM	142.7	32.1
6/7/2019	1:27:24 PM	142.6	32.0
6/7/2019	1:27:25 PM	142.5	31.9
6/7/2019	1:27:26 PM	142.5	31.9
6/7/2019	1:27:27 PM	142.4	31.8
6/7/2019	1:27:28 PM	142.4	31.8
6/7/2019	1:27:29 PM	142.4	31.8
6/7/2019	1:27:30 PM	142.4	31.8
6/7/2019	1:27:31 PM	142.4	31.8
6/7/2019	1:27:32 PM	142.4	31.8

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-A4 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	1:27:33 PM	142.5	31.9
6/7/2019	1:27:34 PM	142.5	31.9
6/7/2019	1:27:35 PM	142.5	31.9
6/7/2019	1:27:36 PM	142.5	31.9
6/7/2019	1:27:37 PM	142.4	31.8
6/7/2019	1:27:38 PM	142.3	31.7
6/7/2019	1:27:39 PM	142.2	31.6
6/7/2019	1:27:40 PM	142.0	31.4
6/7/2019	1:27:41 PM	141.8	31.2
6/7/2019	1:27:42 PM	141.5	30.9
6/7/2019	1:27:43 PM	141.2	30.6
6/7/2019	1:27:44 PM	141.0	30.4
6/7/2019	1:27:45 PM	140.8	30.2
6/7/2019	1:27:46 PM	140.6	30.0
6/7/2019	1:27:47 PM	140.5	29.9
6/7/2019	1:27:48 PM	140.5	29.9
6/7/2019	1:27:49 PM	140.5	29.9
6/7/2019	1:27:50 PM	140.6	30.0
6/7/2019	1:27:51 PM	140.7	30.1
6/7/2019	1:27:52 PM	140.7	30.1
6/7/2019	1:27:53 PM	140.9	30.3
6/7/2019	1:27:54 PM	141.0	30.4
6/7/2019	1:27:55 PM	141.2	30.6
6/7/2019	1:27:56 PM	141.4	30.8
6/7/2019	1:27:57 PM	141.6	31.0
6/7/2019	1:27:58 PM	141.8	31.2
6/7/2019	1:27:59 PM	142.0	31.4
6/7/2019	1:28:00 PM	142.1	31.5
6/7/2019	1:28:01 PM	142.2	31.6
6/7/2019	1:28:02 PM	142.3	31.7
6/7/2019	1:28:03 PM	142.5	31.9
6/7/2019	1:28:04 PM	142.7	32.1
6/7/2019	1:28:05 PM	143.1	32.5
6/7/2019	1:28:06 PM	143.4	32.8
6/7/2019	1:28:07 PM	143.8	33.2
6/7/2019	1:28:08 PM	144.1	33.5
6/7/2019	1:28:09 PM	144.4	33.8
6/7/2019	1:28:10 PM	144.7	34.1
6/7/2019	1:28:11 PM	145.0	34.4
6/7/2019	1:28:12 PM	145.3	34.7
6/7/2019	1:28:13 PM	145.6	35.0
6/7/2019	1:28:14 PM	145.9	35.3
6/7/2019	1:28:15 PM	146.3	35.7
6/7/2019	1:28:16 PM	146.6	36.0

APPENDIX E36: SALT DILUTION GAUGING SUMMARY
SEEP-A4 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-A4 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-A4 TEST-3	1221	108.8	21.8
SEEP-A4 TEST-3	1222	109.2	21.6
SEEP-A4 TEST-3	1223	107.8	21.8
SEEP-A4 TEST-3	1224	108.6	21.8
Average		108.6	(µS/cms)
Geo Mean		108.6	(µS/cms)
Average (pre-test)		110.6	(µS/cms)
Average (post-test)		142.6	(µS/cms)

Table E3 SEEP-A4 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-A4 TEST-3	100	243.7	24.2
SEEP-A4 TEST-3	1,000	2,163	24.2
SEEP-A4 TEST-3	10000	18,130	24.1
SEEP-A4 TEST-3	100,000	133,511	24.1

Table E4 SEEP-A4 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	149,800	mg
Slope of Calibration Curve	K	1.3399	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	455,011.3	(s) . (µS/cms)
Calculated Flow Rate	Q	0.4	L/s
		7.0	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E37: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:35:24 PM	112.4	-
2/5/2019	1:35:25 PM	112.3	-
2/5/2019	1:35:26 PM	112.3	-
2/5/2019	1:35:27 PM	112.2	-
2/5/2019	1:35:28 PM	112.2	-
2/5/2019	1:35:29 PM	112.1	-
2/5/2019	1:35:30 PM	112.1	-
2/5/2019	1:35:31 PM	112.0	-
2/5/2019	1:35:32 PM	111.9	-
2/5/2019	1:35:33 PM	111.8	-
2/5/2019	1:35:34 PM	111.8	-
2/5/2019	1:35:35 PM	111.7	-
2/5/2019	1:35:36 PM	111.6	-
2/5/2019	1:35:37 PM	111.6	-
2/5/2019	1:35:38 PM	111.6	-
2/5/2019	1:35:39 PM	111.5	-
2/5/2019	1:35:40 PM	111.5	-
2/5/2019	1:35:41 PM	111.4	-
2/5/2019	1:35:42 PM	111.4	-
2/5/2019	1:35:43 PM	111.3	-
2/5/2019	1:35:44 PM	111.3	-
2/5/2019	1:35:45 PM	111.2	-
2/5/2019	1:35:46 PM	111.2	-
2/5/2019	1:35:47 PM	111.1	-
2/5/2019	1:35:48 PM	111.1	-
2/5/2019	1:35:49 PM	111.0	-
2/5/2019	1:35:50 PM	111.0	-
2/5/2019	1:35:51 PM	110.9	-
2/5/2019	1:35:52 PM	110.8	-
2/5/2019	1:35:53 PM	110.8	-
2/5/2019	1:35:54 PM	110.7	-
2/5/2019	1:35:55 PM	110.7	-
2/5/2019	1:35:56 PM	110.6	-
2/5/2019	1:35:57 PM	110.6	-
2/5/2019	1:35:58 PM	110.6	-
2/5/2019	1:35:59 PM	110.5	-
2/5/2019	1:36:00 PM	110.5	-
2/5/2019	1:36:01 PM	110.4	-
2/5/2019	1:36:02 PM	110.4	-
2/5/2019	1:36:03 PM	110.4	-
2/5/2019	1:36:04 PM	110.4	-
2/5/2019	1:36:05 PM	110.6	-
2/5/2019	1:36:06 PM	111.3	-
2/5/2019	1:36:07 PM	113.0	1.7
2/5/2019	1:36:08 PM	182.5	71.2
2/5/2019	1:36:09 PM	243.0	131.7
2/5/2019	1:36:10 PM	389.8	278.5
2/5/2019	1:36:11 PM	499.9	388.6
2/5/2019	1:36:12 PM	622.6	511.3
2/5/2019	1:36:13 PM	702.1	590.8
2/5/2019	1:36:14 PM	1040.7	929.4
2/5/2019	1:36:15 PM	1027.8	916.5
2/5/2019	1:36:16 PM	1420.7	1309.4
2/5/2019	1:36:17 PM	1531.8	1420.5
2/5/2019	1:36:18 PM	1689.5	1578.2
2/5/2019	1:36:19 PM	1725.0	1613.7
2/5/2019	1:36:20 PM	1792.2	1680.9
2/5/2019	1:36:21 PM	1979.8	1868.5
2/5/2019	1:36:22 PM	2022.2	1910.9
2/5/2019	1:36:23 PM	2018.6	1907.3
2/5/2019	1:36:24 PM	2016.1	1904.8
2/5/2019	1:36:25 PM	2004.2	1892.9
2/5/2019	1:36:26 PM	1989.4	1878.1
2/5/2019	1:36:27 PM	1969.2	1857.9
2/5/2019	1:36:28 PM	1825.2	1713.9
2/5/2019	1:36:29 PM	1781.2	1669.9
2/5/2019	1:36:30 PM	1721.0	1609.7
2/5/2019	1:36:31 PM	1685.7	1574.4
2/5/2019	1:36:32 PM	1636.6	1525.3
2/5/2019	1:36:33 PM	1601.5	1490.2

APPENDIX E37: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:36:34 PM	1459.6	1348.3
2/5/2019	1:36:35 PM	1373.1	1261.8
2/5/2019	1:36:36 PM	1316.7	1205.4
2/5/2019	1:36:37 PM	1291.2	1179.9
2/5/2019	1:36:38 PM	1184.0	1072.7
2/5/2019	1:36:39 PM	1142.8	1031.5
2/5/2019	1:36:40 PM	1082.5	971.2
2/5/2019	1:36:41 PM	1040.7	929.4
2/5/2019	1:36:42 PM	1024.7	913.4
2/5/2019	1:36:43 PM	937.1	825.8
2/5/2019	1:36:44 PM	893.4	782.1
2/5/2019	1:36:45 PM	853.0	741.7
2/5/2019	1:36:46 PM	826.4	715.1
2/5/2019	1:36:47 PM	787.7	676.4
2/5/2019	1:36:48 PM	717.3	606.0
2/5/2019	1:36:49 PM	669.4	558.1
2/5/2019	1:36:50 PM	644.9	533.6
2/5/2019	1:36:51 PM	614.7	503.4
2/5/2019	1:36:52 PM	561.1	449.8
2/5/2019	1:36:53 PM	547.7	436.4
2/5/2019	1:36:54 PM	527.5	416.2
2/5/2019	1:36:55 PM	503.8	392.5
2/5/2019	1:36:56 PM	496.5	385.2
2/5/2019	1:36:57 PM	486.7	375.4
2/5/2019	1:36:58 PM	476.3	365.0
2/5/2019	1:36:59 PM	419.1	307.8
2/5/2019	1:37:00 PM	399.7	288.4
2/5/2019	1:37:01 PM	379.2	267.9
2/5/2019	1:37:02 PM	367.5	256.2
2/5/2019	1:37:03 PM	360.3	249.0
2/5/2019	1:37:04 PM	351.0	239.7
2/5/2019	1:37:05 PM	342.1	230.8
2/5/2019	1:37:06 PM	334.6	223.3
2/5/2019	1:37:07 PM	328.3	217.0
2/5/2019	1:37:08 PM	321.2	209.9
2/5/2019	1:37:09 PM	315.5	204.2
2/5/2019	1:37:10 PM	262.6	151.3
2/5/2019	1:37:11 PM	256.1	144.8
2/5/2019	1:37:12 PM	245.6	134.3
2/5/2019	1:37:13 PM	242.8	131.5
2/5/2019	1:37:14 PM	237.7	126.4
2/5/2019	1:37:15 PM	232.7	121.4
2/5/2019	1:37:16 PM	228.2	116.9
2/5/2019	1:37:17 PM	225.1	113.8
2/5/2019	1:37:18 PM	221.6	110.3
2/5/2019	1:37:19 PM	218.7	107.4
2/5/2019	1:37:20 PM	215.7	104.4
2/5/2019	1:37:21 PM	213.1	101.8
2/5/2019	1:37:22 PM	210.3	99.0
2/5/2019	1:37:23 PM	208.0	96.7
2/5/2019	1:37:24 PM	205.5	94.2
2/5/2019	1:37:25 PM	203.4	92.1
2/5/2019	1:37:26 PM	199.0	87.7
2/5/2019	1:37:27 PM	194.4	83.1
2/5/2019	1:37:28 PM	189.8	78.5
2/5/2019	1:37:29 PM	186.0	74.7
2/5/2019	1:37:30 PM	181.7	70.4
2/5/2019	1:37:31 PM	178.1	66.8
2/5/2019	1:37:32 PM	174.4	63.1
2/5/2019	1:37:33 PM	171.3	60.0
2/5/2019	1:37:34 PM	168.0	56.7
2/5/2019	1:37:35 PM	165.3	54.0
2/5/2019	1:37:36 PM	162.4	51.1
2/5/2019	1:37:37 PM	159.9	48.6
2/5/2019	1:37:38 PM	157.2	45.9
2/5/2019	1:37:39 PM	154.9	43.6
2/5/2019	1:37:40 PM	152.6	41.3
2/5/2019	1:37:41 PM	150.6	39.3
2/5/2019	1:37:42 PM	148.6	37.3
2/5/2019	1:37:43 PM	147.0	35.7
2/5/2019	1:37:44 PM	145.2	33.9
2/5/2019	1:37:45 PM	143.8	32.5
2/5/2019	1:37:46 PM	142.2	30.9
2/5/2019	1:37:47 PM	140.9	29.6
2/5/2019	1:37:48 PM	139.5	28.2
2/5/2019	1:37:49 PM	138.3	27.0
2/5/2019	1:37:50 PM	137.1	25.8

APPENDIX E37: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:37:51 PM	135.9	24.6
2/5/2019	1:37:52 PM	134.9	23.6
2/5/2019	1:37:53 PM	133.9	22.6
2/5/2019	1:37:54 PM	133.0	21.7
2/5/2019	1:37:55 PM	132.0	20.7
2/5/2019	1:37:56 PM	131.2	19.9
2/5/2019	1:37:57 PM	130.3	19.0
2/5/2019	1:37:58 PM	129.6	18.3
2/5/2019	1:37:59 PM	128.8	17.5
2/5/2019	1:38:00 PM	128.1	16.8
2/5/2019	1:38:01 PM	127.4	16.1
2/5/2019	1:38:02 PM	126.8	15.5
2/5/2019	1:38:03 PM	126.1	14.8
2/5/2019	1:38:04 PM	125.6	14.3
2/5/2019	1:38:05 PM	124.9	13.6
2/5/2019	1:38:06 PM	124.4	13.1
2/5/2019	1:38:07 PM	123.8	12.5
2/5/2019	1:38:08 PM	123.3	12.0
2/5/2019	1:38:09 PM	122.8	11.5
2/5/2019	1:38:10 PM	122.4	11.1
2/5/2019	1:38:11 PM	121.9	10.6
2/5/2019	1:38:12 PM	121.5	10.2
2/5/2019	1:38:13 PM	121.1	9.8
2/5/2019	1:38:14 PM	120.8	9.5
2/5/2019	1:38:15 PM	120.4	9.1
2/5/2019	1:38:16 PM	120.1	8.8
2/5/2019	1:38:17 PM	119.7	8.4
2/5/2019	1:38:18 PM	119.4	8.1
2/5/2019	1:38:19 PM	119.1	7.8
2/5/2019	1:38:20 PM	118.8	7.5
2/5/2019	1:38:21 PM	118.5	7.2
2/5/2019	1:38:22 PM	118.2	6.9
2/5/2019	1:38:23 PM	117.9	6.6
2/5/2019	1:38:24 PM	117.7	6.4
2/5/2019	1:38:25 PM	117.4	6.1
2/5/2019	1:38:26 PM	117.2	5.9
2/5/2019	1:38:27 PM	117.0	5.7
2/5/2019	1:38:28 PM	116.8	5.5
2/5/2019	1:38:29 PM	116.5	5.2
2/5/2019	1:38:30 PM	116.3	5.0
2/5/2019	1:38:31 PM	116.1	4.8
2/5/2019	1:38:32 PM	115.8	4.5
2/5/2019	1:38:33 PM	115.7	4.4
2/5/2019	1:38:34 PM	115.5	4.2
2/5/2019	1:38:35 PM	115.3	4.0
2/5/2019	1:38:36 PM	115.1	3.8
2/5/2019	1:38:37 PM	115.0	3.7
2/5/2019	1:38:38 PM	114.7	3.4
2/5/2019	1:38:39 PM	114.5	3.2
2/5/2019	1:38:40 PM	114.4	3.1
2/5/2019	1:38:41 PM	114.2	2.9
2/5/2019	1:38:42 PM	114.1	2.8
2/5/2019	1:38:43 PM	114.0	2.7
2/5/2019	1:38:44 PM	113.8	2.5
2/5/2019	1:38:45 PM	113.7	2.4
2/5/2019	1:38:46 PM	113.5	2.2
2/5/2019	1:38:47 PM	113.4	2.1
2/5/2019	1:38:48 PM	113.3	2.0
2/5/2019	1:38:49 PM	113.2	1.9
2/5/2019	1:38:50 PM	113.1	1.8
2/5/2019	1:38:51 PM	113.0	1.7
2/5/2019	1:38:52 PM	112.9	1.6
2/5/2019	1:38:53 PM	112.7	1.4
2/5/2019	1:38:54 PM	112.6	1.3
2/5/2019	1:38:55 PM	112.5	1.2
2/5/2019	1:38:56 PM	112.4	1.1
2/5/2019	1:38:57 PM	112.3	1.0
2/5/2019	1:38:58 PM	112.2	0.9
2/5/2019	1:38:59 PM	112.2	0.9
2/5/2019	1:39:00 PM	112.1	0.8
2/5/2019	1:39:01 PM	112.0	-
2/5/2019	1:39:02 PM	111.9	-
2/5/2019	1:39:03 PM	111.8	-
2/5/2019	1:39:04 PM	111.7	-
2/5/2019	1:39:05 PM	111.6	-
2/5/2019	1:39:06 PM	111.5	-
2/5/2019	1:39:07 PM	111.5	-
2/5/2019	1:39:08 PM	111.4	-
2/5/2019	1:39:09 PM	111.3	-

APPENDIX E37: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:39:10 PM	111.2	-
2/5/2019	1:39:11 PM	111.2	-
2/5/2019	1:39:12 PM	111.1	-
2/5/2019	1:39:13 PM	111.0	-
2/5/2019	1:39:14 PM	111.0	-
2/5/2019	1:39:15 PM	110.9	-
2/5/2019	1:39:16 PM	110.9	-
2/5/2019	1:39:17 PM	110.8	-
2/5/2019	1:39:18 PM	110.7	-
2/5/2019	1:39:19 PM	110.7	-
2/5/2019	1:39:20 PM	110.6	-
2/5/2019	1:39:21 PM	110.6	-
2/5/2019	1:39:22 PM	110.5	-
2/5/2019	1:39:23 PM	110.4	-
2/5/2019	1:39:24 PM	110.4	-
2/5/2019	1:39:25 PM	110.3	-

APPENDIX E37: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-B1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-1	1259	106.3	16
SEEP-B2 TEST-1	1301	105.9	16
SEEP-B2 TEST-1	1306	107.8	16
SEEP-B2 TEST-1	1307	106.1	15.7
Average		106.5	
Geo Mean		106.5	(µS/cms)
Average (pre-test)		111.3	(µS/cms)
Average (post-test)		111.1	(µS/cms)

Table E3 SEEP-B1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2 TEST-1	10	49.5	21.8
SEEP-B2 TEST-1	100	194	22.2
SEEP-B2 TEST-1	1,000	14,050	21.8
SEEP-B2 TEST-1	10,000	109,408	21.7

Table E4 SEEP-B1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,100	mg
Slope of Calibration Curve	K	1.0972	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	59,257.0	(s) . (µS/cms)
Calculated Flow Rate	Q	5.6	L/s
		88.2	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E38: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:52:29 PM	106.8	-
2/5/2019	1:52:30 PM	106.8	-
2/5/2019	1:52:31 PM	106.8	-
2/5/2019	1:52:32 PM	106.7	-
2/5/2019	1:52:33 PM	106.7	-
2/5/2019	1:52:34 PM	106.7	-
2/5/2019	1:52:35 PM	106.7	-
2/5/2019	1:52:36 PM	106.7	-
2/5/2019	1:52:37 PM	106.7	-
2/5/2019	1:52:38 PM	106.7	-
2/5/2019	1:52:39 PM	106.7	-
2/5/2019	1:52:40 PM	106.7	-
2/5/2019	1:52:41 PM	106.7	-
2/5/2019	1:52:42 PM	106.8	-
2/5/2019	1:52:43 PM	106.8	-
2/5/2019	1:52:44 PM	106.9	-
2/5/2019	1:52:45 PM	107.0	-
2/5/2019	1:52:46 PM	107.0	-
2/5/2019	1:52:47 PM	107.1	-
2/5/2019	1:52:48 PM	107.1	-
2/5/2019	1:52:49 PM	107.2	-
2/5/2019	1:52:50 PM	107.3	-
2/5/2019	1:52:51 PM	107.3	-
2/5/2019	1:52:52 PM	107.4	-
2/5/2019	1:52:53 PM	107.4	-
2/5/2019	1:52:54 PM	107.5	-
2/5/2019	1:52:55 PM	107.5	-
2/5/2019	1:52:56 PM	107.5	-
2/5/2019	1:52:57 PM	107.4	-
2/5/2019	1:52:58 PM	107.4	-
2/5/2019	1:52:59 PM	107.4	-
2/5/2019	1:53:00 PM	107.4	-
2/5/2019	1:53:01 PM	107.4	-
2/5/2019	1:53:02 PM	107.4	-
2/5/2019	1:53:03 PM	107.4	-
2/5/2019	1:53:04 PM	107.4	-
2/5/2019	1:53:05 PM	107.4	-
2/5/2019	1:53:06 PM	107.4	-
2/5/2019	1:53:07 PM	107.4	-
2/5/2019	1:53:08 PM	107.4	-
2/5/2019	1:53:09 PM	107.5	-
2/5/2019	1:53:10 PM	107.8	-
2/5/2019	1:53:11 PM	109.1	2.0
2/5/2019	1:53:12 PM	158.8	51.7
2/5/2019	1:53:13 PM	225.1	118.0
2/5/2019	1:53:14 PM	315.4	208.3
2/5/2019	1:53:15 PM	443.3	336.2
2/5/2019	1:53:16 PM	559.6	452.5
2/5/2019	1:53:17 PM	733.7	626.6
2/5/2019	1:53:18 PM	1055.7	948.6
2/5/2019	1:53:19 PM	1324.5	1217.4
2/5/2019	1:53:20 PM	1506.0	1398.9
2/5/2019	1:53:21 PM	1724.2	1617.1
2/5/2019	1:53:22 PM	1871.7	1764.6
2/5/2019	1:53:23 PM	1958.2	1851.1
2/5/2019	1:53:24 PM	2011.8	1904.7
2/5/2019	1:53:25 PM	2066.0	1958.9
2/5/2019	1:53:26 PM	2098.8	1991.7
2/5/2019	1:53:27 PM	2120.8	2013.7
2/5/2019	1:53:28 PM	2129.7	2022.6
2/5/2019	1:53:29 PM	2130.6	2023.5
2/5/2019	1:53:30 PM	2124.5	2017.4
2/5/2019	1:53:31 PM	1991.8	1884.7
2/5/2019	1:53:32 PM	1930.0	1822.9
2/5/2019	1:53:33 PM	1867.1	1760.0
2/5/2019	1:53:34 PM	1808.3	1701.2
2/5/2019	1:53:35 PM	1777.5	1670.4
2/5/2019	1:53:36 PM	1636.1	1529.0
2/5/2019	1:53:37 PM	1580.3	1473.2
2/5/2019	1:53:38 PM	1497.1	1390.0

APPENDIX E38: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:53:39 PM	1445.1	1338.0
2/5/2019	1:53:40 PM	1406.6	1299.5
2/5/2019	1:53:41 PM	1289.4	1182.3
2/5/2019	1:53:42 PM	1215.6	1108.5
2/5/2019	1:53:43 PM	1161.8	1054.7
2/5/2019	1:53:44 PM	1114.2	1007.1
2/5/2019	1:53:45 PM	1089.0	981.9
2/5/2019	1:53:46 PM	1051.0	943.9
2/5/2019	1:53:47 PM	937.3	830.2
2/5/2019	1:53:48 PM	883.8	776.7
2/5/2019	1:53:49 PM	841.0	733.9
2/5/2019	1:53:50 PM	824.5	717.4
2/5/2019	1:53:51 PM	753.6	646.5
2/5/2019	1:53:52 PM	715.4	608.3
2/5/2019	1:53:53 PM	684.5	577.4
2/5/2019	1:53:54 PM	652.1	545.0
2/5/2019	1:53:55 PM	637.8	530.7
2/5/2019	1:53:56 PM	548.2	441.1
2/5/2019	1:53:57 PM	549.8	442.7
2/5/2019	1:53:58 PM	524.8	417.7
2/5/2019	1:53:59 PM	509.8	402.7
2/5/2019	1:54:00 PM	491.6	384.5
2/5/2019	1:54:01 PM	478.2	371.1
2/5/2019	1:54:02 PM	420.8	313.7
2/5/2019	1:54:03 PM	401.6	294.5
2/5/2019	1:54:04 PM	383.2	276.1
2/5/2019	1:54:05 PM	371.7	264.6
2/5/2019	1:54:06 PM	365.5	258.4
2/5/2019	1:54:07 PM	355.5	248.4
2/5/2019	1:54:08 PM	345.2	238.1
2/5/2019	1:54:09 PM	338.2	231.1
2/5/2019	1:54:10 PM	330.9	223.8
2/5/2019	1:54:11 PM	324.4	217.3
2/5/2019	1:54:12 PM	271.5	164.4
2/5/2019	1:54:13 PM	263.6	156.5
2/5/2019	1:54:14 PM	252.2	145.1
2/5/2019	1:54:15 PM	248.9	141.8
2/5/2019	1:54:16 PM	243.4	136.3
2/5/2019	1:54:17 PM	238.9	131.8
2/5/2019	1:54:18 PM	235.1	128.0
2/5/2019	1:54:19 PM	231.5	124.4
2/5/2019	1:54:20 PM	228.5	121.4
2/5/2019	1:54:21 PM	224.9	117.8
2/5/2019	1:54:22 PM	221.7	114.6
2/5/2019	1:54:23 PM	218.3	111.2
2/5/2019	1:54:24 PM	215.4	108.3
2/5/2019	1:54:25 PM	212.4	105.3
2/5/2019	1:54:26 PM	209.9	102.8
2/5/2019	1:54:27 PM	207.1	100.0
2/5/2019	1:54:28 PM	202.6	95.5
2/5/2019	1:54:29 PM	196.8	89.7
2/5/2019	1:54:30 PM	192.0	84.9
2/5/2019	1:54:31 PM	186.9	79.8
2/5/2019	1:54:32 PM	182.6	75.5
2/5/2019	1:54:33 PM	178.0	70.9
2/5/2019	1:54:34 PM	174.3	67.2
2/5/2019	1:54:35 PM	170.5	63.4
2/5/2019	1:54:36 PM	167.3	60.2
2/5/2019	1:54:37 PM	164.0	56.9
2/5/2019	1:54:38 PM	161.3	54.2
2/5/2019	1:54:39 PM	158.2	51.1
2/5/2019	1:54:40 PM	155.8	48.7
2/5/2019	1:54:41 PM	153.2	46.1
2/5/2019	1:54:42 PM	151.1	44.0
2/5/2019	1:54:43 PM	148.8	41.7
2/5/2019	1:54:44 PM	147.0	39.9
2/5/2019	1:54:45 PM	145.1	38.0
2/5/2019	1:54:46 PM	143.5	36.4
2/5/2019	1:54:47 PM	141.8	34.7
2/5/2019	1:54:48 PM	140.4	33.3
2/5/2019	1:54:49 PM	138.9	31.8
2/5/2019	1:54:50 PM	137.7	30.6
2/5/2019	1:54:51 PM	136.3	29.2
2/5/2019	1:54:52 PM	135.2	28.1
2/5/2019	1:54:53 PM	134.1	27.0
2/5/2019	1:54:54 PM	133.1	26.0
2/5/2019	1:54:55 PM	132.1	25.0

APPENDIX E38: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:54:56 PM	131.3	24.2
2/5/2019	1:54:57 PM	130.4	23.3
2/5/2019	1:54:58 PM	129.6	22.5
2/5/2019	1:54:59 PM	128.9	21.8
2/5/2019	1:55:00 PM	128.1	21.0
2/5/2019	1:55:01 PM	127.5	20.4
2/5/2019	1:55:02 PM	126.8	19.7
2/5/2019	1:55:03 PM	126.2	19.1
2/5/2019	1:55:04 PM	125.6	18.5
2/5/2019	1:55:05 PM	125.0	17.9
2/5/2019	1:55:06 PM	124.5	17.4
2/5/2019	1:55:07 PM	124.0	16.9
2/5/2019	1:55:08 PM	123.5	16.4
2/5/2019	1:55:09 PM	123.0	15.9
2/5/2019	1:55:10 PM	122.5	15.4
2/5/2019	1:55:11 PM	122.1	15.0
2/5/2019	1:55:12 PM	121.7	14.6
2/5/2019	1:55:13 PM	121.3	14.2
2/5/2019	1:55:14 PM	120.9	13.8
2/5/2019	1:55:15 PM	120.5	13.4
2/5/2019	1:55:16 PM	120.1	13.0
2/5/2019	1:55:17 PM	119.8	12.7
2/5/2019	1:55:18 PM	119.4	12.3
2/5/2019	1:55:19 PM	119.0	11.9
2/5/2019	1:55:20 PM	118.8	11.7
2/5/2019	1:55:21 PM	118.5	11.4
2/5/2019	1:55:22 PM	118.2	11.1
2/5/2019	1:55:23 PM	117.9	10.8
2/5/2019	1:55:24 PM	117.5	10.4
2/5/2019	1:55:25 PM	117.4	10.3
2/5/2019	1:55:26 PM	117.1	10.0
2/5/2019	1:55:27 PM	116.8	9.7
2/5/2019	1:55:28 PM	116.6	9.5
2/5/2019	1:55:29 PM	116.4	9.3
2/5/2019	1:55:30 PM	116.1	9.0
2/5/2019	1:55:31 PM	116.0	8.9
2/5/2019	1:55:32 PM	115.7	8.6
2/5/2019	1:55:33 PM	115.6	8.5
2/5/2019	1:55:34 PM	115.4	8.3
2/5/2019	1:55:35 PM	115.2	8.1
2/5/2019	1:55:36 PM	115.0	7.9
2/5/2019	1:55:37 PM	114.9	7.8
2/5/2019	1:55:38 PM	114.7	7.6
2/5/2019	1:55:39 PM	114.6	7.5
2/5/2019	1:55:40 PM	114.5	7.4
2/5/2019	1:55:41 PM	114.3	7.2
2/5/2019	1:55:42 PM	114.2	7.1
2/5/2019	1:55:43 PM	114.1	7.0
2/5/2019	1:55:44 PM	114.0	6.9
2/5/2019	1:55:45 PM	113.9	6.8
2/5/2019	1:55:46 PM	113.7	6.6
2/5/2019	1:55:47 PM	113.6	6.5
2/5/2019	1:55:48 PM	113.5	6.4
2/5/2019	1:55:49 PM	113.4	6.3
2/5/2019	1:55:50 PM	113.3	6.2
2/5/2019	1:55:51 PM	113.2	6.1
2/5/2019	1:55:52 PM	113.1	6.0
2/5/2019	1:55:53 PM	113.0	5.9
2/5/2019	1:55:54 PM	112.9	5.8
2/5/2019	1:55:55 PM	112.9	5.8
2/5/2019	1:55:56 PM	112.8	5.7
2/5/2019	1:55:57 PM	112.7	5.6
2/5/2019	1:55:58 PM	112.6	5.5
2/5/2019	1:55:59 PM	112.5	5.4
2/5/2019	1:56:00 PM	112.5	5.4
2/5/2019	1:56:01 PM	112.4	5.3
2/5/2019	1:56:02 PM	112.3	5.2
2/5/2019	1:56:03 PM	112.2	5.1
2/5/2019	1:56:04 PM	112.1	5.0
2/5/2019	1:56:05 PM	112.1	5.0
2/5/2019	1:56:06 PM	112.0	4.9
2/5/2019	1:56:07 PM	111.9	4.8
2/5/2019	1:56:08 PM	111.9	-
2/5/2019	1:56:09 PM	111.8	-
2/5/2019	1:56:10 PM	111.7	-
2/5/2019	1:56:11 PM	111.7	-
2/5/2019	1:56:12 PM	111.6	-
2/5/2019	1:56:13 PM	111.5	-
2/5/2019	1:56:14 PM	111.5	-

Table E1 SEEP-B1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	1:56:15 PM	111.4	-
2/5/2019	1:56:16 PM	111.4	-
2/5/2019	1:56:17 PM	111.3	-
2/5/2019	1:56:18 PM	111.3	-
2/5/2019	1:56:19 PM	111.3	-
2/5/2019	1:56:20 PM	111.2	-
2/5/2019	1:56:21 PM	111.2	-
2/5/2019	1:56:22 PM	111.1	-
2/5/2019	1:56:23 PM	111.1	-
2/5/2019	1:56:24 PM	111.1	-
2/5/2019	1:56:25 PM	111.0	-
2/5/2019	1:56:26 PM	111.0	-
2/5/2019	1:56:27 PM	111.0	-
2/5/2019	1:56:28 PM	110.9	-
2/5/2019	1:56:29 PM	110.9	-
2/5/2019	1:56:30 PM	110.9	-
2/5/2019	1:56:31 PM	110.8	-
2/5/2019	1:56:32 PM	110.8	-
2/5/2019	1:56:33 PM	110.8	-
2/5/2019	1:56:34 PM	110.7	-
2/5/2019	1:56:35 PM	110.7	-
2/5/2019	1:56:36 PM	110.7	-
2/5/2019	1:56:37 PM	110.6	-
2/5/2019	1:56:38 PM	110.6	-
2/5/2019	1:56:39 PM	110.6	-
2/5/2019	1:56:40 PM	110.5	-
2/5/2019	1:56:41 PM	110.5	-
2/5/2019	1:56:42 PM	110.5	-
2/5/2019	1:56:43 PM	110.4	-
2/5/2019	1:56:44 PM	110.4	-
2/5/2019	1:56:45 PM	110.4	-
2/5/2019	1:56:46 PM	110.3	-
2/5/2019	1:56:47 PM	110.3	-
2/5/2019	1:56:48 PM	110.3	-
2/5/2019	1:56:49 PM	110.2	-
2/5/2019	1:56:50 PM	110.2	-
2/5/2019	1:56:51 PM	110.1	-
2/5/2019	1:56:52 PM	110.1	-
2/5/2019	1:56:53 PM	110.1	-
2/5/2019	1:56:54 PM	110.0	-
2/5/2019	1:56:55 PM	110.0	-
2/5/2019	1:56:56 PM	110.0	-
2/5/2019	1:56:57 PM	109.9	-
2/5/2019	1:56:58 PM	109.9	-
2/5/2019	1:56:59 PM	109.9	-
2/5/2019	1:57:00 PM	109.8	-
2/5/2019	1:57:01 PM	109.8	-
2/5/2019	1:57:02 PM	109.8	-
2/5/2019	1:57:03 PM	109.7	-
2/5/2019	1:57:04 PM	109.7	-
2/5/2019	1:57:05 PM	109.7	-
2/5/2019	1:57:06 PM	109.7	-
2/5/2019	1:57:07 PM	109.6	-
2/5/2019	1:57:08 PM	109.6	-
2/5/2019	1:57:09 PM	109.6	-
2/5/2019	1:57:10 PM	109.6	-
2/5/2019	1:57:11 PM	109.6	-
2/5/2019	1:57:12 PM	109.5	-
2/5/2019	1:57:13 PM	109.5	-
2/5/2019	1:57:14 PM	109.5	-
2/5/2019	1:57:15 PM	109.5	-
2/5/2019	1:57:16 PM	109.4	-
2/5/2019	1:57:17 PM	109.4	-
2/5/2019	1:57:18 PM	109.4	-
2/5/2019	1:57:19 PM	109.4	-

Table E2 SEEP-B1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-1	1259	106.3	16
SEEP-B2 TEST-1	1301	105.9	16
SEEP-B2 TEST-1	1306	107.8	16
SEEP-B2 TEST-1	1307	106.1	15.7
Average		106.5	
Geo Mean		106.5	(µS/cms)
Average (pre-test)		107.1	(µS/cms)
Average (post-test)		110.4	(µS/cms)

Table E3 SEEP-B1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2 TEST-1	10	49.5	21.8
SEEP-B2 TEST-1	100	194	22.2
SEEP-B2 TEST-1	1,000	14,050	21.8
SEEP-B2 TEST-1	10,000	109,408	21.7

Table E4 SEEP-B1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,100	mg
Slope of Calibration Curve	K	1.0972	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	61,844.2	(s) . (µS/cms)
Calculated Flow Rate	Q	5.3	L/s
		84.5	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table E1 SEEP-B1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	2:06:33 PM	108.7	-
2/5/2019	2:06:34 PM	108.6	-
2/5/2019	2:06:35 PM	108.6	-
2/5/2019	2:06:36 PM	108.5	-
2/5/2019	2:06:37 PM	108.4	-
2/5/2019	2:06:38 PM	108.4	-
2/5/2019	2:06:39 PM	108.3	-
2/5/2019	2:06:40 PM	108.2	-
2/5/2019	2:06:41 PM	108.2	-
2/5/2019	2:06:42 PM	108.1	-
2/5/2019	2:06:43 PM	108.1	-
2/5/2019	2:06:44 PM	108.0	-
2/5/2019	2:06:45 PM	107.9	-
2/5/2019	2:06:46 PM	107.9	-
2/5/2019	2:06:47 PM	107.8	-
2/5/2019	2:06:48 PM	107.7	-
2/5/2019	2:06:49 PM	107.7	-
2/5/2019	2:06:50 PM	107.6	-
2/5/2019	2:06:51 PM	107.6	-
2/5/2019	2:06:52 PM	107.5	-
2/5/2019	2:06:53 PM	107.5	-
2/5/2019	2:06:54 PM	107.4	-
2/5/2019	2:06:55 PM	107.4	-
2/5/2019	2:06:56 PM	107.3	-
2/5/2019	2:06:57 PM	107.3	-
2/5/2019	2:06:58 PM	107.2	-
2/5/2019	2:06:59 PM	107.2	-
2/5/2019	2:07:00 PM	107.1	-
2/5/2019	2:07:01 PM	107.1	-
2/5/2019	2:07:02 PM	107.0	-
2/5/2019	2:07:03 PM	106.9	-
2/5/2019	2:07:04 PM	106.9	-
2/5/2019	2:07:05 PM	106.8	-
2/5/2019	2:07:06 PM	106.8	-
2/5/2019	2:07:07 PM	106.7	-
2/5/2019	2:07:08 PM	106.7	-
2/5/2019	2:07:09 PM	106.6	-
2/5/2019	2:07:10 PM	106.6	-
2/5/2019	2:07:11 PM	106.5	-
2/5/2019	2:07:12 PM	106.5	-
2/5/2019	2:07:13 PM	106.5	-
2/5/2019	2:07:14 PM	106.4	-
2/5/2019	2:07:15 PM	106.4	-
2/5/2019	2:07:16 PM	106.4	-
2/5/2019	2:07:17 PM	106.6	-
2/5/2019	2:07:18 PM	107.1	-
2/5/2019	2:07:19 PM	108.5	1.1
2/5/2019	2:07:20 PM	170.5	63.1
2/5/2019	2:07:21 PM	240.0	132.6
2/5/2019	2:07:22 PM	311.5	204.1
2/5/2019	2:07:23 PM	401.0	293.6
2/5/2019	2:07:24 PM	594.5	487.1
2/5/2019	2:07:25 PM	748.2	640.8
2/5/2019	2:07:26 PM	1056.0	948.6
2/5/2019	2:07:27 PM	1160.0	1052.6
2/5/2019	2:07:28 PM	1330.3	1222.9
2/5/2019	2:07:29 PM	1602.2	1494.8
2/5/2019	2:07:30 PM	1722.2	1614.8
2/5/2019	2:07:31 PM	1781.0	1673.6
2/5/2019	2:07:32 PM	1848.7	1741.3
2/5/2019	2:07:33 PM	1901.5	1794.1
2/5/2019	2:07:34 PM	1927.2	1819.8
2/5/2019	2:07:35 PM	1946.7	1839.3
2/5/2019	2:07:36 PM	1955.4	1848.0
2/5/2019	2:07:37 PM	1957.5	1850.1
2/5/2019	2:07:38 PM	1955.5	1848.1
2/5/2019	2:07:39 PM	1947.6	1840.2
2/5/2019	2:07:40 PM	1788.0	1680.6
2/5/2019	2:07:41 PM	1753.1	1645.7
2/5/2019	2:07:42 PM	1685.1	1577.7

APPENDIX E39: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	2:07:43 PM	1650.4	1543.0
2/5/2019	2:07:44 PM	1605.9	1498.5
2/5/2019	2:07:45 PM	1453.0	1345.6
2/5/2019	2:07:46 PM	1387.6	1280.2
2/5/2019	2:07:47 PM	1331.7	1224.3
2/5/2019	2:07:48 PM	1307.2	1199.8
2/5/2019	2:07:49 PM	1282.3	1174.9
2/5/2019	2:07:50 PM	1167.0	1059.6
2/5/2019	2:07:51 PM	1108.8	1001.4
2/5/2019	2:07:52 PM	1048.1	940.7
2/5/2019	2:07:53 PM	1006.1	898.7
2/5/2019	2:07:54 PM	918.8	811.4
2/5/2019	2:07:55 PM	891.1	783.7
2/5/2019	2:07:56 PM	849.5	742.1
2/5/2019	2:07:57 PM	805.2	697.8
2/5/2019	2:07:58 PM	792.1	684.7
2/5/2019	2:07:59 PM	722.3	614.9
2/5/2019	2:08:00 PM	676.3	568.9
2/5/2019	2:08:01 PM	640.5	533.1
2/5/2019	2:08:02 PM	619.6	512.2
2/5/2019	2:08:03 PM	467.3	359.9
2/5/2019	2:08:04 PM	549.4	442.0
2/5/2019	2:08:05 PM	527.7	420.3
2/5/2019	2:08:06 PM	502.5	395.1
2/5/2019	2:08:07 PM	493.4	386.0
2/5/2019	2:08:08 PM	481.0	373.6
2/5/2019	2:08:09 PM	471.6	364.2
2/5/2019	2:08:10 PM	413.8	306.4
2/5/2019	2:08:11 PM	400.8	293.4
2/5/2019	2:08:12 PM	381.0	273.6
2/5/2019	2:08:13 PM	369.1	261.7
2/5/2019	2:08:14 PM	357.5	250.1
2/5/2019	2:08:15 PM	349.9	242.5
2/5/2019	2:08:16 PM	343.0	235.6
2/5/2019	2:08:17 PM	336.5	229.1
2/5/2019	2:08:18 PM	329.5	222.1
2/5/2019	2:08:19 PM	323.8	216.4
2/5/2019	2:08:20 PM	317.8	210.4
2/5/2019	2:08:21 PM	265.6	158.2
2/5/2019	2:08:22 PM	254.9	147.5
2/5/2019	2:08:23 PM	246.4	139.0
2/5/2019	2:08:24 PM	242.7	135.3
2/5/2019	2:08:25 PM	237.7	130.3
2/5/2019	2:08:26 PM	232.2	124.8
2/5/2019	2:08:27 PM	228.7	121.3
2/5/2019	2:08:28 PM	225.5	118.1
2/5/2019	2:08:29 PM	222.8	115.4
2/5/2019	2:08:30 PM	220.5	113.1
2/5/2019	2:08:31 PM	217.6	110.2
2/5/2019	2:08:32 PM	215.1	107.7
2/5/2019	2:08:33 PM	212.3	104.9
2/5/2019	2:08:34 PM	209.9	102.5
2/5/2019	2:08:35 PM	207.2	99.8
2/5/2019	2:08:36 PM	205.1	97.7
2/5/2019	2:08:37 PM	201.2	93.8
2/5/2019	2:08:38 PM	196.8	89.4
2/5/2019	2:08:39 PM	192.2	84.8
2/5/2019	2:08:40 PM	188.4	81.0
2/5/2019	2:08:41 PM	184.1	76.7
2/5/2019	2:08:42 PM	180.4	73.0
2/5/2019	2:08:43 PM	176.4	69.0
2/5/2019	2:08:44 PM	173.3	65.9
2/5/2019	2:08:45 PM	170.0	62.6
2/5/2019	2:08:46 PM	167.3	59.9
2/5/2019	2:08:47 PM	164.5	57.1
2/5/2019	2:08:48 PM	161.6	54.2
2/5/2019	2:08:49 PM	159.0	51.6
2/5/2019	2:08:50 PM	156.8	49.4
2/5/2019	2:08:51 PM	154.5	47.1
2/5/2019	2:08:52 PM	152.6	45.2
2/5/2019	2:08:53 PM	150.7	43.3
2/5/2019	2:08:54 PM	149.0	41.6
2/5/2019	2:08:55 PM	147.3	39.9
2/5/2019	2:08:56 PM	145.8	38.4
2/5/2019	2:08:57 PM	144.2	36.8
2/5/2019	2:08:58 PM	142.9	35.5
2/5/2019	2:08:59 PM	141.4	34.0

Table E1 SEEP-B1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	2:09:00 PM	140.2	32.8
2/5/2019	2:09:01 PM	138.9	31.5
2/5/2019	2:09:02 PM	137.9	30.5
2/5/2019	2:09:03 PM	136.7	29.3
2/5/2019	2:09:04 PM	135.8	28.4
2/5/2019	2:09:05 PM	134.9	27.5
2/5/2019	2:09:06 PM	134.0	26.6
2/5/2019	2:09:07 PM	133.1	25.7
2/5/2019	2:09:08 PM	132.3	24.9
2/5/2019	2:09:09 PM	131.5	24.1
2/5/2019	2:09:10 PM	130.7	23.3
2/5/2019	2:09:11 PM	129.9	22.5
2/5/2019	2:09:12 PM	129.3	21.9
2/5/2019	2:09:13 PM	128.5	21.1
2/5/2019	2:09:14 PM	127.9	20.5
2/5/2019	2:09:15 PM	127.2	19.8
2/5/2019	2:09:16 PM	126.6	19.2
2/5/2019	2:09:17 PM	126.0	18.6
2/5/2019	2:09:18 PM	125.4	18.0
2/5/2019	2:09:19 PM	124.8	17.4
2/5/2019	2:09:20 PM	124.4	17.0
2/5/2019	2:09:21 PM	123.8	16.4
2/5/2019	2:09:22 PM	123.3	15.9
2/5/2019	2:09:23 PM	122.9	15.5
2/5/2019	2:09:24 PM	122.5	15.1
2/5/2019	2:09:25 PM	122.2	14.8
2/5/2019	2:09:26 PM	121.8	14.4
2/5/2019	2:09:27 PM	121.4	14.0
2/5/2019	2:09:28 PM	121.1	13.7
2/5/2019	2:09:29 PM	120.8	13.4
2/5/2019	2:09:30 PM	120.4	13.0
2/5/2019	2:09:31 PM	120.2	12.8
2/5/2019	2:09:32 PM	119.9	12.5
2/5/2019	2:09:33 PM	119.6	12.2
2/5/2019	2:09:34 PM	119.3	11.9
2/5/2019	2:09:35 PM	119.1	11.7
2/5/2019	2:09:36 PM	118.8	11.4
2/5/2019	2:09:37 PM	118.6	11.2
2/5/2019	2:09:38 PM	118.3	10.9
2/5/2019	2:09:39 PM	118.1	10.7
2/5/2019	2:09:40 PM	117.8	10.4
2/5/2019	2:09:41 PM	117.6	10.2
2/5/2019	2:09:42 PM	117.4	10.0
2/5/2019	2:09:43 PM	117.2	9.8
2/5/2019	2:09:44 PM	117.0	9.6
2/5/2019	2:09:45 PM	116.8	9.4
2/5/2019	2:09:46 PM	116.5	9.1
2/5/2019	2:09:47 PM	116.4	9.0
2/5/2019	2:09:48 PM	116.1	8.7
2/5/2019	2:09:49 PM	115.9	8.5
2/5/2019	2:09:50 PM	115.7	8.3
2/5/2019	2:09:51 PM	115.6	8.2
2/5/2019	2:09:52 PM	115.4	8.0
2/5/2019	2:09:53 PM	115.2	7.8
2/5/2019	2:09:54 PM	115.0	7.6
2/5/2019	2:09:55 PM	114.9	7.5
2/5/2019	2:09:56 PM	114.7	7.3
2/5/2019	2:09:57 PM	114.5	7.1
2/5/2019	2:09:58 PM	114.4	7.0
2/5/2019	2:09:59 PM	114.2	6.8
2/5/2019	2:10:00 PM	114.0	6.6
2/5/2019	2:10:01 PM	113.9	6.5
2/5/2019	2:10:02 PM	113.8	6.4
2/5/2019	2:10:03 PM	113.6	6.2
2/5/2019	2:10:04 PM	113.5	6.1
2/5/2019	2:10:05 PM	113.4	6.0
2/5/2019	2:10:06 PM	113.2	5.8
2/5/2019	2:10:07 PM	113.1	5.7
2/5/2019	2:10:08 PM	113.0	5.6
2/5/2019	2:10:09 PM	112.8	5.4
2/5/2019	2:10:10 PM	112.7	5.3
2/5/2019	2:10:11 PM	112.5	5.1
2/5/2019	2:10:12 PM	112.4	5.0
2/5/2019	2:10:13 PM	112.3	4.9
2/5/2019	2:10:14 PM	112.2	4.8
2/5/2019	2:10:15 PM	112.0	4.6
2/5/2019	2:10:16 PM	111.9	-
2/5/2019	2:10:17 PM	111.8	-
2/5/2019	2:10:18 PM	111.7	-

APPENDIX E39: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	2:10:19 PM	111.5	-
2/5/2019	2:10:20 PM	111.4	-
2/5/2019	2:10:21 PM	111.3	-
2/5/2019	2:10:22 PM	111.2	-
2/5/2019	2:10:23 PM	111.1	-
2/5/2019	2:10:24 PM	111.0	-
2/5/2019	2:10:25 PM	110.9	-
2/5/2019	2:10:26 PM	110.9	-
2/5/2019	2:10:27 PM	110.8	-
2/5/2019	2:10:28 PM	110.7	-
2/5/2019	2:10:29 PM	110.6	-
2/5/2019	2:10:30 PM	110.5	-
2/5/2019	2:10:31 PM	110.4	-
2/5/2019	2:10:32 PM	110.3	-
2/5/2019	2:10:33 PM	110.2	-
2/5/2019	2:10:34 PM	110.2	-
2/5/2019	2:10:35 PM	110.1	-
2/5/2019	2:10:36 PM	110.0	-
2/5/2019	2:10:37 PM	109.9	-
2/5/2019	2:10:38 PM	109.8	-
2/5/2019	2:10:39 PM	109.7	-
2/5/2019	2:10:40 PM	109.7	-
2/5/2019	2:10:41 PM	109.6	-
2/5/2019	2:10:42 PM	109.5	-
2/5/2019	2:10:43 PM	109.4	-
2/5/2019	2:10:44 PM	109.4	-
2/5/2019	2:10:45 PM	109.3	-
2/5/2019	2:10:46 PM	109.2	-
2/5/2019	2:10:47 PM	109.1	-
2/5/2019	2:10:48 PM	109.1	-
2/5/2019	2:10:49 PM	109.0	-
2/5/2019	2:10:50 PM	108.9	-
2/5/2019	2:10:51 PM	108.9	-
2/5/2019	2:10:52 PM	108.8	-
2/5/2019	2:10:53 PM	108.7	-
2/5/2019	2:10:54 PM	108.7	-
2/5/2019	2:10:55 PM	108.6	-
2/5/2019	2:10:56 PM	108.6	-
2/5/2019	2:10:57 PM	108.5	-
2/5/2019	2:10:58 PM	108.4	-
2/5/2019	2:10:59 PM	108.4	-
2/5/2019	2:11:00 PM	108.3	-
2/5/2019	2:11:01 PM	108.3	-
2/5/2019	2:11:02 PM	108.2	-
2/5/2019	2:11:03 PM	108.2	-
2/5/2019	2:11:04 PM	108.1	-
2/5/2019	2:11:05 PM	108.1	-
2/5/2019	2:11:06 PM	108.0	-
2/5/2019	2:11:07 PM	108.0	-
2/5/2019	2:11:08 PM	108.0	-
2/5/2019	2:11:09 PM	107.9	-
2/5/2019	2:11:10 PM	107.9	-
2/5/2019	2:11:11 PM	107.8	-
2/5/2019	2:11:12 PM	107.8	-
2/5/2019	2:11:13 PM	107.8	-
2/5/2019	2:11:14 PM	107.7	-
2/5/2019	2:11:15 PM	107.7	-
2/5/2019	2:11:16 PM	107.7	-
2/5/2019	2:11:17 PM	107.7	-
2/5/2019	2:11:18 PM	107.6	-
2/5/2019	2:11:19 PM	107.6	-
2/5/2019	2:11:20 PM	107.6	-
2/5/2019	2:11:21 PM	107.6	-
2/5/2019	2:11:22 PM	107.5	-
2/5/2019	2:11:23 PM	107.5	-
2/5/2019	2:11:24 PM	107.5	-
2/5/2019	2:11:25 PM	107.5	-
2/5/2019	2:11:26 PM	107.4	-
2/5/2019	2:11:27 PM	107.4	-
2/5/2019	2:11:28 PM	107.4	-
2/5/2019	2:11:29 PM	107.3	-
2/5/2019	2:11:30 PM	107.3	-
2/5/2019	2:11:31 PM	107.3	-
2/5/2019	2:11:32 PM	107.2	-
2/5/2019	2:11:33 PM	107.2	-
2/5/2019	2:11:34 PM	107.1	-
2/5/2019	2:11:35 PM	107.1	-
2/5/2019	2:11:36 PM	107.1	-
2/5/2019	2:11:37 PM	107.0	-

APPENDIX E39: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	2:11:38 PM	107.0	-
2/5/2019	2:11:39 PM	107.0	-
2/5/2019	2:11:40 PM	106.9	-
2/5/2019	2:11:41 PM	106.9	-
2/5/2019	2:11:42 PM	106.8	-
2/5/2019	2:11:43 PM	106.8	-
2/5/2019	2:11:44 PM	106.8	-
2/5/2019	2:11:45 PM	106.7	-
2/5/2019	2:11:46 PM	106.7	-
2/5/2019	2:11:47 PM	106.7	-
2/5/2019	2:11:48 PM	106.6	-
2/5/2019	2:11:49 PM	106.6	-
2/5/2019	2:11:50 PM	106.6	-
2/5/2019	2:11:51 PM	106.5	-

Table E2 SEEP-B1 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-1	1259	106.3	16
SEEP-B2 TEST-1	1301	105.9	16
SEEP-B2 TEST-1	1306	107.8	16
SEEP-B2 TEST-1	1307	106.1	15.7
Average		106.5	
Geo Mean		106.5	(µS/cms)
Average (pre-test)		107.4	(µS/cms)
Average (post-test)		108.6	(µS/cms)

Table E3 SEEP-B1 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2 TEST-1	10	49.5	21.8
SEEP-B2 TEST-1	100	194	22.2
SEEP-B2 TEST-1	1,000	14,050	21.8
SEEP-B2 TEST-1	10,000	109,408	21.7

Table E4 SEEP-B1 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.0972	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	58,179.8	(s) . (µS/cms)
Calculated Flow Rate	Q	5.7	L/s
		89.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E40: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:48:59 PM	146.6	-
6/7/2019	3:49:00 PM	146.7	-
6/7/2019	3:49:01 PM	146.8	-
6/7/2019	3:49:02 PM	146.9	-
6/7/2019	3:49:03 PM	147.0	-
6/7/2019	3:49:04 PM	147.1	-
6/7/2019	3:49:05 PM	147.2	-
6/7/2019	3:49:06 PM	147.2	-
6/7/2019	3:49:07 PM	147.3	-
6/7/2019	3:49:08 PM	147.4	-
6/7/2019	3:49:09 PM	147.4	-
6/7/2019	3:49:10 PM	147.5	-
6/7/2019	3:49:11 PM	147.5	-
6/7/2019	3:49:12 PM	147.6	-
6/7/2019	3:49:13 PM	147.6	-
6/7/2019	3:49:14 PM	147.6	-
6/7/2019	3:49:15 PM	147.6	-
6/7/2019	3:49:16 PM	147.6	-
6/7/2019	3:49:17 PM	148.0	-
6/7/2019	3:49:18 PM	4828.9	4681.6
6/7/2019	3:49:19 PM	7460.4	7313.1
6/7/2019	3:49:20 PM	14204.1	14056.8
6/7/2019	3:49:21 PM	14726.8	14579.5
6/7/2019	3:49:22 PM	14533.2	14385.9
6/7/2019	3:49:23 PM	10887.2	10739.9
6/7/2019	3:49:24 PM	8926.6	8779.3
6/7/2019	3:49:25 PM	6691.8	6544.5
6/7/2019	3:49:26 PM	6482.3	6335.0
6/7/2019	3:49:27 PM	3697.4	3550.1
6/7/2019	3:49:28 PM	2897.1	2749.8
6/7/2019	3:49:29 PM	2108.2	1960.9
6/7/2019	3:49:30 PM	1765.2	1617.9
6/7/2019	3:49:31 PM	1581.2	1433.9
6/7/2019	3:49:32 PM	1441.8	1294.5
6/7/2019	3:49:33 PM	1047.5	900.2
6/7/2019	3:49:34 PM	957.8	810.5
6/7/2019	3:49:35 PM	916.1	768.8
6/7/2019	3:49:36 PM	743.9	596.6
6/7/2019	3:49:37 PM	647.5	500.2
6/7/2019	3:49:38 PM	411.4	264.1
6/7/2019	3:49:39 PM	524.1	376.8
6/7/2019	3:49:40 PM	537.1	389.8
6/7/2019	3:49:41 PM	470.3	323.0
6/7/2019	3:49:42 PM	459.2	311.9
6/7/2019	3:49:43 PM	452.1	304.8
6/7/2019	3:49:44 PM	418.4	271.1
6/7/2019	3:49:45 PM	404.5	257.2
6/7/2019	3:49:46 PM	342.0	194.7
6/7/2019	3:49:47 PM	333.6	186.3
6/7/2019	3:49:48 PM	322.8	175.5
6/7/2019	3:49:49 PM	314.6	167.3
6/7/2019	3:49:50 PM	303.4	156.1
6/7/2019	3:49:51 PM	285.2	137.9
6/7/2019	3:49:52 PM	269.4	122.1
6/7/2019	3:49:53 PM	262.9	115.6
6/7/2019	3:49:54 PM	259.8	112.5
6/7/2019	3:49:55 PM	256.8	109.5
6/7/2019	3:49:56 PM	252.3	105.0
6/7/2019	3:49:57 PM	248.6	101.3
6/7/2019	3:49:58 PM	244.8	97.5
6/7/2019	3:49:59 PM	241.6	94.3
6/7/2019	3:50:00 PM	238.4	91.1
6/7/2019	3:50:01 PM	235.6	88.3
6/7/2019	3:50:02 PM	232.0	84.7
6/7/2019	3:50:03 PM	225.8	78.5
6/7/2019	3:50:04 PM	221.0	73.7
6/7/2019	3:50:05 PM	217.4	70.1
6/7/2019	3:50:06 PM	213.8	66.5
6/7/2019	3:50:07 PM	209.8	62.5
6/7/2019	3:50:08 PM	206.6	59.3

APPENDIX E40: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:50:09 PM	203.7	56.4
6/7/2019	3:50:10 PM	201.6	54.3
6/7/2019	3:50:11 PM	200.0	52.7
6/7/2019	3:50:12 PM	198.8	51.5
6/7/2019	3:50:13 PM	197.4	50.1
6/7/2019	3:50:14 PM	196.4	49.1
6/7/2019	3:50:15 PM	195.6	48.3
6/7/2019	3:50:16 PM	194.8	47.5
6/7/2019	3:50:17 PM	193.6	46.3
6/7/2019	3:50:18 PM	192.6	45.3
6/7/2019	3:50:19 PM	190.6	43.3
6/7/2019	3:50:20 PM	189.4	42.1
6/7/2019	3:50:21 PM	188.4	41.1
6/7/2019	3:50:22 PM	187.8	40.5
6/7/2019	3:50:23 PM	187.6	40.3
6/7/2019	3:50:24 PM	186.5	39.2
6/7/2019	3:50:25 PM	185.3	38.0
6/7/2019	3:50:26 PM	184.2	36.9
6/7/2019	3:50:27 PM	183.3	36.0
6/7/2019	3:50:28 PM	182.1	34.8
6/7/2019	3:50:29 PM	181.1	33.8
6/7/2019	3:50:30 PM	180.2	32.9
6/7/2019	3:50:31 PM	179.3	32.0
6/7/2019	3:50:32 PM	178.3	31.0
6/7/2019	3:50:33 PM	177.5	30.2
6/7/2019	3:50:34 PM	176.6	29.3
6/7/2019	3:50:35 PM	175.8	28.5
6/7/2019	3:50:36 PM	174.5	27.2
6/7/2019	3:50:37 PM	173.6	26.3
6/7/2019	3:50:38 PM	172.9	25.6
6/7/2019	3:50:39 PM	172.5	25.2
6/7/2019	3:50:40 PM	172.0	24.7
6/7/2019	3:50:41 PM	171.4	24.1
6/7/2019	3:50:42 PM	170.9	23.6
6/7/2019	3:50:43 PM	170.4	23.1
6/7/2019	3:50:44 PM	170.0	22.7
6/7/2019	3:50:45 PM	169.8	22.5
6/7/2019	3:50:46 PM	169.5	22.2
6/7/2019	3:50:47 PM	169.2	21.9
6/7/2019	3:50:48 PM	169.1	21.8
6/7/2019	3:50:49 PM	169.3	22.0
6/7/2019	3:50:50 PM	169.3	22.0
6/7/2019	3:50:51 PM	169.1	21.8
6/7/2019	3:50:52 PM	168.8	21.5
6/7/2019	3:50:53 PM	168.2	20.9
6/7/2019	3:50:54 PM	167.9	20.6
6/7/2019	3:50:55 PM	167.5	20.2
6/7/2019	3:50:56 PM	167.3	20.0
6/7/2019	3:50:57 PM	167.1	19.8
6/7/2019	3:50:58 PM	166.8	19.5
6/7/2019	3:50:59 PM	166.5	19.2
6/7/2019	3:51:00 PM	166.2	18.9
6/7/2019	3:51:01 PM	165.8	18.5
6/7/2019	3:51:02 PM	165.1	17.8
6/7/2019	3:51:03 PM	164.7	17.4
6/7/2019	3:51:04 PM	164.3	17.0
6/7/2019	3:51:05 PM	164.1	16.8
6/7/2019	3:51:06 PM	164.0	16.7
6/7/2019	3:51:07 PM	163.9	16.6
6/7/2019	3:51:08 PM	163.8	16.5
6/7/2019	3:51:09 PM	163.7	16.4
6/7/2019	3:51:10 PM	163.6	16.3
6/7/2019	3:51:11 PM	163.5	16.2
6/7/2019	3:51:12 PM	163.4	16.1
6/7/2019	3:51:13 PM	163.3	16.0
6/7/2019	3:51:14 PM	163.2	15.9
6/7/2019	3:51:15 PM	163.1	15.8
6/7/2019	3:51:16 PM	163.0	15.7
6/7/2019	3:51:17 PM	162.9	15.6
6/7/2019	3:51:18 PM	162.7	15.4
6/7/2019	3:51:19 PM	162.4	15.1
6/7/2019	3:51:20 PM	162.2	14.9
6/7/2019	3:51:21 PM	161.9	14.6
6/7/2019	3:51:22 PM	161.5	14.2
6/7/2019	3:51:23 PM	161.3	14.0
6/7/2019	3:51:24 PM	161.1	13.8
6/7/2019	3:51:25 PM	160.9	13.6

APPENDIX E40: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:51:26 PM	160.6	13.3
6/7/2019	3:51:27 PM	160.4	13.1
6/7/2019	3:51:28 PM	160.2	12.9
6/7/2019	3:51:29 PM	160.1	12.8
6/7/2019	3:51:30 PM	160.0	12.7
6/7/2019	3:51:31 PM	159.8	12.5
6/7/2019	3:51:32 PM	159.7	12.4
6/7/2019	3:51:33 PM	159.6	12.3
6/7/2019	3:51:34 PM	159.5	12.2
6/7/2019	3:51:35 PM	159.4	12.1
6/7/2019	3:51:36 PM	159.3	12.0
6/7/2019	3:51:37 PM	159.2	11.9
6/7/2019	3:51:38 PM	159.2	11.9
6/7/2019	3:51:39 PM	159.1	11.8
6/7/2019	3:51:40 PM	159.0	11.7
6/7/2019	3:51:41 PM	158.9	11.6
6/7/2019	3:51:42 PM	158.8	11.5
6/7/2019	3:51:43 PM	158.7	11.4
6/7/2019	3:51:44 PM	158.6	11.3
6/7/2019	3:51:45 PM	158.5	11.2
6/7/2019	3:51:46 PM	158.4	11.1
6/7/2019	3:51:47 PM	158.2	10.9
6/7/2019	3:51:48 PM	158.0	10.7
6/7/2019	3:51:49 PM	157.9	10.6
6/7/2019	3:51:50 PM	157.7	10.4
6/7/2019	3:51:51 PM	157.5	10.2
6/7/2019	3:51:52 PM	157.4	10.1
6/7/2019	3:51:53 PM	157.3	10.0
6/7/2019	3:51:54 PM	157.1	9.8
6/7/2019	3:51:55 PM	156.9	9.6
6/7/2019	3:51:56 PM	156.7	9.4
6/7/2019	3:51:57 PM	156.5	9.2
6/7/2019	3:51:58 PM	156.4	9.1
6/7/2019	3:51:59 PM	156.4	9.1
6/7/2019	3:52:00 PM	156.3	9.0
6/7/2019	3:52:01 PM	156.3	9.0
6/7/2019	3:52:02 PM	156.3	9.0
6/7/2019	3:52:03 PM	156.2	8.9
6/7/2019	3:52:04 PM	156.1	8.8
6/7/2019	3:52:05 PM	156.0	8.7
6/7/2019	3:52:06 PM	156.0	8.7
6/7/2019	3:52:07 PM	155.8	8.5
6/7/2019	3:52:08 PM	155.7	8.4
6/7/2019	3:52:09 PM	155.6	8.3
6/7/2019	3:52:10 PM	155.4	8.1
6/7/2019	3:52:11 PM	155.3	8.0
6/7/2019	3:52:12 PM	155.1	7.8
6/7/2019	3:52:13 PM	154.9	7.6
6/7/2019	3:52:14 PM	154.8	7.5
6/7/2019	3:52:15 PM	154.7	7.4
6/7/2019	3:52:16 PM	154.6	7.3
6/7/2019	3:52:17 PM	154.5	7.2
6/7/2019	3:52:18 PM	154.3	7.0
6/7/2019	3:52:19 PM	154.2	6.9
6/7/2019	3:52:20 PM	154.1	6.8
6/7/2019	3:52:21 PM	154.1	6.8
6/7/2019	3:52:22 PM	154.1	6.8
6/7/2019	3:52:23 PM	154.1	6.8
6/7/2019	3:52:24 PM	154.0	6.7
6/7/2019	3:52:25 PM	153.9	6.6
6/7/2019	3:52:26 PM	153.9	6.6
6/7/2019	3:52:27 PM	153.8	6.5
6/7/2019	3:52:28 PM	153.8	6.5
6/7/2019	3:52:29 PM	153.7	6.4
6/7/2019	3:52:30 PM	153.7	6.4
6/7/2019	3:52:31 PM	153.7	6.4
6/7/2019	3:52:32 PM	153.6	6.3
6/7/2019	3:52:33 PM	153.5	6.2
6/7/2019	3:52:34 PM	153.4	6.1
6/7/2019	3:52:35 PM	153.3	6.0
6/7/2019	3:52:36 PM	153.2	5.9
6/7/2019	3:52:37 PM	153.1	5.8
6/7/2019	3:52:38 PM	153.1	5.8
6/7/2019	3:52:39 PM	153.0	5.7
6/7/2019	3:52:40 PM	153.0	5.7
6/7/2019	3:52:41 PM	152.9	5.6
6/7/2019	3:52:42 PM	152.8	5.5
6/7/2019	3:52:43 PM	152.7	5.4
6/7/2019	3:52:44 PM	152.7	5.4

APPENDIX E40: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:52:45 PM	152.6	5.3
6/7/2019	3:52:46 PM	152.6	5.3
6/7/2019	3:52:47 PM	152.5	5.2
6/7/2019	3:52:48 PM	152.5	5.2
6/7/2019	3:52:49 PM	152.5	5.2
6/7/2019	3:52:50 PM	152.5	5.2
6/7/2019	3:52:51 PM	152.4	5.1
6/7/2019	3:52:52 PM	152.4	5.1
6/7/2019	3:52:53 PM	152.4	5.1
6/7/2019	3:52:54 PM	152.4	5.1
6/7/2019	3:52:55 PM	152.3	5.0
6/7/2019	3:52:56 PM	152.3	5.0
6/7/2019	3:52:57 PM	152.2	4.9
6/7/2019	3:52:58 PM	152.2	4.9
6/7/2019	3:52:59 PM	152.2	4.9
6/7/2019	3:53:00 PM	152.1	4.8
6/7/2019	3:53:01 PM	152.1	4.8
6/7/2019	3:53:02 PM	152.0	4.7
6/7/2019	3:53:03 PM	151.9	4.6
6/7/2019	3:53:04 PM	151.9	4.6
6/7/2019	3:53:05 PM	151.8	4.5
6/7/2019	3:53:06 PM	151.7	4.4
6/7/2019	3:53:07 PM	151.7	4.4
6/7/2019	3:53:08 PM	151.6	4.3
6/7/2019	3:53:09 PM	151.5	4.2
6/7/2019	3:53:10 PM	151.4	4.1
6/7/2019	3:53:11 PM	151.4	4.1
6/7/2019	3:53:12 PM	151.3	4.0
6/7/2019	3:53:13 PM	151.3	4.0

APPENDIX E40: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-B1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-1	1542	154.3	19.4
SEEP-B2 TEST-1	1544	152.3	19.4
SEEP-B2 TEST-1	1544	144.6	19.4
Average		150.4	
Geo Mean		150.3	(µS/cms)
Average (pre-test)		147.3	(µS/cms)
Average (post-test)		153.9	(µS/cms)

Table E3 SEEP-B1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2 TEST-1	100	638	24.2
SEEP-B2 TEST-1	1,000	2,108	24.2
SEEP-B2 TEST-1	10,000	16,969	24.1
SEEP-B2 TEST-1	100,000	124,451	24.1

Table E4 SEEP-B1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,500	mg
Slope of Calibration Curve	K	1.2491	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	111,552.4	(s) . (µS/cms)
Calculated Flow Rate	Q	3.4	L/s
		53.4	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E41: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:01:18 PM	149.1	-
6/7/2019	4:01:19 PM	149.1	-
6/7/2019	4:01:20 PM	149.1	-
6/7/2019	4:01:21 PM	149.1	-
6/7/2019	4:01:22 PM	149.0	-
6/7/2019	4:01:23 PM	149.0	-
6/7/2019	4:01:24 PM	149.0	-
6/7/2019	4:01:25 PM	149.0	-
6/7/2019	4:01:26 PM	149.0	-
6/7/2019	4:01:27 PM	149.0	-
6/7/2019	4:01:28 PM	149.0	-
6/7/2019	4:01:29 PM	149.0	-
6/7/2019	4:01:30 PM	149.0	-
6/7/2019	4:01:31 PM	149.0	-
6/7/2019	4:01:32 PM	149.0	-
6/7/2019	4:01:33 PM	149.0	-
6/7/2019	4:01:34 PM	149.0	-
6/7/2019	4:01:35 PM	149.0	-
6/7/2019	4:01:36 PM	333.2	184.2
6/7/2019	4:01:37 PM	6377.6	6228.6
6/7/2019	4:01:38 PM	13556.8	13407.8
6/7/2019	4:01:39 PM	15508.0	15359.0
6/7/2019	4:01:40 PM	16638.9	16489.9
6/7/2019	4:01:41 PM	14536.2	14387.2
6/7/2019	4:01:42 PM	12145.7	11996.7
6/7/2019	4:01:43 PM	10224.5	10075.5
6/7/2019	4:01:44 PM	7899.1	7750.1
6/7/2019	4:01:45 PM	6461.5	6312.5
6/7/2019	4:01:46 PM	4205.5	4056.5
6/7/2019	4:01:47 PM	2817.5	2668.5
6/7/2019	4:01:48 PM	2159.6	2010.6
6/7/2019	4:01:49 PM	1900.7	1751.7
6/7/2019	4:01:50 PM	1546.8	1397.8
6/7/2019	4:01:51 PM	1492.7	1343.7
6/7/2019	4:01:52 PM	1153.7	1004.7
6/7/2019	4:01:53 PM	996.5	847.5
6/7/2019	4:01:54 PM	912.3	763.3
6/7/2019	4:01:55 PM	758.2	609.2
6/7/2019	4:01:56 PM	692.3	543.3
6/7/2019	4:01:57 PM	629.6	480.6
6/7/2019	4:01:58 PM	497.4	348.4
6/7/2019	4:01:59 PM	519.2	370.2
6/7/2019	4:02:00 PM	449.6	300.6
6/7/2019	4:02:01 PM	393.3	244.3
6/7/2019	4:02:02 PM	362.4	213.4
6/7/2019	4:02:03 PM	334.7	185.7
6/7/2019	4:02:04 PM	323.9	174.9
6/7/2019	4:02:05 PM	312.8	163.8
6/7/2019	4:02:06 PM	304.6	155.6
6/7/2019	4:02:07 PM	295.5	146.5
6/7/2019	4:02:08 PM	287.9	138.9
6/7/2019	4:02:09 PM	281.4	132.4
6/7/2019	4:02:10 PM	276.7	127.7
6/7/2019	4:02:11 PM	271.7	122.7
6/7/2019	4:02:12 PM	267.6	118.6
6/7/2019	4:02:13 PM	263.3	114.3
6/7/2019	4:02:14 PM	260.8	111.8
6/7/2019	4:02:15 PM	258.9	109.9
6/7/2019	4:02:16 PM	257.0	108.0
6/7/2019	4:02:17 PM	250.5	101.5
6/7/2019	4:02:18 PM	245.8	96.8
6/7/2019	4:02:19 PM	245.0	96.0
6/7/2019	4:02:20 PM	286.5	137.5
6/7/2019	4:02:21 PM	281.4	132.4
6/7/2019	4:02:22 PM	260.6	111.6
6/7/2019	4:02:23 PM	249.6	100.6
6/7/2019	4:02:24 PM	231.8	82.8
6/7/2019	4:02:25 PM	223.1	74.1
6/7/2019	4:02:26 PM	217.3	68.3
6/7/2019	4:02:27 PM	213.6	64.6

APPENDIX E41: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:02:28 PM	209.9	60.9
6/7/2019	4:02:29 PM	207.0	58.0
6/7/2019	4:02:30 PM	204.2	55.2
6/7/2019	4:02:31 PM	202.0	53.0
6/7/2019	4:02:32 PM	199.8	50.8
6/7/2019	4:02:33 PM	198.1	49.1
6/7/2019	4:02:34 PM	196.9	47.9
6/7/2019	4:02:35 PM	196.6	47.6
6/7/2019	4:02:36 PM	194.6	45.6
6/7/2019	4:02:37 PM	191.9	42.9
6/7/2019	4:02:38 PM	189.8	40.8
6/7/2019	4:02:39 PM	187.4	38.4
6/7/2019	4:02:40 PM	185.6	36.6
6/7/2019	4:02:41 PM	184.0	35.0
6/7/2019	4:02:42 PM	183.7	34.7
6/7/2019	4:02:43 PM	183.8	34.8
6/7/2019	4:02:44 PM	184.1	35.1
6/7/2019	4:02:45 PM	183.9	34.9
6/7/2019	4:02:46 PM	183.7	34.7
6/7/2019	4:02:47 PM	183.0	34.0
6/7/2019	4:02:48 PM	181.5	32.5
6/7/2019	4:02:49 PM	179.6	30.6
6/7/2019	4:02:50 PM	178.7	29.7
6/7/2019	4:02:51 PM	178.5	29.5
6/7/2019	4:02:52 PM	178.5	29.5
6/7/2019	4:02:53 PM	178.8	29.8
6/7/2019	4:02:54 PM	179.0	30.0
6/7/2019	4:02:55 PM	178.4	29.4
6/7/2019	4:02:56 PM	177.3	28.3
6/7/2019	4:02:57 PM	176.1	27.1
6/7/2019	4:02:58 PM	174.9	25.9
6/7/2019	4:02:59 PM	174.1	25.1
6/7/2019	4:03:00 PM	173.5	24.5
6/7/2019	4:03:01 PM	173.2	24.2
6/7/2019	4:03:02 PM	173.0	24.0
6/7/2019	4:03:03 PM	172.5	23.5
6/7/2019	4:03:04 PM	171.4	22.4
6/7/2019	4:03:05 PM	170.4	21.4
6/7/2019	4:03:06 PM	169.7	20.7
6/7/2019	4:03:07 PM	169.2	20.2
6/7/2019	4:03:08 PM	168.6	19.6
6/7/2019	4:03:09 PM	168.0	19.0
6/7/2019	4:03:10 PM	167.4	18.4
6/7/2019	4:03:11 PM	167.1	18.1
6/7/2019	4:03:12 PM	167.4	18.4
6/7/2019	4:03:13 PM	168.2	19.2
6/7/2019	4:03:14 PM	168.6	19.6
6/7/2019	4:03:15 PM	168.7	19.7
6/7/2019	4:03:16 PM	168.4	19.4
6/7/2019	4:03:17 PM	168.1	19.1
6/7/2019	4:03:18 PM	168.0	19.0
6/7/2019	4:03:19 PM	167.6	18.6
6/7/2019	4:03:20 PM	167.5	18.5
6/7/2019	4:03:21 PM	167.4	18.4
6/7/2019	4:03:22 PM	167.2	18.2
6/7/2019	4:03:23 PM	167.2	18.2
6/7/2019	4:03:24 PM	167.2	18.2
6/7/2019	4:03:25 PM	166.4	17.4
6/7/2019	4:03:26 PM	165.1	16.1
6/7/2019	4:03:27 PM	164.2	15.2
6/7/2019	4:03:28 PM	163.7	14.7
6/7/2019	4:03:29 PM	163.2	14.2
6/7/2019	4:03:30 PM	162.9	13.9
6/7/2019	4:03:31 PM	162.6	13.6
6/7/2019	4:03:32 PM	162.3	13.3
6/7/2019	4:03:33 PM	161.6	12.6
6/7/2019	4:03:34 PM	160.9	11.9
6/7/2019	4:03:35 PM	160.5	11.5
6/7/2019	4:03:36 PM	159.9	10.9
6/7/2019	4:03:37 PM	159.5	10.5
6/7/2019	4:03:38 PM	159.1	10.1
6/7/2019	4:03:39 PM	158.9	9.9
6/7/2019	4:03:40 PM	158.6	9.6
6/7/2019	4:03:41 PM	158.3	9.3
6/7/2019	4:03:42 PM	158.2	9.2
6/7/2019	4:03:43 PM	158.1	9.1
6/7/2019	4:03:44 PM	158.0	9.0

APPENDIX E41: SALT DILUTION GAUGING SUMMARY
SEEP-B1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:03:45 PM	157.9	8.9
6/7/2019	4:03:46 PM	157.9	8.9
6/7/2019	4:03:47 PM	157.8	8.8
6/7/2019	4:03:48 PM	157.5	8.5
6/7/2019	4:03:49 PM	157.3	8.3
6/7/2019	4:03:50 PM	157.2	8.2
6/7/2019	4:03:51 PM	157.2	8.2
6/7/2019	4:03:52 PM	157.3	8.3
6/7/2019	4:03:53 PM	157.5	8.5
6/7/2019	4:03:54 PM	157.5	8.5
6/7/2019	4:03:55 PM	157.4	8.4
6/7/2019	4:03:56 PM	157.2	8.2
6/7/2019	4:03:57 PM	157.1	8.1
6/7/2019	4:03:58 PM	156.9	7.9
6/7/2019	4:03:59 PM	156.8	7.8
6/7/2019	4:04:00 PM	156.7	7.7
6/7/2019	4:04:01 PM	156.5	7.5
6/7/2019	4:04:02 PM	156.3	7.3
6/7/2019	4:04:03 PM	156.2	7.2
6/7/2019	4:04:04 PM	156.1	7.1
6/7/2019	4:04:05 PM	156.0	7.0
6/7/2019	4:04:06 PM	155.7	6.7
6/7/2019	4:04:07 PM	155.5	6.5
6/7/2019	4:04:08 PM	155.4	6.4
6/7/2019	4:04:09 PM	155.2	6.2
6/7/2019	4:04:10 PM	155.2	6.2
6/7/2019	4:04:11 PM	155.2	6.2
6/7/2019	4:04:12 PM	155.2	6.2
6/7/2019	4:04:13 PM	155.2	6.2
6/7/2019	4:04:14 PM	155.3	6.3
6/7/2019	4:04:15 PM	155.2	6.2
6/7/2019	4:04:16 PM	155.2	6.2
6/7/2019	4:04:17 PM	155.1	6.1
6/7/2019	4:04:18 PM	155.0	6.0
6/7/2019	4:04:19 PM	154.9	5.9
6/7/2019	4:04:20 PM	154.8	5.8
6/7/2019	4:04:21 PM	154.7	5.7
6/7/2019	4:04:22 PM	154.6	5.6
6/7/2019	4:04:23 PM	154.6	5.6
6/7/2019	4:04:24 PM	154.5	5.5
6/7/2019	4:04:25 PM	154.4	5.4
6/7/2019	4:04:26 PM	154.2	5.2
6/7/2019	4:04:27 PM	154.1	5.1
6/7/2019	4:04:28 PM	154.0	5.0
6/7/2019	4:04:29 PM	153.8	4.8
6/7/2019	4:04:30 PM	153.8	4.8
6/7/2019	4:04:31 PM	153.9	4.9
6/7/2019	4:04:32 PM	154.0	5.0
6/7/2019	4:04:33 PM	154.1	5.1
6/7/2019	4:04:34 PM	154.0	5.0
6/7/2019	4:04:34 PM	153.9	0.0
6/7/2019	4:04:35 PM	153.8	4.8
6/7/2019	4:04:36 PM	153.7	4.7
6/7/2019	4:04:37 PM	153.6	4.6
6/7/2019	4:04:38 PM	153.6	4.6
6/7/2019	4:04:39 PM	153.5	4.5
6/7/2019	4:04:40 PM	153.5	4.5
6/7/2019	4:04:41 PM	153.4	4.4
6/7/2019	4:04:42 PM	153.2	4.2
6/7/2019	4:04:43 PM	152.9	3.9
6/7/2019	4:04:44 PM	152.6	3.6
6/7/2019	4:04:45 PM	152.4	3.4
6/7/2019	4:04:46 PM	152.3	3.3

Table E2 SEEP-B1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B1 TEST-2	1542	154.3	19.4
SEEP-B1 TEST-2	1544	152.3	19.4
SEEP-B1 TEST-2	1544	144.6	19.4
Average		150.4	
Geo Mean		150.3	(µS/cms)
Average (pre-test)		149.0	(µS/cms)
Average (post-test)		155.2	(µS/cms)

Table E3 SEEP-B1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B1 TEST-2	100	638	24.2
SEEP-B1 TEST-2	1,000	2,108	24.2
SEEP-B1 TEST-2	10,000	16,969	24.1
SEEP-B1 TEST-2	100,000	124,451	24.1

Table E4 SEEP-B1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,400	mg
Slope of Calibration Curve	K	1.2491	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	126,464.1	(s) . (µS/cms)
Calculated Flow Rate	Q	3.0	L/s
		47.1	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:28:51 PM	97.5	-
2/5/2019	3:28:52 PM	97.6	-
2/5/2019	3:28:53 PM	97.6	-
2/5/2019	3:28:54 PM	97.6	-
2/5/2019	3:28:55 PM	97.5	-
2/5/2019	3:28:56 PM	97.5	-
2/5/2019	3:28:57 PM	97.4	-
2/5/2019	3:28:58 PM	97.4	-
2/5/2019	3:28:59 PM	97.3	-
2/5/2019	3:29:00 PM	97.2	-
2/5/2019	3:29:01 PM	97.1	-
2/5/2019	3:29:02 PM	97.0	-
2/5/2019	3:29:03 PM	97.0	-
2/5/2019	3:29:04 PM	97.0	-
2/5/2019	3:29:05 PM	96.9	-
2/5/2019	3:29:06 PM	96.9	-
2/5/2019	3:29:07 PM	96.8	-
2/5/2019	3:29:08 PM	96.8	-
2/5/2019	3:29:09 PM	96.8	-
2/5/2019	3:29:10 PM	96.8	-
2/5/2019	3:29:11 PM	96.8	-
2/5/2019	3:29:12 PM	96.9	-
2/5/2019	3:29:13 PM	96.9	-
2/5/2019	3:29:14 PM	97.0	-
2/5/2019	3:29:15 PM	97.0	-
2/5/2019	3:29:16 PM	97.0	-
2/5/2019	3:29:17 PM	97.0	-
2/5/2019	3:29:18 PM	97.0	-
2/5/2019	3:29:19 PM	97.0	-
2/5/2019	3:29:20 PM	97.0	-
2/5/2019	3:29:21 PM	97.0	-
2/5/2019	3:29:22 PM	97.1	-
2/5/2019	3:29:23 PM	97.1	-
2/5/2019	3:29:24 PM	97.0	-
2/5/2019	3:29:25 PM	97.0	-
2/5/2019	3:29:26 PM	97.0	-
2/5/2019	3:29:27 PM	97.0	-
2/5/2019	3:29:28 PM	97.0	-
2/5/2019	3:29:29 PM	97.1	-
2/5/2019	3:29:30 PM	97.1	-
2/5/2019	3:29:31 PM	97.2	0.1
2/5/2019	3:29:32 PM	97.2	0.1
2/5/2019	3:29:33 PM	97.3	0.2
2/5/2019	3:29:34 PM	97.6	0.5
2/5/2019	3:29:35 PM	97.9	0.8
2/5/2019	3:29:36 PM	98.4	1.3
2/5/2019	3:29:37 PM	99.1	2.0
2/5/2019	3:29:38 PM	100.2	3.1
2/5/2019	3:29:39 PM	101.6	4.5
2/5/2019	3:29:40 PM	104.2	7.1
2/5/2019	3:29:41 PM	107.5	10.4
2/5/2019	3:29:42 PM	191.3	94.2
2/5/2019	3:29:43 PM	221.4	124.3
2/5/2019	3:29:44 PM	282.6	185.5
2/5/2019	3:29:45 PM	300.6	203.5
2/5/2019	3:29:46 PM	385.5	288.4
2/5/2019	3:29:47 PM	467.1	370.0
2/5/2019	3:29:48 PM	581.6	484.5
2/5/2019	3:29:49 PM	683.6	586.5
2/5/2019	3:29:50 PM	822.3	725.2
2/5/2019	3:29:51 PM	966.3	869.2
2/5/2019	3:29:52 PM	1094.0	996.9
2/5/2019	3:29:53 PM	1294.8	1197.7
2/5/2019	3:29:54 PM	1506.8	1409.7
2/5/2019	3:29:55 PM	1621.0	1523.9
2/5/2019	3:29:56 PM	1736.5	1639.4
2/5/2019	3:29:57 PM	1781.6	1684.5
2/5/2019	3:29:58 PM	1970.7	1873.6
2/5/2019	3:29:59 PM	2133.2	2036.1
2/5/2019	3:30:00 PM	2228.6	2131.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:30:01 PM	2300.1	2203.0
2/5/2019	3:30:02 PM	2355.7	2258.6
2/5/2019	3:30:03 PM	2563.5	2466.4
2/5/2019	3:30:04 PM	2625.8	2528.7
2/5/2019	3:30:05 PM	2676.0	2578.9
2/5/2019	3:30:06 PM	2720.7	2623.6
2/5/2019	3:30:07 PM	2744.5	2647.4
2/5/2019	3:30:08 PM	2761.5	2664.4
2/5/2019	3:30:09 PM	2775.3	2678.2
2/5/2019	3:30:10 PM	2787.6	2690.5
2/5/2019	3:30:11 PM	2805.5	2708.4
2/5/2019	3:30:12 PM	2822.1	2725.0
2/5/2019	3:30:13 PM	2837.9	2740.8
2/5/2019	3:30:14 PM	2849.9	2752.8
2/5/2019	3:30:15 PM	2860.5	2763.4
2/5/2019	3:30:16 PM	2867.7	2770.6
2/5/2019	3:30:17 PM	2874.5	2777.4
2/5/2019	3:30:18 PM	2879.0	2781.9
2/5/2019	3:30:19 PM	2881.7	2784.6
2/5/2019	3:30:20 PM	2894.4	2797.3
2/5/2019	3:30:21 PM	2899.5	2802.4
2/5/2019	3:30:22 PM	2903.3	2806.2
2/5/2019	3:30:23 PM	2902.4	2805.3
2/5/2019	3:30:24 PM	2896.0	2798.9
2/5/2019	3:30:25 PM	2710.5	2613.4
2/5/2019	3:30:26 PM	2684.2	2587.1
2/5/2019	3:30:27 PM	2645.4	2548.3
2/5/2019	3:30:28 PM	2637.4	2540.3
2/5/2019	3:30:29 PM	2615.8	2518.7
2/5/2019	3:30:30 PM	2601.9	2504.8
2/5/2019	3:30:31 PM	2586.4	2489.3
2/5/2019	3:30:32 PM	2570.2	2473.1
2/5/2019	3:30:33 PM	2547.1	2450.0
2/5/2019	3:30:34 PM	2369.6	2272.5
2/5/2019	3:30:35 PM	2321.5	2224.4
2/5/2019	3:30:36 PM	2265.2	2168.1
2/5/2019	3:30:37 PM	2228.1	2131.0
2/5/2019	3:30:38 PM	2167.6	2070.5
2/5/2019	3:30:39 PM	2125.4	2028.3
2/5/2019	3:30:40 PM	2099.0	2001.9
2/5/2019	3:30:41 PM	1940.9	1843.8
2/5/2019	3:30:42 PM	1895.3	1798.2
2/5/2019	3:30:43 PM	1849.4	1752.3
2/5/2019	3:30:44 PM	1838.3	1741.2
2/5/2019	3:30:45 PM	1803.3	1706.2
2/5/2019	3:30:46 PM	1780.2	1683.1
2/5/2019	3:30:47 PM	1759.6	1662.5
2/5/2019	3:30:48 PM	1742.0	1644.9
2/5/2019	3:30:49 PM	1631.0	1533.9
2/5/2019	3:30:50 PM	1612.0	1514.9
2/5/2019	3:30:51 PM	1595.5	1498.4
2/5/2019	3:30:52 PM	1578.4	1481.3
2/5/2019	3:30:53 PM	1563.2	1466.1
2/5/2019	3:30:54 PM	1543.3	1446.2
2/5/2019	3:30:55 PM	1529.3	1432.2
2/5/2019	3:30:56 PM	1507.8	1410.7
2/5/2019	3:30:57 PM	1405.6	1308.5
2/5/2019	3:30:58 PM	1378.4	1281.3
2/5/2019	3:30:59 PM	1357.8	1260.7
2/5/2019	3:31:00 PM	1351.0	1253.9
2/5/2019	3:31:01 PM	1338.4	1241.3
2/5/2019	3:31:02 PM	1325.8	1228.7
2/5/2019	3:31:03 PM	1316.2	1219.1
2/5/2019	3:31:04 PM	1305.6	1208.5
2/5/2019	3:31:05 PM	1296.3	1199.2
2/5/2019	3:31:06 PM	1287.4	1190.3
2/5/2019	3:31:07 PM	1280.4	1183.3
2/5/2019	3:31:08 PM	1197.8	1100.7
2/5/2019	3:31:09 PM	1178.2	1081.1
2/5/2019	3:31:10 PM	1160.9	1063.8
2/5/2019	3:31:11 PM	1152.5	1055.4
2/5/2019	3:31:12 PM	1142.7	1045.6
2/5/2019	3:31:13 PM	1136.3	1039.2
2/5/2019	3:31:14 PM	1130.3	1033.2
2/5/2019	3:31:15 PM	1125.5	1028.4
2/5/2019	3:31:16 PM	1120.2	1023.1
2/5/2019	3:31:17 PM	1114.5	1017.4

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:31:18 PM	1109.1	1012.0
2/5/2019	3:31:19 PM	1104.7	1007.6
2/5/2019	3:31:20 PM	1099.2	1002.1
2/5/2019	3:31:21 PM	1095.1	998.0
2/5/2019	3:31:22 PM	1012.0	914.9
2/5/2019	3:31:23 PM	1001.4	904.3
2/5/2019	3:31:24 PM	978.9	881.8
2/5/2019	3:31:25 PM	969.9	872.8
2/5/2019	3:31:26 PM	952.6	855.5
2/5/2019	3:31:27 PM	940.0	842.9
2/5/2019	3:31:28 PM	889.6	792.5
2/5/2019	3:31:29 PM	873.2	776.1
2/5/2019	3:31:30 PM	862.3	765.2
2/5/2019	3:31:31 PM	854.3	757.2
2/5/2019	3:31:32 PM	844.6	747.5
2/5/2019	3:31:33 PM	838.4	741.3
2/5/2019	3:31:34 PM	833.0	735.9
2/5/2019	3:31:35 PM	827.6	730.5
2/5/2019	3:31:36 PM	822.4	725.3
2/5/2019	3:31:37 PM	817.3	720.2
2/5/2019	3:31:38 PM	812.4	715.3
2/5/2019	3:31:39 PM	763.4	666.3
2/5/2019	3:31:40 PM	751.1	654.0
2/5/2019	3:31:41 PM	737.2	640.1
2/5/2019	3:31:42 PM	724.9	627.8
2/5/2019	3:31:43 PM	723.0	625.9
2/5/2019	3:31:44 PM	720.3	623.2
2/5/2019	3:31:45 PM	714.8	617.7
2/5/2019	3:31:46 PM	709.7	612.6
2/5/2019	3:31:47 PM	705.1	608.0
2/5/2019	3:31:48 PM	702.8	605.7
2/5/2019	3:31:49 PM	618.8	521.7
2/5/2019	3:31:50 PM	628.5	531.4
2/5/2019	3:31:51 PM	618.9	521.8
2/5/2019	3:31:52 PM	613.9	516.8
2/5/2019	3:31:53 PM	605.4	508.3
2/5/2019	3:31:54 PM	598.7	501.6
2/5/2019	3:31:55 PM	591.3	494.2
2/5/2019	3:31:56 PM	584.9	487.8
2/5/2019	3:31:57 PM	578.3	481.2
2/5/2019	3:31:58 PM	572.9	475.8
2/5/2019	3:31:59 PM	567.3	470.2
2/5/2019	3:32:00 PM	562.5	465.4
2/5/2019	3:32:01 PM	557.4	460.3
2/5/2019	3:32:02 PM	505.5	408.4
2/5/2019	3:32:03 PM	496.8	399.7
2/5/2019	3:32:04 PM	490.5	393.4
2/5/2019	3:32:05 PM	485.4	388.3
2/5/2019	3:32:06 PM	479.9	382.8
2/5/2019	3:32:07 PM	474.7	377.6
2/5/2019	3:32:08 PM	471.2	374.1
2/5/2019	3:32:09 PM	467.5	370.4
2/5/2019	3:32:10 PM	464.1	367.0
2/5/2019	3:32:11 PM	460.3	363.2
2/5/2019	3:32:12 PM	457.1	360.0
2/5/2019	3:32:13 PM	453.6	356.5
2/5/2019	3:32:14 PM	450.6	353.5
2/5/2019	3:32:15 PM	447.2	350.1
2/5/2019	3:32:16 PM	444.2	347.1
2/5/2019	3:32:17 PM	440.9	343.8
2/5/2019	3:32:18 PM	437.5	340.4
2/5/2019	3:32:19 PM	430.8	333.7
2/5/2019	3:32:20 PM	425.0	327.9
2/5/2019	3:32:21 PM	418.4	321.3
2/5/2019	3:32:22 PM	412.9	315.8
2/5/2019	3:32:23 PM	406.9	309.8
2/5/2019	3:32:24 PM	401.0	303.9
2/5/2019	3:32:25 PM	396.0	298.9
2/5/2019	3:32:26 PM	390.5	293.4
2/5/2019	3:32:27 PM	385.7	288.6
2/5/2019	3:32:28 PM	380.4	283.3
2/5/2019	3:32:29 PM	376.1	279.0
2/5/2019	3:32:30 PM	371.3	274.2
2/5/2019	3:32:31 PM	367.2	270.1
2/5/2019	3:32:32 PM	362.7	265.6
2/5/2019	3:32:33 PM	359.0	261.9
2/5/2019	3:32:34 PM	354.9	257.8
2/5/2019	3:32:35 PM	351.4	254.3
2/5/2019	3:32:36 PM	347.6	250.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:32:37 PM	344.4	247.3
2/5/2019	3:32:38 PM	340.9	243.8
2/5/2019	3:32:39 PM	338.0	240.9
2/5/2019	3:32:40 PM	334.6	237.5
2/5/2019	3:32:41 PM	331.8	234.7
2/5/2019	3:32:42 PM	328.6	231.5
2/5/2019	3:32:43 PM	325.8	228.7
2/5/2019	3:32:44 PM	322.8	225.7
2/5/2019	3:32:45 PM	320.1	223.0
2/5/2019	3:32:46 PM	317.1	220.0
2/5/2019	3:32:47 PM	314.5	217.4
2/5/2019	3:32:48 PM	311.5	214.4
2/5/2019	3:32:49 PM	308.8	211.7
2/5/2019	3:32:50 PM	305.7	208.6
2/5/2019	3:32:51 PM	303.0	205.9
2/5/2019	3:32:52 PM	300.0	202.9
2/5/2019	3:32:53 PM	297.4	200.3
2/5/2019	3:32:54 PM	294.6	197.5
2/5/2019	3:32:55 PM	292.1	195.0
2/5/2019	3:32:56 PM	289.4	192.3
2/5/2019	3:32:57 PM	287.0	189.9
2/5/2019	3:32:58 PM	284.4	187.3
2/5/2019	3:32:59 PM	282.2	185.1
2/5/2019	3:33:00 PM	279.7	182.6
2/5/2019	3:33:01 PM	277.5	180.4
2/5/2019	3:33:02 PM	275.2	178.1
2/5/2019	3:33:03 PM	273.2	176.1
2/5/2019	3:33:04 PM	271.0	173.9
2/5/2019	3:33:05 PM	269.1	172.0
2/5/2019	3:33:06 PM	267.0	169.9
2/5/2019	3:33:07 PM	265.1	168.0
2/5/2019	3:33:08 PM	263.1	166.0
2/5/2019	3:33:09 PM	261.3	164.2
2/5/2019	3:33:10 PM	259.3	162.2
2/5/2019	3:33:11 PM	257.6	160.5
2/5/2019	3:33:12 PM	255.6	158.5
2/5/2019	3:33:13 PM	253.9	156.8
2/5/2019	3:33:14 PM	252.0	154.9
2/5/2019	3:33:15 PM	250.4	153.3
2/5/2019	3:33:16 PM	248.6	151.5
2/5/2019	3:33:17 PM	247.0	149.9
2/5/2019	3:33:18 PM	245.2	148.1
2/5/2019	3:33:19 PM	243.7	146.6
2/5/2019	3:33:20 PM	242.0	144.9
2/5/2019	3:33:21 PM	240.5	143.4
2/5/2019	3:33:22 PM	238.8	141.7
2/5/2019	3:33:23 PM	237.1	140.0
2/5/2019	3:33:24 PM	235.7	138.6
2/5/2019	3:33:25 PM	234.1	137.0
2/5/2019	3:33:26 PM	232.8	135.7
2/5/2019	3:33:27 PM	231.3	134.2
2/5/2019	3:33:28 PM	230.1	133.0
2/5/2019	3:33:29 PM	228.6	131.5
2/5/2019	3:33:30 PM	227.4	130.3
2/5/2019	3:33:31 PM	226.1	129.0
2/5/2019	3:33:32 PM	224.9	127.8
2/5/2019	3:33:33 PM	223.5	126.4
2/5/2019	3:33:34 PM	222.4	125.3
2/5/2019	3:33:35 PM	221.1	124.0
2/5/2019	3:33:36 PM	220.0	122.9
2/5/2019	3:33:37 PM	218.9	121.8
2/5/2019	3:33:38 PM	217.9	120.8
2/5/2019	3:33:39 PM	216.8	119.7
2/5/2019	3:33:40 PM	215.9	118.8
2/5/2019	3:33:41 PM	214.8	117.7
2/5/2019	3:33:42 PM	213.9	116.8
2/5/2019	3:33:43 PM	212.9	115.8
2/5/2019	3:33:44 PM	212.0	114.9
2/5/2019	3:33:45 PM	211.0	113.9
2/5/2019	3:33:46 PM	210.1	113.0
2/5/2019	3:33:47 PM	209.1	112.0
2/5/2019	3:33:48 PM	208.3	111.2
2/5/2019	3:33:49 PM	207.3	110.2
2/5/2019	3:33:50 PM	206.5	109.4
2/5/2019	3:33:51 PM	205.5	108.4
2/5/2019	3:33:52 PM	204.5	107.4
2/5/2019	3:33:53 PM	203.7	106.6
2/5/2019	3:33:54 PM	202.7	105.6
2/5/2019	3:33:55 PM	201.7	104.6

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:33:56 PM	200.8	103.7
2/5/2019	3:33:57 PM	199.9	102.8
2/5/2019	3:33:58 PM	199.0	101.9
2/5/2019	3:33:59 PM	198.0	100.9
2/5/2019	3:34:00 PM	197.1	100.0
2/5/2019	3:34:01 PM	196.1	99.0
2/5/2019	3:34:02 PM	195.2	98.1
2/5/2019	3:34:03 PM	194.2	97.1
2/5/2019	3:34:04 PM	193.3	96.2
2/5/2019	3:34:05 PM	192.3	95.2
2/5/2019	3:34:06 PM	191.5	94.4
2/5/2019	3:34:07 PM	190.5	93.4
2/5/2019	3:34:08 PM	189.7	92.6
2/5/2019	3:34:09 PM	188.8	91.7
2/5/2019	3:34:10 PM	188.0	90.9
2/5/2019	3:34:11 PM	187.2	90.1
2/5/2019	3:34:12 PM	186.5	89.4
2/5/2019	3:34:13 PM	185.6	88.5
2/5/2019	3:34:14 PM	184.9	87.8
2/5/2019	3:34:15 PM	184.0	86.9
2/5/2019	3:34:16 PM	183.3	86.2
2/5/2019	3:34:17 PM	182.5	85.4
2/5/2019	3:34:18 PM	181.7	84.6
2/5/2019	3:34:19 PM	180.9	83.8
2/5/2019	3:34:20 PM	180.2	83.1
2/5/2019	3:34:21 PM	179.4	82.3
2/5/2019	3:34:22 PM	178.7	81.6
2/5/2019	3:34:23 PM	177.9	80.8
2/5/2019	3:34:24 PM	177.3	80.2
2/5/2019	3:34:25 PM	176.5	79.4
2/5/2019	3:34:26 PM	175.9	78.8
2/5/2019	3:34:27 PM	175.2	78.1
2/5/2019	3:34:28 PM	174.6	77.5
2/5/2019	3:34:29 PM	173.9	76.8
2/5/2019	3:34:30 PM	173.3	76.2
2/5/2019	3:34:31 PM	172.6	75.5
2/5/2019	3:34:32 PM	172.0	74.9
2/5/2019	3:34:33 PM	171.4	74.3
2/5/2019	3:34:34 PM	170.7	73.6
2/5/2019	3:34:35 PM	170.1	73.0
2/5/2019	3:34:36 PM	169.5	72.4
2/5/2019	3:34:37 PM	168.9	71.8
2/5/2019	3:34:38 PM	168.3	71.2
2/5/2019	3:34:39 PM	167.7	70.6
2/5/2019	3:34:40 PM	167.1	70.0
2/5/2019	3:34:41 PM	166.5	69.4
2/5/2019	3:34:42 PM	165.8	68.7
2/5/2019	3:34:43 PM	165.3	68.2
2/5/2019	3:34:44 PM	164.6	67.5
2/5/2019	3:34:45 PM	164.1	67.0
2/5/2019	3:34:46 PM	163.4	66.3
2/5/2019	3:34:47 PM	162.9	65.8
2/5/2019	3:34:48 PM	162.2	65.1
2/5/2019	3:34:49 PM	161.7	64.6
2/5/2019	3:34:50 PM	161.1	64.0
2/5/2019	3:34:51 PM	160.5	63.4
2/5/2019	3:34:52 PM	159.9	62.8
2/5/2019	3:34:53 PM	159.3	62.2
2/5/2019	3:34:54 PM	158.7	61.6
2/5/2019	3:34:55 PM	158.2	61.1
2/5/2019	3:34:56 PM	157.6	60.5
2/5/2019	3:34:57 PM	157.1	60.0
2/5/2019	3:34:58 PM	156.5	59.4
2/5/2019	3:34:59 PM	156.1	59.0
2/5/2019	3:35:00 PM	155.5	58.4
2/5/2019	3:35:01 PM	155.1	58.0
2/5/2019	3:35:02 PM	154.5	57.4
2/5/2019	3:35:03 PM	154.1	57.0
2/5/2019	3:35:04 PM	153.6	56.5
2/5/2019	3:35:05 PM	153.2	56.1
2/5/2019	3:35:06 PM	152.7	55.6
2/5/2019	3:35:07 PM	152.3	55.2
2/5/2019	3:35:08 PM	151.9	54.8
2/5/2019	3:35:09 PM	151.5	54.4
2/5/2019	3:35:10 PM	151.1	54.0
2/5/2019	3:35:11 PM	150.8	53.7
2/5/2019	3:35:12 PM	150.3	53.2
2/5/2019	3:35:13 PM	150.0	52.9
2/5/2019	3:35:14 PM	149.6	52.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:35:15 PM	149.2	52.1
2/5/2019	3:35:16 PM	148.8	51.7
2/5/2019	3:35:17 PM	148.4	51.3
2/5/2019	3:35:18 PM	148.0	50.9
2/5/2019	3:35:19 PM	147.6	50.5
2/5/2019	3:35:20 PM	147.1	50.0
2/5/2019	3:35:21 PM	146.7	49.6
2/5/2019	3:35:22 PM	146.3	49.2
2/5/2019	3:35:23 PM	145.9	48.8
2/5/2019	3:35:24 PM	145.4	48.3
2/5/2019	3:35:25 PM	145.0	47.9
2/5/2019	3:35:26 PM	144.6	47.5
2/5/2019	3:35:27 PM	144.2	47.1
2/5/2019	3:35:28 PM	143.9	46.8
2/5/2019	3:35:29 PM	143.5	46.4
2/5/2019	3:35:30 PM	143.1	46.0
2/5/2019	3:35:31 PM	142.8	45.7
2/5/2019	3:35:32 PM	142.5	45.4
2/5/2019	3:35:33 PM	142.2	45.1
2/5/2019	3:35:34 PM	141.9	44.8
2/5/2019	3:35:35 PM	141.6	44.5
2/5/2019	3:35:36 PM	141.3	44.2
2/5/2019	3:35:37 PM	141.0	43.9
2/5/2019	3:35:38 PM	140.7	43.6
2/5/2019	3:35:39 PM	140.4	43.3
2/5/2019	3:35:40 PM	140.1	43.0
2/5/2019	3:35:41 PM	139.8	42.7
2/5/2019	3:35:42 PM	139.5	42.4
2/5/2019	3:35:43 PM	139.2	42.1
2/5/2019	3:35:44 PM	139.0	41.9
2/5/2019	3:35:45 PM	138.7	41.6
2/5/2019	3:35:46 PM	138.4	41.3
2/5/2019	3:35:47 PM	138.1	41.0
2/5/2019	3:35:48 PM	137.8	40.7
2/5/2019	3:35:49 PM	137.5	40.4
2/5/2019	3:35:50 PM	137.2	40.1
2/5/2019	3:35:51 PM	136.9	39.8
2/5/2019	3:35:52 PM	136.6	39.5
2/5/2019	3:35:53 PM	136.3	39.2
2/5/2019	3:35:54 PM	136.0	38.9
2/5/2019	3:35:55 PM	135.6	38.5
2/5/2019	3:35:56 PM	135.3	38.2
2/5/2019	3:35:57 PM	135.0	37.9
2/5/2019	3:35:58 PM	134.7	37.6
2/5/2019	3:35:59 PM	134.3	37.2
2/5/2019	3:36:00 PM	134.0	36.9
2/5/2019	3:36:01 PM	133.7	36.6
2/5/2019	3:36:02 PM	133.4	36.3
2/5/2019	3:36:03 PM	133.0	35.9
2/5/2019	3:36:04 PM	132.7	35.6
2/5/2019	3:36:05 PM	132.4	35.3
2/5/2019	3:36:06 PM	132.1	35.0
2/5/2019	3:36:07 PM	131.8	34.7
2/5/2019	3:36:08 PM	131.5	34.4
2/5/2019	3:36:09 PM	131.2	34.1
2/5/2019	3:36:10 PM	130.9	33.8
2/5/2019	3:36:11 PM	130.6	33.5
2/5/2019	3:36:12 PM	130.3	33.2
2/5/2019	3:36:13 PM	130.0	32.9
2/5/2019	3:36:14 PM	129.7	32.6
2/5/2019	3:36:15 PM	129.4	32.3
2/5/2019	3:36:16 PM	129.1	32.0
2/5/2019	3:36:17 PM	128.9	31.8
2/5/2019	3:36:18 PM	128.6	31.5
2/5/2019	3:36:19 PM	128.4	31.3
2/5/2019	3:36:20 PM	128.1	31.0
2/5/2019	3:36:21 PM	127.9	30.8
2/5/2019	3:36:22 PM	127.6	30.5
2/5/2019	3:36:23 PM	127.4	30.3
2/5/2019	3:36:24 PM	127.1	30.0
2/5/2019	3:36:25 PM	126.9	29.8
2/5/2019	3:36:26 PM	126.6	29.5
2/5/2019	3:36:27 PM	126.4	29.3
2/5/2019	3:36:28 PM	126.1	29.0
2/5/2019	3:36:29 PM	125.8	28.7
2/5/2019	3:36:30 PM	125.6	28.5
2/5/2019	3:36:31 PM	125.3	28.2
2/5/2019	3:36:32 PM	125.1	28.0
2/5/2019	3:36:33 PM	124.8	27.7

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:36:34 PM	124.6	27.5
2/5/2019	3:36:35 PM	124.3	27.2
2/5/2019	3:36:36 PM	124.1	27.0
2/5/2019	3:36:37 PM	123.8	26.7
2/5/2019	3:36:38 PM	123.5	26.4
2/5/2019	3:36:39 PM	123.3	26.2
2/5/2019	3:36:40 PM	123.1	26.0
2/5/2019	3:36:41 PM	122.8	25.7
2/5/2019	3:36:42 PM	122.6	25.5
2/5/2019	3:36:43 PM	122.3	25.2
2/5/2019	3:36:44 PM	122.1	25.0
2/5/2019	3:36:45 PM	121.9	24.8
2/5/2019	3:36:46 PM	121.6	24.5
2/5/2019	3:36:47 PM	121.4	24.3
2/5/2019	3:36:48 PM	121.2	24.1
2/5/2019	3:36:49 PM	121.0	23.9
2/5/2019	3:36:50 PM	120.7	23.6
2/5/2019	3:36:51 PM	120.6	23.5
2/5/2019	3:36:52 PM	120.3	23.2
2/5/2019	3:36:53 PM	120.2	23.1
2/5/2019	3:36:54 PM	119.9	22.8
2/5/2019	3:36:55 PM	119.8	22.7
2/5/2019	3:36:56 PM	119.5	22.4
2/5/2019	3:36:57 PM	119.4	22.3
2/5/2019	3:36:58 PM	119.2	22.1
2/5/2019	3:36:59 PM	119.0	21.9
2/5/2019	3:37:00 PM	118.9	21.8
2/5/2019	3:37:01 PM	118.7	21.6
2/5/2019	3:37:02 PM	118.5	21.4
2/5/2019	3:37:03 PM	118.3	21.2
2/5/2019	3:37:04 PM	118.2	21.1
2/5/2019	3:37:05 PM	118.0	20.9
2/5/2019	3:37:06 PM	117.8	20.7
2/5/2019	3:37:07 PM	117.7	20.6
2/5/2019	3:37:08 PM	117.5	20.4
2/5/2019	3:37:09 PM	117.3	20.2
2/5/2019	3:37:10 PM	117.2	20.1
2/5/2019	3:37:11 PM	117.0	19.9
2/5/2019	3:37:12 PM	116.8	19.7
2/5/2019	3:37:13 PM	116.7	19.6
2/5/2019	3:37:14 PM	116.5	19.4
2/5/2019	3:37:15 PM	116.4	19.3
2/5/2019	3:37:16 PM	116.2	19.1
2/5/2019	3:37:17 PM	116.1	19.0
2/5/2019	3:37:18 PM	115.9	18.8
2/5/2019	3:37:19 PM	115.8	18.7
2/5/2019	3:37:20 PM	115.7	18.6
2/5/2019	3:37:21 PM	115.6	18.5
2/5/2019	3:37:22 PM	115.5	18.4
2/5/2019	3:37:23 PM	115.3	18.2
2/5/2019	3:37:24 PM	115.2	18.1
2/5/2019	3:37:25 PM	115.1	18.0
2/5/2019	3:37:26 PM	115.0	17.9
2/5/2019	3:37:27 PM	114.9	17.8
2/5/2019	3:37:28 PM	114.9	17.8
2/5/2019	3:37:29 PM	114.8	17.7
2/5/2019	3:37:30 PM	114.7	17.6
2/5/2019	3:37:31 PM	114.6	17.5
2/5/2019	3:37:32 PM	114.5	17.4
2/5/2019	3:37:33 PM	114.3	17.2
2/5/2019	3:37:34 PM	114.3	17.2
2/5/2019	3:37:35 PM	114.1	17.0
2/5/2019	3:37:36 PM	114.0	16.9
2/5/2019	3:37:37 PM	113.9	16.8
2/5/2019	3:37:38 PM	113.8	16.7
2/5/2019	3:37:39 PM	113.7	16.6
2/5/2019	3:37:40 PM	113.6	16.5
2/5/2019	3:37:41 PM	113.5	16.4
2/5/2019	3:37:42 PM	113.4	16.3
2/5/2019	3:37:43 PM	113.2	16.1
2/5/2019	3:37:44 PM	113.1	16.0
2/5/2019	3:37:45 PM	113.0	15.9
2/5/2019	3:37:46 PM	112.9	15.8
2/5/2019	3:37:47 PM	112.8	15.7
2/5/2019	3:37:48 PM	112.6	15.5
2/5/2019	3:37:49 PM	112.5	15.4
2/5/2019	3:37:50 PM	112.4	15.3
2/5/2019	3:37:51 PM	112.3	15.2
2/5/2019	3:37:52 PM	112.2	15.1

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:37:53 PM	112.1	15.0
2/5/2019	3:37:54 PM	112.0	14.9
2/5/2019	3:37:55 PM	111.9	14.8
2/5/2019	3:37:56 PM	111.8	14.7
2/5/2019	3:37:57 PM	111.6	14.5
2/5/2019	3:37:58 PM	111.6	14.5
2/5/2019	3:37:59 PM	111.5	14.4
2/5/2019	3:38:00 PM	111.4	14.3
2/5/2019	3:38:01 PM	111.3	14.2
2/5/2019	3:38:02 PM	111.2	14.1
2/5/2019	3:38:03 PM	111.1	14.0
2/5/2019	3:38:04 PM	111.0	13.9
2/5/2019	3:38:05 PM	110.9	13.8
2/5/2019	3:38:06 PM	110.8	13.7
2/5/2019	3:38:07 PM	110.7	13.6
2/5/2019	3:38:08 PM	110.6	13.5
2/5/2019	3:38:09 PM	110.6	13.5
2/5/2019	3:38:10 PM	110.5	13.4
2/5/2019	3:38:11 PM	110.4	13.3
2/5/2019	3:38:12 PM	110.3	13.2
2/5/2019	3:38:13 PM	110.2	13.1
2/5/2019	3:38:14 PM	110.1	13.0
2/5/2019	3:38:15 PM	110.1	13.0
2/5/2019	3:38:16 PM	110.0	12.9
2/5/2019	3:38:17 PM	109.9	12.8
2/5/2019	3:38:18 PM	109.8	12.7
2/5/2019	3:38:19 PM	109.7	12.6
2/5/2019	3:38:20 PM	109.6	12.5
2/5/2019	3:38:21 PM	109.5	12.4
2/5/2019	3:38:22 PM	109.5	12.4
2/5/2019	3:38:23 PM	109.4	12.3
2/5/2019	3:38:24 PM	109.3	12.2
2/5/2019	3:38:25 PM	109.2	12.1
2/5/2019	3:38:26 PM	109.1	12.0
2/5/2019	3:38:27 PM	109.0	11.9
2/5/2019	3:38:28 PM	108.9	11.8
2/5/2019	3:38:29 PM	108.8	11.7
2/5/2019	3:38:30 PM	108.8	11.7
2/5/2019	3:38:31 PM	108.7	11.6
2/5/2019	3:38:32 PM	108.6	11.5
2/5/2019	3:38:33 PM	108.5	11.4
2/5/2019	3:38:34 PM	108.4	11.3
2/5/2019	3:38:35 PM	108.4	11.3
2/5/2019	3:38:36 PM	108.3	11.2
2/5/2019	3:38:37 PM	108.2	11.1
2/5/2019	3:38:38 PM	108.1	11.0
2/5/2019	3:38:39 PM	108.1	11.0
2/5/2019	3:38:40 PM	108.0	10.9
2/5/2019	3:38:41 PM	107.9	10.8
2/5/2019	3:38:42 PM	107.8	10.7
2/5/2019	3:38:43 PM	107.8	10.7
2/5/2019	3:38:44 PM	107.7	10.6
2/5/2019	3:38:45 PM	107.6	10.5
2/5/2019	3:38:46 PM	107.5	10.4
2/5/2019	3:38:47 PM	107.5	10.4
2/5/2019	3:38:48 PM	107.4	10.3
2/5/2019	3:38:49 PM	107.3	10.2
2/5/2019	3:38:50 PM	107.3	10.2
2/5/2019	3:38:51 PM	107.2	10.1
2/5/2019	3:38:52 PM	107.1	10.0
2/5/2019	3:38:53 PM	107.0	9.9
2/5/2019	3:38:54 PM	107.0	9.9
2/5/2019	3:38:55 PM	106.9	9.8
2/5/2019	3:38:56 PM	106.8	9.7
2/5/2019	3:38:57 PM	106.8	9.7
2/5/2019	3:38:58 PM	106.7	9.6
2/5/2019	3:38:59 PM	106.6	9.5
2/5/2019	3:39:00 PM	106.5	9.4
2/5/2019	3:39:01 PM	106.5	9.4
2/5/2019	3:39:02 PM	106.4	9.3
2/5/2019	3:39:03 PM	106.3	9.2
2/5/2019	3:39:04 PM	106.2	9.1
2/5/2019	3:39:05 PM	106.1	9.0
2/5/2019	3:39:06 PM	106.1	9.0
2/5/2019	3:39:07 PM	106.0	8.9
2/5/2019	3:39:08 PM	105.9	8.8
2/5/2019	3:39:09 PM	105.8	8.7
2/5/2019	3:39:10 PM	105.8	8.7
2/5/2019	3:39:11 PM	105.7	8.6

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/5/2019	3:39:12 PM	105.6	8.5
2/5/2019	3:39:13 PM	105.5	8.4
2/5/2019	3:39:14 PM	105.5	8.4
2/5/2019	3:39:15 PM	105.4	8.3
2/5/2019	3:39:16 PM	105.3	8.2
2/5/2019	3:39:17 PM	105.2	8.1
2/5/2019	3:39:18 PM	105.2	8.1
2/5/2019	3:39:19 PM	105.1	8.0
2/5/2019	3:39:20 PM	105.0	7.9
2/5/2019	3:39:21 PM	105.0	7.9
2/5/2019	3:39:22 PM	104.9	7.8
2/5/2019	3:39:23 PM	104.8	7.7
2/5/2019	3:39:24 PM	104.7	7.6
2/5/2019	3:39:25 PM	104.7	7.6
2/6/2019	1:00:52 PM	85.9	56.5
2/6/2019	1:00:53 PM	85.8	56.5
2/6/2019	1:00:54 PM	85.6	56.5
2/6/2019	1:00:55 PM	85.5	56.5
2/6/2019	1:00:56 PM	85.4	56.5
2/6/2019	1:00:57 PM	85.2	56.5
2/6/2019	1:00:58 PM	85.1	56.5
2/6/2019	1:00:59 PM	84.9	56.5
2/6/2019	1:01:00 PM	84.8	56.5
2/6/2019	1:01:01 PM	84.6	56.5
2/6/2019	1:01:02 PM	84.5	56.5
2/6/2019	1:01:03 PM	84.4	56.5
2/6/2019	1:01:04 PM	84.3	56.5
2/6/2019	1:01:05 PM	84.2	56.5
2/6/2019	1:01:06 PM	84.1	56.5
2/6/2019	1:01:07 PM	84.0	56.5
2/6/2019	1:01:08 PM	83.9	56.5
2/6/2019	1:01:09 PM	83.8	56.5
2/6/2019	1:01:10 PM	83.7	56.5
2/6/2019	1:01:11 PM	83.6	56.5
2/6/2019	1:01:12 PM	83.5	56.5
2/6/2019	1:01:13 PM	83.4	56.5
2/6/2019	1:01:14 PM	83.3	56.5
2/6/2019	1:01:14 PM	83.2	56.5
2/6/2019	1:01:15 PM	83.1	56.5
2/6/2019	1:01:16 PM	83.0	56.5
2/6/2019	1:01:17 PM	82.9	56.5
2/6/2019	1:01:18 PM	82.7	56.5
2/6/2019	1:01:19 PM	82.6	56.5
2/6/2019	1:01:20 PM	82.5	56.5
2/6/2019	1:01:21 PM	82.4	56.5
2/6/2019	1:01:22 PM	82.3	56.5
2/6/2019	1:01:23 PM	82.2	56.5
2/6/2019	1:01:24 PM	82.1	56.5
2/6/2019	1:01:25 PM	82.0	56.5
2/6/2019	1:01:26 PM	81.9	56.5
2/6/2019	1:01:27 PM	81.8	56.5
2/6/2019	1:01:28 PM	81.7	56.5
2/6/2019	1:01:29 PM	81.6	56.5
2/6/2019	1:01:30 PM	81.5	56.5
2/6/2019	1:01:31 PM	81.4	56.5
2/6/2019	1:01:32 PM	81.4	56.5
2/6/2019	1:01:33 PM	81.3	56.5
2/6/2019	1:01:34 PM	81.2	56.5
2/6/2019	1:01:35 PM	81.1	56.5
2/6/2019	1:01:36 PM	81.0	56.5
2/6/2019	1:01:37 PM	81.0	56.5
2/6/2019	1:01:38 PM	80.9	56.5
2/6/2019	1:01:39 PM	80.8	56.5
2/6/2019	1:01:40 PM	80.7	56.5
2/6/2019	1:01:41 PM	80.6	56.5
2/6/2019	1:01:42 PM	80.5	56.5
2/6/2019	1:01:43 PM	80.4	56.5
2/6/2019	1:01:44 PM	80.3	56.5
2/6/2019	1:01:45 PM	80.2	56.5
2/6/2019	1:01:46 PM	80.1	56.5
2/6/2019	1:01:47 PM	80.0	56.5
2/6/2019	1:01:48 PM	79.9	56.5
2/6/2019	1:01:49 PM	79.8	56.5
2/6/2019	1:01:50 PM	79.8	56.5
2/6/2019	1:01:51 PM	79.7	56.5
2/6/2019	1:01:52 PM	79.6	56.5
2/6/2019	1:01:53 PM	79.6	56.5
2/6/2019	1:01:54 PM	79.5	56.5
2/6/2019	1:01:55 PM	79.4	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:01:56 PM	79.4	56.5
2/6/2019	1:01:57 PM	79.4	56.5
2/6/2019	1:01:58 PM	79.3	56.5
2/6/2019	1:01:59 PM	79.3	56.5
2/6/2019	1:02:00 PM	79.3	56.5
2/6/2019	1:02:01 PM	79.2	56.5
2/6/2019	1:02:02 PM	79.2	56.5
2/6/2019	1:02:03 PM	79.2	56.5
2/6/2019	1:02:04 PM	79.1	56.5
2/6/2019	1:02:05 PM	79.1	56.5
2/6/2019	1:02:06 PM	79.1	56.5
2/6/2019	1:02:07 PM	79.0	56.5
2/6/2019	1:02:08 PM	78.9	56.5
2/6/2019	1:02:09 PM	78.9	56.5
2/6/2019	1:02:10 PM	78.8	56.5
2/6/2019	1:02:11 PM	78.7	56.5
2/6/2019	1:02:12 PM	78.6	56.5
2/6/2019	1:02:13 PM	78.5	56.5
2/6/2019	1:02:14 PM	78.5	56.5
2/6/2019	1:02:15 PM	78.4	56.5
2/6/2019	1:02:16 PM	78.3	56.5
2/6/2019	1:02:17 PM	78.2	56.5
2/6/2019	1:02:18 PM	78.1	56.5
2/6/2019	1:02:19 PM	78.0	56.5
2/6/2019	1:02:20 PM	78.0	56.5
2/6/2019	1:02:21 PM	77.9	56.5
2/6/2019	1:02:22 PM	77.8	56.5
2/6/2019	1:02:23 PM	77.7	56.5
2/6/2019	1:02:24 PM	77.6	56.5
2/6/2019	1:02:25 PM	77.5	56.5
2/6/2019	1:02:26 PM	77.4	56.5
2/6/2019	1:02:27 PM	77.3	56.5
2/6/2019	1:02:28 PM	77.2	56.5
2/6/2019	1:02:29 PM	77.1	56.5
2/6/2019	1:02:30 PM	77.1	56.5
2/6/2019	1:02:31 PM	77.0	56.5
2/6/2019	1:02:32 PM	76.9	56.5
2/6/2019	1:02:33 PM	76.9	56.5
2/6/2019	1:02:34 PM	76.8	56.5
2/6/2019	1:02:35 PM	76.8	56.5
2/6/2019	1:02:36 PM	76.7	56.5
2/6/2019	1:02:37 PM	76.7	56.5
2/6/2019	1:02:38 PM	76.7	56.5
2/6/2019	1:02:39 PM	76.6	56.5
2/6/2019	1:02:40 PM	76.6	56.5
2/6/2019	1:02:41 PM	76.5	56.5
2/6/2019	1:02:42 PM	76.5	56.5
2/6/2019	1:02:43 PM	76.4	56.5
2/6/2019	1:02:44 PM	76.4	56.5
2/6/2019	1:02:45 PM	76.3	56.5
2/6/2019	1:02:46 PM	76.3	56.5
2/6/2019	1:02:47 PM	76.2	56.5
2/6/2019	1:02:48 PM	76.1	56.5
2/6/2019	1:02:49 PM	76.1	56.5
2/6/2019	1:02:50 PM	76.0	56.5
2/6/2019	1:02:51 PM	75.9	56.5
2/6/2019	1:02:52 PM	75.9	56.5
2/6/2019	1:02:53 PM	75.8	56.5
2/6/2019	1:02:54 PM	75.7	56.5
2/6/2019	1:02:55 PM	75.7	56.5
2/6/2019	1:02:56 PM	75.6	56.5
2/6/2019	1:02:57 PM	75.6	56.5
2/6/2019	1:02:58 PM	75.5	56.5
2/6/2019	1:02:59 PM	75.5	56.5
2/6/2019	1:03:00 PM	75.5	56.5
2/6/2019	1:03:01 PM	75.4	56.5
2/6/2019	1:03:02 PM	75.4	56.5
2/6/2019	1:03:03 PM	75.4	56.5
2/6/2019	1:03:04 PM	75.3	56.5
2/6/2019	1:03:05 PM	75.3	56.5
2/6/2019	1:03:06 PM	75.2	56.5
2/6/2019	1:03:07 PM	75.1	56.5
2/6/2019	1:03:08 PM	75.1	56.5
2/6/2019	1:03:09 PM	75.0	56.5
2/6/2019	1:03:10 PM	75.0	56.5
2/6/2019	1:03:11 PM	74.9	56.5
2/6/2019	1:03:12 PM	74.8	56.5
2/6/2019	1:03:13 PM	74.8	56.5
2/6/2019	1:03:14 PM	74.7	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:03:15 PM	74.6	56.5
2/6/2019	1:03:16 PM	74.5	56.5
2/6/2019	1:03:17 PM	74.5	56.5
2/6/2019	1:03:18 PM	74.4	56.5
2/6/2019	1:03:19 PM	74.4	56.5
2/6/2019	1:03:20 PM	74.3	56.5
2/6/2019	1:03:21 PM	74.3	56.5
2/6/2019	1:03:22 PM	74.2	56.5
2/6/2019	1:03:23 PM	74.2	56.5
2/6/2019	1:03:24 PM	74.1	56.5
2/6/2019	1:03:25 PM	74.1	56.5
2/6/2019	1:03:26 PM	74.0	56.5
2/6/2019	1:03:27 PM	74.0	56.5
2/6/2019	1:03:28 PM	74.0	56.5
2/6/2019	1:03:29 PM	73.9	56.5
2/6/2019	1:03:30 PM	73.9	56.5
2/6/2019	1:03:31 PM	73.9	56.5
2/6/2019	1:03:32 PM	73.8	56.5
2/6/2019	1:03:33 PM	73.8	56.5
2/6/2019	1:03:34 PM	73.7	56.5
2/6/2019	1:03:35 PM	73.7	56.5
2/6/2019	1:03:36 PM	73.7	56.5
2/6/2019	1:03:37 PM	73.6	56.5
2/6/2019	1:03:38 PM	73.6	56.5
2/6/2019	1:03:39 PM	73.5	56.5
2/6/2019	1:03:40 PM	73.5	56.5
2/6/2019	1:03:41 PM	73.4	56.5
2/6/2019	1:03:42 PM	73.4	56.5
2/6/2019	1:03:43 PM	73.4	56.5
2/6/2019	1:03:44 PM	73.3	56.5
2/6/2019	1:03:45 PM	73.3	56.5
2/6/2019	1:03:46 PM	73.2	56.5
2/6/2019	1:03:47 PM	73.2	56.5
2/6/2019	1:03:48 PM	73.2	56.5
2/6/2019	1:03:49 PM	73.1	56.5
2/6/2019	1:03:50 PM	73.1	56.5
2/6/2019	1:03:51 PM	73.0	56.5
2/6/2019	1:03:52 PM	73.0	56.5
2/6/2019	1:03:53 PM	72.9	56.5
2/6/2019	1:03:54 PM	72.8	56.5
2/6/2019	1:03:55 PM	72.7	56.5
2/6/2019	1:03:56 PM	72.7	56.5
2/6/2019	1:03:57 PM	72.6	56.5
2/6/2019	1:03:58 PM	72.5	56.5
2/6/2019	1:03:59 PM	72.5	56.5
2/6/2019	1:04:00 PM	72.4	56.5
2/6/2019	1:04:01 PM	72.3	56.5
2/6/2019	1:04:02 PM	72.3	56.5
2/6/2019	1:04:03 PM	72.2	56.5
2/6/2019	1:04:04 PM	72.2	56.5
2/6/2019	1:04:05 PM	72.1	56.5
2/6/2019	1:04:06 PM	72.1	56.5
2/6/2019	1:04:07 PM	72.1	56.5
2/6/2019	1:04:08 PM	72.1	56.5
2/6/2019	1:04:09 PM	72.0	56.5
2/6/2019	1:04:10 PM	72.0	56.5
2/6/2019	1:04:11 PM	72.0	56.5
2/6/2019	1:04:12 PM	72.0	56.5
2/6/2019	1:04:13 PM	71.9	56.5
2/6/2019	1:04:14 PM	71.9	56.5
2/6/2019	1:04:15 PM	71.8	56.5
2/6/2019	1:04:16 PM	71.8	56.5
2/6/2019	1:04:17 PM	71.8	56.5
2/6/2019	1:04:18 PM	71.7	56.5
2/6/2019	1:04:19 PM	71.7	56.5
2/6/2019	1:04:20 PM	71.6	56.5
2/6/2019	1:04:21 PM	71.5	56.5
2/6/2019	1:04:22 PM	71.5	56.5
2/6/2019	1:04:23 PM	71.5	56.5
2/6/2019	1:04:24 PM	71.4	56.5
2/6/2019	1:04:25 PM	71.4	56.5
2/6/2019	1:04:26 PM	71.4	56.5
2/6/2019	1:04:27 PM	71.4	56.5
2/6/2019	1:04:28 PM	71.3	56.5
2/6/2019	1:04:29 PM	71.3	56.5
2/6/2019	1:04:30 PM	71.3	56.5
2/6/2019	1:04:31 PM	71.2	56.5
2/6/2019	1:04:32 PM	71.2	56.5
2/6/2019	1:04:33 PM	71.2	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:04:34 PM	71.1	56.5
2/6/2019	1:04:35 PM	71.1	56.5
2/6/2019	1:04:36 PM	71.0	56.5
2/6/2019	1:04:37 PM	71.0	56.5
2/6/2019	1:04:38 PM	70.9	56.5
2/6/2019	1:04:39 PM	70.9	56.5
2/6/2019	1:04:40 PM	70.8	56.5
2/6/2019	1:04:41 PM	70.8	56.5
2/6/2019	1:04:42 PM	70.7	56.5
2/6/2019	1:04:43 PM	70.7	56.5
2/6/2019	1:04:44 PM	70.6	56.5
2/6/2019	1:04:45 PM	70.6	56.5
2/6/2019	1:04:46 PM	70.5	56.5
2/6/2019	1:04:47 PM	70.5	56.5
2/6/2019	1:04:48 PM	70.4	56.5
2/6/2019	1:04:49 PM	70.4	56.5
2/6/2019	1:04:50 PM	70.3	56.5
2/6/2019	1:04:51 PM	70.3	56.5
2/6/2019	1:04:52 PM	70.2	56.5
2/6/2019	1:04:53 PM	70.2	56.5
2/6/2019	1:04:54 PM	70.2	56.5
2/6/2019	1:04:55 PM	70.2	56.5
2/6/2019	1:04:56 PM	70.2	56.5
2/6/2019	1:04:57 PM	70.1	56.5
2/6/2019	1:04:58 PM	70.1	56.5
2/6/2019	1:04:59 PM	70.1	56.5
2/6/2019	1:05:00 PM	70.1	56.5
2/6/2019	1:05:01 PM	70.1	56.5
2/6/2019	1:05:02 PM	70.1	56.5
2/6/2019	1:05:03 PM	70.1	56.5
2/6/2019	1:05:04 PM	70.1	56.5
2/6/2019	1:05:05 PM	70.0	56.5
2/6/2019	1:05:06 PM	70.0	56.5
2/6/2019	1:05:07 PM	70.0	56.5
2/6/2019	1:05:08 PM	70.0	56.5
2/6/2019	1:05:09 PM	69.9	56.5
2/6/2019	1:05:10 PM	69.9	56.5
2/6/2019	1:05:11 PM	69.9	56.5
2/6/2019	1:05:12 PM	69.9	56.5
2/6/2019	1:05:13 PM	69.9	56.5
2/6/2019	1:05:14 PM	69.8	56.5
2/6/2019	1:05:15 PM	69.8	56.5
2/6/2019	1:05:16 PM	69.7	56.5
2/6/2019	1:05:17 PM	69.7	56.5
2/6/2019	1:05:18 PM	69.6	56.5
2/6/2019	1:05:19 PM	69.6	56.5
2/6/2019	1:05:20 PM	69.6	56.5
2/6/2019	1:05:21 PM	69.5	56.5
2/6/2019	1:05:22 PM	69.5	56.5
2/6/2019	1:05:23 PM	69.4	56.5
2/6/2019	1:05:24 PM	69.4	56.5
2/6/2019	1:05:25 PM	69.3	56.5
2/6/2019	1:05:26 PM	69.3	56.5
2/6/2019	1:05:27 PM	69.3	56.5
2/6/2019	1:05:28 PM	69.2	56.5
2/6/2019	1:05:29 PM	69.2	56.5
2/6/2019	1:05:30 PM	69.2	56.5
2/6/2019	1:05:31 PM	69.1	56.5
2/6/2019	1:05:32 PM	69.1	56.5
2/6/2019	1:05:33 PM	69.1	56.5
2/6/2019	1:05:34 PM	69.0	56.5
2/6/2019	1:05:35 PM	69.0	56.5
2/6/2019	1:05:36 PM	69.0	56.5
2/6/2019	1:05:37 PM	68.9	56.5
2/6/2019	1:05:38 PM	68.9	56.5
2/6/2019	1:05:39 PM	68.9	56.5
2/6/2019	1:05:40 PM	68.9	56.5
2/6/2019	1:05:41 PM	68.8	56.5
2/6/2019	1:05:42 PM	68.8	56.5
2/6/2019	1:05:43 PM	68.8	56.5
2/6/2019	1:05:44 PM	68.7	56.5
2/6/2019	1:05:45 PM	68.7	56.5
2/6/2019	1:05:46 PM	68.7	56.5
2/6/2019	1:05:47 PM	68.6	56.5
2/6/2019	1:05:48 PM	68.6	56.5
2/6/2019	1:05:49 PM	68.6	56.5
2/6/2019	1:05:50 PM	68.6	56.5
2/6/2019	1:05:51 PM	68.5	56.5
2/6/2019	1:05:52 PM	68.5	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:05:53 PM	68.5	56.5
2/6/2019	1:05:54 PM	68.5	56.5
2/6/2019	1:05:55 PM	68.5	56.5
2/6/2019	1:05:56 PM	68.4	56.5
2/6/2019	1:05:57 PM	68.4	56.5
2/6/2019	1:05:58 PM	68.4	56.5
2/6/2019	1:05:59 PM	68.4	56.5
2/6/2019	1:06:00 PM	68.3	56.5
2/6/2019	1:06:01 PM	68.3	56.5
2/6/2019	1:06:02 PM	68.3	56.5
2/6/2019	1:06:03 PM	68.3	56.5
2/6/2019	1:06:04 PM	68.2	56.5
2/6/2019	1:06:05 PM	68.2	56.5
2/6/2019	1:06:06 PM	68.2	56.5
2/6/2019	1:06:07 PM	68.1	56.5
2/6/2019	1:06:08 PM	68.1	56.5
2/6/2019	1:06:09 PM	68.1	56.5
2/6/2019	1:06:10 PM	68.1	56.5
2/6/2019	1:06:11 PM	68.1	56.5
2/6/2019	1:06:12 PM	68.0	56.5
2/6/2019	1:06:13 PM	68.0	56.5
2/6/2019	1:06:14 PM	68.0	56.5
2/6/2019	1:06:15 PM	68.0	56.5
2/6/2019	1:06:16 PM	68.0	56.5
2/6/2019	1:06:17 PM	68.0	56.5
2/6/2019	1:06:18 PM	68.0	56.5
2/6/2019	1:06:19 PM	68.0	56.5
2/6/2019	1:06:20 PM	67.9	56.5
2/6/2019	1:06:21 PM	67.9	56.5
2/6/2019	1:06:22 PM	67.9	56.5
2/6/2019	1:06:23 PM	67.8	56.5
2/6/2019	1:06:24 PM	67.8	56.5
2/6/2019	1:06:25 PM	67.8	56.5
2/6/2019	1:06:26 PM	67.7	56.5
2/6/2019	1:06:27 PM	67.7	56.5
2/6/2019	1:06:28 PM	67.7	56.5
2/6/2019	1:06:29 PM	67.6	56.5
2/6/2019	1:06:30 PM	67.6	56.5
2/6/2019	1:06:31 PM	67.6	56.5
2/6/2019	1:06:32 PM	67.6	56.5
2/6/2019	1:06:33 PM	67.5	56.5
2/6/2019	1:06:34 PM	67.5	56.5
2/6/2019	1:06:35 PM	67.5	56.5
2/6/2019	1:06:36 PM	67.4	56.5
2/6/2019	1:06:37 PM	67.4	56.5
2/6/2019	1:06:38 PM	67.4	56.5
2/6/2019	1:06:39 PM	67.4	56.5
2/6/2019	1:06:40 PM	67.3	56.5
2/6/2019	1:06:41 PM	67.3	56.5
2/6/2019	1:06:42 PM	67.3	56.5
2/6/2019	1:06:43 PM	67.3	56.5
2/6/2019	1:06:44 PM	67.3	56.5
2/6/2019	1:06:45 PM	67.2	56.5
2/6/2019	1:06:46 PM	67.2	56.5
2/6/2019	1:06:47 PM	67.2	56.5
2/6/2019	1:06:48 PM	67.2	56.5
2/6/2019	1:06:49 PM	67.2	56.5
2/6/2019	1:06:50 PM	67.2	56.5
2/6/2019	1:06:51 PM	67.2	56.5
2/6/2019	1:06:52 PM	67.1	56.5
2/6/2019	1:06:53 PM	67.1	56.5
2/6/2019	1:06:54 PM	67.1	56.5
2/6/2019	1:06:55 PM	67.1	56.5
2/6/2019	1:06:56 PM	67.1	56.5
2/6/2019	1:06:57 PM	67.1	56.5
2/6/2019	1:06:58 PM	67.1	56.5
2/6/2019	1:06:59 PM	67.1	56.5
2/6/2019	1:07:00 PM	67.0	56.5
2/6/2019	1:07:01 PM	67.0	56.5
2/6/2019	1:07:02 PM	67.0	56.5
2/6/2019	1:07:03 PM	67.0	56.5
2/6/2019	1:07:04 PM	67.0	56.5
2/6/2019	1:07:05 PM	66.9	56.5
2/6/2019	1:07:06 PM	66.9	56.5
2/6/2019	1:07:07 PM	66.9	56.5
2/6/2019	1:07:08 PM	66.9	56.5
2/6/2019	1:07:09 PM	66.9	56.5
2/6/2019	1:07:10 PM	66.9	56.5
2/6/2019	1:07:11 PM	66.8	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:07:12 PM	66.8	56.5
2/6/2019	1:07:13 PM	66.8	56.5
2/6/2019	1:07:14 PM	66.8	56.5
2/6/2019	1:07:15 PM	66.7	56.5
2/6/2019	1:07:16 PM	66.7	56.5
2/6/2019	1:07:17 PM	66.7	56.5
2/6/2019	1:07:18 PM	66.7	56.5
2/6/2019	1:07:19 PM	66.6	56.5
2/6/2019	1:07:20 PM	66.6	56.5
2/6/2019	1:07:21 PM	66.6	56.5
2/6/2019	1:07:22 PM	66.6	56.5
2/6/2019	1:07:23 PM	66.5	56.5
2/6/2019	1:07:24 PM	66.5	56.5
2/6/2019	1:07:25 PM	66.5	56.5
2/6/2019	1:07:26 PM	66.5	56.5
2/6/2019	1:07:27 PM	66.4	56.5
2/6/2019	1:07:28 PM	66.4	56.5
2/6/2019	1:07:29 PM	66.4	56.5
2/6/2019	1:07:30 PM	66.4	56.5
2/6/2019	1:07:31 PM	66.3	56.5
2/6/2019	1:07:32 PM	66.3	56.5
2/6/2019	1:07:33 PM	66.3	56.5
2/6/2019	1:07:34 PM	66.3	56.5
2/6/2019	1:07:35 PM	66.2	56.5
2/6/2019	1:07:36 PM	66.2	56.5
2/6/2019	1:07:37 PM	66.2	56.5
2/6/2019	1:07:38 PM	66.2	56.5
2/6/2019	1:07:39 PM	66.1	56.5
2/6/2019	1:07:40 PM	66.1	56.5
2/6/2019	1:07:41 PM	66.1	56.5
2/6/2019	1:07:42 PM	66.1	56.5
2/6/2019	1:07:43 PM	66.1	56.5
2/6/2019	1:07:44 PM	66.1	56.5
2/6/2019	1:07:45 PM	66.0	56.5
2/6/2019	1:07:46 PM	66.0	56.5
2/6/2019	1:07:47 PM	66.0	56.5
2/6/2019	1:07:48 PM	66.0	56.5
2/6/2019	1:07:49 PM	66.0	56.5
2/6/2019	1:07:50 PM	66.0	56.5
2/6/2019	1:07:51 PM	66.0	56.5
2/6/2019	1:07:52 PM	65.9	56.5
2/6/2019	1:07:53 PM	65.9	56.5
2/6/2019	1:07:54 PM	65.9	56.5
2/6/2019	1:07:55 PM	65.9	56.5
2/6/2019	1:07:56 PM	65.9	56.5
2/6/2019	1:07:57 PM	65.9	56.5
2/6/2019	1:07:58 PM	65.9	56.5
2/6/2019	1:07:59 PM	65.9	56.5
2/6/2019	1:08:00 PM	65.9	56.5
2/6/2019	1:08:01 PM	65.8	56.5
2/6/2019	1:08:02 PM	65.8	56.5
2/6/2019	1:08:03 PM	65.8	56.5
2/6/2019	1:08:04 PM	65.8	56.5
2/6/2019	1:08:05 PM	65.8	56.5
2/6/2019	1:08:06 PM	65.8	56.5
2/6/2019	1:08:07 PM	65.7	56.5
2/6/2019	1:08:08 PM	65.7	56.5
2/6/2019	1:08:09 PM	65.7	56.5
2/6/2019	1:08:10 PM	65.7	56.5
2/6/2019	1:08:11 PM	65.7	56.5
2/6/2019	1:08:12 PM	65.7	56.5
2/6/2019	1:08:13 PM	65.6	56.5
2/6/2019	1:08:14 PM	65.6	56.5
2/6/2019	1:08:15 PM	65.6	56.5
2/6/2019	1:08:16 PM	65.6	56.5
2/6/2019	1:08:17 PM	65.6	56.5
2/6/2019	1:08:18 PM	65.6	56.5
2/6/2019	1:08:19 PM	65.5	56.5
2/6/2019	1:08:20 PM	65.5	56.5
2/6/2019	1:08:21 PM	65.5	56.5
2/6/2019	1:08:22 PM	65.5	56.5
2/6/2019	1:08:23 PM	65.5	56.5
2/6/2019	1:08:24 PM	65.5	56.5
2/6/2019	1:08:25 PM	65.5	56.5
2/6/2019	1:08:26 PM	65.4	56.5
2/6/2019	1:08:27 PM	65.4	56.5
2/6/2019	1:08:28 PM	65.4	56.5
2/6/2019	1:08:29 PM	65.4	56.5
2/6/2019	1:08:30 PM	65.4	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:08:31 PM	65.4	56.5
2/6/2019	1:08:32 PM	65.4	56.5
2/6/2019	1:08:33 PM	65.3	56.5
2/6/2019	1:08:34 PM	65.3	56.5
2/6/2019	1:08:35 PM	65.3	56.5
2/6/2019	1:08:36 PM	65.3	56.5
2/6/2019	1:08:37 PM	65.3	56.5
2/6/2019	1:08:38 PM	65.2	56.5
2/6/2019	1:08:39 PM	65.2	56.5
2/6/2019	1:08:40 PM	65.2	56.5
2/6/2019	1:08:41 PM	65.2	56.5
2/6/2019	1:08:42 PM	65.2	56.5
2/6/2019	1:08:43 PM	65.2	56.5
2/6/2019	1:08:44 PM	65.1	56.5
2/6/2019	1:08:45 PM	65.1	56.5
2/6/2019	1:08:46 PM	65.1	56.5
2/6/2019	1:08:47 PM	65.1	56.5
2/6/2019	1:08:48 PM	65.1	56.5
2/6/2019	1:08:49 PM	65.1	56.5
2/6/2019	1:08:50 PM	65.1	56.5
2/6/2019	1:08:51 PM	65.0	56.5
2/6/2019	1:08:52 PM	65.0	56.5
2/6/2019	1:08:53 PM	65.0	56.5
2/6/2019	1:08:54 PM	65.0	56.5
2/6/2019	1:08:55 PM	65.0	56.5
2/6/2019	1:08:56 PM	65.0	56.5
2/6/2019	1:08:57 PM	64.9	56.5
2/6/2019	1:08:58 PM	64.9	56.5
2/6/2019	1:08:59 PM	64.9	56.5
2/6/2019	1:09:00 PM	64.9	56.5
2/6/2019	1:09:01 PM	64.9	56.5
2/6/2019	1:09:02 PM	64.8	56.5
2/6/2019	1:09:03 PM	64.8	56.5
2/6/2019	1:09:04 PM	64.8	56.5
2/6/2019	1:09:05 PM	64.8	56.5
2/6/2019	1:09:06 PM	64.8	56.5
2/6/2019	1:09:07 PM	64.7	56.5
2/6/2019	1:09:08 PM	64.7	56.5
2/6/2019	1:09:09 PM	64.7	56.5
2/6/2019	1:09:10 PM	64.7	56.5
2/6/2019	1:09:11 PM	64.7	56.5
2/6/2019	1:09:12 PM	64.6	56.5
2/6/2019	1:09:13 PM	64.6	56.5
2/6/2019	1:09:14 PM	64.6	56.5
2/6/2019	1:09:15 PM	64.6	56.5
2/6/2019	1:09:16 PM	64.5	56.5
2/6/2019	1:09:17 PM	64.5	56.5
2/6/2019	1:09:18 PM	64.5	56.5
2/6/2019	1:09:19 PM	64.5	56.5
2/6/2019	1:09:20 PM	64.5	56.5
2/6/2019	1:09:21 PM	64.4	56.5
2/6/2019	1:09:22 PM	64.4	56.5
2/6/2019	1:09:23 PM	64.4	56.5
2/6/2019	1:09:24 PM	64.4	56.5
2/6/2019	1:09:25 PM	64.4	56.5
2/6/2019	1:09:26 PM	64.4	56.5
2/6/2019	1:09:27 PM	64.4	56.5
2/6/2019	1:09:28 PM	64.3	56.5
2/6/2019	1:09:29 PM	64.3	56.5
2/6/2019	1:09:30 PM	64.3	56.5
2/6/2019	1:09:31 PM	64.3	56.5
2/6/2019	1:09:32 PM	64.3	56.5
2/6/2019	1:09:33 PM	64.3	56.5
2/6/2019	1:09:34 PM	64.3	56.5
2/6/2019	1:09:35 PM	64.3	56.5
2/6/2019	1:09:36 PM	64.2	56.5
2/6/2019	1:09:37 PM	64.2	56.5
2/6/2019	1:09:38 PM	64.2	56.5
2/6/2019	1:09:39 PM	64.2	56.5
2/6/2019	1:09:40 PM	64.2	56.5
2/6/2019	1:09:41 PM	64.2	56.5
2/6/2019	1:09:42 PM	64.1	56.5
2/6/2019	1:09:43 PM	64.1	56.5
2/6/2019	1:09:44 PM	64.1	56.5
2/6/2019	1:09:45 PM	64.1	56.5
2/6/2019	1:09:46 PM	64.1	56.5
2/6/2019	1:09:47 PM	64.1	56.5
2/6/2019	1:09:48 PM	64.0	56.5
2/6/2019	1:09:49 PM	64.0	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:09:50 PM	64.0	56.5
2/6/2019	1:09:51 PM	64.0	56.5
2/6/2019	1:09:52 PM	64.0	56.5
2/6/2019	1:09:53 PM	64.0	56.5
2/6/2019	1:09:54 PM	64.0	56.5
2/6/2019	1:09:55 PM	63.9	56.5
2/6/2019	1:09:56 PM	63.9	56.5
2/6/2019	1:09:57 PM	63.9	56.5
2/6/2019	1:09:58 PM	63.9	56.5
2/6/2019	1:09:59 PM	63.9	56.5
2/6/2019	1:10:00 PM	63.9	56.5
2/6/2019	1:10:01 PM	63.9	56.5
2/6/2019	1:10:02 PM	63.8	56.5
2/6/2019	1:10:03 PM	63.8	56.5
2/6/2019	1:10:04 PM	63.8	56.5
2/6/2019	1:10:05 PM	63.8	56.5
2/6/2019	1:10:06 PM	63.8	56.5
2/6/2019	1:10:07 PM	63.8	56.5
2/6/2019	1:10:08 PM	63.8	56.5
2/6/2019	1:10:09 PM	63.8	56.5
2/6/2019	1:10:10 PM	63.8	56.5
2/6/2019	1:10:11 PM	63.7	56.5
2/6/2019	1:10:12 PM	63.7	56.5
2/6/2019	1:10:13 PM	63.7	56.5
2/6/2019	1:10:14 PM	63.7	56.5
2/6/2019	1:10:15 PM	63.7	56.5
2/6/2019	1:10:16 PM	63.7	56.5
2/6/2019	1:10:17 PM	63.7	56.5
2/6/2019	1:10:18 PM	63.7	56.5
2/6/2019	1:10:19 PM	63.7	56.5
2/6/2019	1:10:20 PM	63.6	56.5
2/6/2019	1:10:21 PM	63.6	56.5
2/6/2019	1:10:22 PM	63.6	56.5
2/6/2019	1:10:23 PM	63.6	56.5
2/6/2019	1:10:24 PM	63.6	56.5
2/6/2019	1:10:25 PM	63.6	56.5
2/6/2019	1:10:26 PM	63.5	56.5
2/6/2019	1:10:27 PM	63.5	56.5
2/6/2019	1:10:28 PM	63.5	56.5
2/6/2019	1:10:29 PM	63.5	56.5
2/6/2019	1:10:30 PM	63.5	56.5
2/6/2019	1:10:31 PM	63.5	56.5
2/6/2019	1:10:32 PM	63.5	56.5
2/6/2019	1:10:33 PM	63.5	56.5
2/6/2019	1:10:34 PM	63.5	56.5
2/6/2019	1:10:35 PM	63.5	56.5
2/6/2019	1:10:36 PM	63.5	56.5
2/6/2019	1:10:37 PM	63.4	56.5
2/6/2019	1:10:38 PM	63.4	56.5
2/6/2019	1:10:39 PM	63.4	56.5
2/6/2019	1:10:40 PM	63.4	56.5
2/6/2019	1:10:41 PM	63.4	56.5
2/6/2019	1:10:42 PM	63.4	56.5
2/6/2019	1:10:43 PM	63.4	56.5
2/6/2019	1:10:44 PM	63.3	56.5
2/6/2019	1:10:45 PM	63.3	56.5
2/6/2019	1:10:46 PM	63.3	56.5
2/6/2019	1:10:47 PM	63.3	56.5
2/6/2019	1:10:48 PM	63.3	56.5
2/6/2019	1:10:49 PM	63.3	56.5
2/6/2019	1:10:50 PM	63.3	56.5
2/6/2019	1:10:51 PM	63.3	56.5
2/6/2019	1:10:52 PM	63.2	56.5
2/6/2019	1:10:53 PM	63.2	56.5
2/6/2019	1:10:54 PM	63.2	56.5
2/6/2019	1:10:55 PM	63.2	56.5
2/6/2019	1:10:56 PM	63.2	56.5
2/6/2019	1:10:57 PM	63.2	56.5
2/6/2019	1:10:58 PM	63.2	56.5
2/6/2019	1:10:59 PM	63.2	56.5
2/6/2019	1:11:00 PM	63.2	56.5
2/6/2019	1:11:01 PM	63.2	56.5
2/6/2019	1:11:02 PM	63.2	56.5
2/6/2019	1:11:03 PM	63.2	56.5
2/6/2019	1:11:04 PM	63.2	56.5
2/6/2019	1:11:05 PM	63.1	56.5
2/6/2019	1:11:06 PM	63.1	56.5
2/6/2019	1:11:07 PM	63.1	56.5
2/6/2019	1:11:08 PM	63.1	56.5

APPENDIX E42: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:11:09 PM	63.1	56.5
2/6/2019	1:11:10 PM	63.1	56.5
2/6/2019	1:11:11 PM	63.1	56.5
2/6/2019	1:11:12 PM	63.1	56.5
2/6/2019	1:11:13 PM	63.1	56.5
2/6/2019	1:11:14 PM	63.1	56.5
2/6/2019	1:11:15 PM	63.1	56.5
2/6/2019	1:11:16 PM	63.0	56.5
2/6/2019	1:11:17 PM	63.0	56.5
2/6/2019	1:11:18 PM	63.0	56.5
2/6/2019	1:11:19 PM	63.0	56.5
2/6/2019	1:11:20 PM	63.0	56.5
2/6/2019	1:11:21 PM	63.0	56.5
2/6/2019	1:11:22 PM	63.0	56.5
2/6/2019	1:11:23 PM	63.0	56.5
2/6/2019	1:11:24 PM	63.0	56.5
2/6/2019	1:11:25 PM	63.0	56.5
2/6/2019	1:11:26 PM	62.9	56.5
2/6/2019	1:11:27 PM	62.9	56.5
2/6/2019	1:11:28 PM	62.9	56.5
2/6/2019	1:11:29 PM	62.9	56.5
2/6/2019	1:11:30 PM	62.9	56.5
2/6/2019	1:11:31 PM	62.9	56.5
2/6/2019	1:11:32 PM	62.9	56.5
2/6/2019	1:11:33 PM	62.9	56.5
2/6/2019	1:11:34 PM	62.9	56.5
2/6/2019	1:11:35 PM	62.9	56.5
2/6/2019	1:11:36 PM	62.9	56.5
2/6/2019	1:11:37 PM	62.9	56.5
2/6/2019	1:11:38 PM	62.8	56.5
2/6/2019	1:11:39 PM	62.8	56.5
2/6/2019	1:11:40 PM	62.8	56.5
2/6/2019	1:11:41 PM	62.8	56.5
2/6/2019	1:11:42 PM	62.8	56.5
2/6/2019	1:11:43 PM	62.8	56.5
2/6/2019	1:11:44 PM	62.8	56.5
2/6/2019	1:11:45 PM	62.8	56.5
2/6/2019	1:11:46 PM	62.8	56.5
2/6/2019	1:11:47 PM	62.8	56.5
2/6/2019	1:11:48 PM	62.8	56.5
2/6/2019	1:11:49 PM	62.8	56.5
2/6/2019	1:11:50 PM	62.8	56.5
2/6/2019	1:11:51 PM	62.8	56.5
2/6/2019	1:11:52 PM	62.8	56.5
2/6/2019	1:11:53 PM	62.8	56.5
2/6/2019	1:11:54 PM	62.8	56.5
2/6/2019	1:11:55 PM	62.8	56.5
2/6/2019	1:11:56 PM	62.8	56.5
2/6/2019	1:11:57 PM	62.8	56.5
2/6/2019	1:11:58 PM	62.7	56.5
2/6/2019	1:11:59 PM	62.7	56.5
2/6/2019	1:12:00 PM	62.7	56.5
2/6/2019	1:12:01 PM	62.7	56.5
2/6/2019	1:12:02 PM	62.7	56.5
2/6/2019	1:12:03 PM	62.7	56.5
2/6/2019	1:12:04 PM	62.7	56.5
2/6/2019	1:12:05 PM	62.7	56.5
2/6/2019	1:12:06 PM	62.7	56.5
2/6/2019	1:12:07 PM	62.7	56.5
2/6/2019	1:12:08 PM	62.6	56.5
2/6/2019	1:12:09 PM	62.6	56.5
2/6/2019	1:12:10 PM	62.6	56.5
2/6/2019	1:12:11 PM	62.6	56.5
2/6/2019	1:12:12 PM	62.6	56.5
2/6/2019	1:12:13 PM	62.6	56.5
2/6/2019	1:12:14 PM	62.5	56.5
2/6/2019	1:12:15 PM	62.5	56.5
2/6/2019	1:12:16 PM	62.5	56.5
2/6/2019	1:12:17 PM	62.5	56.5
2/6/2019	1:12:18 PM	62.5	56.5
2/6/2019	1:12:19 PM	62.5	56.5

Table E2 SEEP-B2 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-1	1210	93.8	12.5
SEEP-B2 TEST-1	1211	93.5	12.6
SEEP-B2 TEST-1	1213	74.7	12.6
SEEP-B2 TEST-1	1215	87.2	12.9
Average		88.2	
Geo Mean		87.9	(µS/cms)
Average (pre-test)		97.1	(µS/cms)
Average (post-test)		-	(µS/cms)

Table E3 SEEP-B2 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2 TEST-1	10	83.3	11.3
SEEP-B2 TEST-1	100	311	22.5
SEEP-B2 TEST-1	1,000	13,770	21.7
SEEP-B2 TEST-1	10,000	107,962	22.6

Table E4 SEEP-B2 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.0825	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	235,823.5	(s) . (µS/cms)
Calculated Flow Rate	Q	1.4	L/s
		21.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:50:17 PM	56.8	-
2/6/2019	12:50:18 PM	56.8	-
2/6/2019	12:50:19 PM	56.8	-
2/6/2019	12:50:20 PM	56.8	-
2/6/2019	12:50:21 PM	56.7	-
2/6/2019	12:50:22 PM	56.7	-
2/6/2019	12:50:23 PM	56.7	-
2/6/2019	12:50:24 PM	56.7	-
2/6/2019	12:50:25 PM	56.6	-
2/6/2019	12:50:26 PM	56.6	-
2/6/2019	12:50:27 PM	56.5	-
2/6/2019	12:50:28 PM	56.5	-
2/6/2019	12:50:29 PM	56.4	-
2/6/2019	12:50:30 PM	56.4	-
2/6/2019	12:50:31 PM	56.4	-
2/6/2019	12:50:32 PM	56.4	-
2/6/2019	12:50:33 PM	56.4	-
2/6/2019	12:50:34 PM	56.4	-
2/6/2019	12:50:35 PM	56.4	-
2/6/2019	12:50:36 PM	56.4	-
2/6/2019	12:50:37 PM	56.4	-
2/6/2019	12:50:38 PM	56.4	-
2/6/2019	12:50:39 PM	56.4	-
2/6/2019	12:50:40 PM	56.4	-
2/6/2019	12:50:41 PM	56.4	-
2/6/2019	12:50:42 PM	56.4	-
2/6/2019	12:50:43 PM	56.3	-
2/6/2019	12:50:44 PM	56.3	-
2/6/2019	12:50:45 PM	56.2	-
2/6/2019	12:50:46 PM	56.2	-
2/6/2019	12:50:47 PM	56.1	-
2/6/2019	12:50:48 PM	56.1	-
2/6/2019	12:50:49 PM	56.1	-
2/6/2019	12:50:50 PM	56.1	-
2/6/2019	12:50:51 PM	56.0	-
2/6/2019	12:50:52 PM	56.0	0.5
2/6/2019	12:50:53 PM	56.0	1.1
2/6/2019	12:50:54 PM	56.0	3.0
2/6/2019	12:50:55 PM	56.0	77.7
2/6/2019	12:50:56 PM	56.0	159.2
2/6/2019	12:50:57 PM	56.0	278.1
2/6/2019	12:50:58 PM	56.0	510.9
2/6/2019	12:50:59 PM	56.0	699.0
2/6/2019	12:51:00 PM	56.0	1339.0
2/6/2019	12:51:01 PM	56.0	1780.6
2/6/2019	12:51:02 PM	56.0	2340.8
2/6/2019	12:51:03 PM	56.0	2647.9
2/6/2019	12:51:04 PM	56.0	3009.7
2/6/2019	12:51:05 PM	55.9	3627.3
2/6/2019	12:51:06 PM	55.9	4042.2
2/6/2019	12:51:07 PM	55.9	4268.9
2/6/2019	12:51:08 PM	55.9	4344.7
2/6/2019	12:51:09 PM	55.9	4769.5
2/6/2019	12:51:10 PM	55.9	4875.9
2/6/2019	12:51:11 PM	55.9	4932.9
2/6/2019	12:51:12 PM	55.9	4979.4
2/6/2019	12:51:13 PM	55.9	4980.4
2/6/2019	12:51:14 PM	55.8	4971.6
2/6/2019	12:51:15 PM	55.8	4961.0
2/6/2019	12:51:16 PM	55.8	4937.3
2/6/2019	12:51:17 PM	55.8	4903.8
2/6/2019	12:51:18 PM	55.8	4563.4
2/6/2019	12:51:19 PM	55.8	4523.4
2/6/2019	12:51:20 PM	55.8	4422.1
2/6/2019	12:51:21 PM	55.7	4321.7
2/6/2019	12:51:22 PM	55.7	4213.8
2/6/2019	12:51:23 PM	55.7	4110.0
2/6/2019	12:51:24 PM	55.7	4053.3
2/6/2019	12:51:25 PM	55.6	3649.6
2/6/2019	12:51:26 PM	55.6	3542.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:51:27 PM	55.6	3410.5
2/6/2019	12:51:28 PM	55.6	3348.2
2/6/2019	12:51:29 PM	55.6	3249.5
2/6/2019	12:51:30 PM	55.6	3181.6
2/6/2019	12:51:31 PM	55.6	2930.7
2/6/2019	12:51:32 PM	55.6	2835.3
2/6/2019	12:51:33 PM	55.6	2708.2
2/6/2019	12:51:34 PM	55.6	2689.4
2/6/2019	12:51:35 PM	55.6	2614.9
2/6/2019	12:51:36 PM	55.6	2566.6
2/6/2019	12:51:37 PM	55.6	2360.2
2/6/2019	12:51:38 PM	55.6	2284.8
2/6/2019	12:51:39 PM	55.7	2177.0
2/6/2019	12:51:40 PM	55.7	2136.1
2/6/2019	12:51:41 PM	55.7	2096.3
2/6/2019	12:51:42 PM	55.7	2066.9
2/6/2019	12:51:43 PM	55.7	2034.8
2/6/2019	12:51:44 PM	55.7	1880.1
2/6/2019	12:51:45 PM	55.7	1811.9
2/6/2019	12:51:46 PM	55.8	1752.2
2/6/2019	12:51:47 PM	55.8	1726.4
2/6/2019	12:51:48 PM	56.0	1697.4
2/6/2019	12:51:49 PM	56.2	1664.2
2/6/2019	12:51:50 PM	56.5	1524.5
2/6/2019	12:51:51 PM	57.1	1508.1
2/6/2019	12:51:52 PM	57.7	1443.2
2/6/2019	12:51:53 PM	58.9	1411.7
2/6/2019	12:51:54 PM	60.8	1387.6
2/6/2019	12:51:55 PM	64.1	1369.5
2/6/2019	12:51:56 PM	67.2	1355.5
2/6/2019	12:51:57 PM	71.0	1337.9
2/6/2019	12:51:58 PM	74.5	1234.2
2/6/2019	12:51:59 PM	78.3	1184.9
2/6/2019	12:52:00 PM	81.5	1156.6
2/6/2019	12:52:01 PM	84.5	1135.5
2/6/2019	12:52:02 PM	91.0	1115.5
2/6/2019	12:52:03 PM	96.4	1094.6
2/6/2019	12:52:04 PM	153.3	1078.7
2/6/2019	12:52:05 PM	176.5	996.7
2/6/2019	12:52:06 PM	184.7	972.9
2/6/2019	12:52:07 PM	183.3	946.0
2/6/2019	12:52:08 PM	179.2	923.6
2/6/2019	12:52:09 PM	178.3	904.9
2/6/2019	12:52:10 PM	181.5	886.6
2/6/2019	12:52:11 PM	183.8	868.8
2/6/2019	12:52:12 PM	186.2	806.4
2/6/2019	12:52:13 PM	263.4	785.1
2/6/2019	12:52:14 PM	326.4	760.2
2/6/2019	12:52:15 PM	350.7	751.9
2/6/2019	12:52:16 PM	351.1	740.7
2/6/2019	12:52:17 PM	360.8	730.5
2/6/2019	12:52:18 PM	369.8	663.1
2/6/2019	12:52:19 PM	439.0	642.1
2/6/2019	12:52:20 PM	447.9	619.6
2/6/2019	12:52:21 PM	434.8	609.5
2/6/2019	12:52:22 PM	480.4	600.3
2/6/2019	12:52:23 PM	567.6	596.5
2/6/2019	12:52:24 PM	579.8	528.9
2/6/2019	12:52:25 PM	651.5	544.2
2/6/2019	12:52:26 PM	789.9	534.9
2/6/2019	12:52:27 PM	824.4	532.2
2/6/2019	12:52:28 PM	755.0	527.4
2/6/2019	12:52:29 PM	752.7	519.6
2/6/2019	12:52:30 PM	762.9	511.5
2/6/2019	12:52:31 PM	920.7	505.3
2/6/2019	12:52:32 PM	948.8	499.6
2/6/2019	12:52:33 PM	1012.0	493.5
2/6/2019	12:52:34 PM	1052.5	440.3
2/6/2019	12:52:35 PM	1086.9	428.7
2/6/2019	12:52:36 PM	1227.8	421.8
2/6/2019	12:52:37 PM	1351.8	418.7
2/6/2019	12:52:38 PM	1377.3	414.2
2/6/2019	12:52:39 PM	1398.3	411.1
2/6/2019	12:52:40 PM	1406.5	403.7
2/6/2019	12:52:41 PM	1407.4	398.4
2/6/2019	12:52:42 PM	1421.0	392.5
2/6/2019	12:52:43 PM	1426.8	386.9

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:52:44 PM	1431.4	381.5
2/6/2019	12:52:45 PM	1543.6	377.0
2/6/2019	12:52:46 PM	1551.5	371.8
2/6/2019	12:52:47 PM	1550.5	367.9
2/6/2019	12:52:48 PM	1542.2	311.8
2/6/2019	12:52:49 PM	1551.4	311.4
2/6/2019	12:52:50 PM	1556.2	300.2
2/6/2019	12:52:51 PM	1560.2	299.7
2/6/2019	12:52:52 PM	1569.2	294.9
2/6/2019	12:52:53 PM	1658.4	291.1
2/6/2019	12:52:54 PM	1680.1	288.6
2/6/2019	12:52:55 PM	1692.5	285.8
2/6/2019	12:52:56 PM	1686.0	283.2
2/6/2019	12:52:57 PM	1676.3	281.3
2/6/2019	12:52:58 PM	1683.0	278.6
2/6/2019	12:52:59 PM	1812.7	275.5
2/6/2019	12:53:00 PM	1834.6	271.6
2/6/2019	12:53:01 PM	1833.1	268.1
2/6/2019	12:53:02 PM	1831.6	264.4
2/6/2019	12:53:03 PM	1840.1	261.3
2/6/2019	12:53:04 PM	1867.1	255.6
2/6/2019	12:53:05 PM	1891.0	250.0
2/6/2019	12:53:06 PM	1903.2	243.9
2/6/2019	12:53:07 PM	1910.5	238.4
2/6/2019	12:53:08 PM	1918.8	232.4
2/6/2019	12:53:09 PM	1930.0	226.5
2/6/2019	12:53:10 PM	1938.6	221.1
2/6/2019	12:53:11 PM	1946.8	215.1
2/6/2019	12:53:12 PM	1953.4	210.4
2/6/2019	12:53:13 PM	1960.5	205.4
2/6/2019	12:53:14 PM	1965.8	201.0
2/6/2019	12:53:15 PM	1975.5	196.2
2/6/2019	12:53:16 PM	1988.2	192.1
2/6/2019	12:53:17 PM	1998.0	187.7
2/6/2019	12:53:18 PM	2005.1	183.8
2/6/2019	12:53:19 PM	2012.4	179.3
2/6/2019	12:53:20 PM	2019.1	175.7
2/6/2019	12:53:21 PM	2022.8	171.6
2/6/2019	12:53:22 PM	2023.5	168.1
2/6/2019	12:53:23 PM	2023.3	164.4
2/6/2019	12:53:24 PM	2023.5	161.4
2/6/2019	12:53:25 PM	2023.0	158.2
2/6/2019	12:53:26 PM	2020.9	155.6
2/6/2019	12:53:27 PM	2018.9	152.8
2/6/2019	12:53:28 PM	2016.3	150.3
2/6/2019	12:53:29 PM	2014.1	147.6
2/6/2019	12:53:30 PM	2011.2	145.3
2/6/2019	12:53:31 PM	2008.0	142.7
2/6/2019	12:53:32 PM	2003.7	140.4
2/6/2019	12:53:33 PM	1999.5	137.8
2/6/2019	12:53:34 PM	1994.1	135.4
2/6/2019	12:53:35 PM	1988.6	132.5
2/6/2019	12:53:36 PM	1980.1	130.1
2/6/2019	12:53:37 PM	1971.3	127.5
2/6/2019	12:53:38 PM	1863.7	125.2
2/6/2019	12:53:39 PM	1863.6	122.5
2/6/2019	12:53:40 PM	1858.3	120.2
2/6/2019	12:53:41 PM	1852.2	117.8
2/6/2019	12:53:42 PM	1812.2	115.8
2/6/2019	12:53:43 PM	1792.9	113.5
2/6/2019	12:53:44 PM	1785.1	111.5
2/6/2019	12:53:45 PM	1779.0	109.5
2/6/2019	12:53:46 PM	1770.4	108.0
2/6/2019	12:53:47 PM	1764.8	106.4
2/6/2019	12:53:48 PM	1760.3	105.0
2/6/2019	12:53:49 PM	1755.8	103.2
2/6/2019	12:53:50 PM	1749.6	101.7
2/6/2019	12:53:51 PM	1636.6	100.0
2/6/2019	12:53:52 PM	1599.8	98.6
2/6/2019	12:53:53 PM	1587.5	97.1
2/6/2019	12:53:54 PM	1601.0	95.6
2/6/2019	12:53:55 PM	1605.2	94.1
2/6/2019	12:53:56 PM	1606.4	92.8
2/6/2019	12:53:57 PM	1606.2	91.4
2/6/2019	12:53:58 PM	1603.0	90.0
2/6/2019	12:53:59 PM	1592.8	88.1
2/6/2019	12:54:00 PM	1580.3	86.6
2/6/2019	12:54:01 PM	1571.2	85.1
2/6/2019	12:54:02 PM	1564.1	83.8

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:54:03 PM	1560.2	82.5
2/6/2019	12:54:04 PM	1555.2	81.2
2/6/2019	12:54:05 PM	1428.7	80.1
2/6/2019	12:54:06 PM	1425.0	79.0
2/6/2019	12:54:07 PM	1409.4	78.0
2/6/2019	12:54:08 PM	1389.7	76.9
2/6/2019	12:54:09 PM	1375.4	75.8
2/6/2019	12:54:10 PM	1376.8	74.6
2/6/2019	12:54:11 PM	1378.9	73.6
2/6/2019	12:54:12 PM	1377.7	72.6
2/6/2019	12:54:13 PM	1374.0	71.7
2/6/2019	12:54:14 PM	1371.2	70.8
2/6/2019	12:54:15 PM	1367.5	70.0
2/6/2019	12:54:16 PM	1364.1	69.1
2/6/2019	12:54:17 PM	1359.5	68.4
2/6/2019	12:54:18 PM	1355.1	67.6
2/6/2019	12:54:19 PM	1352.2	67.0
2/6/2019	12:54:20 PM	1349.8	66.3
2/6/2019	12:54:21 PM	1344.6	65.7
2/6/2019	12:54:22 PM	1261.0	65.1
2/6/2019	12:54:23 PM	1241.4	64.5
2/6/2019	12:54:24 PM	1220.5	63.8
2/6/2019	12:54:25 PM	1209.8	63.2
2/6/2019	12:54:26 PM	1190.0	62.5
2/6/2019	12:54:27 PM	1176.4	61.9
2/6/2019	12:54:28 PM	1173.1	61.1
2/6/2019	12:54:29 PM	1066.2	60.5
2/6/2019	12:54:30 PM	1060.7	59.7
2/6/2019	12:54:31 PM	1044.0	59.0
2/6/2019	12:54:32 PM	1040.0	58.2
2/6/2019	12:54:33 PM	1017.1	57.5
2/6/2019	12:54:34 PM	1003.4	56.7
2/6/2019	12:54:35 PM	1001.6	56.1
2/6/2019	12:54:36 PM	999.4	55.3
2/6/2019	12:54:37 PM	992.1	54.7
2/6/2019	12:54:38 PM	985.8	54.1
2/6/2019	12:54:39 PM	899.3	53.3
2/6/2019	12:54:40 PM	907.6	52.7
2/6/2019	12:54:41 PM	919.5	51.9
2/6/2019	12:54:42 PM	910.2	51.2
2/6/2019	12:54:43 PM	884.2	50.8
2/6/2019	12:54:44 PM	874.9	49.9
2/6/2019	12:54:45 PM	774.7	49.3
2/6/2019	12:54:46 PM	762.1	48.7
2/6/2019	12:54:47 PM	734.8	48.1
2/6/2019	12:54:48 PM	724.9	47.5
2/6/2019	12:54:49 PM	714.9	47.0
2/6/2019	12:54:50 PM	709.9	46.3
2/6/2019	12:54:51 PM	707.2	45.8
2/6/2019	12:54:52 PM	705.3	45.3
2/6/2019	12:54:53 PM	702.1	44.8
2/6/2019	12:54:54 PM	695.2	44.3
2/6/2019	12:54:55 PM	691.3	43.8
2/6/2019	12:54:56 PM	606.3	43.2
2/6/2019	12:54:57 PM	621.2	42.7
2/6/2019	12:54:58 PM	608.8	42.2
2/6/2019	12:54:59 PM	607.5	41.7
2/6/2019	12:55:00 PM	604.3	41.2
2/6/2019	12:55:01 PM	599.2	40.7
2/6/2019	12:55:02 PM	592.1	40.1
2/6/2019	12:55:03 PM	585.2	39.7
2/6/2019	12:55:04 PM	579.9	39.1
2/6/2019	12:55:05 PM	577.1	38.7
2/6/2019	12:55:06 PM	575.1	38.3
2/6/2019	12:55:07 PM	573.3	37.9
2/6/2019	12:55:08 PM	570.4	37.5
2/6/2019	12:55:09 PM	567.2	37.1
2/6/2019	12:55:10 PM	517.7	36.7
2/6/2019	12:55:11 PM	518.4	36.3
2/6/2019	12:55:12 PM	504.2	36.0
2/6/2019	12:55:13 PM	493.0	35.6
2/6/2019	12:55:14 PM	484.2	35.3
2/6/2019	12:55:15 PM	479.6	35.0
2/6/2019	12:55:16 PM	477.0	34.8
2/6/2019	12:55:17 PM	474.4	34.5
2/6/2019	12:55:18 PM	472.3	34.2
2/6/2019	12:55:19 PM	471.5	33.9
2/6/2019	12:55:20 PM	470.5	33.5
2/6/2019	12:55:21 PM	469.3	33.2

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:55:22 PM	468.2	33.0
2/6/2019	12:55:23 PM	467.9	32.7
2/6/2019	12:55:24 PM	467.4	32.4
2/6/2019	12:55:25 PM	466.8	32.1
2/6/2019	12:55:26 PM	465.8	31.9
2/6/2019	12:55:27 PM	463.2	31.6
2/6/2019	12:55:28 PM	459.7	31.3
2/6/2019	12:55:29 PM	456.2	31.0
2/6/2019	12:55:30 PM	452.0	30.7
2/6/2019	12:55:31 PM	448.3	30.5
2/6/2019	12:55:32 PM	443.6	30.2
2/6/2019	12:55:33 PM	439.1	30.0
2/6/2019	12:55:34 PM	433.9	29.8
2/6/2019	12:55:35 PM	429.7	29.5
2/6/2019	12:55:36 PM	424.3	29.2
2/6/2019	12:55:37 PM	419.4	28.9
2/6/2019	12:55:38 PM	414.2	28.7
2/6/2019	12:55:39 PM	409.3	28.4
2/6/2019	12:55:40 PM	405.1	28.2
2/6/2019	12:55:41 PM	400.0	27.9
2/6/2019	12:55:42 PM	395.8	27.7
2/6/2019	12:55:43 PM	391.2	27.5
2/6/2019	12:55:44 PM	387.1	27.3
2/6/2019	12:55:45 PM	382.1	27.0
2/6/2019	12:55:46 PM	377.7	26.8
2/6/2019	12:55:47 PM	372.5	26.6
2/6/2019	12:55:48 PM	367.5	26.4
2/6/2019	12:55:49 PM	361.6	26.1
2/6/2019	12:55:50 PM	356.5	25.9
2/6/2019	12:55:51 PM	350.2	25.7
2/6/2019	12:55:52 PM	344.6	25.5
2/6/2019	12:55:53 PM	338.9	25.3
2/6/2019	12:55:54 PM	334.6	25.1
2/6/2019	12:55:55 PM	329.6	24.8
2/6/2019	12:55:56 PM	325.2	24.6
2/6/2019	12:55:57 PM	320.2	24.4
2/6/2019	12:55:58 PM	316.1	24.2
2/6/2019	12:55:59 PM	311.7	24.0
2/6/2019	12:56:00 PM	308.3	23.8
2/6/2019	12:56:01 PM	304.6	23.6
2/6/2019	12:56:02 PM	301.6	23.4
2/6/2019	12:56:03 PM	298.4	23.3
2/6/2019	12:56:04 PM	295.8	23.1
2/6/2019	12:56:05 PM	292.9	22.9
2/6/2019	12:56:06 PM	290.1	22.7
2/6/2019	12:56:07 PM	287.2	22.5
2/6/2019	12:56:08 PM	284.8	22.3
2/6/2019	12:56:09 PM	282.1	22.1
2/6/2019	12:56:10 PM	279.7	21.9
2/6/2019	12:56:11 PM	276.9	21.7
2/6/2019	12:56:12 PM	274.1	21.5
2/6/2019	12:56:13 PM	270.8	21.3
2/6/2019	12:56:14 PM	268.0	21.1
2/6/2019	12:56:15 PM	264.8	21.0
2/6/2019	12:56:16 PM	261.9	20.8
2/6/2019	12:56:17 PM	258.7	20.6
2/6/2019	12:56:18 PM	256.0	20.5
2/6/2019	12:56:19 PM	253.8	20.3
2/6/2019	12:56:20 PM	251.6	20.2
2/6/2019	12:56:21 PM	249.7	20.1
2/6/2019	12:56:22 PM	247.6	20.0
2/6/2019	12:56:23 PM	245.8	19.8
2/6/2019	12:56:24 PM	244.1	19.7
2/6/2019	12:56:25 PM	242.7	19.6
2/6/2019	12:56:26 PM	240.8	19.5
2/6/2019	12:56:27 PM	238.7	19.4
2/6/2019	12:56:28 PM	236.1	19.3
2/6/2019	12:56:29 PM	233.8	19.2
2/6/2019	12:56:30 PM	231.1	19.1
2/6/2019	12:56:31 PM	228.5	19.0
2/6/2019	12:56:32 PM	225.4	18.8
2/6/2019	12:56:33 PM	222.7	18.7
2/6/2019	12:56:34 PM	220.0	18.6
2/6/2019	12:56:35 PM	217.9	18.5
2/6/2019	12:56:36 PM	215.7	18.4
2/6/2019	12:56:37 PM	213.8	18.3
2/6/2019	12:56:38 PM	211.9	18.2
2/6/2019	12:56:39 PM	210.5	18.1
2/6/2019	12:56:40 PM	209.1	18.0

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:56:41 PM	208.0	17.9
2/6/2019	12:56:42 PM	206.5	17.8
2/6/2019	12:56:43 PM	205.2	17.7
2/6/2019	12:56:44 PM	203.8	17.6
2/6/2019	12:56:45 PM	202.7	17.5
2/6/2019	12:56:46 PM	201.5	17.4
2/6/2019	12:56:47 PM	200.1	17.3
2/6/2019	12:56:48 PM	198.0	17.2
2/6/2019	12:56:49 PM	196.2	17.1
2/6/2019	12:56:50 PM	194.1	17.0
2/6/2019	12:56:51 PM	192.3	16.8
2/6/2019	12:56:52 PM	190.1	16.7
2/6/2019	12:56:53 PM	188.4	16.6
2/6/2019	12:56:54 PM	186.8	16.5
2/6/2019	12:56:55 PM	185.5	16.3
2/6/2019	12:56:56 PM	184.0	16.2
2/6/2019	12:56:57 PM	182.5	16.1
2/6/2019	12:56:58 PM	181.0	16.0
2/6/2019	12:56:59 PM	179.4	15.9
2/6/2019	12:57:00 PM	178.0	15.8
2/6/2019	12:57:01 PM	176.7	15.6
2/6/2019	12:57:02 PM	175.6	15.5
2/6/2019	12:57:03 PM	174.5	15.4
2/6/2019	12:57:04 PM	173.6	56.5
2/6/2019	12:57:05 PM	172.6	56.5
2/6/2019	12:57:06 PM	171.6	56.5
2/6/2019	12:57:07 PM	170.5	56.5
2/6/2019	12:57:08 PM	169.5	56.5
2/6/2019	12:57:09 PM	168.5	56.5
2/6/2019	12:57:10 PM	167.8	56.5
2/6/2019	12:57:11 PM	166.9	56.5
2/6/2019	12:57:12 PM	166.1	56.5
2/6/2019	12:57:13 PM	165.4	56.5
2/6/2019	12:57:14 PM	164.7	56.5
2/6/2019	12:57:15 PM	163.8	56.5
2/6/2019	12:57:16 PM	162.9	56.5
2/6/2019	12:57:17 PM	161.9	56.5
2/6/2019	12:57:18 PM	161.1	56.5
2/6/2019	12:57:19 PM	160.1	56.5
2/6/2019	12:57:20 PM	159.2	56.5
2/6/2019	12:57:21 PM	158.2	56.5
2/6/2019	12:57:22 PM	157.3	56.5
2/6/2019	12:57:23 PM	156.4	56.5
2/6/2019	12:57:24 PM	155.7	56.5
2/6/2019	12:57:25 PM	155.0	56.5
2/6/2019	12:57:26 PM	154.4	56.5
2/6/2019	12:57:27 PM	153.7	56.5
2/6/2019	12:57:28 PM	153.0	56.5
2/6/2019	12:57:29 PM	152.2	56.5
2/6/2019	12:57:30 PM	151.6	56.5
2/6/2019	12:57:31 PM	150.9	56.5
2/6/2019	12:57:32 PM	150.4	56.5
2/6/2019	12:57:33 PM	149.8	56.5
2/6/2019	12:57:34 PM	149.2	56.5
2/6/2019	12:57:35 PM	148.3	56.5
2/6/2019	12:57:36 PM	147.6	56.5
2/6/2019	12:57:37 PM	146.7	56.5
2/6/2019	12:57:38 PM	145.8	56.5
2/6/2019	12:57:39 PM	145.0	56.5
2/6/2019	12:57:40 PM	144.1	56.5
2/6/2019	12:57:41 PM	143.4	56.5
2/6/2019	12:57:42 PM	142.5	56.5
2/6/2019	12:57:43 PM	141.8	56.5
2/6/2019	12:57:44 PM	141.0	56.5
2/6/2019	12:57:45 PM	140.3	56.5
2/6/2019	12:57:46 PM	139.5	56.5
2/6/2019	12:57:47 PM	138.8	56.5
2/6/2019	12:57:48 PM	138.1	56.5
2/6/2019	12:57:49 PM	137.5	56.5
2/6/2019	12:57:50 PM	136.9	56.5
2/6/2019	12:57:51 PM	136.4	56.5
2/6/2019	12:57:52 PM	136.0	56.5
2/6/2019	12:57:53 PM	135.6	56.5
2/6/2019	12:57:54 PM	135.1	56.5
2/6/2019	12:57:55 PM	134.5	56.5
2/6/2019	12:57:56 PM	133.8	56.5
2/6/2019	12:57:57 PM	133.3	56.5
2/6/2019	12:57:58 PM	132.7	56.5
2/6/2019	12:57:59 PM	132.3	56.5

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:58:00 PM	131.7	56.5
2/6/2019	12:58:01 PM	130.9	56.5
2/6/2019	12:58:02 PM	130.4	56.5
2/6/2019	12:58:03 PM	129.9	56.5
2/6/2019	12:58:04 PM	129.1	56.5
2/6/2019	12:58:05 PM	128.6	56.5
2/6/2019	12:58:06 PM	128.2	56.5
2/6/2019	12:58:07 PM	127.7	56.5
2/6/2019	12:58:08 PM	127.4	56.5
2/6/2019	12:58:09 PM	127.2	56.5
2/6/2019	12:58:10 PM	126.9	56.5
2/6/2019	12:58:11 PM	126.5	56.5
2/6/2019	12:58:12 PM	126.0	56.5
2/6/2019	12:58:13 PM	125.6	56.5
2/6/2019	12:58:14 PM	125.0	56.5
2/6/2019	12:58:15 PM	124.6	56.5
2/6/2019	12:58:16 PM	124.0	56.5
2/6/2019	12:58:17 PM	123.5	56.5
2/6/2019	12:58:18 PM	123.0	56.5
2/6/2019	12:58:19 PM	122.4	56.5
2/6/2019	12:58:20 PM	121.8	56.5
2/6/2019	12:58:21 PM	121.1	56.5
2/6/2019	12:58:22 PM	120.4	56.5
2/6/2019	12:58:23 PM	119.7	56.5
2/6/2019	12:58:24 PM	119.1	56.5
2/6/2019	12:58:25 PM	118.6	56.5
2/6/2019	12:58:26 PM	118.1	56.5
2/6/2019	12:58:27 PM	117.6	56.5
2/6/2019	12:58:28 PM	117.2	56.5
2/6/2019	12:58:29 PM	116.7	56.5
2/6/2019	12:58:30 PM	116.3	56.5
2/6/2019	12:58:31 PM	115.8	56.5
2/6/2019	12:58:32 PM	115.4	56.5
2/6/2019	12:58:33 PM	115.0	56.5
2/6/2019	12:58:34 PM	114.7	56.5
2/6/2019	12:58:35 PM	114.4	56.5
2/6/2019	12:58:36 PM	114.1	56.5
2/6/2019	12:58:37 PM	113.8	56.5
2/6/2019	12:58:38 PM	113.5	56.5
2/6/2019	12:58:39 PM	113.2	56.5
2/6/2019	12:58:40 PM	113.0	56.5
2/6/2019	12:58:41 PM	112.7	56.5
2/6/2019	12:58:42 PM	112.5	56.5
2/6/2019	12:58:43 PM	112.2	56.5
2/6/2019	12:58:44 PM	112.0	56.5
2/6/2019	12:58:45 PM	111.8	56.5
2/6/2019	12:58:46 PM	111.7	56.5
2/6/2019	12:58:47 PM	111.5	56.5
2/6/2019	12:58:48 PM	111.4	56.5
2/6/2019	12:58:49 PM	111.2	56.5
2/6/2019	12:58:50 PM	111.0	56.5
2/6/2019	12:58:51 PM	110.7	56.5
2/6/2019	12:58:52 PM	110.4	56.5
2/6/2019	12:58:53 PM	110.0	56.5
2/6/2019	12:58:54 PM	109.6	56.5
2/6/2019	12:58:55 PM	109.2	56.5
2/6/2019	12:58:56 PM	108.8	56.5
2/6/2019	12:58:57 PM	108.3	56.5
2/6/2019	12:58:58 PM	107.9	56.5
2/6/2019	12:58:59 PM	107.4	56.5
2/6/2019	12:59:00 PM	107.0	56.5
2/6/2019	12:59:01 PM	106.5	56.5
2/6/2019	12:59:02 PM	106.0	56.5
2/6/2019	12:59:03 PM	105.5	56.5
2/6/2019	12:59:04 PM	105.2	56.5
2/6/2019	12:59:05 PM	104.8	56.5
2/6/2019	12:59:06 PM	104.4	56.5
2/6/2019	12:59:07 PM	104.1	56.5
2/6/2019	12:59:08 PM	103.8	56.5
2/6/2019	12:59:09 PM	103.5	56.5
2/6/2019	12:59:10 PM	103.2	56.5
2/6/2019	12:59:11 PM	103.0	56.5
2/6/2019	12:59:12 PM	102.6	56.5
2/6/2019	12:59:13 PM	102.3	56.5
2/6/2019	12:59:14 PM	102.0	56.5
2/6/2019	12:59:15 PM	101.7	56.5
2/6/2019	12:59:16 PM	101.4	56.5
2/6/2019	12:59:17 PM	101.1	56.5
2/6/2019	12:59:18 PM	100.8	56.5

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:59:19 PM	100.5	56.5
2/6/2019	12:59:20 PM	100.3	56.5
2/6/2019	12:59:21 PM	100.0	56.5
2/6/2019	12:59:22 PM	99.7	56.5
2/6/2019	12:59:23 PM	99.4	56.5
2/6/2019	12:59:24 PM	99.1	56.5
2/6/2019	12:59:25 PM	98.9	56.5
2/6/2019	12:59:26 PM	98.7	56.5
2/6/2019	12:59:27 PM	98.5	56.5
2/6/2019	12:59:28 PM	98.4	56.5
2/6/2019	12:59:29 PM	98.2	56.5
2/6/2019	12:59:30 PM	98.1	56.5
2/6/2019	12:59:31 PM	98.0	56.5
2/6/2019	12:59:32 PM	97.8	56.5
2/6/2019	12:59:33 PM	97.7	56.5
2/6/2019	12:59:34 PM	97.6	56.5
2/6/2019	12:59:35 PM	97.4	56.5
2/6/2019	12:59:36 PM	97.3	56.5
2/6/2019	12:59:37 PM	97.1	56.5
2/6/2019	12:59:38 PM	97.0	56.5
2/6/2019	12:59:39 PM	96.8	56.5
2/6/2019	12:59:40 PM	96.7	56.5
2/6/2019	12:59:41 PM	96.5	56.5
2/6/2019	12:59:42 PM	96.3	56.5
2/6/2019	12:59:43 PM	96.1	56.5
2/6/2019	12:59:44 PM	95.8	56.5
2/6/2019	12:59:45 PM	95.6	56.5
2/6/2019	12:59:46 PM	95.3	56.5
2/6/2019	12:59:47 PM	95.0	56.5
2/6/2019	12:59:48 PM	94.8	56.5
2/6/2019	12:59:49 PM	94.5	56.5
2/6/2019	12:59:50 PM	94.2	56.5
2/6/2019	12:59:51 PM	94.0	56.5
2/6/2019	12:59:52 PM	93.7	56.5
2/6/2019	12:59:53 PM	93.5	56.5
2/6/2019	12:59:54 PM	93.2	56.5
2/6/2019	12:59:55 PM	93.0	56.5
2/6/2019	12:59:56 PM	92.8	56.5
2/6/2019	12:59:57 PM	92.6	56.5
2/6/2019	12:59:58 PM	92.4	56.5
2/6/2019	12:59:59 PM	92.2	56.5
2/6/2019	1:00:00 PM	92.1	56.5
2/6/2019	1:00:01 PM	91.9	56.5
2/6/2019	1:00:02 PM	91.8	56.5
2/6/2019	1:00:03 PM	91.6	56.5
2/6/2019	1:00:04 PM	91.5	56.5
2/6/2019	1:00:05 PM	91.4	56.5
2/6/2019	1:00:06 PM	91.3	56.5
2/6/2019	1:00:07 PM	91.2	56.5
2/6/2019	1:00:08 PM	91.1	56.5
2/6/2019	1:00:09 PM	91.0	56.5
2/6/2019	1:00:10 PM	90.9	56.5
2/6/2019	1:00:11 PM	90.8	56.5
2/6/2019	1:00:12 PM	90.6	56.5
2/6/2019	1:00:13 PM	90.5	56.5
2/6/2019	1:00:14 PM	90.3	56.5
2/6/2019	1:00:15 PM	90.2	56.5
2/6/2019	1:00:16 PM	90.0	56.5
2/6/2019	1:00:17 PM	89.8	56.5
2/6/2019	1:00:18 PM	89.6	56.5
2/6/2019	1:00:19 PM	89.4	56.5
2/6/2019	1:00:20 PM	89.2	56.5
2/6/2019	1:00:21 PM	89.0	56.5
2/6/2019	1:00:22 PM	88.8	56.5
2/6/2019	1:00:23 PM	88.6	56.5
2/6/2019	1:00:24 PM	88.5	56.5
2/6/2019	1:00:25 PM	88.4	56.5
2/6/2019	1:00:26 PM	88.3	56.5
2/6/2019	1:00:27 PM	88.2	56.5
2/6/2019	1:00:28 PM	88.0	56.5
2/6/2019	1:00:29 PM	87.9	56.5
2/6/2019	1:00:30 PM	87.9	56.5
2/6/2019	1:00:31 PM	87.8	56.5
2/6/2019	1:00:32 PM	87.8	56.5
2/6/2019	1:00:33 PM	87.7	56.5
2/6/2019	1:00:34 PM	87.7	56.5
2/6/2019	1:00:35 PM	87.6	56.5
2/6/2019	1:00:36 PM	87.6	56.5
2/6/2019	1:00:37 PM	87.5	56.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:00:38 PM	87.5	56.5
2/6/2019	1:00:39 PM	87.4	56.5
2/6/2019	1:00:40 PM	87.4	56.5
2/6/2019	1:00:41 PM	87.3	56.5
2/6/2019	1:00:42 PM	87.2	56.5
2/6/2019	1:00:43 PM	87.1	56.5
2/6/2019	1:00:44 PM	87.0	56.5
2/6/2019	1:00:45 PM	86.9	56.5
2/6/2019	1:00:46 PM	86.8	56.5
2/6/2019	1:00:47 PM	86.7	56.5
2/6/2019	1:00:48 PM	86.5	56.5
2/6/2019	1:00:49 PM	86.4	56.5
2/6/2019	1:00:50 PM	86.2	56.5
2/6/2019	1:00:51 PM	86.1	56.5
2/6/2019	1:00:52 PM	85.9	56.5
2/6/2019	1:00:53 PM	85.8	56.5
2/6/2019	1:00:54 PM	85.6	56.5
2/6/2019	1:00:55 PM	85.5	56.5
2/6/2019	1:00:56 PM	85.4	56.5
2/6/2019	1:00:57 PM	85.2	56.5
2/6/2019	1:00:58 PM	85.1	56.5
2/6/2019	1:00:59 PM	84.9	56.5
2/6/2019	1:01:00 PM	84.8	56.5
2/6/2019	1:01:01 PM	84.6	56.5
2/6/2019	1:01:02 PM	84.5	56.5
2/6/2019	1:01:03 PM	84.4	56.5
2/6/2019	1:01:04 PM	84.3	56.5
2/6/2019	1:01:05 PM	84.2	56.5
2/6/2019	1:01:06 PM	84.1	56.5
2/6/2019	1:01:07 PM	84.0	56.5
2/6/2019	1:01:08 PM	83.9	56.5
2/6/2019	1:01:09 PM	83.8	56.5
2/6/2019	1:01:10 PM	83.7	56.5
2/6/2019	1:01:11 PM	83.6	56.5
2/6/2019	1:01:12 PM	83.5	56.5
2/6/2019	1:01:13 PM	83.4	56.5
2/6/2019	1:01:14 PM	83.3	56.5
2/6/2019	1:01:14 PM	83.2	56.5
2/6/2019	1:01:15 PM	83.1	56.5
2/6/2019	1:01:16 PM	83.0	56.5
2/6/2019	1:01:17 PM	82.9	56.5
2/6/2019	1:01:18 PM	82.7	56.5
2/6/2019	1:01:19 PM	82.6	56.5
2/6/2019	1:01:20 PM	82.5	56.5
2/6/2019	1:01:21 PM	82.4	56.5
2/6/2019	1:01:22 PM	82.3	56.5
2/6/2019	1:01:23 PM	82.2	56.5
2/6/2019	1:01:24 PM	82.1	56.5
2/6/2019	1:01:25 PM	82.0	56.5
2/6/2019	1:01:26 PM	81.9	56.5
2/6/2019	1:01:27 PM	81.8	56.5
2/6/2019	1:01:28 PM	81.7	56.5
2/6/2019	1:01:29 PM	81.6	56.5
2/6/2019	1:01:30 PM	81.5	56.5
2/6/2019	1:01:31 PM	81.4	56.5
2/6/2019	1:01:32 PM	81.4	56.5
2/6/2019	1:01:33 PM	81.3	56.5
2/6/2019	1:01:34 PM	81.2	56.5
2/6/2019	1:01:35 PM	81.1	56.5
2/6/2019	1:01:36 PM	81.0	56.5
2/6/2019	1:01:37 PM	81.0	56.5
2/6/2019	1:01:38 PM	80.9	56.5
2/6/2019	1:01:39 PM	80.8	56.5
2/6/2019	1:01:40 PM	80.7	56.5
2/6/2019	1:01:41 PM	80.6	56.5
2/6/2019	1:01:42 PM	80.5	56.5
2/6/2019	1:01:43 PM	80.4	56.5
2/6/2019	1:01:44 PM	80.3	56.5
2/6/2019	1:01:45 PM	80.2	56.5
2/6/2019	1:01:46 PM	80.1	56.5
2/6/2019	1:01:47 PM	80.0	56.5
2/6/2019	1:01:48 PM	79.9	56.5
2/6/2019	1:01:49 PM	79.8	56.5
2/6/2019	1:01:50 PM	79.8	56.5
2/6/2019	1:01:51 PM	79.7	56.5
2/6/2019	1:01:52 PM	79.6	56.5
2/6/2019	1:01:53 PM	79.6	56.5
2/6/2019	1:01:54 PM	79.5	56.5
2/6/2019	1:01:55 PM	79.4	56.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:01:56 PM	79.4	56.5
2/6/2019	1:01:57 PM	79.4	56.5
2/6/2019	1:01:58 PM	79.3	56.5
2/6/2019	1:01:59 PM	79.3	56.5
2/6/2019	1:02:00 PM	79.3	56.5
2/6/2019	1:02:01 PM	79.2	56.5
2/6/2019	1:02:02 PM	79.2	56.5
2/6/2019	1:02:03 PM	79.2	56.5
2/6/2019	1:02:04 PM	79.1	56.5
2/6/2019	1:02:05 PM	79.1	56.5
2/6/2019	1:02:06 PM	79.1	56.5
2/6/2019	1:02:07 PM	79.0	56.5
2/6/2019	1:02:08 PM	78.9	56.5
2/6/2019	1:02:09 PM	78.9	56.5
2/6/2019	1:02:10 PM	78.8	56.5
2/6/2019	1:02:11 PM	78.7	56.5
2/6/2019	1:02:12 PM	78.6	56.5
2/6/2019	1:02:13 PM	78.5	56.5
2/6/2019	1:02:14 PM	78.5	56.5
2/6/2019	1:02:15 PM	78.4	56.5
2/6/2019	1:02:16 PM	78.3	56.5
2/6/2019	1:02:17 PM	78.2	56.5
2/6/2019	1:02:18 PM	78.1	56.5
2/6/2019	1:02:19 PM	78.0	56.5
2/6/2019	1:02:20 PM	78.0	56.5
2/6/2019	1:02:21 PM	77.9	56.5
2/6/2019	1:02:22 PM	77.8	56.5
2/6/2019	1:02:23 PM	77.7	56.5
2/6/2019	1:02:24 PM	77.6	56.5
2/6/2019	1:02:25 PM	77.5	56.5
2/6/2019	1:02:26 PM	77.4	56.5
2/6/2019	1:02:27 PM	77.3	56.5
2/6/2019	1:02:28 PM	77.2	56.5
2/6/2019	1:02:29 PM	77.1	56.5
2/6/2019	1:02:30 PM	77.1	56.5
2/6/2019	1:02:31 PM	77.0	56.5
2/6/2019	1:02:32 PM	76.9	56.5
2/6/2019	1:02:33 PM	76.9	56.5
2/6/2019	1:02:34 PM	76.8	56.5
2/6/2019	1:02:35 PM	76.8	56.5
2/6/2019	1:02:36 PM	76.7	56.5
2/6/2019	1:02:37 PM	76.7	56.5
2/6/2019	1:02:38 PM	76.7	56.5
2/6/2019	1:02:39 PM	76.6	56.5
2/6/2019	1:02:40 PM	76.6	56.5
2/6/2019	1:02:41 PM	76.5	56.5
2/6/2019	1:02:42 PM	76.5	56.5
2/6/2019	1:02:43 PM	76.4	56.5
2/6/2019	1:02:44 PM	76.4	56.5
2/6/2019	1:02:45 PM	76.3	56.5
2/6/2019	1:02:46 PM	76.3	56.5
2/6/2019	1:02:47 PM	76.2	56.5
2/6/2019	1:02:48 PM	76.1	56.5
2/6/2019	1:02:49 PM	76.1	56.5
2/6/2019	1:02:50 PM	76.0	56.5
2/6/2019	1:02:51 PM	75.9	56.5
2/6/2019	1:02:52 PM	75.9	56.5
2/6/2019	1:02:53 PM	75.8	56.5
2/6/2019	1:02:54 PM	75.7	56.5
2/6/2019	1:02:55 PM	75.7	56.5
2/6/2019	1:02:56 PM	75.6	56.5
2/6/2019	1:02:57 PM	75.6	56.5
2/6/2019	1:02:58 PM	75.5	56.5
2/6/2019	1:02:59 PM	75.5	56.5
2/6/2019	1:03:00 PM	75.5	56.5
2/6/2019	1:03:01 PM	75.4	56.5
2/6/2019	1:03:02 PM	75.4	56.5
2/6/2019	1:03:03 PM	75.4	56.5
2/6/2019	1:03:04 PM	75.3	56.5
2/6/2019	1:03:05 PM	75.3	56.5
2/6/2019	1:03:06 PM	75.2	56.5
2/6/2019	1:03:07 PM	75.1	56.5
2/6/2019	1:03:08 PM	75.1	56.5
2/6/2019	1:03:09 PM	75.0	56.5
2/6/2019	1:03:10 PM	75.0	56.5
2/6/2019	1:03:11 PM	74.9	56.5
2/6/2019	1:03:12 PM	74.8	56.5
2/6/2019	1:03:13 PM	74.8	56.5
2/6/2019	1:03:14 PM	74.7	56.5

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:03:15 PM	74.6	56.5
2/6/2019	1:03:16 PM	74.5	56.5
2/6/2019	1:03:17 PM	74.5	56.5
2/6/2019	1:03:18 PM	74.4	56.5
2/6/2019	1:03:19 PM	74.4	56.5
2/6/2019	1:03:20 PM	74.3	56.5
2/6/2019	1:03:21 PM	74.3	56.5
2/6/2019	1:03:22 PM	74.2	56.5
2/6/2019	1:03:23 PM	74.2	56.5
2/6/2019	1:03:24 PM	74.1	56.5
2/6/2019	1:03:25 PM	74.1	56.5
2/6/2019	1:03:26 PM	74.0	56.5
2/6/2019	1:03:27 PM	74.0	56.5
2/6/2019	1:03:28 PM	74.0	56.5
2/6/2019	1:03:29 PM	73.9	56.5
2/6/2019	1:03:30 PM	73.9	56.5
2/6/2019	1:03:31 PM	73.9	56.5
2/6/2019	1:03:32 PM	73.8	56.5
2/6/2019	1:03:33 PM	73.8	56.5
2/6/2019	1:03:34 PM	73.7	56.5
2/6/2019	1:03:35 PM	73.7	56.5
2/6/2019	1:03:36 PM	73.7	56.5
2/6/2019	1:03:37 PM	73.6	56.5
2/6/2019	1:03:38 PM	73.6	56.5
2/6/2019	1:03:39 PM	73.5	56.5
2/6/2019	1:03:40 PM	73.5	56.5
2/6/2019	1:03:41 PM	73.4	56.5
2/6/2019	1:03:42 PM	73.4	56.5
2/6/2019	1:03:43 PM	73.4	56.5
2/6/2019	1:03:44 PM	73.3	56.5
2/6/2019	1:03:45 PM	73.3	56.5
2/6/2019	1:03:46 PM	73.2	56.5
2/6/2019	1:03:47 PM	73.2	56.5
2/6/2019	1:03:48 PM	73.2	56.5
2/6/2019	1:03:49 PM	73.1	56.5
2/6/2019	1:03:50 PM	73.1	56.5
2/6/2019	1:03:51 PM	73.0	56.5
2/6/2019	1:03:52 PM	73.0	56.5
2/6/2019	1:03:53 PM	72.9	56.5
2/6/2019	1:03:54 PM	72.8	56.5
2/6/2019	1:03:55 PM	72.7	56.5
2/6/2019	1:03:56 PM	72.7	56.5
2/6/2019	1:03:57 PM	72.6	56.5
2/6/2019	1:03:58 PM	72.5	56.5
2/6/2019	1:03:59 PM	72.5	56.5
2/6/2019	1:04:00 PM	72.4	56.5
2/6/2019	1:04:01 PM	72.3	56.5
2/6/2019	1:04:02 PM	72.3	56.5
2/6/2019	1:04:03 PM	72.2	56.5
2/6/2019	1:04:04 PM	72.2	56.5
2/6/2019	1:04:05 PM	72.1	56.5
2/6/2019	1:04:06 PM	72.1	56.5
2/6/2019	1:04:07 PM	72.1	56.5
2/6/2019	1:04:08 PM	72.1	56.5
2/6/2019	1:04:09 PM	72.0	56.5
2/6/2019	1:04:10 PM	72.0	56.5
2/6/2019	1:04:11 PM	72.0	56.5
2/6/2019	1:04:12 PM	72.0	56.5
2/6/2019	1:04:13 PM	71.9	56.5
2/6/2019	1:04:14 PM	71.9	56.5
2/6/2019	1:04:15 PM	71.8	56.5
2/6/2019	1:04:16 PM	71.8	56.5
2/6/2019	1:04:17 PM	71.8	56.5
2/6/2019	1:04:18 PM	71.7	56.5
2/6/2019	1:04:19 PM	71.7	56.5
2/6/2019	1:04:20 PM	71.6	56.5
2/6/2019	1:04:21 PM	71.5	56.5
2/6/2019	1:04:22 PM	71.5	56.5
2/6/2019	1:04:23 PM	71.5	56.5
2/6/2019	1:04:24 PM	71.4	56.5
2/6/2019	1:04:25 PM	71.4	56.5
2/6/2019	1:04:26 PM	71.4	56.5
2/6/2019	1:04:27 PM	71.4	56.5
2/6/2019	1:04:28 PM	71.3	56.5
2/6/2019	1:04:29 PM	71.3	56.5
2/6/2019	1:04:30 PM	71.3	56.5
2/6/2019	1:04:31 PM	71.2	56.5
2/6/2019	1:04:32 PM	71.2	56.5
2/6/2019	1:04:33 PM	71.2	56.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:04:34 PM	71.1	56.5
2/6/2019	1:04:35 PM	71.1	56.5
2/6/2019	1:04:36 PM	71.0	56.5
2/6/2019	1:04:37 PM	71.0	56.5
2/6/2019	1:04:38 PM	70.9	56.5
2/6/2019	1:04:39 PM	70.9	56.5
2/6/2019	1:04:40 PM	70.8	56.5
2/6/2019	1:04:41 PM	70.8	56.5
2/6/2019	1:04:42 PM	70.7	56.5
2/6/2019	1:04:43 PM	70.7	56.5
2/6/2019	1:04:44 PM	70.6	56.5
2/6/2019	1:04:45 PM	70.6	56.5
2/6/2019	1:04:46 PM	70.5	56.5
2/6/2019	1:04:47 PM	70.5	56.5
2/6/2019	1:04:48 PM	70.4	56.5
2/6/2019	1:04:49 PM	70.4	56.5
2/6/2019	1:04:50 PM	70.3	56.5
2/6/2019	1:04:51 PM	70.3	56.5
2/6/2019	1:04:52 PM	70.2	56.5
2/6/2019	1:04:53 PM	70.2	56.5
2/6/2019	1:04:54 PM	70.2	56.5
2/6/2019	1:04:55 PM	70.2	56.5
2/6/2019	1:04:56 PM	70.2	56.5
2/6/2019	1:04:57 PM	70.1	56.5
2/6/2019	1:04:58 PM	70.1	56.5
2/6/2019	1:04:59 PM	70.1	56.5
2/6/2019	1:05:00 PM	70.1	56.5
2/6/2019	1:05:01 PM	70.1	56.5
2/6/2019	1:05:02 PM	70.1	56.5
2/6/2019	1:05:03 PM	70.1	56.5
2/6/2019	1:05:04 PM	70.1	56.5
2/6/2019	1:05:05 PM	70.0	56.5
2/6/2019	1:05:06 PM	70.0	56.5
2/6/2019	1:05:07 PM	70.0	56.5
2/6/2019	1:05:08 PM	70.0	56.5
2/6/2019	1:05:09 PM	69.9	56.5
2/6/2019	1:05:10 PM	69.9	56.5
2/6/2019	1:05:11 PM	69.9	56.5
2/6/2019	1:05:12 PM	69.9	56.5
2/6/2019	1:05:13 PM	69.9	56.5
2/6/2019	1:05:14 PM	69.8	56.5
2/6/2019	1:05:15 PM	69.8	56.5
2/6/2019	1:05:16 PM	69.7	56.5
2/6/2019	1:05:17 PM	69.7	56.5
2/6/2019	1:05:18 PM	69.6	56.5
2/6/2019	1:05:19 PM	69.6	56.5
2/6/2019	1:05:20 PM	69.6	56.5
2/6/2019	1:05:21 PM	69.5	56.5
2/6/2019	1:05:22 PM	69.5	56.5
2/6/2019	1:05:23 PM	69.4	56.5
2/6/2019	1:05:24 PM	69.4	56.5
2/6/2019	1:05:25 PM	69.3	56.5
2/6/2019	1:05:26 PM	69.3	56.5
2/6/2019	1:05:27 PM	69.3	56.5
2/6/2019	1:05:28 PM	69.2	56.5
2/6/2019	1:05:29 PM	69.2	56.5
2/6/2019	1:05:30 PM	69.2	56.5
2/6/2019	1:05:31 PM	69.1	56.5
2/6/2019	1:05:32 PM	69.1	56.5
2/6/2019	1:05:33 PM	69.1	56.5
2/6/2019	1:05:34 PM	69.0	56.5
2/6/2019	1:05:35 PM	69.0	56.5
2/6/2019	1:05:36 PM	69.0	56.5
2/6/2019	1:05:37 PM	68.9	56.5
2/6/2019	1:05:38 PM	68.9	56.5
2/6/2019	1:05:39 PM	68.9	56.5
2/6/2019	1:05:40 PM	68.9	56.5
2/6/2019	1:05:41 PM	68.8	56.5
2/6/2019	1:05:42 PM	68.8	56.5
2/6/2019	1:05:43 PM	68.8	56.5
2/6/2019	1:05:44 PM	68.7	56.5
2/6/2019	1:05:45 PM	68.7	56.5
2/6/2019	1:05:46 PM	68.7	56.5
2/6/2019	1:05:47 PM	68.6	56.5
2/6/2019	1:05:48 PM	68.6	56.5
2/6/2019	1:05:49 PM	68.6	56.5
2/6/2019	1:05:50 PM	68.6	56.5
2/6/2019	1:05:51 PM	68.5	56.5
2/6/2019	1:05:52 PM	68.5	56.5

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:05:53 PM	68.5	56.5
2/6/2019	1:05:54 PM	68.5	56.5
2/6/2019	1:05:55 PM	68.5	56.5
2/6/2019	1:05:56 PM	68.4	56.5
2/6/2019	1:05:57 PM	68.4	56.5
2/6/2019	1:05:58 PM	68.4	56.5
2/6/2019	1:05:59 PM	68.4	56.5
2/6/2019	1:06:00 PM	68.3	56.5
2/6/2019	1:06:01 PM	68.3	56.5
2/6/2019	1:06:02 PM	68.3	56.5
2/6/2019	1:06:03 PM	68.3	56.5
2/6/2019	1:06:04 PM	68.2	56.5
2/6/2019	1:06:05 PM	68.2	56.5
2/6/2019	1:06:06 PM	68.2	56.5
2/6/2019	1:06:07 PM	68.1	56.5
2/6/2019	1:06:08 PM	68.1	56.5
2/6/2019	1:06:09 PM	68.1	56.5
2/6/2019	1:06:10 PM	68.1	56.5
2/6/2019	1:06:11 PM	68.1	56.5
2/6/2019	1:06:12 PM	68.0	56.5
2/6/2019	1:06:13 PM	68.0	56.5
2/6/2019	1:06:14 PM	68.0	56.5
2/6/2019	1:06:15 PM	68.0	56.5
2/6/2019	1:06:16 PM	68.0	56.5
2/6/2019	1:06:17 PM	68.0	56.5
2/6/2019	1:06:18 PM	68.0	56.5
2/6/2019	1:06:19 PM	68.0	56.5
2/6/2019	1:06:20 PM	67.9	56.5
2/6/2019	1:06:21 PM	67.9	56.5
2/6/2019	1:06:22 PM	67.9	56.5
2/6/2019	1:06:23 PM	67.8	56.5
2/6/2019	1:06:24 PM	67.8	56.5
2/6/2019	1:06:25 PM	67.8	56.5
2/6/2019	1:06:26 PM	67.7	56.5
2/6/2019	1:06:27 PM	67.7	56.5
2/6/2019	1:06:28 PM	67.7	56.5
2/6/2019	1:06:29 PM	67.6	56.5
2/6/2019	1:06:30 PM	67.6	56.5
2/6/2019	1:06:31 PM	67.6	56.5
2/6/2019	1:06:32 PM	67.6	56.5
2/6/2019	1:06:33 PM	67.5	56.5
2/6/2019	1:06:34 PM	67.5	56.5
2/6/2019	1:06:35 PM	67.5	56.5
2/6/2019	1:06:36 PM	67.4	56.5
2/6/2019	1:06:37 PM	67.4	56.5
2/6/2019	1:06:38 PM	67.4	56.5
2/6/2019	1:06:39 PM	67.4	56.5
2/6/2019	1:06:40 PM	67.3	56.5
2/6/2019	1:06:41 PM	67.3	56.5
2/6/2019	1:06:42 PM	67.3	56.5
2/6/2019	1:06:43 PM	67.3	56.5
2/6/2019	1:06:44 PM	67.3	56.5
2/6/2019	1:06:45 PM	67.2	56.5
2/6/2019	1:06:46 PM	67.2	56.5
2/6/2019	1:06:47 PM	67.2	56.5
2/6/2019	1:06:48 PM	67.2	56.5
2/6/2019	1:06:49 PM	67.2	56.5
2/6/2019	1:06:50 PM	67.2	56.5
2/6/2019	1:06:51 PM	67.2	56.5
2/6/2019	1:06:52 PM	67.1	56.5
2/6/2019	1:06:53 PM	67.1	56.5
2/6/2019	1:06:54 PM	67.1	56.5
2/6/2019	1:06:55 PM	67.1	56.5
2/6/2019	1:06:56 PM	67.1	56.5
2/6/2019	1:06:57 PM	67.1	56.5
2/6/2019	1:06:58 PM	67.1	56.5
2/6/2019	1:06:59 PM	67.1	56.5
2/6/2019	1:07:00 PM	67.0	56.5
2/6/2019	1:07:01 PM	67.0	56.5
2/6/2019	1:07:02 PM	67.0	56.5
2/6/2019	1:07:03 PM	67.0	56.5
2/6/2019	1:07:04 PM	67.0	56.5
2/6/2019	1:07:05 PM	66.9	56.5
2/6/2019	1:07:06 PM	66.9	56.5
2/6/2019	1:07:07 PM	66.9	56.5
2/6/2019	1:07:08 PM	66.9	56.5
2/6/2019	1:07:09 PM	66.9	56.5
2/6/2019	1:07:10 PM	66.9	56.5
2/6/2019	1:07:11 PM	66.8	56.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:07:12 PM	66.8	56.5
2/6/2019	1:07:13 PM	66.8	56.5
2/6/2019	1:07:14 PM	66.8	56.5
2/6/2019	1:07:15 PM	66.7	56.5
2/6/2019	1:07:16 PM	66.7	56.5
2/6/2019	1:07:17 PM	66.7	56.5
2/6/2019	1:07:18 PM	66.7	56.5
2/6/2019	1:07:19 PM	66.6	56.5
2/6/2019	1:07:20 PM	66.6	56.5
2/6/2019	1:07:21 PM	66.6	56.5
2/6/2019	1:07:22 PM	66.6	56.5
2/6/2019	1:07:23 PM	66.5	56.5
2/6/2019	1:07:24 PM	66.5	56.5
2/6/2019	1:07:25 PM	66.5	56.5
2/6/2019	1:07:26 PM	66.5	56.5
2/6/2019	1:07:27 PM	66.4	56.5
2/6/2019	1:07:28 PM	66.4	56.5
2/6/2019	1:07:29 PM	66.4	56.5
2/6/2019	1:07:30 PM	66.4	56.5
2/6/2019	1:07:31 PM	66.3	56.5
2/6/2019	1:07:32 PM	66.3	56.5
2/6/2019	1:07:33 PM	66.3	56.5
2/6/2019	1:07:34 PM	66.3	56.5
2/6/2019	1:07:35 PM	66.2	56.5
2/6/2019	1:07:36 PM	66.2	56.5
2/6/2019	1:07:37 PM	66.2	56.5
2/6/2019	1:07:38 PM	66.2	56.5
2/6/2019	1:07:39 PM	66.1	56.5
2/6/2019	1:07:40 PM	66.1	56.5
2/6/2019	1:07:41 PM	66.1	56.5
2/6/2019	1:07:42 PM	66.1	56.5
2/6/2019	1:07:43 PM	66.1	56.5
2/6/2019	1:07:44 PM	66.1	56.5
2/6/2019	1:07:45 PM	66.0	56.5
2/6/2019	1:07:46 PM	66.0	56.5
2/6/2019	1:07:47 PM	66.0	56.5
2/6/2019	1:07:48 PM	66.0	56.5
2/6/2019	1:07:49 PM	66.0	56.5
2/6/2019	1:07:50 PM	66.0	56.5
2/6/2019	1:07:51 PM	66.0	56.5
2/6/2019	1:07:52 PM	65.9	56.5
2/6/2019	1:07:53 PM	65.9	56.5
2/6/2019	1:07:54 PM	65.9	56.5
2/6/2019	1:07:55 PM	65.9	56.5
2/6/2019	1:07:56 PM	65.9	56.5
2/6/2019	1:07:57 PM	65.9	56.5
2/6/2019	1:07:58 PM	65.9	56.5
2/6/2019	1:07:59 PM	65.9	56.5
2/6/2019	1:08:00 PM	65.9	56.5
2/6/2019	1:08:01 PM	65.8	56.5
2/6/2019	1:08:02 PM	65.8	56.5
2/6/2019	1:08:03 PM	65.8	56.5
2/6/2019	1:08:04 PM	65.8	56.5
2/6/2019	1:08:05 PM	65.8	56.5
2/6/2019	1:08:06 PM	65.8	56.5
2/6/2019	1:08:07 PM	65.7	56.5
2/6/2019	1:08:08 PM	65.7	56.5
2/6/2019	1:08:09 PM	65.7	56.5
2/6/2019	1:08:10 PM	65.7	56.5
2/6/2019	1:08:11 PM	65.7	56.5
2/6/2019	1:08:12 PM	65.7	56.5
2/6/2019	1:08:13 PM	65.6	56.5
2/6/2019	1:08:14 PM	65.6	56.5
2/6/2019	1:08:15 PM	65.6	56.5
2/6/2019	1:08:16 PM	65.6	56.5
2/6/2019	1:08:17 PM	65.6	56.5
2/6/2019	1:08:18 PM	65.6	56.5
2/6/2019	1:08:19 PM	65.5	56.5
2/6/2019	1:08:20 PM	65.5	56.5
2/6/2019	1:08:21 PM	65.5	56.5
2/6/2019	1:08:22 PM	65.5	56.5
2/6/2019	1:08:23 PM	65.5	56.5
2/6/2019	1:08:24 PM	65.5	56.5
2/6/2019	1:08:25 PM	65.5	56.5
2/6/2019	1:08:26 PM	65.4	56.5
2/6/2019	1:08:27 PM	65.4	56.5
2/6/2019	1:08:28 PM	65.4	56.5
2/6/2019	1:08:29 PM	65.4	56.5
2/6/2019	1:08:30 PM	65.4	56.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:08:31 PM	65.4	56.5
2/6/2019	1:08:32 PM	65.4	56.5
2/6/2019	1:08:33 PM	65.3	56.5
2/6/2019	1:08:34 PM	65.3	56.5
2/6/2019	1:08:35 PM	65.3	56.5
2/6/2019	1:08:36 PM	65.3	56.5
2/6/2019	1:08:37 PM	65.3	56.5
2/6/2019	1:08:38 PM	65.2	56.5
2/6/2019	1:08:39 PM	65.2	56.5
2/6/2019	1:08:40 PM	65.2	56.5
2/6/2019	1:08:41 PM	65.2	56.5
2/6/2019	1:08:42 PM	65.2	56.5
2/6/2019	1:08:43 PM	65.2	56.5
2/6/2019	1:08:44 PM	65.1	56.5
2/6/2019	1:08:45 PM	65.1	56.5
2/6/2019	1:08:46 PM	65.1	56.5
2/6/2019	1:08:47 PM	65.1	56.5
2/6/2019	1:08:48 PM	65.1	56.5
2/6/2019	1:08:49 PM	65.1	56.5
2/6/2019	1:08:50 PM	65.1	56.5
2/6/2019	1:08:51 PM	65.0	56.5
2/6/2019	1:08:52 PM	65.0	56.5
2/6/2019	1:08:53 PM	65.0	56.5
2/6/2019	1:08:54 PM	65.0	56.5
2/6/2019	1:08:55 PM	65.0	56.5
2/6/2019	1:08:56 PM	65.0	56.5
2/6/2019	1:08:57 PM	64.9	56.5
2/6/2019	1:08:58 PM	64.9	56.5
2/6/2019	1:08:59 PM	64.9	56.5
2/6/2019	1:09:00 PM	64.9	56.5
2/6/2019	1:09:01 PM	64.9	56.5
2/6/2019	1:09:02 PM	64.8	56.5
2/6/2019	1:09:03 PM	64.8	56.5
2/6/2019	1:09:04 PM	64.8	56.5
2/6/2019	1:09:05 PM	64.8	56.5
2/6/2019	1:09:06 PM	64.8	56.5
2/6/2019	1:09:07 PM	64.7	56.5
2/6/2019	1:09:08 PM	64.7	56.5
2/6/2019	1:09:09 PM	64.7	56.5
2/6/2019	1:09:10 PM	64.7	56.5
2/6/2019	1:09:11 PM	64.7	56.5
2/6/2019	1:09:12 PM	64.6	56.5
2/6/2019	1:09:13 PM	64.6	56.5
2/6/2019	1:09:14 PM	64.6	56.5
2/6/2019	1:09:15 PM	64.6	56.5
2/6/2019	1:09:16 PM	64.5	56.5
2/6/2019	1:09:17 PM	64.5	56.5
2/6/2019	1:09:18 PM	64.5	56.5
2/6/2019	1:09:19 PM	64.5	56.5
2/6/2019	1:09:20 PM	64.5	56.5
2/6/2019	1:09:21 PM	64.4	56.5
2/6/2019	1:09:22 PM	64.4	56.5
2/6/2019	1:09:23 PM	64.4	56.5
2/6/2019	1:09:24 PM	64.4	56.5
2/6/2019	1:09:25 PM	64.4	56.5
2/6/2019	1:09:26 PM	64.4	56.5
2/6/2019	1:09:27 PM	64.4	56.5
2/6/2019	1:09:28 PM	64.3	56.5
2/6/2019	1:09:29 PM	64.3	56.5
2/6/2019	1:09:30 PM	64.3	56.5
2/6/2019	1:09:31 PM	64.3	56.5
2/6/2019	1:09:32 PM	64.3	56.5
2/6/2019	1:09:33 PM	64.3	56.5
2/6/2019	1:09:34 PM	64.3	56.5
2/6/2019	1:09:35 PM	64.3	56.5
2/6/2019	1:09:36 PM	64.2	56.5
2/6/2019	1:09:37 PM	64.2	56.5
2/6/2019	1:09:38 PM	64.2	56.5
2/6/2019	1:09:39 PM	64.2	56.5
2/6/2019	1:09:40 PM	64.2	56.5
2/6/2019	1:09:41 PM	64.2	56.5
2/6/2019	1:09:42 PM	64.1	56.5
2/6/2019	1:09:43 PM	64.1	56.5
2/6/2019	1:09:44 PM	64.1	56.5
2/6/2019	1:09:45 PM	64.1	56.5
2/6/2019	1:09:46 PM	64.1	56.5
2/6/2019	1:09:47 PM	64.1	56.5
2/6/2019	1:09:48 PM	64.0	56.5
2/6/2019	1:09:49 PM	64.0	56.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:09:50 PM	64.0	56.5
2/6/2019	1:09:51 PM	64.0	56.5
2/6/2019	1:09:52 PM	64.0	56.5
2/6/2019	1:09:53 PM	64.0	56.5
2/6/2019	1:09:54 PM	64.0	56.5
2/6/2019	1:09:55 PM	63.9	56.5
2/6/2019	1:09:56 PM	63.9	56.5
2/6/2019	1:09:57 PM	63.9	56.5
2/6/2019	1:09:58 PM	63.9	56.5
2/6/2019	1:09:59 PM	63.9	56.5
2/6/2019	1:10:00 PM	63.9	56.5
2/6/2019	1:10:01 PM	63.9	56.5
2/6/2019	1:10:02 PM	63.8	56.5
2/6/2019	1:10:03 PM	63.8	56.5
2/6/2019	1:10:04 PM	63.8	56.5
2/6/2019	1:10:05 PM	63.8	56.5
2/6/2019	1:10:06 PM	63.8	56.5
2/6/2019	1:10:07 PM	63.8	56.5
2/6/2019	1:10:08 PM	63.8	56.5
2/6/2019	1:10:09 PM	63.8	56.5
2/6/2019	1:10:10 PM	63.8	56.5
2/6/2019	1:10:11 PM	63.7	56.5
2/6/2019	1:10:12 PM	63.7	56.5
2/6/2019	1:10:13 PM	63.7	56.5
2/6/2019	1:10:14 PM	63.7	56.5
2/6/2019	1:10:15 PM	63.7	56.5
2/6/2019	1:10:16 PM	63.7	56.5
2/6/2019	1:10:17 PM	63.7	56.5
2/6/2019	1:10:18 PM	63.7	56.5
2/6/2019	1:10:19 PM	63.7	56.5
2/6/2019	1:10:20 PM	63.6	56.5
2/6/2019	1:10:21 PM	63.6	56.5
2/6/2019	1:10:22 PM	63.6	56.5
2/6/2019	1:10:23 PM	63.6	56.5
2/6/2019	1:10:24 PM	63.6	56.5
2/6/2019	1:10:25 PM	63.6	56.5
2/6/2019	1:10:26 PM	63.5	56.5
2/6/2019	1:10:27 PM	63.5	56.5
2/6/2019	1:10:28 PM	63.5	56.5
2/6/2019	1:10:29 PM	63.5	56.5
2/6/2019	1:10:30 PM	63.5	56.5
2/6/2019	1:10:31 PM	63.5	56.5
2/6/2019	1:10:32 PM	63.5	56.5
2/6/2019	1:10:33 PM	63.5	56.5
2/6/2019	1:10:34 PM	63.5	56.5
2/6/2019	1:10:35 PM	63.5	56.5
2/6/2019	1:10:36 PM	63.5	56.5
2/6/2019	1:10:37 PM	63.4	56.5
2/6/2019	1:10:38 PM	63.4	56.5
2/6/2019	1:10:39 PM	63.4	56.5
2/6/2019	1:10:40 PM	63.4	56.5
2/6/2019	1:10:41 PM	63.4	56.5
2/6/2019	1:10:42 PM	63.4	56.5
2/6/2019	1:10:43 PM	63.4	56.5
2/6/2019	1:10:44 PM	63.3	56.5
2/6/2019	1:10:45 PM	63.3	56.5
2/6/2019	1:10:46 PM	63.3	56.5
2/6/2019	1:10:47 PM	63.3	56.5
2/6/2019	1:10:48 PM	63.3	56.5
2/6/2019	1:10:49 PM	63.3	56.5
2/6/2019	1:10:50 PM	63.3	56.5
2/6/2019	1:10:51 PM	63.3	56.5
2/6/2019	1:10:52 PM	63.2	56.5
2/6/2019	1:10:53 PM	63.2	56.5
2/6/2019	1:10:54 PM	63.2	56.5
2/6/2019	1:10:55 PM	63.2	56.5
2/6/2019	1:10:56 PM	63.2	56.5
2/6/2019	1:10:57 PM	63.2	56.5
2/6/2019	1:10:58 PM	63.2	56.5
2/6/2019	1:10:59 PM	63.2	56.5
2/6/2019	1:11:00 PM	63.2	56.5
2/6/2019	1:11:01 PM	63.2	56.5
2/6/2019	1:11:02 PM	63.2	56.5
2/6/2019	1:11:03 PM	63.2	56.5
2/6/2019	1:11:04 PM	63.2	56.5
2/6/2019	1:11:05 PM	63.1	56.5
2/6/2019	1:11:06 PM	63.1	56.5
2/6/2019	1:11:07 PM	63.1	56.5
2/6/2019	1:11:08 PM	63.1	56.5

APPENDIX E43: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:11:09 PM	63.1	56.5
2/6/2019	1:11:10 PM	63.1	56.5
2/6/2019	1:11:11 PM	63.1	56.5
2/6/2019	1:11:12 PM	63.1	56.5
2/6/2019	1:11:13 PM	63.1	56.5
2/6/2019	1:11:14 PM	63.1	56.5
2/6/2019	1:11:15 PM	63.1	56.5
2/6/2019	1:11:16 PM	63.0	56.5
2/6/2019	1:11:17 PM	63.0	56.5
2/6/2019	1:11:18 PM	63.0	56.5
2/6/2019	1:11:19 PM	63.0	56.5
2/6/2019	1:11:20 PM	63.0	56.5
2/6/2019	1:11:21 PM	63.0	56.5
2/6/2019	1:11:22 PM	63.0	56.5
2/6/2019	1:11:23 PM	63.0	56.5
2/6/2019	1:11:24 PM	63.0	56.5
2/6/2019	1:11:25 PM	63.0	56.5
2/6/2019	1:11:26 PM	62.9	56.5
2/6/2019	1:11:27 PM	62.9	56.5
2/6/2019	1:11:28 PM	62.9	56.5
2/6/2019	1:11:29 PM	62.9	56.5
2/6/2019	1:11:30 PM	62.9	56.5
2/6/2019	1:11:31 PM	62.9	56.5
2/6/2019	1:11:32 PM	62.9	56.5
2/6/2019	1:11:33 PM	62.9	56.5
2/6/2019	1:11:34 PM	62.9	56.5
2/6/2019	1:11:35 PM	62.9	56.5
2/6/2019	1:11:36 PM	62.9	56.5
2/6/2019	1:11:37 PM	62.9	56.5
2/6/2019	1:11:38 PM	62.8	56.5
2/6/2019	1:11:39 PM	62.8	56.5
2/6/2019	1:11:40 PM	62.8	56.5
2/6/2019	1:11:41 PM	62.8	56.5
2/6/2019	1:11:42 PM	62.8	56.5
2/6/2019	1:11:43 PM	62.8	56.5
2/6/2019	1:11:44 PM	62.8	56.5
2/6/2019	1:11:45 PM	62.8	56.5
2/6/2019	1:11:46 PM	62.8	56.5
2/6/2019	1:11:47 PM	62.8	56.5
2/6/2019	1:11:48 PM	62.8	56.5
2/6/2019	1:11:49 PM	62.8	56.5
2/6/2019	1:11:50 PM	62.8	56.5
2/6/2019	1:11:51 PM	62.8	56.5
2/6/2019	1:11:52 PM	62.8	56.5
2/6/2019	1:11:53 PM	62.8	56.5
2/6/2019	1:11:54 PM	62.8	56.5
2/6/2019	1:11:55 PM	62.8	56.5
2/6/2019	1:11:56 PM	62.8	56.5
2/6/2019	1:11:57 PM	62.8	56.5
2/6/2019	1:11:58 PM	62.7	56.5
2/6/2019	1:11:59 PM	62.7	56.5
2/6/2019	1:12:00 PM	62.7	56.5
2/6/2019	1:12:01 PM	62.7	56.5
2/6/2019	1:12:02 PM	62.7	56.5
2/6/2019	1:12:03 PM	62.7	56.5
2/6/2019	1:12:04 PM	62.7	56.5
2/6/2019	1:12:05 PM	62.7	56.5
2/6/2019	1:12:06 PM	62.7	56.5
2/6/2019	1:12:07 PM	62.7	56.5
2/6/2019	1:12:08 PM	62.6	56.5
2/6/2019	1:12:09 PM	62.6	56.5
2/6/2019	1:12:10 PM	62.6	56.5
2/6/2019	1:12:11 PM	62.6	56.5
2/6/2019	1:12:12 PM	62.6	56.5
2/6/2019	1:12:13 PM	62.6	56.5
2/6/2019	1:12:14 PM	62.5	56.5
2/6/2019	1:12:15 PM	62.5	56.5
2/6/2019	1:12:16 PM	62.5	56.5
2/6/2019	1:12:17 PM	62.5	56.5
2/6/2019	1:12:18 PM	62.5	56.5
2/6/2019	1:12:19 PM	62.5	56.5

Table E2 SEEP-B2 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-2	1210	53.7	12.5
SEEP-B2 TEST-2	1211	53.5	12.6
SEEP-B2 TEST-2	1213	53.6	12.6
SEEP-B2 TEST-2	1215	53.3	12.9
Average		53.5	(µS/cms)
Geometric Mean		53.5	(µS/cms)
Average (pre-test)		59.1	(µS/cms)

Table E3 SEEP-B2 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2 TEST-2	10	40.2	20.9
SEEP-B2 TEST-2	100	193	21.3
SEEP-B2 TEST-2	1,000	1,593	21.6
SEEP-B2 TEST-2	10,000	13,094	21.9
SEEP-B2 TEST-2	100,000	103,212	21.9

Table E4 SEEP-B2 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	299,600	mg
Slope of Calibration Curve	K	1.0825	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	230,775.1	(s) . (µS/cms)
Calculated Flow Rate	Q	1.4	L/s
		22.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table E1 SEEP-B2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	11:25:25 AM	90.1	-
2/6/2019	11:25:26 AM	90.0	-
2/6/2019	11:25:27 AM	90.0	-
2/6/2019	11:25:28 AM	90.0	-
2/6/2019	11:25:29 AM	90.0	-
2/6/2019	11:25:30 AM	90.0	-
2/6/2019	11:25:31 AM	90.0	-
2/6/2019	11:25:32 AM	90.0	-
2/6/2019	11:25:33 AM	90.0	-
2/6/2019	11:25:34 AM	90.0	-
2/6/2019	11:25:35 AM	90.0	-
2/6/2019	11:25:36 AM	89.9	-
2/6/2019	11:25:37 AM	89.9	-
2/6/2019	11:25:38 AM	89.9	-
2/6/2019	11:25:39 AM	89.9	-
2/6/2019	11:25:40 AM	89.9	-
2/6/2019	11:25:41 AM	89.9	-
2/6/2019	11:25:42 AM	89.9	-
2/6/2019	11:25:43 AM	89.9	-
2/6/2019	11:25:44 AM	89.9	-
2/6/2019	11:25:45 AM	89.9	-
2/6/2019	11:25:46 AM	89.9	-
2/6/2019	11:25:47 AM	89.9	-
2/6/2019	11:25:48 AM	89.9	-
2/6/2019	11:25:49 AM	89.9	-
2/6/2019	11:25:50 AM	89.9	-
2/6/2019	11:25:51 AM	89.9	-
2/6/2019	11:25:52 AM	89.9	-
2/6/2019	11:25:53 AM	89.9	-
2/6/2019	11:25:54 AM	90.0	-
2/6/2019	11:25:55 AM	90.1	-
2/6/2019	11:25:56 AM	90.4	-
2/6/2019	11:25:57 AM	91.5	1.5
2/6/2019	11:25:58 AM	162.7	72.7
2/6/2019	11:25:59 AM	239.8	149.8
2/6/2019	11:26:00 AM	408.2	318.2
2/6/2019	11:26:01 AM	675.2	585.2
2/6/2019	11:26:02 AM	816.0	726.0
2/6/2019	11:26:03 AM	1456.0	1366.0
2/6/2019	11:26:04 AM	2048.6	1958.6
2/6/2019	11:26:05 AM	2439.3	2349.3
2/6/2019	11:26:06 AM	2849.4	2759.4
2/6/2019	11:26:07 AM	3371.8	3281.8
2/6/2019	11:26:08 AM	3713.8	3623.8
2/6/2019	11:26:09 AM	4190.6	4100.6
2/6/2019	11:26:10 AM	4654.9	4564.9
2/6/2019	11:26:11 AM	5025.4	4935.4
2/6/2019	11:26:12 AM	5161.8	5071.8
2/6/2019	11:26:13 AM	5283.4	5193.4
2/6/2019	11:26:14 AM	5427.7	5337.7
2/6/2019	11:26:15 AM	5508.6	5418.6
2/6/2019	11:26:16 AM	5568.0	5478.0
2/6/2019	11:26:17 AM	5602.5	5512.5
2/6/2019	11:26:18 AM	5622.7	5532.7
2/6/2019	11:26:19 AM	5623.4	5533.4
2/6/2019	11:26:20 AM	5612.2	5522.2
2/6/2019	11:26:21 AM	5595.0	5505.0
2/6/2019	11:26:22 AM	5210.1	5120.1
2/6/2019	11:26:23 AM	5048.2	4958.2
2/6/2019	11:26:24 AM	4832.6	4742.6
2/6/2019	11:26:25 AM	4685.4	4595.4
2/6/2019	11:26:26 AM	4573.5	4483.5
2/6/2019	11:26:27 AM	4215.9	4125.9
2/6/2019	11:26:28 AM	4028.3	3938.3
2/6/2019	11:26:29 AM	3874.8	3784.8
2/6/2019	11:26:30 AM	3699.2	3609.2
2/6/2019	11:26:31 AM	3646.7	3556.7
2/6/2019	11:26:32 AM	3357.5	3267.5
2/6/2019	11:26:33 AM	3214.9	3124.9
2/6/2019	11:26:34 AM	3067.6	2977.6

APPENDIX E44: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	11:26:35 AM	2931.1	2841.1
2/6/2019	11:26:36 AM	2867.0	2777.0
2/6/2019	11:26:37 AM	2782.0	2692.0
2/6/2019	11:26:38 AM	2483.4	2393.4
2/6/2019	11:26:39 AM	2378.9	2288.9
2/6/2019	11:26:40 AM	2250.6	2160.6
2/6/2019	11:26:41 AM	2213.7	2123.7
2/6/2019	11:26:42 AM	2152.0	2062.0
2/6/2019	11:26:43 AM	1966.6	1876.6
2/6/2019	11:26:44 AM	1836.4	1746.4
2/6/2019	11:26:45 AM	1752.3	1662.3
2/6/2019	11:26:46 AM	1698.7	1608.7
2/6/2019	11:26:47 AM	1663.4	1573.4
2/6/2019	11:26:48 AM	1525.8	1435.8
2/6/2019	11:26:49 AM	1460.3	1370.3
2/6/2019	11:26:50 AM	1392.2	1302.2
2/6/2019	11:26:51 AM	1345.5	1255.5
2/6/2019	11:26:52 AM	1323.3	1233.3
2/6/2019	11:26:53 AM	1300.3	1210.3
2/6/2019	11:26:54 AM	1188.6	1098.6
2/6/2019	11:26:55 AM	1140.0	1050.0
2/6/2019	11:26:56 AM	1090.8	1000.8
2/6/2019	11:26:57 AM	1076.4	986.4
2/6/2019	11:26:58 AM	1043.0	953.0
2/6/2019	11:26:59 AM	1017.3	927.3
2/6/2019	11:27:00 AM	934.1	844.1
2/6/2019	11:27:01 AM	906.9	816.9
2/6/2019	11:27:02 AM	879.7	789.7
2/6/2019	11:27:03 AM	867.1	777.1
2/6/2019	11:27:04 AM	845.6	755.6
2/6/2019	11:27:05 AM	833.9	743.9
2/6/2019	11:27:06 AM	771.4	681.4
2/6/2019	11:27:07 AM	736.4	646.4
2/6/2019	11:27:08 AM	711.7	621.7
2/6/2019	11:27:09 AM	700.4	610.4
2/6/2019	11:27:10 AM	692.3	602.3
2/6/2019	11:27:11 AM	585.1	495.1
2/6/2019	11:27:12 AM	625.2	535.2
2/6/2019	11:27:13 AM	611.3	521.3
2/6/2019	11:27:14 AM	597.4	507.4
2/6/2019	11:27:15 AM	586.8	496.8
2/6/2019	11:27:16 AM	573.3	483.3
2/6/2019	11:27:17 AM	564.0	474.0
2/6/2019	11:27:18 AM	557.0	467.0
2/6/2019	11:27:19 AM	549.0	459.0
2/6/2019	11:27:20 AM	495.2	405.2
2/6/2019	11:27:21 AM	480.8	390.8
2/6/2019	11:27:22 AM	470.2	380.2
2/6/2019	11:27:23 AM	457.4	367.4
2/6/2019	11:27:24 AM	453.4	363.4
2/6/2019	11:27:25 AM	446.2	356.2
2/6/2019	11:27:26 AM	440.5	350.5
2/6/2019	11:27:27 AM	434.8	344.8
2/6/2019	11:27:28 AM	430.2	340.2
2/6/2019	11:27:29 AM	424.7	334.7
2/6/2019	11:27:30 AM	420.2	330.2
2/6/2019	11:27:31 AM	414.9	324.9
2/6/2019	11:27:32 AM	410.6	320.6
2/6/2019	11:27:33 AM	405.9	315.9
2/6/2019	11:27:34 AM	353.3	263.3
2/6/2019	11:27:35 AM	345.8	255.8
2/6/2019	11:27:36 AM	338.4	248.4
2/6/2019	11:27:37 AM	335.0	245.0
2/6/2019	11:27:38 AM	331.2	241.2
2/6/2019	11:27:39 AM	327.7	237.7
2/6/2019	11:27:40 AM	325.1	235.1
2/6/2019	11:27:41 AM	322.0	232.0
2/6/2019	11:27:42 AM	319.2	229.2
2/6/2019	11:27:43 AM	316.0	226.0
2/6/2019	11:27:44 AM	313.2	223.2
2/6/2019	11:27:45 AM	310.2	220.2
2/6/2019	11:27:46 AM	307.7	217.7
2/6/2019	11:27:47 AM	305.0	215.0
2/6/2019	11:27:48 AM	302.7	212.7
2/6/2019	11:27:49 AM	300.0	210.0
2/6/2019	11:27:50 AM	297.3	207.3
2/6/2019	11:27:51 AM	292.0	202.0

APPENDIX E44: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	11:27:52 AM	286.7	196.7
2/6/2019	11:27:53 AM	282.0	192.0
2/6/2019	11:27:54 AM	277.0	187.0
2/6/2019	11:27:55 AM	272.8	182.8
2/6/2019	11:27:56 AM	268.3	178.3
2/6/2019	11:27:57 AM	264.5	174.5
2/6/2019	11:27:58 AM	260.3	170.3
2/6/2019	11:27:59 AM	256.6	166.6
2/6/2019	11:28:00 AM	252.4	162.4
2/6/2019	11:28:01 AM	248.9	158.9
2/6/2019	11:28:02 AM	245.1	155.1
2/6/2019	11:28:03 AM	241.8	151.8
2/6/2019	11:28:04 AM	238.1	148.1
2/6/2019	11:28:05 AM	235.0	145.0
2/6/2019	11:28:06 AM	231.5	141.5
2/6/2019	11:28:07 AM	228.4	138.4
2/6/2019	11:28:08 AM	224.9	134.9
2/6/2019	11:28:09 AM	221.9	131.9
2/6/2019	11:28:10 AM	218.4	128.4
2/6/2019	11:28:11 AM	215.5	125.5
2/6/2019	11:28:12 AM	212.2	122.2
2/6/2019	11:28:13 AM	209.5	119.5
2/6/2019	11:28:14 AM	206.5	116.5
2/6/2019	11:28:15 AM	203.9	113.9
2/6/2019	11:28:16 AM	201.0	111.0
2/6/2019	11:28:17 AM	198.6	108.6
2/6/2019	11:28:18 AM	196.0	106.0
2/6/2019	11:28:19 AM	193.9	103.9
2/6/2019	11:28:20 AM	191.8	101.8
2/6/2019	11:28:21 AM	190.0	100.0
2/6/2019	11:28:22 AM	188.0	98.0
2/6/2019	11:28:23 AM	186.4	96.4
2/6/2019	11:28:24 AM	184.7	94.7
2/6/2019	11:28:25 AM	183.3	93.3
2/6/2019	11:28:26 AM	181.7	91.7
2/6/2019	11:28:27 AM	180.3	90.3
2/6/2019	11:28:28 AM	178.8	88.8
2/6/2019	11:28:29 AM	177.5	87.5
2/6/2019	11:28:30 AM	176.1	86.1
2/6/2019	11:28:31 AM	174.7	84.7
2/6/2019	11:28:32 AM	173.5	83.5
2/6/2019	11:28:33 AM	172.0	82.0
2/6/2019	11:28:34 AM	170.7	80.7
2/6/2019	11:28:35 AM	169.2	79.2
2/6/2019	11:28:36 AM	167.9	77.9
2/6/2019	11:28:37 AM	166.6	76.6
2/6/2019	11:28:38 AM	165.4	75.4
2/6/2019	11:28:39 AM	164.0	74.0
2/6/2019	11:28:40 AM	162.8	72.8
2/6/2019	11:28:41 AM	161.5	71.5
2/6/2019	11:28:42 AM	160.4	70.4
2/6/2019	11:28:43 AM	159.1	69.1
2/6/2019	11:28:44 AM	158.0	68.0
2/6/2019	11:28:45 AM	156.8	66.8
2/6/2019	11:28:46 AM	155.8	65.8
2/6/2019	11:28:47 AM	154.6	64.6
2/6/2019	11:28:48 AM	153.7	63.7
2/6/2019	11:28:49 AM	152.6	62.6
2/6/2019	11:28:50 AM	151.7	61.7
2/6/2019	11:28:51 AM	150.6	60.6
2/6/2019	11:28:52 AM	149.6	59.6
2/6/2019	11:28:53 AM	148.5	58.5
2/6/2019	11:28:54 AM	147.6	57.6
2/6/2019	11:28:55 AM	146.4	56.4
2/6/2019	11:28:56 AM	145.4	55.4
2/6/2019	11:28:57 AM	144.2	54.2
2/6/2019	11:28:58 AM	143.3	53.3
2/6/2019	11:28:59 AM	142.2	52.2
2/6/2019	11:29:00 AM	141.2	51.2
2/6/2019	11:29:01 AM	140.1	50.1
2/6/2019	11:29:02 AM	139.1	49.1
2/6/2019	11:29:03 AM	138.0	48.0
2/6/2019	11:29:04 AM	137.1	47.1
2/6/2019	11:29:05 AM	136.1	46.1
2/6/2019	11:29:06 AM	135.1	45.1
2/6/2019	11:29:07 AM	134.1	44.1
2/6/2019	11:29:08 AM	133.3	43.3
2/6/2019	11:29:09 AM	132.4	42.4
2/6/2019	11:29:10 AM	131.6	41.6

APPENDIX E44: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	11:29:11 AM	130.8	40.8
2/6/2019	11:29:12 AM	130.0	40.0
2/6/2019	11:29:13 AM	129.3	39.3
2/6/2019	11:29:14 AM	128.5	38.5
2/6/2019	11:29:15 AM	127.9	37.9
2/6/2019	11:29:16 AM	127.1	37.1
2/6/2019	11:29:17 AM	126.5	36.5
2/6/2019	11:29:18 AM	125.8	35.8
2/6/2019	11:29:19 AM	125.3	35.3
2/6/2019	11:29:20 AM	124.6	34.6
2/6/2019	11:29:21 AM	124.1	34.1
2/6/2019	11:29:22 AM	123.5	33.5
2/6/2019	11:29:23 AM	123.1	33.1
2/6/2019	11:29:24 AM	122.5	32.5
2/6/2019	11:29:25 AM	122.0	32.0
2/6/2019	11:29:26 AM	121.4	31.4
2/6/2019	11:29:27 AM	120.9	30.9
2/6/2019	11:29:28 AM	120.4	30.4
2/6/2019	11:29:29 AM	119.9	29.9
2/6/2019	11:29:30 AM	119.4	29.4
2/6/2019	11:29:31 AM	118.9	28.9
2/6/2019	11:29:32 AM	118.4	28.4
2/6/2019	11:29:33 AM	118.0	28.0
2/6/2019	11:29:34 AM	117.5	27.5
2/6/2019	11:29:35 AM	117.0	27.0
2/6/2019	11:29:36 AM	116.6	26.6
2/6/2019	11:29:37 AM	116.2	26.2
2/6/2019	11:29:38 AM	115.7	25.7
2/6/2019	11:29:39 AM	115.3	25.3
2/6/2019	11:29:40 AM	114.9	24.9
2/6/2019	11:29:41 AM	114.5	24.5
2/6/2019	11:29:42 AM	114.1	24.1
2/6/2019	11:29:43 AM	113.8	23.8
2/6/2019	11:29:44 AM	113.5	23.5
2/6/2019	11:29:45 AM	113.2	23.2
2/6/2019	11:29:46 AM	112.8	22.8
2/6/2019	11:29:47 AM	112.5	22.5
2/6/2019	11:29:48 AM	112.2	22.2
2/6/2019	11:29:49 AM	111.9	21.9
2/6/2019	11:29:50 AM	111.6	21.6
2/6/2019	11:29:51 AM	111.2	21.2
2/6/2019	11:29:52 AM	110.9	20.9
2/6/2019	11:29:53 AM	110.5	20.5
2/6/2019	11:29:54 AM	110.2	20.2
2/6/2019	11:29:55 AM	109.9	19.9
2/6/2019	11:29:56 AM	109.6	19.6
2/6/2019	11:29:57 AM	109.2	19.2
2/6/2019	11:29:58 AM	108.9	18.9
2/6/2019	11:29:59 AM	108.5	18.5
2/6/2019	11:30:00 AM	108.1	18.1
2/6/2019	11:30:01 AM	107.8	17.8
2/6/2019	11:30:02 AM	107.5	17.5
2/6/2019	11:30:03 AM	107.2	17.2
2/6/2019	11:30:04 AM	106.9	16.9
2/6/2019	11:30:05 AM	106.6	16.6
2/6/2019	11:30:06 AM	106.3	16.3
2/6/2019	11:30:07 AM	106.0	16.0
2/6/2019	11:30:08 AM	105.7	15.7
2/6/2019	11:30:09 AM	105.4	15.4
2/6/2019	11:30:10 AM	105.2	15.2
2/6/2019	11:30:11 AM	104.9	14.9
2/6/2019	11:30:12 AM	104.7	14.7
2/6/2019	11:30:13 AM	104.4	14.4
2/6/2019	11:30:14 AM	104.2	14.2
2/6/2019	11:30:15 AM	103.9	13.9
2/6/2019	11:30:16 AM	103.6	13.6
2/6/2019	11:30:17 AM	103.4	13.4
2/6/2019	11:30:18 AM	103.2	13.2
2/6/2019	11:30:19 AM	102.9	12.9
2/6/2019	11:30:20 AM	102.7	12.7
2/6/2019	11:30:21 AM	102.5	12.5
2/6/2019	11:30:22 AM	102.3	12.3
2/6/2019	11:30:23 AM	102.0	12.0
2/6/2019	11:30:24 AM	101.8	11.8
2/6/2019	11:30:25 AM	101.5	11.5
2/6/2019	11:30:26 AM	101.3	11.3
2/6/2019	11:30:27 AM	101.0	11.0
2/6/2019	11:30:28 AM	100.8	10.8
2/6/2019	11:30:29 AM	100.5	10.5

APPENDIX E44: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	11:30:30 AM	100.3	10.3
2/6/2019	11:30:31 AM	100.0	10.0
2/6/2019	11:30:32 AM	99.8	9.8
2/6/2019	11:30:33 AM	99.6	9.6
2/6/2019	11:30:34 AM	99.4	9.4
2/6/2019	11:30:35 AM	99.2	9.2
2/6/2019	11:30:36 AM	99.1	9.1
2/6/2019	11:30:37 AM	98.9	8.9
2/6/2019	11:30:38 AM	98.8	8.8
2/6/2019	11:30:39 AM	98.7	8.7
2/6/2019	11:30:40 AM	98.5	8.5
2/6/2019	11:30:41 AM	98.4	8.4
2/6/2019	11:30:42 AM	98.3	8.3
2/6/2019	11:30:43 AM	98.2	8.2
2/6/2019	11:30:44 AM	98.0	8.0
2/6/2019	11:30:45 AM	97.9	7.9
2/6/2019	11:30:46 AM	97.7	7.7
2/6/2019	11:30:47 AM	97.6	7.6
2/6/2019	11:30:48 AM	97.4	7.4
2/6/2019	11:30:49 AM	97.3	7.3
2/6/2019	11:30:50 AM	97.1	7.1
2/6/2019	11:30:51 AM	96.9	6.9
2/6/2019	11:30:52 AM	96.7	6.7
2/6/2019	11:30:53 AM	96.6	6.6
2/6/2019	11:30:54 AM	96.4	6.4
2/6/2019	11:30:55 AM	96.2	6.2
2/6/2019	11:30:56 AM	96.0	6.0
2/6/2019	11:30:57 AM	95.8	5.8
2/6/2019	11:30:58 AM	95.6	5.6
2/6/2019	11:30:59 AM	95.5	5.5
2/6/2019	11:31:00 AM	95.3	5.3
2/6/2019	11:31:01 AM	95.1	5.1
2/6/2019	11:31:02 AM	95.0	5.0
2/6/2019	11:31:03 AM	94.8	4.8
2/6/2019	11:31:04 AM	94.7	4.7
2/6/2019	11:31:05 AM	94.6	4.6
2/6/2019	11:31:06 AM	94.4	-
2/6/2019	11:31:07 AM	94.3	-
2/6/2019	11:31:08 AM	94.2	-
2/6/2019	11:31:09 AM	94.1	-
2/6/2019	11:31:10 AM	94.0	-
2/6/2019	11:31:11 AM	93.9	-
2/6/2019	11:31:12 AM	93.7	-
2/6/2019	11:31:13 AM	93.7	-
2/6/2019	11:31:14 AM	93.5	-
2/6/2019	11:31:15 AM	93.5	-
2/6/2019	11:31:16 AM	93.4	-
2/6/2019	11:31:17 AM	93.3	-
2/6/2019	11:31:18 AM	93.2	-
2/6/2019	11:31:19 AM	93.1	-
2/6/2019	11:31:20 AM	93.0	-
2/6/2019	11:31:21 AM	92.9	-
2/6/2019	11:31:22 AM	92.8	-
2/6/2019	11:31:23 AM	92.7	-
2/6/2019	11:31:24 AM	92.7	-
2/6/2019	11:31:25 AM	92.6	-
2/6/2019	11:31:26 AM	92.5	-
2/6/2019	11:31:27 AM	92.4	-
2/6/2019	11:31:28 AM	92.3	-
2/6/2019	11:31:29 AM	92.3	-
2/6/2019	11:31:30 AM	92.2	-
2/6/2019	11:31:31 AM	92.1	-
2/6/2019	11:31:32 AM	92.0	-
2/6/2019	11:31:33 AM	92.0	-
2/6/2019	11:31:34 AM	91.9	-
2/6/2019	11:31:35 AM	91.8	-
2/6/2019	11:31:36 AM	91.7	-
2/6/2019	11:31:37 AM	91.7	-
2/6/2019	11:31:38 AM	91.6	-
2/6/2019	11:31:39 AM	91.6	-
2/6/2019	11:31:40 AM	91.5	-
2/6/2019	11:31:41 AM	91.5	-
2/6/2019	11:31:42 AM	91.5	-
2/6/2019	11:31:43 AM	91.4	-
2/6/2019	11:31:44 AM	91.4	-
2/6/2019	11:31:45 AM	91.4	-
2/6/2019	11:31:46 AM	91.4	-
2/6/2019	11:31:47 AM	91.5	-
2/6/2019	11:31:48 AM	91.5	-

APPENDIX E44: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	11:31:49 AM	91.5	-
2/6/2019	11:31:50 AM	91.5	-
2/6/2019	11:31:51 AM	91.5	-
2/6/2019	11:31:52 AM	91.5	-
2/6/2019	11:31:53 AM	91.5	-
2/6/2019	11:31:54 AM	91.4	-
2/6/2019	11:31:55 AM	91.4	-

Table E2 SEEP-B2 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2-TEST-3	1046	86.2	11.5
SEEP-B2-TEST-3	1048	90.1	11.4
SEEP-B2-TEST-3	1048	91	11.4
SEEP-B2-TEST-3	1049	91.4	11.4
SEEP-B2-TEST-3	1050	90.7	11.4
Average		89.9	(µS/cms)
Geo Mean		89.9	(µS/cms)
Average (pre-test)		90.0	(µS/cms)
Average (post-test)		92.4	(µS/cms)

Table E3 SEEP-B2 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2-TEST-3	10	39.9	20.2
SEEP-B2-TEST-3	100	198	20.8
SEEP-B2-TEST-3	1,000	1,550	20.6
SEEP-B2-TEST-3	10,000	13,391	21.1
SEEP-B2-TEST-3	100,000	106,519	21.2

Table E4 SEEP-B2 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.0680	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	209,827.2	(s) . (µS/cms)
Calculated Flow Rate	Q	1.5	L/s
		24.2	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:39:14 PM	165.5	-
5/22/2019	3:39:15 PM	165.5	-
5/22/2019	3:39:16 PM	165.5	-
5/22/2019	3:39:17 PM	165.5	-
5/22/2019	3:39:18 PM	165.5	-
5/22/2019	3:39:19 PM	165.6	-
5/22/2019	3:39:20 PM	165.6	-
5/22/2019	3:39:21 PM	165.6	-
5/22/2019	3:39:22 PM	165.7	-
5/22/2019	3:39:23 PM	165.8	-
5/22/2019	3:39:24 PM	165.8	-
5/22/2019	3:39:25 PM	165.9	-
5/22/2019	3:39:26 PM	166.0	-
5/22/2019	3:39:27 PM	166.1	-
5/22/2019	3:39:28 PM	166.1	-
5/22/2019	3:39:29 PM	166.2	-
5/22/2019	3:39:30 PM	166.3	-
5/22/2019	3:39:31 PM	166.4	-
5/22/2019	3:39:32 PM	166.4	-
5/22/2019	3:39:33 PM	166.5	-
5/22/2019	3:39:34 PM	166.5	-
5/22/2019	3:39:35 PM	166.6	-
5/22/2019	3:39:36 PM	166.6	-
5/22/2019	3:39:37 PM	166.6	-
5/22/2019	3:39:38 PM	166.6	-
5/22/2019	3:39:39 PM	166.6	-
5/22/2019	3:39:40 PM	166.6	-
5/22/2019	3:39:41 PM	166.6	-
5/22/2019	3:39:42 PM	166.6	-
5/22/2019	3:39:43 PM	166.6	-
5/22/2019	3:39:44 PM	166.6	-
5/22/2019	3:39:45 PM	166.6	-
5/22/2019	3:39:46 PM	166.6	-
5/22/2019	3:39:47 PM	166.6	-
5/22/2019	3:39:48 PM	166.6	-
5/22/2019	3:39:49 PM	166.6	-
5/22/2019	3:39:50 PM	166.6	-
5/22/2019	3:39:51 PM	166.6	-
5/22/2019	3:39:52 PM	166.6	-
5/22/2019	3:39:53 PM	166.7	-
5/22/2019	3:39:54 PM	166.7	-
5/22/2019	3:39:55 PM	166.7	-
5/22/2019	3:39:56 PM	166.8	-
5/22/2019	3:39:57 PM	167.4	-
5/22/2019	3:39:58 PM	222.9	56.6
5/22/2019	3:39:59 PM	342.0	175.7
5/22/2019	3:40:00 PM	533.0	366.7
5/22/2019	3:40:01 PM	727.5	561.2
5/22/2019	3:40:02 PM	1534.5	1368.2
5/22/2019	3:40:03 PM	2414.9	2248.6
5/22/2019	3:40:04 PM	2895.1	2728.8
5/22/2019	3:40:05 PM	3880.1	3713.8
5/22/2019	3:40:06 PM	5608.4	5442.1
5/22/2019	3:40:07 PM	6454.7	6288.4
5/22/2019	3:40:08 PM	7651.2	7484.9
5/22/2019	3:40:09 PM	9169.0	9002.7
5/22/2019	3:40:10 PM	9882.8	9716.5
5/22/2019	3:40:11 PM	10495.1	10328.8
5/22/2019	3:40:12 PM	11016.6	10850.3
5/22/2019	3:40:13 PM	11366.8	11200.5
5/22/2019	3:40:14 PM	11486.0	11319.7
5/22/2019	3:40:15 PM	11588.2	11421.9
5/22/2019	3:40:16 PM	11657.9	11491.6
5/22/2019	3:40:17 PM	11730.7	11564.4
5/22/2019	3:40:18 PM	11768.6	11602.3
5/22/2019	3:40:19 PM	11782.1	11615.8
5/22/2019	3:40:20 PM	11765.5	11599.2
5/22/2019	3:40:21 PM	11722.6	11556.3
5/22/2019	3:40:22 PM	10720.5	10554.2
5/22/2019	3:40:23 PM	10749.9	10583.6

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:40:24 PM	10123.3	9957.0
5/22/2019	3:40:25 PM	10059.9	9893.6
5/22/2019	3:40:26 PM	9913.3	9747.0
5/22/2019	3:40:27 PM	9091.4	8925.1
5/22/2019	3:40:28 PM	8594.0	8427.7
5/22/2019	3:40:29 PM	8454.7	8288.4
5/22/2019	3:40:30 PM	8357.6	8191.3
5/22/2019	3:40:31 PM	7552.8	7386.5
5/22/2019	3:40:32 PM	7348.8	7182.5
5/22/2019	3:40:33 PM	7177.2	7010.9
5/22/2019	3:40:34 PM	6624.5	6458.2
5/22/2019	3:40:35 PM	6464.6	6298.3
5/22/2019	3:40:36 PM	5983.3	5817.0
5/22/2019	3:40:37 PM	5768.7	5602.4
5/22/2019	3:40:38 PM	5430.0	5263.7
5/22/2019	3:40:39 PM	5297.8	5131.5
5/22/2019	3:40:40 PM	5224.6	5058.3
5/22/2019	3:40:41 PM	4821.9	4655.6
5/22/2019	3:40:42 PM	4707.5	4541.2
5/22/2019	3:40:43 PM	4521.8	4355.5
5/22/2019	3:40:44 PM	4340.7	4174.4
5/22/2019	3:40:45 PM	4308.8	4142.5
5/22/2019	3:40:46 PM	4222.9	4056.6
5/22/2019	3:40:47 PM	3855.0	3688.7
5/22/2019	3:40:48 PM	3741.2	3574.9
5/22/2019	3:40:49 PM	3520.1	3353.8
5/22/2019	3:40:50 PM	3489.1	3322.8
5/22/2019	3:40:51 PM	3426.0	3259.7
5/22/2019	3:40:52 PM	3358.7	3192.4
5/22/2019	3:40:53 PM	3136.3	2970.0
5/22/2019	3:40:54 PM	2992.9	2826.6
5/22/2019	3:40:55 PM	2907.1	2740.8
5/22/2019	3:40:56 PM	2799.4	2633.1
5/22/2019	3:40:57 PM	2757.7	2591.4
5/22/2019	3:40:58 PM	2725.2	2558.9
5/22/2019	3:40:59 PM	2688.2	2521.9
5/22/2019	3:41:00 PM	2479.5	2313.2
5/22/2019	3:41:01 PM	2407.5	2241.2
5/22/2019	3:41:02 PM	2283.6	2117.3
5/22/2019	3:41:03 PM	2244.9	2078.6
5/22/2019	3:41:04 PM	2210.8	2044.5
5/22/2019	3:41:05 PM	2178.6	2012.3
5/22/2019	3:41:06 PM	2020.0	1853.7
5/22/2019	3:41:07 PM	1946.8	1780.5
5/22/2019	3:41:08 PM	1889.9	1723.6
5/22/2019	3:41:09 PM	1842.1	1675.8
5/22/2019	3:41:10 PM	1827.5	1661.2
5/22/2019	3:41:11 PM	1811.5	1645.2
5/22/2019	3:41:12 PM	1795.1	1628.8
5/22/2019	3:41:13 PM	1773.2	1606.9
5/22/2019	3:41:14 PM	1609.0	1442.7
5/22/2019	3:41:15 PM	1564.0	1397.7
5/22/2019	3:41:16 PM	1500.4	1334.1
5/22/2019	3:41:17 PM	1486.9	1320.6
5/22/2019	3:41:18 PM	1459.1	1292.8
5/22/2019	3:41:19 PM	1438.8	1272.5
5/22/2019	3:41:20 PM	1421.1	1254.8
5/22/2019	3:41:21 PM	1405.7	1239.4
5/22/2019	3:41:22 PM	1289.3	1123.0
5/22/2019	3:41:23 PM	1257.3	1091.0
5/22/2019	3:41:24 PM	1231.3	1065.0
5/22/2019	3:41:25 PM	1228.0	1061.7
5/22/2019	3:41:26 PM	1216.5	1050.2
5/22/2019	3:41:27 PM	1194.0	1027.7
5/22/2019	3:41:28 PM	1115.7	949.4
5/22/2019	3:41:29 PM	1092.7	926.4
5/22/2019	3:41:30 PM	1078.6	912.3
5/22/2019	3:41:31 PM	1060.6	894.3
5/22/2019	3:41:32 PM	1056.1	889.8
5/22/2019	3:41:33 PM	1046.8	880.5
5/22/2019	3:41:34 PM	1032.5	866.2
5/22/2019	3:41:35 PM	1020.9	854.6
5/22/2019	3:41:36 PM	957.3	791.0
5/22/2019	3:41:37 PM	932.2	765.9
5/22/2019	3:41:38 PM	924.4	758.1
5/22/2019	3:41:39 PM	901.3	735.0
5/22/2019	3:41:40 PM	886.7	720.4

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:41:41 PM	877.9	711.6
5/22/2019	3:41:42 PM	869.5	703.2
5/22/2019	3:41:43 PM	862.5	696.2
5/22/2019	3:41:44 PM	854.4	688.1
5/22/2019	3:41:45 PM	796.7	630.4
5/22/2019	3:41:46 PM	779.0	612.7
5/22/2019	3:41:47 PM	761.9	595.6
5/22/2019	3:41:48 PM	756.4	590.1
5/22/2019	3:41:49 PM	753.3	587.0
5/22/2019	3:41:50 PM	751.9	585.6
5/22/2019	3:41:51 PM	746.2	579.9
5/22/2019	3:41:52 PM	738.7	572.4
5/22/2019	3:41:53 PM	733.2	566.9
5/22/2019	3:41:54 PM	680.9	514.6
5/22/2019	3:41:55 PM	670.4	504.1
5/22/2019	3:41:56 PM	655.2	488.9
5/22/2019	3:41:57 PM	655.3	489.0
5/22/2019	3:41:58 PM	653.7	487.4
5/22/2019	3:41:59 PM	648.1	481.8
5/22/2019	3:42:00 PM	643.7	477.4
5/22/2019	3:42:01 PM	484.2	317.9
5/22/2019	3:42:02 PM	593.5	427.2
5/22/2019	3:42:03 PM	596.9	430.6
5/22/2019	3:42:04 PM	589.5	423.2
5/22/2019	3:42:05 PM	586.0	419.7
5/22/2019	3:42:06 PM	580.9	414.6
5/22/2019	3:42:07 PM	574.6	408.3
5/22/2019	3:42:08 PM	570.3	404.0
5/22/2019	3:42:09 PM	566.5	400.2
5/22/2019	3:42:10 PM	563.0	396.7
5/22/2019	3:42:11 PM	559.3	393.0
5/22/2019	3:42:12 PM	556.3	390.0
5/22/2019	3:42:13 PM	552.9	386.6
5/22/2019	3:42:14 PM	550.1	383.8
5/22/2019	3:42:15 PM	547.3	381.0
5/22/2019	3:42:16 PM	544.5	378.2
5/22/2019	3:42:17 PM	542.0	375.7
5/22/2019	3:42:18 PM	536.4	370.1
5/22/2019	3:42:19 PM	530.9	364.6
5/22/2019	3:42:20 PM	524.8	358.5
5/22/2019	3:42:21 PM	519.5	353.2
5/22/2019	3:42:22 PM	513.5	347.2
5/22/2019	3:42:23 PM	508.5	342.2
5/22/2019	3:42:24 PM	456.6	290.3
5/22/2019	3:42:25 PM	453.1	286.8
5/22/2019	3:42:26 PM	452.1	285.8
5/22/2019	3:42:27 PM	450.8	284.5
5/22/2019	3:42:28 PM	447.0	280.7
5/22/2019	3:42:29 PM	444.9	278.6
5/22/2019	3:42:30 PM	443.2	276.9
5/22/2019	3:42:31 PM	441.7	275.4
5/22/2019	3:42:32 PM	439.9	273.6
5/22/2019	3:42:33 PM	438.5	272.2
5/22/2019	3:42:34 PM	437.0	270.7
5/22/2019	3:42:35 PM	435.2	268.9
5/22/2019	3:42:36 PM	433.5	267.2
5/22/2019	3:42:37 PM	431.6	265.3
5/22/2019	3:42:38 PM	429.9	263.6
5/22/2019	3:42:39 PM	428.1	261.8
5/22/2019	3:42:40 PM	425.4	259.1
5/22/2019	3:42:41 PM	421.9	255.6
5/22/2019	3:42:42 PM	418.7	252.4
5/22/2019	3:42:43 PM	414.6	248.3
5/22/2019	3:42:44 PM	410.9	244.6
5/22/2019	3:42:45 PM	406.8	240.5
5/22/2019	3:42:46 PM	403.1	236.8
5/22/2019	3:42:47 PM	399.0	232.7
5/22/2019	3:42:48 PM	395.7	229.4
5/22/2019	3:42:49 PM	392.0	225.7
5/22/2019	3:42:50 PM	388.7	222.4
5/22/2019	3:42:51 PM	384.8	218.5
5/22/2019	3:42:52 PM	381.6	215.3
5/22/2019	3:42:53 PM	378.0	211.7
5/22/2019	3:42:54 PM	374.3	208.0
5/22/2019	3:42:55 PM	371.3	205.0
5/22/2019	3:42:56 PM	368.4	202.1
5/22/2019	3:42:57 PM	365.9	199.6
5/22/2019	3:42:58 PM	363.2	196.9
5/22/2019	3:42:59 PM	360.6	194.3

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:43:00 PM	357.6	191.3
5/22/2019	3:43:01 PM	355.1	188.8
5/22/2019	3:43:02 PM	352.4	186.1
5/22/2019	3:43:03 PM	350.0	183.7
5/22/2019	3:43:04 PM	347.3	181.0
5/22/2019	3:43:05 PM	344.8	178.5
5/22/2019	3:43:06 PM	342.0	175.7
5/22/2019	3:43:07 PM	339.6	173.3
5/22/2019	3:43:08 PM	336.9	170.6
5/22/2019	3:43:09 PM	334.4	168.1
5/22/2019	3:43:10 PM	331.6	165.3
5/22/2019	3:43:11 PM	329.3	163.0
5/22/2019	3:43:12 PM	327.1	160.8
5/22/2019	3:43:13 PM	325.1	158.8
5/22/2019	3:43:14 PM	323.2	156.9
5/22/2019	3:43:15 PM	321.1	154.8
5/22/2019	3:43:16 PM	319.4	153.1
5/22/2019	3:43:17 PM	317.7	151.4
5/22/2019	3:43:18 PM	316.3	150.0
5/22/2019	3:43:19 PM	314.9	148.6
5/22/2019	3:43:20 PM	313.7	147.4
5/22/2019	3:43:21 PM	312.3	146.0
5/22/2019	3:43:22 PM	311.0	144.7
5/22/2019	3:43:23 PM	309.5	143.2
5/22/2019	3:43:24 PM	308.0	141.7
5/22/2019	3:43:25 PM	306.3	140.0
5/22/2019	3:43:26 PM	304.9	138.6
5/22/2019	3:43:27 PM	303.4	137.1
5/22/2019	3:43:28 PM	302.3	136.0
5/22/2019	3:43:29 PM	301.1	134.8
5/22/2019	3:43:30 PM	299.8	133.5
5/22/2019	3:43:31 PM	298.5	132.2
5/22/2019	3:43:32 PM	296.9	130.6
5/22/2019	3:43:33 PM	295.6	129.3
5/22/2019	3:43:34 PM	294.4	128.1
5/22/2019	3:43:35 PM	293.4	127.1
5/22/2019	3:43:36 PM	292.2	125.9
5/22/2019	3:43:37 PM	291.2	124.9
5/22/2019	3:43:38 PM	290.0	123.7
5/22/2019	3:43:39 PM	288.7	122.4
5/22/2019	3:43:40 PM	286.9	120.6
5/22/2019	3:43:41 PM	285.3	119.0
5/22/2019	3:43:42 PM	283.3	117.0
5/22/2019	3:43:43 PM	281.8	115.5
5/22/2019	3:43:44 PM	280.1	113.8
5/22/2019	3:43:45 PM	278.7	112.4
5/22/2019	3:43:46 PM	277.0	110.7
5/22/2019	3:43:47 PM	275.6	109.3
5/22/2019	3:43:48 PM	274.3	108.0
5/22/2019	3:43:49 PM	273.0	106.7
5/22/2019	3:43:50 PM	272.0	105.7
5/22/2019	3:43:51 PM	270.8	104.5
5/22/2019	3:43:52 PM	270.0	103.7
5/22/2019	3:43:53 PM	269.0	102.7
5/22/2019	3:43:54 PM	268.2	101.9
5/22/2019	3:43:55 PM	267.3	101.0
5/22/2019	3:43:56 PM	266.5	100.2
5/22/2019	3:43:57 PM	265.6	99.3
5/22/2019	3:43:58 PM	265.0	98.7
5/22/2019	3:43:59 PM	264.2	97.9
5/22/2019	3:44:00 PM	263.6	97.3
5/22/2019	3:44:01 PM	262.8	96.5
5/22/2019	3:44:02 PM	262.0	95.7
5/22/2019	3:44:03 PM	261.1	94.8
5/22/2019	3:44:04 PM	260.4	94.1
5/22/2019	3:44:05 PM	259.4	93.1
5/22/2019	3:44:06 PM	258.7	92.4
5/22/2019	3:44:07 PM	257.9	91.6
5/22/2019	3:44:08 PM	257.2	90.9
5/22/2019	3:44:09 PM	256.6	90.3
5/22/2019	3:44:10 PM	255.9	89.6
5/22/2019	3:44:11 PM	255.2	88.9
5/22/2019	3:44:12 PM	254.5	88.2
5/22/2019	3:44:13 PM	253.8	87.5
5/22/2019	3:44:14 PM	253.0	86.7
5/22/2019	3:44:15 PM	252.3	86.0
5/22/2019	3:44:16 PM	251.6	85.3
5/22/2019	3:44:17 PM	251.0	84.7
5/22/2019	3:44:18 PM	250.4	84.1

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:44:19 PM	250.0	83.7
5/22/2019	3:44:20 PM	249.3	83.0
5/22/2019	3:44:21 PM	248.8	82.5
5/22/2019	3:44:22 PM	248.2	81.9
5/22/2019	3:44:23 PM	247.6	81.3
5/22/2019	3:44:24 PM	246.9	80.6
5/22/2019	3:44:25 PM	246.2	79.9
5/22/2019	3:44:26 PM	245.4	79.1
5/22/2019	3:44:27 PM	244.6	78.3
5/22/2019	3:44:28 PM	243.9	77.6
5/22/2019	3:44:29 PM	243.2	76.9
5/22/2019	3:44:30 PM	242.5	76.2
5/22/2019	3:44:31 PM	241.7	75.4
5/22/2019	3:44:32 PM	241.1	74.8
5/22/2019	3:44:33 PM	240.4	74.1
5/22/2019	3:44:34 PM	239.9	73.6
5/22/2019	3:44:35 PM	239.3	73.0
5/22/2019	3:44:36 PM	238.8	72.5
5/22/2019	3:44:37 PM	238.4	72.1
5/22/2019	3:44:38 PM	238.1	71.8
5/22/2019	3:44:39 PM	237.9	71.6
5/22/2019	3:44:40 PM	237.7	71.4
5/22/2019	3:44:41 PM	237.7	71.4
5/22/2019	3:44:42 PM	237.7	71.4
5/22/2019	3:44:43 PM	237.8	71.5
5/22/2019	3:44:44 PM	238.0	71.7
5/22/2019	3:44:45 PM	238.2	71.9
5/22/2019	3:44:46 PM	238.4	72.1
5/22/2019	3:44:47 PM	238.7	72.4
5/22/2019	3:44:48 PM	239.1	72.8
5/22/2019	3:44:49 PM	239.5	73.2
5/22/2019	3:44:50 PM	240.0	73.7
5/22/2019	3:44:51 PM	240.4	74.1
5/22/2019	3:44:52 PM	240.7	74.4
5/22/2019	3:44:53 PM	241.0	74.7
5/22/2019	3:44:54 PM	241.2	74.9
5/22/2019	3:44:55 PM	241.3	75.0
5/22/2019	3:44:56 PM	241.3	75.0
5/22/2019	3:44:57 PM	241.2	74.9
5/22/2019	3:44:58 PM	241.1	74.8
5/22/2019	3:44:59 PM	241.0	74.7
5/22/2019	3:45:00 PM	240.7	74.4
5/22/2019	3:45:01 PM	240.5	74.2
5/22/2019	3:45:02 PM	240.3	74.0
5/22/2019	3:45:03 PM	240.0	73.7
5/22/2019	3:45:04 PM	239.7	73.4
5/22/2019	3:45:05 PM	239.4	73.1
5/22/2019	3:45:06 PM	239.0	72.7
5/22/2019	3:45:07 PM	238.7	72.4
5/22/2019	3:45:08 PM	238.4	72.1
5/22/2019	3:45:09 PM	238.2	71.9
5/22/2019	3:45:10 PM	238.0	71.7
5/22/2019	3:45:11 PM	237.7	71.4
5/22/2019	3:45:12 PM	237.5	71.2
5/22/2019	3:45:13 PM	237.2	70.9
5/22/2019	3:45:14 PM	236.9	70.6
5/22/2019	3:45:15 PM	236.5	70.2
5/22/2019	3:45:16 PM	236.2	69.9
5/22/2019	3:45:17 PM	235.8	69.5
5/22/2019	3:45:18 PM	235.4	69.1
5/22/2019	3:45:19 PM	235.1	68.8
5/22/2019	3:45:20 PM	234.9	68.6
5/22/2019	3:45:21 PM	234.6	68.3
5/22/2019	3:45:22 PM	234.2	67.9
5/22/2019	3:45:23 PM	233.8	67.5
5/22/2019	3:45:24 PM	233.5	67.2
5/22/2019	3:45:25 PM	233.2	66.9
5/22/2019	3:45:26 PM	232.8	66.5
5/22/2019	3:45:27 PM	232.5	66.2
5/22/2019	3:45:28 PM	232.1	65.8
5/22/2019	3:45:29 PM	231.8	65.5
5/22/2019	3:45:30 PM	231.5	65.2
5/22/2019	3:45:31 PM	231.2	64.9
5/22/2019	3:45:32 PM	230.9	64.6
5/22/2019	3:45:33 PM	230.5	64.2
5/22/2019	3:45:34 PM	230.1	63.8
5/22/2019	3:45:35 PM	229.8	63.5
5/22/2019	3:45:36 PM	229.5	63.2
5/22/2019	3:45:37 PM	229.1	62.8

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:45:38 PM	228.7	62.4
5/22/2019	3:45:39 PM	228.4	62.1
5/22/2019	3:45:40 PM	228.0	61.7
5/22/2019	3:45:41 PM	227.6	61.3
5/22/2019	3:45:42 PM	227.3	61.0
5/22/2019	3:45:43 PM	227.0	60.7
5/22/2019	3:45:44 PM	226.7	60.4
5/22/2019	3:45:45 PM	226.3	60.0
5/22/2019	3:45:46 PM	226.1	59.8
5/22/2019	3:45:47 PM	225.8	59.5
5/22/2019	3:45:48 PM	225.5	59.2
5/22/2019	3:45:49 PM	225.3	59.0
5/22/2019	3:45:50 PM	225.1	58.8
5/22/2019	3:45:51 PM	224.9	58.6
5/22/2019	3:45:52 PM	224.7	58.4
5/22/2019	3:45:53 PM	224.5	58.2
5/22/2019	3:45:54 PM	224.3	58.0
5/22/2019	3:45:55 PM	224.1	57.8
5/22/2019	3:45:56 PM	223.9	57.6
5/22/2019	3:45:57 PM	223.8	57.5
5/22/2019	3:45:58 PM	223.6	57.3
5/22/2019	3:45:59 PM	223.3	57.0
5/22/2019	3:46:00 PM	223.1	56.8
5/22/2019	3:46:01 PM	222.9	56.6
5/22/2019	3:46:02 PM	222.7	56.4
5/22/2019	3:46:03 PM	222.3	56.0
5/22/2019	3:46:04 PM	222.0	55.7
5/22/2019	3:46:05 PM	221.8	55.5
5/22/2019	3:46:06 PM	221.4	55.1
5/22/2019	3:46:07 PM	221.0	54.7
5/22/2019	3:46:08 PM	220.6	54.3
5/22/2019	3:46:09 PM	220.1	53.8
5/22/2019	3:46:10 PM	219.6	53.3
5/22/2019	3:46:11 PM	219.1	52.8
5/22/2019	3:46:12 PM	218.5	52.2
5/22/2019	3:46:13 PM	218.0	51.7
5/22/2019	3:46:14 PM	217.4	51.1
5/22/2019	3:46:15 PM	216.8	50.5
5/22/2019	3:46:16 PM	216.2	49.9
5/22/2019	3:46:17 PM	215.6	49.3
5/22/2019	3:46:18 PM	215.1	48.8
5/22/2019	3:46:19 PM	214.5	48.2
5/22/2019	3:46:20 PM	213.9	47.6
5/22/2019	3:46:21 PM	213.3	47.0
5/22/2019	3:46:22 PM	212.7	46.4
5/22/2019	3:46:23 PM	212.2	45.9
5/22/2019	3:46:24 PM	211.8	45.5
5/22/2019	3:46:25 PM	211.3	45.0
5/22/2019	3:46:26 PM	210.8	44.5
5/22/2019	3:46:27 PM	210.4	44.1
5/22/2019	3:46:28 PM	210.0	43.7
5/22/2019	3:46:29 PM	209.6	43.3
5/22/2019	3:46:30 PM	209.2	42.9
5/22/2019	3:46:31 PM	208.9	42.6
5/22/2019	3:46:32 PM	208.6	42.3
5/22/2019	3:46:33 PM	208.2	41.9
5/22/2019	3:46:34 PM	207.9	41.6
5/22/2019	3:46:35 PM	207.6	41.3
5/22/2019	3:46:36 PM	207.3	41.0
5/22/2019	3:46:37 PM	207.1	40.8
5/22/2019	3:46:38 PM	206.8	40.5
5/22/2019	3:46:39 PM	206.6	40.3
5/22/2019	3:46:40 PM	206.3	40.0
5/22/2019	3:46:41 PM	206.1	39.8
5/22/2019	3:46:42 PM	205.7	39.4
5/22/2019	3:46:43 PM	205.5	39.2
5/22/2019	3:46:44 PM	205.1	38.8
5/22/2019	3:46:45 PM	205.0	38.7
5/22/2019	3:46:46 PM	204.7	38.4
5/22/2019	3:46:47 PM	204.4	38.1
5/22/2019	3:46:48 PM	204.3	38.0
5/22/2019	3:46:49 PM	204.1	37.8
5/22/2019	3:46:50 PM	203.8	37.5
5/22/2019	3:46:51 PM	203.6	37.3
5/22/2019	3:46:52 PM	203.4	37.1
5/22/2019	3:46:53 PM	203.2	36.9
5/22/2019	3:46:54 PM	203.1	36.8
5/22/2019	3:46:55 PM	202.9	36.6
5/22/2019	3:46:56 PM	202.8	36.5

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:46:57 PM	202.6	36.3
5/22/2019	3:46:58 PM	202.5	36.2
5/22/2019	3:46:59 PM	202.4	36.1
5/22/2019	3:47:00 PM	202.3	36.0
5/22/2019	3:47:01 PM	202.1	35.8
5/22/2019	3:47:02 PM	202.0	35.7
5/22/2019	3:47:03 PM	201.8	35.5
5/22/2019	3:47:04 PM	201.6	35.3
5/22/2019	3:47:05 PM	201.5	35.2
5/22/2019	3:47:06 PM	201.4	35.1
5/22/2019	3:47:07 PM	201.3	35.0
5/22/2019	3:47:08 PM	201.2	34.9
5/22/2019	3:47:09 PM	201.1	34.8
5/22/2019	3:47:10 PM	201.0	34.7
5/22/2019	3:47:11 PM	200.9	34.6
5/22/2019	3:47:12 PM	200.8	34.5
5/22/2019	3:47:13 PM	200.7	34.4
5/22/2019	3:47:14 PM	200.6	34.3
5/22/2019	3:47:15 PM	200.6	34.3
5/22/2019	3:47:16 PM	200.5	34.2
5/22/2019	3:47:17 PM	200.4	34.1
5/22/2019	3:47:18 PM	200.4	34.1
5/22/2019	3:47:19 PM	200.3	34.0
5/22/2019	3:47:20 PM	200.2	33.9
5/22/2019	3:47:21 PM	200.2	33.9
5/22/2019	3:47:22 PM	200.1	33.8
5/22/2019	3:47:23 PM	200.1	33.8
5/22/2019	3:47:24 PM	200.0	33.7
5/22/2019	3:47:25 PM	199.9	33.6
5/22/2019	3:47:26 PM	199.8	33.5
5/22/2019	3:47:27 PM	199.7	33.4
5/22/2019	3:47:28 PM	199.6	33.3
5/22/2019	3:47:29 PM	199.5	33.2
5/22/2019	3:47:30 PM	199.4	33.1
5/22/2019	3:47:31 PM	199.3	33.0
5/22/2019	3:47:32 PM	199.2	32.9
5/22/2019	3:47:33 PM	199.1	32.8
5/22/2019	3:47:34 PM	199.0	32.7
5/22/2019	3:47:35 PM	198.8	32.5
5/22/2019	3:47:36 PM	198.6	32.3
5/22/2019	3:47:37 PM	198.5	32.2
5/22/2019	3:47:38 PM	198.4	32.1
5/22/2019	3:47:39 PM	198.2	31.9
5/22/2019	3:47:40 PM	198.1	31.8
5/22/2019	3:47:41 PM	198.0	31.7
5/22/2019	3:47:42 PM	197.8	31.5
5/22/2019	3:47:43 PM	197.7	31.4
5/22/2019	3:47:44 PM	197.5	31.2
5/22/2019	3:47:45 PM	197.3	31.0
5/22/2019	3:47:46 PM	197.1	30.8
5/22/2019	3:47:47 PM	196.9	30.6
5/22/2019	3:47:48 PM	196.8	30.5
5/22/2019	3:47:49 PM	196.6	30.3
5/22/2019	3:47:50 PM	196.4	30.1
5/22/2019	3:47:51 PM	196.2	29.9
5/22/2019	3:47:52 PM	196.0	29.7
5/22/2019	3:47:53 PM	195.8	29.5
5/22/2019	3:47:54 PM	195.6	29.3
5/22/2019	3:47:55 PM	195.5	29.2
5/22/2019	3:47:56 PM	195.3	29.0
5/22/2019	3:47:57 PM	195.1	28.8
5/22/2019	3:47:58 PM	194.9	28.6
5/22/2019	3:47:59 PM	194.7	28.4
5/22/2019	3:48:00 PM	194.5	28.2
5/22/2019	3:48:01 PM	194.3	28.0
5/22/2019	3:48:02 PM	194.1	27.8
5/22/2019	3:48:03 PM	193.9	27.6
5/22/2019	3:48:04 PM	193.7	27.4
5/22/2019	3:48:05 PM	193.6	27.3
5/22/2019	3:48:06 PM	193.3	27.0
5/22/2019	3:48:07 PM	193.2	26.9
5/22/2019	3:48:08 PM	193.1	26.8
5/22/2019	3:48:09 PM	193.0	26.7
5/22/2019	3:48:10 PM	192.9	26.6
5/22/2019	3:48:11 PM	192.8	26.5
5/22/2019	3:48:12 PM	192.8	26.5
5/22/2019	3:48:13 PM	192.7	26.4
5/22/2019	3:48:14 PM	192.6	26.3
5/22/2019	3:48:15 PM	192.5	26.2

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:48:16 PM	192.4	26.1
5/22/2019	3:48:17 PM	192.2	25.9
5/22/2019	3:48:18 PM	192.1	25.8
5/22/2019	3:48:19 PM	191.9	25.6
5/22/2019	3:48:20 PM	191.7	25.4
5/22/2019	3:48:21 PM	191.5	25.2
5/22/2019	3:48:22 PM	191.2	24.9
5/22/2019	3:48:23 PM	191.0	24.7
5/22/2019	3:48:24 PM	190.8	24.5
5/22/2019	3:48:25 PM	190.6	24.3
5/22/2019	3:48:26 PM	190.4	24.1
5/22/2019	3:48:27 PM	190.3	24.0
5/22/2019	3:48:28 PM	190.1	23.8
5/22/2019	3:48:29 PM	190.0	23.7
5/22/2019	3:48:30 PM	189.9	23.6
5/22/2019	3:48:31 PM	189.8	23.5
5/22/2019	3:48:32 PM	189.7	23.4
5/22/2019	3:48:33 PM	189.6	23.3
5/22/2019	3:48:34 PM	189.6	23.3
5/22/2019	3:48:35 PM	189.5	23.2
5/22/2019	3:48:36 PM	189.4	23.1
5/22/2019	3:48:37 PM	189.4	23.1
5/22/2019	3:48:38 PM	189.3	23.0
5/22/2019	3:48:39 PM	189.3	23.0
5/22/2019	3:48:40 PM	189.2	22.9
5/22/2019	3:48:41 PM	189.2	22.9
5/22/2019	3:48:42 PM	189.1	22.8
5/22/2019	3:48:43 PM	189.1	22.8
5/22/2019	3:48:44 PM	189.0	22.7
5/22/2019	3:48:45 PM	189.0	22.7
5/22/2019	3:48:46 PM	189.0	22.7
5/22/2019	3:48:47 PM	189.0	22.7
5/22/2019	3:48:48 PM	189.0	22.7
5/22/2019	3:48:49 PM	188.9	22.6
5/22/2019	3:48:50 PM	188.9	22.6
5/22/2019	3:48:51 PM	188.9	22.6
5/22/2019	3:48:52 PM	188.9	22.6
5/22/2019	3:48:53 PM	189.0	22.7
5/22/2019	3:48:54 PM	189.0	22.7
5/22/2019	3:48:55 PM	189.0	22.7
5/22/2019	3:48:56 PM	189.0	22.7
5/22/2019	3:48:57 PM	189.0	22.7
5/22/2019	3:48:58 PM	189.0	22.7
5/22/2019	3:48:59 PM	189.0	22.7
5/22/2019	3:49:00 PM	188.9	22.6
5/22/2019	3:49:01 PM	188.9	22.6
5/22/2019	3:49:02 PM	188.9	22.6
5/22/2019	3:49:03 PM	188.8	22.5
5/22/2019	3:49:04 PM	188.8	22.5
5/22/2019	3:49:05 PM	188.7	22.4
5/22/2019	3:49:06 PM	188.6	22.3
5/22/2019	3:49:07 PM	188.6	22.3
5/22/2019	3:49:08 PM	188.5	22.2
5/22/2019	3:49:09 PM	188.4	22.1
5/22/2019	3:49:10 PM	188.4	22.1
5/22/2019	3:49:11 PM	188.3	22.0
5/22/2019	3:49:12 PM	188.3	22.0
5/22/2019	3:49:13 PM	188.2	21.9
5/22/2019	3:49:14 PM	188.1	21.8
5/22/2019	3:49:15 PM	188.0	21.7
5/22/2019	3:49:16 PM	187.9	21.6
5/22/2019	3:49:17 PM	187.8	21.5
5/22/2019	3:49:18 PM	187.7	21.4
5/22/2019	3:49:19 PM	187.6	21.3
5/22/2019	3:49:20 PM	187.5	21.2
5/22/2019	3:49:21 PM	187.4	21.1
5/22/2019	3:49:22 PM	187.3	21.0
5/22/2019	3:49:23 PM	187.2	20.9
5/22/2019	3:49:24 PM	187.0	20.7
5/22/2019	3:49:25 PM	186.9	20.6
5/22/2019	3:49:26 PM	186.8	20.5
5/22/2019	3:49:27 PM	186.7	20.4
5/22/2019	3:49:28 PM	186.6	20.3
5/22/2019	3:49:29 PM	186.5	20.2
5/22/2019	3:49:30 PM	186.4	20.1
5/22/2019	3:49:31 PM	186.4	20.1
5/22/2019	3:49:32 PM	186.3	20.0
5/22/2019	3:49:33 PM	186.2	19.9
5/22/2019	3:49:34 PM	186.1	19.8

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:49:35 PM	186.0	19.7
5/22/2019	3:49:36 PM	185.9	19.6
5/22/2019	3:49:37 PM	185.8	19.5
5/22/2019	3:49:38 PM	185.7	19.4
5/22/2019	3:49:39 PM	185.7	19.4
5/22/2019	3:49:40 PM	185.6	19.3
5/22/2019	3:49:41 PM	185.5	19.2
5/22/2019	3:49:42 PM	185.4	19.1
5/22/2019	3:49:43 PM	185.4	19.1
5/22/2019	3:49:44 PM	185.3	19.0
5/22/2019	3:49:45 PM	185.3	19.0
5/22/2019	3:49:46 PM	185.2	18.9
5/22/2019	3:49:47 PM	185.1	18.8
5/22/2019	3:49:48 PM	185.0	18.7
5/22/2019	3:49:49 PM	185.0	18.7
5/22/2019	3:49:50 PM	184.9	18.6
5/22/2019	3:49:51 PM	184.8	18.5
5/22/2019	3:49:52 PM	184.7	18.4
5/22/2019	3:49:53 PM	184.6	18.3
5/22/2019	3:49:54 PM	184.5	18.2
5/22/2019	3:49:55 PM	184.4	18.1
5/22/2019	3:49:56 PM	184.3	18.0
5/22/2019	3:49:57 PM	184.2	17.9
5/22/2019	3:49:58 PM	184.1	17.8
5/22/2019	3:49:59 PM	184.0	17.7
5/22/2019	3:50:00 PM	183.9	17.6
5/22/2019	3:50:01 PM	183.8	17.5
5/22/2019	3:50:02 PM	183.7	17.4
5/22/2019	3:50:03 PM	183.6	17.3
5/22/2019	3:50:04 PM	183.5	17.2
5/22/2019	3:50:05 PM	183.4	17.1
5/22/2019	3:50:06 PM	183.4	17.1
5/22/2019	3:50:07 PM	183.3	17.0
5/22/2019	3:50:08 PM	183.2	16.9
5/22/2019	3:50:09 PM	183.2	16.9
5/22/2019	3:50:10 PM	183.2	16.9
5/22/2019	3:50:11 PM	183.1	16.8
5/22/2019	3:50:12 PM	183.1	16.8
5/22/2019	3:50:13 PM	183.0	16.7
5/22/2019	3:50:14 PM	183.0	16.7
5/22/2019	3:50:15 PM	182.9	16.6
5/22/2019	3:50:16 PM	182.9	16.6
5/22/2019	3:50:17 PM	182.9	16.6
5/22/2019	3:50:18 PM	182.9	16.6
5/22/2019	3:50:19 PM	182.8	16.5
5/22/2019	3:50:20 PM	182.8	16.5
5/22/2019	3:50:21 PM	182.8	16.5
5/22/2019	3:50:22 PM	182.8	16.5
5/22/2019	3:50:23 PM	182.8	16.5
5/22/2019	3:50:24 PM	182.7	16.4
5/22/2019	3:50:25 PM	182.7	16.4
5/22/2019	3:50:26 PM	182.8	16.5
5/22/2019	3:50:27 PM	182.9	16.6
5/22/2019	3:50:28 PM	182.9	16.6
5/22/2019	3:50:29 PM	183.0	16.7
5/22/2019	3:50:30 PM	183.0	16.7
5/22/2019	3:50:31 PM	183.0	16.7
5/22/2019	3:50:32 PM	183.0	16.7
5/22/2019	3:50:33 PM	183.0	16.7
5/22/2019	3:50:34 PM	183.0	16.7
5/22/2019	3:50:35 PM	183.0	16.7
5/22/2019	3:50:36 PM	183.0	16.7
5/22/2019	3:50:37 PM	183.0	16.7
5/22/2019	3:50:38 PM	182.9	16.6
5/22/2019	3:50:39 PM	182.8	16.5
5/22/2019	3:50:40 PM	182.7	16.4
5/22/2019	3:50:41 PM	182.6	16.3
5/22/2019	3:50:42 PM	182.5	16.2
5/22/2019	3:50:43 PM	182.5	16.2
5/22/2019	3:50:44 PM	182.4	16.1
5/22/2019	3:50:45 PM	182.3	16.0
5/22/2019	3:50:46 PM	182.3	16.0
5/22/2019	3:50:47 PM	182.2	15.9
5/22/2019	3:50:48 PM	182.2	15.9
5/22/2019	3:50:49 PM	182.1	15.8
5/22/2019	3:50:50 PM	182.1	15.8
5/22/2019	3:50:51 PM	182.0	15.7
5/22/2019	3:50:52 PM	182.0	15.7
5/22/2019	3:50:53 PM	181.9	15.6

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:50:54 PM	181.9	15.6
5/22/2019	3:50:55 PM	181.8	15.5
5/22/2019	3:50:56 PM	181.8	15.5
5/22/2019	3:50:57 PM	181.7	15.4
5/22/2019	3:50:58 PM	181.7	15.4
5/22/2019	3:50:59 PM	181.7	15.4
5/22/2019	3:51:00 PM	181.6	15.3
5/22/2019	3:51:01 PM	181.5	15.2
5/22/2019	3:51:02 PM	181.5	15.2
5/22/2019	3:51:03 PM	181.5	15.2
5/22/2019	3:51:04 PM	181.4	15.1
5/22/2019	3:51:05 PM	181.4	15.1
5/22/2019	3:51:06 PM	181.3	15.0
5/22/2019	3:51:07 PM	181.3	15.0
5/22/2019	3:51:08 PM	181.2	14.9
5/22/2019	3:51:09 PM	181.2	14.9
5/22/2019	3:51:10 PM	181.1	14.8
5/22/2019	3:51:11 PM	181.0	14.7
5/22/2019	3:51:12 PM	180.9	14.6
5/22/2019	3:51:13 PM	180.9	14.6
5/22/2019	3:51:14 PM	180.8	14.5
5/22/2019	3:51:15 PM	180.7	14.4
5/22/2019	3:51:16 PM	180.7	14.4
5/22/2019	3:51:17 PM	180.6	14.3
5/22/2019	3:51:18 PM	180.5	14.2
5/22/2019	3:51:19 PM	180.5	14.2
5/22/2019	3:51:20 PM	180.5	14.2
5/22/2019	3:51:21 PM	180.4	14.1
5/22/2019	3:51:22 PM	180.4	14.1
5/22/2019	3:51:23 PM	180.4	14.1
5/22/2019	3:51:24 PM	180.4	14.1
5/22/2019	3:51:25 PM	180.4	14.1
5/22/2019	3:51:26 PM	180.4	14.1
5/22/2019	3:51:27 PM	180.4	14.1
5/22/2019	3:51:28 PM	180.4	14.1
5/22/2019	3:51:29 PM	180.4	14.1
5/22/2019	3:51:30 PM	180.4	14.1
5/22/2019	3:51:31 PM	180.4	14.1
5/22/2019	3:51:32 PM	180.4	14.1
5/22/2019	3:51:33 PM	180.4	14.1
5/22/2019	3:51:34 PM	180.3	14.0
5/22/2019	3:51:35 PM	180.3	14.0
5/22/2019	3:51:36 PM	180.2	13.9
5/22/2019	3:51:37 PM	180.2	13.9
5/22/2019	3:51:38 PM	180.1	13.8
5/22/2019	3:51:39 PM	180.0	13.7
5/22/2019	3:51:40 PM	180.0	13.7
5/22/2019	3:51:41 PM	179.9	13.6
5/22/2019	3:51:42 PM	179.9	13.6
5/22/2019	3:51:43 PM	179.9	13.6
5/22/2019	3:51:44 PM	179.8	13.5
5/22/2019	3:51:45 PM	179.8	13.5
5/22/2019	3:51:46 PM	179.8	13.5
5/22/2019	3:51:47 PM	179.7	13.4
5/22/2019	3:51:48 PM	179.7	13.4
5/22/2019	3:51:49 PM	179.7	13.4
5/22/2019	3:51:50 PM	179.7	13.4
5/22/2019	3:51:51 PM	179.7	13.4
5/22/2019	3:51:52 PM	179.7	13.4
5/22/2019	3:51:53 PM	179.7	13.4
5/22/2019	3:51:54 PM	179.6	13.3
5/22/2019	3:51:55 PM	179.6	13.3
5/22/2019	3:51:56 PM	179.6	13.3
5/22/2019	3:51:57 PM	179.5	13.2
5/22/2019	3:51:58 PM	179.5	13.2
5/22/2019	3:51:59 PM	179.5	13.2
5/22/2019	3:52:00 PM	179.4	13.1
5/22/2019	3:52:01 PM	179.4	13.1
5/22/2019	3:52:02 PM	179.3	13.0
5/22/2019	3:52:03 PM	179.3	13.0
5/22/2019	3:52:04 PM	179.3	13.0
5/22/2019	3:52:05 PM	179.2	12.9
5/22/2019	3:52:06 PM	179.2	12.9
5/22/2019	3:52:07 PM	179.2	12.9
5/22/2019	3:52:08 PM	179.2	12.9
5/22/2019	3:52:09 PM	179.2	12.9
5/22/2019	3:52:10 PM	179.1	12.8
5/22/2019	3:52:11 PM	179.1	12.8
5/22/2019	3:52:12 PM	179.1	12.8

Table G1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:52:13 PM	149.3	-17.0
5/22/2019	3:52:14 PM	133.7	-32.6
5/22/2019	3:52:15 PM	68.7	-97.6
5/22/2019	3:52:16 PM	50.6	-115.7
5/22/2019	3:52:17 PM	60.6	-105.7
5/22/2019	3:52:18 PM	168.6	2.3
5/22/2019	3:52:19 PM	177.7	11.4
5/22/2019	3:52:20 PM	178.5	12.2
5/22/2019	3:52:21 PM	178.7	12.4
5/22/2019	3:52:22 PM	178.6	12.3
5/22/2019	3:52:23 PM	178.6	12.3
5/22/2019	3:52:24 PM	178.6	12.3
5/22/2019	3:52:25 PM	178.6	12.3
5/22/2019	3:52:26 PM	178.6	12.3
5/22/2019	3:52:27 PM	178.5	12.2
5/22/2019	3:52:28 PM	178.5	12.2
5/22/2019	3:52:29 PM	178.5	12.2
5/22/2019	3:52:30 PM	178.5	12.2
5/22/2019	3:52:31 PM	178.5	12.2
5/22/2019	3:52:32 PM	178.5	12.2
5/22/2019	3:52:33 PM	178.5	12.2
5/22/2019	3:52:34 PM	178.5	12.2
5/22/2019	3:52:35 PM	178.4	12.1
5/22/2019	3:52:36 PM	178.4	12.1
5/22/2019	3:52:37 PM	178.4	12.1
5/22/2019	3:52:38 PM	178.4	12.1
5/22/2019	3:52:39 PM	178.3	12.0
5/22/2019	3:52:40 PM	178.3	12.0
5/22/2019	3:52:41 PM	178.3	12.0
5/22/2019	3:52:42 PM	178.3	12.0
5/22/2019	3:52:43 PM	178.2	11.9
5/22/2019	3:52:44 PM	178.2	11.9
5/22/2019	3:52:45 PM	178.2	11.9
5/22/2019	3:52:46 PM	178.1	11.8
5/22/2019	3:52:47 PM	178.1	11.8
5/22/2019	3:52:48 PM	178.1	11.8
5/22/2019	3:52:49 PM	178.1	11.8
5/22/2019	3:52:50 PM	178.0	11.7
5/22/2019	3:52:51 PM	178.0	11.7
5/22/2019	3:52:52 PM	178.0	11.7
5/22/2019	3:52:53 PM	178.0	11.7
5/22/2019	3:52:54 PM	178.0	11.7
5/22/2019	3:52:55 PM	178.0	11.7
5/22/2019	3:52:56 PM	178.0	11.7
5/22/2019	3:52:57 PM	178.0	11.7
5/22/2019	3:52:58 PM	178.0	11.7
5/22/2019	3:52:59 PM	178.0	11.7
5/22/2019	3:53:00 PM	177.9	11.6
5/22/2019	3:53:01 PM	177.9	11.6
5/22/2019	3:53:02 PM	177.9	11.6
5/22/2019	3:53:03 PM	177.9	11.6
5/22/2019	3:53:04 PM	177.9	11.6
5/22/2019	3:53:05 PM	177.8	11.5
5/22/2019	3:53:06 PM	177.8	11.5
5/22/2019	3:53:07 PM	177.8	11.5
5/22/2019	3:53:08 PM	177.8	11.5
5/22/2019	3:53:09 PM	177.7	11.4
5/22/2019	3:53:10 PM	177.7	11.4

Table G2 SEEP-B2 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2-TEST-1	1528	151.5	NR
SEEP-B2-TEST-1	1532	165.2	NR
SEEP-B2-TEST-1	1533	167.0	NR
SEEP-B2-TEST-1	1534	166.4	NR
Average		162.5	(µS/cms)
Geometric Mean		162.4	(µS/cms)
Average (pre-test)		59.1	(µS/cms)
Average (post-test)		7.0	(µS/cms)

Table G3 SEEP-B2 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B2-TEST-1	1	29.9	NR
SEEP-B2-TEST-1	10	167	NR
SEEP-B2-TEST-1	100	426	NR
SEEP-B2-TEST-1	1,000	3,329	NR
SEEP-B2-TEST-1	10,000	15,499	NR
SEEP-B2-TEST-1	100,000	127,509	NR

Table G4 SEEP-B2 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,100	mg
Slope of Calibration Curve	K	1.2780	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	494,782.2	(s) . (µS/cms)
Calculated Flow Rate	Q	0.8	L/s
		12.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:55:04 PM	176.6	-
5/22/2019	3:55:05 PM	176.6	-
5/22/2019	3:55:06 PM	176.6	-
5/22/2019	3:55:07 PM	176.6	-
5/22/2019	3:55:08 PM	176.6	-
5/22/2019	3:55:09 PM	176.5	-
5/22/2019	3:55:10 PM	176.5	-
5/22/2019	3:55:11 PM	176.5	-
5/22/2019	3:55:12 PM	176.4	-
5/22/2019	3:55:13 PM	176.4	-
5/22/2019	3:55:14 PM	176.4	-
5/22/2019	3:55:15 PM	176.4	-
5/22/2019	3:55:16 PM	176.3	-
5/22/2019	3:55:17 PM	176.3	-
5/22/2019	3:55:18 PM	176.2	-
5/22/2019	3:55:19 PM	176.2	-
5/22/2019	3:55:20 PM	176.2	-
5/22/2019	3:55:21 PM	176.1	-
5/22/2019	3:55:22 PM	176.1	-
5/22/2019	3:55:23 PM	176.1	-
5/22/2019	3:55:24 PM	176.0	-
5/22/2019	3:55:25 PM	176.0	-
5/22/2019	3:55:26 PM	176.0	-
5/22/2019	3:55:27 PM	175.9	-
5/22/2019	3:55:28 PM	175.9	-
5/22/2019	3:55:29 PM	175.9	-
5/22/2019	3:55:30 PM	175.9	-
5/22/2019	3:55:31 PM	175.8	-
5/22/2019	3:55:32 PM	175.8	-
5/22/2019	3:55:33 PM	175.8	-
5/22/2019	3:55:34 PM	175.8	-
5/22/2019	3:55:35 PM	175.8	-
5/22/2019	3:55:36 PM	175.8	-
5/22/2019	3:55:37 PM	175.7	-
5/22/2019	3:55:38 PM	175.7	-
5/22/2019	3:55:39 PM	175.7	-
5/22/2019	3:55:40 PM	175.7	-
5/22/2019	3:55:41 PM	175.7	-
5/22/2019	3:55:42 PM	175.7	-
5/22/2019	3:55:43 PM	176.0	-
5/22/2019	3:55:44 PM	177.3	-
5/22/2019	3:55:45 PM	236.7	60.6
5/22/2019	3:55:46 PM	250.5	74.4
5/22/2019	3:55:47 PM	341.8	165.7
5/22/2019	3:55:48 PM	371.2	195.1
5/22/2019	3:55:49 PM	556.1	380.0
5/22/2019	3:55:50 PM	723.7	547.6
5/22/2019	3:55:51 PM	1256.5	1080.4
5/22/2019	3:55:52 PM	1733.7	1557.6
5/22/2019	3:55:53 PM	3865.0	3688.9
5/22/2019	3:55:54 PM	4587.4	4411.3
5/22/2019	3:55:55 PM	5372.3	5196.2
5/22/2019	3:55:56 PM	6928.6	6752.5
5/22/2019	3:55:57 PM	7502.4	7326.3
5/22/2019	3:55:58 PM	8592.2	8416.1
5/22/2019	3:55:59 PM	9078.2	8902.1
5/22/2019	3:56:00 PM	9277.1	9101.0
5/22/2019	3:56:01 PM	10020.1	9844.0
5/22/2019	3:56:02 PM	10562.5	10386.4
5/22/2019	3:56:03 PM	10874.5	10698.4
5/22/2019	3:56:04 PM	10916.7	10740.6
5/22/2019	3:56:05 PM	10981.1	10805.0
5/22/2019	3:56:06 PM	10989.8	10813.7
5/22/2019	3:56:07 PM	10993.3	10817.2
5/22/2019	3:56:08 PM	10992.1	10816.0
5/22/2019	3:56:09 PM	10979.2	10803.1
5/22/2019	3:56:10 PM	10956.9	10780.8
5/22/2019	3:56:11 PM	10912.5	10736.4
5/22/2019	3:56:12 PM	10868.6	10692.5
5/22/2019	3:56:13 PM	10184.0	10007.9

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:56:14 PM	9657.0	9480.9
5/22/2019	3:56:15 PM	9499.4	9323.3
5/22/2019	3:56:16 PM	9403.6	9227.5
5/22/2019	3:56:17 PM	9294.9	9118.8
5/22/2019	3:56:18 PM	9179.1	9003.0
5/22/2019	3:56:19 PM	9117.7	8941.6
5/22/2019	3:56:20 PM	9011.1	8835.0
5/22/2019	3:56:21 PM	8958.6	8782.5
5/22/2019	3:56:22 PM	8166.2	7990.1
5/22/2019	3:56:23 PM	7593.3	7417.2
5/22/2019	3:56:24 PM	6996.6	6820.5
5/22/2019	3:56:25 PM	6872.9	6696.8
5/22/2019	3:56:26 PM	6805.0	6628.9
5/22/2019	3:56:27 PM	6669.0	6492.9
5/22/2019	3:56:28 PM	6584.0	6407.9
5/22/2019	3:56:29 PM	6518.4	6342.3
5/22/2019	3:56:30 PM	5840.2	5664.1
5/22/2019	3:56:31 PM	5607.9	5431.8
5/22/2019	3:56:32 PM	5471.4	5295.3
5/22/2019	3:56:33 PM	5354.4	5178.3
5/22/2019	3:56:34 PM	5233.2	5057.1
5/22/2019	3:56:35 PM	4900.8	4724.7
5/22/2019	3:56:36 PM	4750.4	4574.3
5/22/2019	3:56:37 PM	4582.0	4405.9
5/22/2019	3:56:38 PM	4552.9	4376.8
5/22/2019	3:56:39 PM	4357.8	4181.7
5/22/2019	3:56:40 PM	4262.1	4086.0
5/22/2019	3:56:41 PM	4211.6	4035.5
5/22/2019	3:56:42 PM	3818.6	3642.5
5/22/2019	3:56:43 PM	3553.7	3377.6
5/22/2019	3:56:44 PM	3446.9	3270.8
5/22/2019	3:56:45 PM	3381.8	3205.7
5/22/2019	3:56:46 PM	3336.6	3160.5
5/22/2019	3:56:47 PM	3288.2	3112.1
5/22/2019	3:56:48 PM	3250.0	3073.9
5/22/2019	3:56:49 PM	2966.8	2790.7
5/22/2019	3:56:50 PM	2945.6	2769.5
5/22/2019	3:56:51 PM	2920.0	2743.9
5/22/2019	3:56:52 PM	2917.6	2741.5
5/22/2019	3:56:53 PM	2880.6	2704.5
5/22/2019	3:56:54 PM	2837.7	2661.6
5/22/2019	3:56:55 PM	2556.3	2380.2
5/22/2019	3:56:56 PM	2463.3	2287.2
5/22/2019	3:56:57 PM	2445.9	2269.8
5/22/2019	3:56:58 PM	2428.3	2252.2
5/22/2019	3:56:59 PM	2408.8	2232.7
5/22/2019	3:57:00 PM	2399.2	2223.1
5/22/2019	3:57:01 PM	2376.7	2200.6
5/22/2019	3:57:02 PM	2146.1	1970.0
5/22/2019	3:57:03 PM	2107.5	1931.4
5/22/2019	3:57:04 PM	2086.4	1910.3
5/22/2019	3:57:05 PM	2078.7	1902.6
5/22/2019	3:57:06 PM	2024.8	1848.7
5/22/2019	3:57:07 PM	2000.3	1824.2
5/22/2019	3:57:08 PM	1975.8	1799.7
5/22/2019	3:57:09 PM	1849.3	1673.2
5/22/2019	3:57:10 PM	1782.5	1606.4
5/22/2019	3:57:11 PM	1719.3	1543.2
5/22/2019	3:57:12 PM	1695.8	1519.7
5/22/2019	3:57:13 PM	1668.1	1492.0
5/22/2019	3:57:14 PM	1641.7	1465.6
5/22/2019	3:57:15 PM	1625.4	1449.3
5/22/2019	3:57:16 PM	1615.5	1439.4
5/22/2019	3:57:17 PM	1604.8	1428.7
5/22/2019	3:57:18 PM	1597.2	1421.1
5/22/2019	3:57:19 PM	1588.1	1412.0
5/22/2019	3:57:20 PM	1464.0	1287.9
5/22/2019	3:57:21 PM	1447.3	1271.2
5/22/2019	3:57:22 PM	1437.8	1261.7
5/22/2019	3:57:23 PM	1433.8	1257.7
5/22/2019	3:57:24 PM	1423.7	1247.6
5/22/2019	3:57:25 PM	1408.5	1232.4
5/22/2019	3:57:26 PM	1318.9	1142.8
5/22/2019	3:57:27 PM	1302.3	1126.2
5/22/2019	3:57:28 PM	1277.6	1101.5
5/22/2019	3:57:29 PM	1251.0	1074.9
5/22/2019	3:57:30 PM	1248.5	1072.4

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:57:31 PM	1240.8	1064.7
5/22/2019	3:57:32 PM	1225.6	1049.5
5/22/2019	3:57:33 PM	1214.9	1038.8
5/22/2019	3:57:34 PM	1205.7	1029.6
5/22/2019	3:57:35 PM	1124.7	948.6
5/22/2019	3:57:36 PM	1109.0	932.9
5/22/2019	3:57:37 PM	1104.2	928.1
5/22/2019	3:57:38 PM	1092.4	916.3
5/22/2019	3:57:39 PM	1069.2	893.1
5/22/2019	3:57:40 PM	1054.3	878.2
5/22/2019	3:57:41 PM	1046.9	870.8
5/22/2019	3:57:42 PM	1038.2	862.1
5/22/2019	3:57:43 PM	1031.6	855.5
5/22/2019	3:57:44 PM	954.4	778.3
5/22/2019	3:57:45 PM	923.0	746.9
5/22/2019	3:57:46 PM	909.3	733.2
5/22/2019	3:57:47 PM	893.6	717.5
5/22/2019	3:57:48 PM	870.7	694.6
5/22/2019	3:57:49 PM	852.6	676.5
5/22/2019	3:57:50 PM	844.1	668.0
5/22/2019	3:57:51 PM	836.7	660.6
5/22/2019	3:57:52 PM	831.8	655.7
5/22/2019	3:57:53 PM	825.8	649.7
5/22/2019	3:57:54 PM	820.9	644.8
5/22/2019	3:57:55 PM	816.4	640.3
5/22/2019	3:57:56 PM	813.1	637.0
5/22/2019	3:57:57 PM	731.1	555.0
5/22/2019	3:57:58 PM	694.6	518.5
5/22/2019	3:57:59 PM	674.0	497.9
5/22/2019	3:58:00 PM	672.2	496.1
5/22/2019	3:58:01 PM	666.7	490.6
5/22/2019	3:58:02 PM	656.1	480.0
5/22/2019	3:58:03 PM	650.3	474.2
5/22/2019	3:58:04 PM	581.3	405.2
5/22/2019	3:58:05 PM	584.1	408.0
5/22/2019	3:58:06 PM	575.2	399.1
5/22/2019	3:58:07 PM	573.9	397.8
5/22/2019	3:58:08 PM	570.9	394.8
5/22/2019	3:58:09 PM	567.0	390.9
5/22/2019	3:58:10 PM	562.7	386.6
5/22/2019	3:58:11 PM	559.5	383.4
5/22/2019	3:58:12 PM	556.4	380.3
5/22/2019	3:58:13 PM	554.1	378.0
5/22/2019	3:58:14 PM	551.7	375.6
5/22/2019	3:58:15 PM	549.0	372.9
5/22/2019	3:58:16 PM	545.3	369.2
5/22/2019	3:58:17 PM	542.0	365.9
5/22/2019	3:58:18 PM	538.4	362.3
5/22/2019	3:58:19 PM	494.9	318.8
5/22/2019	3:58:20 PM	487.6	311.5
5/22/2019	3:58:21 PM	484.1	308.0
5/22/2019	3:58:22 PM	481.4	305.3
5/22/2019	3:58:23 PM	478.0	301.9
5/22/2019	3:58:24 PM	473.8	297.7
5/22/2019	3:58:25 PM	470.8	294.7
5/22/2019	3:58:26 PM	468.0	291.9
5/22/2019	3:58:27 PM	464.8	288.7
5/22/2019	3:58:28 PM	462.3	286.2
5/22/2019	3:58:29 PM	459.4	283.3
5/22/2019	3:58:30 PM	457.0	280.9
5/22/2019	3:58:31 PM	454.2	278.1
5/22/2019	3:58:32 PM	452.0	275.9
5/22/2019	3:58:33 PM	449.8	273.7
5/22/2019	3:58:34 PM	448.1	272.0
5/22/2019	3:58:35 PM	444.4	268.3
5/22/2019	3:58:36 PM	440.7	264.6
5/22/2019	3:58:37 PM	436.8	260.7
5/22/2019	3:58:38 PM	433.7	257.6
5/22/2019	3:58:39 PM	430.7	254.6
5/22/2019	3:58:40 PM	428.4	252.3
5/22/2019	3:58:41 PM	426.1	250.0
5/22/2019	3:58:42 PM	424.3	248.2
5/22/2019	3:58:43 PM	423.2	247.1
5/22/2019	3:58:44 PM	422.2	246.1
5/22/2019	3:58:45 PM	421.4	245.3
5/22/2019	3:58:46 PM	420.7	244.6
5/22/2019	3:58:47 PM	420.1	244.0
5/22/2019	3:58:48 PM	419.6	243.5
5/22/2019	3:58:49 PM	419.2	243.1

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	3:58:50 PM	418.6	242.5
5/22/2019	3:58:51 PM	418.0	241.9
5/22/2019	3:58:52 PM	417.2	241.1
5/22/2019	3:58:53 PM	416.4	240.3
5/22/2019	3:58:54 PM	415.3	239.2
5/22/2019	3:58:55 PM	414.1	238.0
5/22/2019	3:58:56 PM	412.6	236.5
5/22/2019	3:58:57 PM	411.2	235.1
5/22/2019	3:58:58 PM	409.3	233.2
5/22/2019	3:58:59 PM	407.4	231.3
5/22/2019	3:59:00 PM	405.0	228.9
5/22/2019	3:59:01 PM	403.1	227.0
5/22/2019	3:59:02 PM	400.2	224.1
5/22/2019	3:59:03 PM	397.6	221.5
5/22/2019	3:59:04 PM	395.3	219.2
5/22/2019	3:59:05 PM	392.5	216.4
5/22/2019	3:59:06 PM	390.1	214.0
5/22/2019	3:59:07 PM	387.1	211.0
5/22/2019	3:59:08 PM	384.4	208.3
5/22/2019	3:59:09 PM	381.1	205.0
5/22/2019	3:59:10 PM	378.3	202.2
5/22/2019	3:59:11 PM	375.3	199.2
5/22/2019	3:59:12 PM	372.6	196.5
5/22/2019	3:59:13 PM	369.8	193.7
5/22/2019	3:59:14 PM	367.3	191.2
5/22/2019	3:59:15 PM	364.4	188.3
5/22/2019	3:59:16 PM	361.7	185.6
5/22/2019	3:59:17 PM	358.3	182.2
5/22/2019	3:59:18 PM	356.5	180.4
5/22/2019	3:59:19 PM	353.9	177.8
5/22/2019	3:59:20 PM	351.3	175.2
5/22/2019	3:59:21 PM	349.7	173.6
5/22/2019	3:59:22 PM	347.3	171.2
5/22/2019	3:59:23 PM	345.6	169.5
5/22/2019	3:59:24 PM	343.3	167.2
5/22/2019	3:59:25 PM	341.3	165.2
5/22/2019	3:59:26 PM	339.0	162.9
5/22/2019	3:59:27 PM	336.6	160.5
5/22/2019	3:59:28 PM	335.1	159.0
5/22/2019	3:59:29 PM	332.9	156.8
5/22/2019	3:59:30 PM	331.5	155.4
5/22/2019	3:59:31 PM	329.2	153.1
5/22/2019	3:59:32 PM	327.7	151.6
5/22/2019	3:59:33 PM	325.4	149.3
5/22/2019	3:59:34 PM	323.8	147.7
5/22/2019	3:59:35 PM	322.2	146.1
5/22/2019	3:59:36 PM	320.1	144.0
5/22/2019	3:59:37 PM	319.0	142.9
5/22/2019	3:59:38 PM	317.2	141.1
5/22/2019	3:59:39 PM	315.9	139.8
5/22/2019	3:59:40 PM	314.8	138.7
5/22/2019	3:59:41 PM	313.2	137.1
5/22/2019	3:59:42 PM	312.4	136.3
5/22/2019	3:59:43 PM	310.7	134.6
5/22/2019	3:59:44 PM	309.6	133.5
5/22/2019	3:59:45 PM	308.2	132.1
5/22/2019	3:59:46 PM	307.1	131.0
5/22/2019	3:59:47 PM	305.8	129.7
5/22/2019	3:59:48 PM	304.5	128.4
5/22/2019	3:59:49 PM	303.6	127.5
5/22/2019	3:59:50 PM	302.3	126.2
5/22/2019	3:59:51 PM	301.4	125.3
5/22/2019	3:59:52 PM	300.2	124.1
5/22/2019	3:59:53 PM	298.4	122.3
5/22/2019	3:59:54 PM	297.5	121.4
5/22/2019	3:59:55 PM	296.0	119.9
5/22/2019	3:59:56 PM	294.4	118.3
5/22/2019	3:59:57 PM	293.3	117.2
5/22/2019	3:59:58 PM	292.3	116.2
5/22/2019	3:59:59 PM	291.2	115.1
5/22/2019	4:00:00 PM	289.6	113.5
5/22/2019	4:00:01 PM	288.8	112.7
5/22/2019	4:00:02 PM	287.2	111.1
5/22/2019	4:00:03 PM	286.0	109.9
5/22/2019	4:00:04 PM	284.8	108.7
5/22/2019	4:00:05 PM	283.8	107.7
5/22/2019	4:00:06 PM	282.8	106.7
5/22/2019	4:00:07 PM	282.0	105.9
5/22/2019	4:00:08 PM	281.0	104.9

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:00:09 PM	280.1	104.0
5/22/2019	4:00:10 PM	279.0	102.9
5/22/2019	4:00:11 PM	278.1	102.0
5/22/2019	4:00:12 PM	277.4	101.3
5/22/2019	4:00:13 PM	276.3	100.2
5/22/2019	4:00:14 PM	275.5	99.4
5/22/2019	4:00:15 PM	274.3	98.2
5/22/2019	4:00:16 PM	273.5	97.4
5/22/2019	4:00:17 PM	272.2	96.1
5/22/2019	4:00:18 PM	271.6	95.5
5/22/2019	4:00:19 PM	270.7	94.6
5/22/2019	4:00:20 PM	269.7	93.6
5/22/2019	4:00:21 PM	269.1	93.0
5/22/2019	4:00:22 PM	268.3	92.2
5/22/2019	4:00:23 PM	267.7	91.6
5/22/2019	4:00:24 PM	266.8	90.7
5/22/2019	4:00:25 PM	266.1	90.0
5/22/2019	4:00:26 PM	265.6	89.5
5/22/2019	4:00:27 PM	264.8	88.7
5/22/2019	4:00:28 PM	264.3	88.2
5/22/2019	4:00:29 PM	263.8	87.7
5/22/2019	4:00:30 PM	263.2	87.1
5/22/2019	4:00:31 PM	262.9	86.8
5/22/2019	4:00:32 PM	262.4	86.3
5/22/2019	4:00:33 PM	262.0	85.9
5/22/2019	4:00:34 PM	261.7	85.6
5/22/2019	4:00:35 PM	261.2	85.1
5/22/2019	4:00:36 PM	261.0	84.9
5/22/2019	4:00:37 PM	260.6	84.5
5/22/2019	4:00:38 PM	260.3	84.2
5/22/2019	4:00:39 PM	259.9	83.8
5/22/2019	4:00:40 PM	259.5	83.4
5/22/2019	4:00:41 PM	259.3	83.2
5/22/2019	4:00:42 PM	258.7	82.6
5/22/2019	4:00:43 PM	258.5	82.4
5/22/2019	4:00:44 PM	258.0	81.9
5/22/2019	4:00:45 PM	257.6	81.5
5/22/2019	4:00:46 PM	257.2	81.1
5/22/2019	4:00:47 PM	256.8	80.7
5/22/2019	4:00:48 PM	256.5	80.4
5/22/2019	4:00:49 PM	256.0	79.9
5/22/2019	4:00:50 PM	255.5	79.4
5/22/2019	4:00:51 PM	254.9	78.8
5/22/2019	4:00:52 PM	254.3	78.2
5/22/2019	4:00:53 PM	253.8	77.7
5/22/2019	4:00:54 PM	253.1	77.0
5/22/2019	4:00:55 PM	252.6	76.5
5/22/2019	4:00:56 PM	252.1	76.0
5/22/2019	4:00:57 PM	251.4	75.3
5/22/2019	4:00:58 PM	251.1	75.0
5/22/2019	4:00:59 PM	250.6	74.5
5/22/2019	4:01:00 PM	250.2	74.1
5/22/2019	4:01:01 PM	250.0	73.9
5/22/2019	4:01:02 PM	249.8	73.7
5/22/2019	4:01:03 PM	249.7	73.6
5/22/2019	4:01:04 PM	249.7	73.6
5/22/2019	4:01:05 PM	249.7	73.6
5/22/2019	4:01:06 PM	249.8	73.7
5/22/2019	4:01:07 PM	249.9	73.8
5/22/2019	4:01:08 PM	250.1	74.0
5/22/2019	4:01:09 PM	250.1	74.0
5/22/2019	4:01:10 PM	250.2	74.1
5/22/2019	4:01:11 PM	250.1	74.0
5/22/2019	4:01:12 PM	250.0	73.9
5/22/2019	4:01:13 PM	249.8	73.7
5/22/2019	4:01:14 PM	249.4	73.3
5/22/2019	4:01:15 PM	249.1	73.0
5/22/2019	4:01:16 PM	248.5	72.4
5/22/2019	4:01:17 PM	248.0	71.9
5/22/2019	4:01:18 PM	247.5	71.4
5/22/2019	4:01:19 PM	246.9	70.8
5/22/2019	4:01:20 PM	246.2	70.1
5/22/2019	4:01:21 PM	245.7	69.6
5/22/2019	4:01:22 PM	244.5	68.4
5/22/2019	4:01:23 PM	243.6	67.5
5/22/2019	4:01:24 PM	242.9	66.8
5/22/2019	4:01:25 PM	241.6	65.5
5/22/2019	4:01:26 PM	240.9	64.8
5/22/2019	4:01:27 PM	239.8	63.7

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:01:28 PM	238.8	62.7
5/22/2019	4:01:29 PM	238.2	62.1
5/22/2019	4:01:30 PM	236.8	60.7
5/22/2019	4:01:31 PM	235.8	59.7
5/22/2019	4:01:32 PM	235.0	58.9
5/22/2019	4:01:33 PM	233.9	57.8
5/22/2019	4:01:34 PM	233.0	56.9
5/22/2019	4:01:35 PM	232.4	56.3
5/22/2019	4:01:36 PM	231.6	55.5
5/22/2019	4:01:37 PM	230.9	54.8
5/22/2019	4:01:38 PM	230.5	54.4
5/22/2019	4:01:39 PM	229.6	53.5
5/22/2019	4:01:40 PM	229.0	52.9
5/22/2019	4:01:41 PM	228.5	52.4
5/22/2019	4:01:42 PM	227.9	51.8
5/22/2019	4:01:43 PM	227.5	51.4
5/22/2019	4:01:44 PM	226.9	50.8
5/22/2019	4:01:45 PM	226.5	50.4
5/22/2019	4:01:46 PM	226.0	49.9
5/22/2019	4:01:47 PM	225.2	49.1
5/22/2019	4:01:48 PM	224.9	48.8
5/22/2019	4:01:49 PM	224.3	48.2
5/22/2019	4:01:50 PM	223.7	47.6
5/22/2019	4:01:51 PM	223.1	47.0
5/22/2019	4:01:52 PM	222.8	46.7
5/22/2019	4:01:53 PM	222.2	46.1
5/22/2019	4:01:54 PM	221.9	45.8
5/22/2019	4:01:55 PM	221.5	45.4
5/22/2019	4:01:56 PM	221.0	44.9
5/22/2019	4:01:57 PM	220.7	44.6
5/22/2019	4:01:58 PM	220.4	44.3
5/22/2019	4:01:59 PM	220.1	44.0
5/22/2019	4:02:00 PM	219.8	43.7
5/22/2019	4:02:01 PM	219.6	43.5
5/22/2019	4:02:02 PM	219.3	43.2
5/22/2019	4:02:03 PM	219.2	43.1
5/22/2019	4:02:04 PM	218.9	42.8
5/22/2019	4:02:05 PM	218.7	42.6
5/22/2019	4:02:06 PM	218.5	42.4
5/22/2019	4:02:07 PM	218.3	42.2
5/22/2019	4:02:08 PM	218.1	42.0
5/22/2019	4:02:09 PM	217.9	41.8
5/22/2019	4:02:10 PM	217.8	41.7
5/22/2019	4:02:11 PM	217.5	41.4
5/22/2019	4:02:12 PM	217.3	41.2
5/22/2019	4:02:13 PM	217.0	40.9
5/22/2019	4:02:14 PM	216.7	40.6
5/22/2019	4:02:15 PM	216.4	40.3
5/22/2019	4:02:16 PM	216.2	40.1
5/22/2019	4:02:17 PM	215.9	39.8
5/22/2019	4:02:18 PM	215.7	39.6
5/22/2019	4:02:19 PM	215.3	39.2
5/22/2019	4:02:20 PM	215.0	38.9
5/22/2019	4:02:21 PM	214.8	38.7
5/22/2019	4:02:22 PM	214.4	38.3
5/22/2019	4:02:23 PM	214.2	38.1
5/22/2019	4:02:24 PM	213.9	37.8
5/22/2019	4:02:25 PM	213.7	37.6
5/22/2019	4:02:26 PM	213.4	37.3
5/22/2019	4:02:27 PM	213.1	37.0
5/22/2019	4:02:28 PM	212.8	36.7
5/22/2019	4:02:29 PM	212.6	36.5
5/22/2019	4:02:30 PM	212.3	36.2
5/22/2019	4:02:31 PM	212.1	36.0
5/22/2019	4:02:32 PM	211.9	35.8
5/22/2019	4:02:33 PM	211.7	35.6
5/22/2019	4:02:34 PM	211.4	35.3
5/22/2019	4:02:35 PM	211.1	35.0
5/22/2019	4:02:36 PM	210.9	34.8
5/22/2019	4:02:37 PM	210.6	34.5
5/22/2019	4:02:38 PM	210.4	34.3
5/22/2019	4:02:39 PM	210.3	34.2
5/22/2019	4:02:40 PM	210.1	34.0
5/22/2019	4:02:41 PM	209.9	33.8
5/22/2019	4:02:42 PM	209.7	33.6
5/22/2019	4:02:43 PM	209.4	33.3
5/22/2019	4:02:44 PM	209.2	33.1
5/22/2019	4:02:45 PM	209.0	32.9
5/22/2019	4:02:46 PM	208.7	32.6

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:02:47 PM	208.5	32.4
5/22/2019	4:02:48 PM	208.3	32.2
5/22/2019	4:02:49 PM	208.0	31.9
5/22/2019	4:02:50 PM	207.8	31.7
5/22/2019	4:02:51 PM	207.6	31.5
5/22/2019	4:02:52 PM	207.4	31.3
5/22/2019	4:02:53 PM	207.1	31.0
5/22/2019	4:02:54 PM	207.0	30.9
5/22/2019	4:02:55 PM	206.8	30.7
5/22/2019	4:02:56 PM	206.6	30.5
5/22/2019	4:02:57 PM	206.4	30.3
5/22/2019	4:02:58 PM	206.2	30.1
5/22/2019	4:02:59 PM	206.0	29.9
5/22/2019	4:03:00 PM	205.8	29.7
5/22/2019	4:03:01 PM	205.5	29.4
5/22/2019	4:03:02 PM	205.3	29.2
5/22/2019	4:03:03 PM	205.1	29.0
5/22/2019	4:03:04 PM	204.9	28.8
5/22/2019	4:03:05 PM	204.7	28.6
5/22/2019	4:03:06 PM	204.5	28.4
5/22/2019	4:03:07 PM	204.2	28.1
5/22/2019	4:03:08 PM	204.0	27.9
5/22/2019	4:03:09 PM	203.9	27.8
5/22/2019	4:03:10 PM	203.6	27.5
5/22/2019	4:03:11 PM	203.5	27.4
5/22/2019	4:03:12 PM	203.4	27.3
5/22/2019	4:03:13 PM	203.2	27.1
5/22/2019	4:03:14 PM	203.1	27.0
5/22/2019	4:03:15 PM	203.0	26.9
5/22/2019	4:03:16 PM	202.9	26.8
5/22/2019	4:03:17 PM	202.8	26.7
5/22/2019	4:03:18 PM	202.7	26.6
5/22/2019	4:03:19 PM	202.7	26.6
5/22/2019	4:03:20 PM	202.5	26.4
5/22/2019	4:03:21 PM	202.5	26.4
5/22/2019	4:03:22 PM	202.4	26.3
5/22/2019	4:03:23 PM	202.2	26.1
5/22/2019	4:03:24 PM	202.1	26.0
5/22/2019	4:03:25 PM	202.1	26.0
5/22/2019	4:03:26 PM	201.9	25.8
5/22/2019	4:03:27 PM	201.9	25.8
5/22/2019	4:03:28 PM	201.8	25.7
5/22/2019	4:03:29 PM	201.7	25.6
5/22/2019	4:03:30 PM	201.6	25.5
5/22/2019	4:03:31 PM	201.5	25.4
5/22/2019	4:03:32 PM	201.5	25.4
5/22/2019	4:03:33 PM	201.4	25.3
5/22/2019	4:03:34 PM	201.3	25.2
5/22/2019	4:03:35 PM	201.3	25.2
5/22/2019	4:03:36 PM	201.2	25.1
5/22/2019	4:03:37 PM	201.2	25.1
5/22/2019	4:03:38 PM	201.1	25.0
5/22/2019	4:03:39 PM	201.0	24.9
5/22/2019	4:03:40 PM	200.9	24.8
5/22/2019	4:03:41 PM	200.9	24.8
5/22/2019	4:03:42 PM	200.7	24.6
5/22/2019	4:03:43 PM	200.6	24.5
5/22/2019	4:03:44 PM	200.6	24.5
5/22/2019	4:03:45 PM	200.4	24.3
5/22/2019	4:03:46 PM	200.3	24.2
5/22/2019	4:03:47 PM	200.2	24.1
5/22/2019	4:03:48 PM	200.0	23.9
5/22/2019	4:03:49 PM	199.9	23.8
5/22/2019	4:03:50 PM	199.8	23.7
5/22/2019	4:03:51 PM	199.6	23.5
5/22/2019	4:03:52 PM	199.5	23.4
5/22/2019	4:03:53 PM	199.4	23.3
5/22/2019	4:03:54 PM	199.2	23.1
5/22/2019	4:03:55 PM	199.1	23.0
5/22/2019	4:03:56 PM	199.0	22.9
5/22/2019	4:03:57 PM	198.8	22.7
5/22/2019	4:03:58 PM	198.7	22.6
5/22/2019	4:03:59 PM	198.6	22.5
5/22/2019	4:04:00 PM	198.5	22.4
5/22/2019	4:04:01 PM	198.4	22.3
5/22/2019	4:04:02 PM	198.4	22.3
5/22/2019	4:04:03 PM	198.3	22.2
5/22/2019	4:04:04 PM	198.2	22.1
5/22/2019	4:04:05 PM	198.1	22.0

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:04:06 PM	198.0	21.9
5/22/2019	4:04:07 PM	197.9	21.8
5/22/2019	4:04:08 PM	197.8	21.7
5/22/2019	4:04:09 PM	197.7	21.6
5/22/2019	4:04:10 PM	197.6	21.5
5/22/2019	4:04:11 PM	197.5	21.4
5/22/2019	4:04:12 PM	197.4	21.3
5/22/2019	4:04:13 PM	197.3	21.2
5/22/2019	4:04:14 PM	197.2	21.1
5/22/2019	4:04:15 PM	197.2	21.1
5/22/2019	4:04:16 PM	197.1	21.0
5/22/2019	4:04:17 PM	197.0	20.9
5/22/2019	4:04:18 PM	196.9	20.8
5/22/2019	4:04:19 PM	196.8	20.7
5/22/2019	4:04:20 PM	196.7	20.6
5/22/2019	4:04:21 PM	196.6	20.5
5/22/2019	4:04:22 PM	196.6	20.5
5/22/2019	4:04:23 PM	196.4	20.3
5/22/2019	4:04:24 PM	196.4	20.3
5/22/2019	4:04:25 PM	196.3	20.2
5/22/2019	4:04:26 PM	196.2	20.1
5/22/2019	4:04:27 PM	196.1	20.0
5/22/2019	4:04:28 PM	196.1	20.0
5/22/2019	4:04:29 PM	196.0	19.9
5/22/2019	4:04:30 PM	196.0	19.9
5/22/2019	4:04:31 PM	196.0	19.9
5/22/2019	4:04:32 PM	195.9	19.8
5/22/2019	4:04:33 PM	195.9	19.8
5/22/2019	4:04:34 PM	195.9	19.8
5/22/2019	4:04:35 PM	195.9	19.8
5/22/2019	4:04:36 PM	195.9	19.8
5/22/2019	4:04:37 PM	195.9	19.8
5/22/2019	4:04:38 PM	195.9	19.8
5/22/2019	4:04:39 PM	195.9	19.8
5/22/2019	4:04:40 PM	196.0	19.9
5/22/2019	4:04:41 PM	196.0	19.9
5/22/2019	4:04:42 PM	195.9	19.8
5/22/2019	4:04:43 PM	195.9	19.8
5/22/2019	4:04:44 PM	195.9	19.8
5/22/2019	4:04:45 PM	195.8	19.7
5/22/2019	4:04:46 PM	195.8	19.7
5/22/2019	4:04:47 PM	195.7	19.6
5/22/2019	4:04:48 PM	195.6	19.5
5/22/2019	4:04:49 PM	195.5	19.4
5/22/2019	4:04:50 PM	195.4	19.3
5/22/2019	4:04:51 PM	195.3	19.2
5/22/2019	4:04:52 PM	195.2	19.1
5/22/2019	4:04:53 PM	195.1	19.0
5/22/2019	4:04:54 PM	195.0	18.9
5/22/2019	4:04:55 PM	194.9	18.8
5/22/2019	4:04:56 PM	194.8	18.7
5/22/2019	4:04:57 PM	194.8	18.7
5/22/2019	4:04:58 PM	194.7	18.6
5/22/2019	4:04:59 PM	194.7	18.6
5/22/2019	4:05:00 PM	194.6	18.5
5/22/2019	4:05:01 PM	194.6	18.5
5/22/2019	4:05:02 PM	194.6	18.5
5/22/2019	4:05:03 PM	194.5	18.4
5/22/2019	4:05:04 PM	194.5	18.4
5/22/2019	4:05:05 PM	194.5	18.4
5/22/2019	4:05:06 PM	194.5	18.4
5/22/2019	4:05:07 PM	194.4	18.3
5/22/2019	4:05:08 PM	194.4	18.3
5/22/2019	4:05:09 PM	194.3	18.2
5/22/2019	4:05:10 PM	194.3	18.2
5/22/2019	4:05:11 PM	194.3	18.2
5/22/2019	4:05:12 PM	194.2	18.1
5/22/2019	4:05:13 PM	194.2	18.1
5/22/2019	4:05:14 PM	194.1	18.0
5/22/2019	4:05:15 PM	194.1	18.0
5/22/2019	4:05:16 PM	194.1	18.0
5/22/2019	4:05:17 PM	194.0	17.9
5/22/2019	4:05:18 PM	194.0	17.9
5/22/2019	4:05:19 PM	194.0	17.9
5/22/2019	4:05:20 PM	194.0	17.9
5/22/2019	4:05:21 PM	193.9	17.8
5/22/2019	4:05:22 PM	193.9	17.8
5/22/2019	4:05:23 PM	193.9	17.8
5/22/2019	4:05:24 PM	193.9	17.8

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:05:25 PM	193.9	17.8
5/22/2019	4:05:26 PM	193.8	17.7
5/22/2019	4:05:27 PM	193.8	17.7
5/22/2019	4:05:28 PM	193.8	17.7
5/22/2019	4:05:29 PM	193.7	17.6
5/22/2019	4:05:30 PM	193.7	17.6
5/22/2019	4:05:31 PM	193.6	17.5
5/22/2019	4:05:32 PM	193.6	17.5
5/22/2019	4:05:33 PM	193.5	17.4
5/22/2019	4:05:34 PM	193.5	17.4
5/22/2019	4:05:35 PM	193.4	17.3
5/22/2019	4:05:36 PM	193.3	17.2
5/22/2019	4:05:37 PM	193.3	17.2
5/22/2019	4:05:38 PM	193.2	17.1
5/22/2019	4:05:39 PM	193.1	17.0
5/22/2019	4:05:40 PM	193.0	16.9
5/22/2019	4:05:41 PM	192.9	16.8
5/22/2019	4:05:42 PM	192.8	16.7
5/22/2019	4:05:43 PM	192.7	16.6
5/22/2019	4:05:44 PM	192.6	16.5
5/22/2019	4:05:45 PM	192.4	16.3
5/22/2019	4:05:46 PM	192.3	16.2
5/22/2019	4:05:47 PM	192.2	16.1
5/22/2019	4:05:48 PM	192.1	16.0
5/22/2019	4:05:49 PM	192.0	15.9
5/22/2019	4:05:50 PM	191.9	15.8
5/22/2019	4:05:51 PM	191.8	15.7
5/22/2019	4:05:52 PM	191.7	15.6
5/22/2019	4:05:53 PM	191.7	15.6
5/22/2019	4:05:54 PM	191.6	15.5
5/22/2019	4:05:55 PM	191.6	15.5
5/22/2019	4:05:56 PM	191.5	15.4
5/22/2019	4:05:57 PM	191.5	15.4
5/22/2019	4:05:58 PM	191.4	15.3
5/22/2019	4:05:59 PM	191.4	15.3
5/22/2019	4:06:00 PM	191.4	15.3
5/22/2019	4:06:01 PM	191.3	15.2
5/22/2019	4:06:02 PM	191.3	15.2
5/22/2019	4:06:03 PM	191.3	15.2
5/22/2019	4:06:04 PM	191.2	15.1
5/22/2019	4:06:05 PM	191.2	15.1
5/22/2019	4:06:06 PM	191.2	15.1
5/22/2019	4:06:07 PM	191.1	15.0
5/22/2019	4:06:08 PM	191.1	15.0
5/22/2019	4:06:09 PM	191.1	15.0
5/22/2019	4:06:10 PM	191.1	15.0
5/22/2019	4:06:11 PM	191.0	14.9
5/22/2019	4:06:12 PM	191.0	14.9
5/22/2019	4:06:13 PM	191.0	14.9
5/22/2019	4:06:14 PM	190.9	14.8
5/22/2019	4:06:15 PM	190.9	14.8
5/22/2019	4:06:16 PM	190.9	14.8
5/22/2019	4:06:17 PM	190.8	14.7
5/22/2019	4:06:18 PM	190.8	14.7
5/22/2019	4:06:19 PM	190.8	14.7
5/22/2019	4:06:20 PM	190.7	14.6
5/22/2019	4:06:21 PM	190.7	14.6
5/22/2019	4:06:22 PM	190.6	14.5
5/22/2019	4:06:23 PM	190.6	14.5
5/22/2019	4:06:24 PM	190.5	14.4
5/22/2019	4:06:25 PM	190.5	14.4
5/22/2019	4:06:26 PM	190.5	14.4
5/22/2019	4:06:27 PM	190.4	14.3
5/22/2019	4:06:28 PM	190.4	14.3
5/22/2019	4:06:29 PM	190.4	14.3
5/22/2019	4:06:30 PM	190.3	14.2
5/22/2019	4:06:31 PM	190.3	14.2
5/22/2019	4:06:32 PM	190.3	14.2
5/22/2019	4:06:33 PM	190.2	14.1
5/22/2019	4:06:34 PM	190.2	14.1
5/22/2019	4:06:35 PM	190.2	14.1
5/22/2019	4:06:36 PM	190.1	14.0
5/22/2019	4:06:37 PM	190.1	14.0
5/22/2019	4:06:38 PM	190.0	13.9
5/22/2019	4:06:39 PM	190.0	13.9
5/22/2019	4:06:40 PM	189.9	13.8
5/22/2019	4:06:41 PM	189.9	13.8
5/22/2019	4:06:42 PM	189.8	13.7
5/22/2019	4:06:43 PM	189.7	13.6

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:06:44 PM	189.7	13.6
5/22/2019	4:06:45 PM	189.6	13.5
5/22/2019	4:06:46 PM	189.5	13.4
5/22/2019	4:06:47 PM	189.5	13.4
5/22/2019	4:06:48 PM	189.4	13.3
5/22/2019	4:06:49 PM	189.3	13.2
5/22/2019	4:06:50 PM	189.3	13.2
5/22/2019	4:06:51 PM	189.3	13.2
5/22/2019	4:06:52 PM	189.2	13.1
5/22/2019	4:06:53 PM	189.2	13.1
5/22/2019	4:06:54 PM	189.1	13.0
5/22/2019	4:06:55 PM	189.1	13.0
5/22/2019	4:06:56 PM	189.0	12.9
5/22/2019	4:06:57 PM	189.0	12.9
5/22/2019	4:06:58 PM	188.9	12.8
5/22/2019	4:06:59 PM	188.9	12.8
5/22/2019	4:07:00 PM	188.9	12.8
5/22/2019	4:07:01 PM	188.8	12.7
5/22/2019	4:07:02 PM	188.8	12.7
5/22/2019	4:07:03 PM	188.8	12.7
5/22/2019	4:07:04 PM	188.7	12.6
5/22/2019	4:07:05 PM	188.7	12.6
5/22/2019	4:07:06 PM	188.7	12.6
5/22/2019	4:07:07 PM	188.6	12.5
5/22/2019	4:07:08 PM	188.6	12.5
5/22/2019	4:07:09 PM	188.6	12.5
5/22/2019	4:07:10 PM	188.5	12.4
5/22/2019	4:07:11 PM	188.5	12.4
5/22/2019	4:07:12 PM	188.5	12.4
5/22/2019	4:07:13 PM	188.4	12.3
5/22/2019	4:07:14 PM	188.4	12.3
5/22/2019	4:07:15 PM	188.4	12.3
5/22/2019	4:07:16 PM	188.3	12.2
5/22/2019	4:07:17 PM	188.3	12.2
5/22/2019	4:07:18 PM	188.3	12.2
5/22/2019	4:07:19 PM	188.2	12.1
5/22/2019	4:07:20 PM	188.2	12.1
5/22/2019	4:07:21 PM	188.2	12.1
5/22/2019	4:07:22 PM	188.1	12.0
5/22/2019	4:07:23 PM	188.0	11.9
5/22/2019	4:07:24 PM	188.0	11.9
5/22/2019	4:07:25 PM	187.9	11.8
5/22/2019	4:07:26 PM	187.9	11.8
5/22/2019	4:07:27 PM	187.8	11.7
5/22/2019	4:07:28 PM	187.8	11.7
5/22/2019	4:07:29 PM	187.7	11.6
5/22/2019	4:07:30 PM	187.7	11.6
5/22/2019	4:07:31 PM	187.6	11.5
5/22/2019	4:07:32 PM	187.6	11.5
5/22/2019	4:07:33 PM	187.6	11.5
5/22/2019	4:07:34 PM	187.5	11.4
5/22/2019	4:07:35 PM	187.5	11.4
5/22/2019	4:07:36 PM	187.5	11.4
5/22/2019	4:07:37 PM	187.5	11.4
5/22/2019	4:07:38 PM	187.4	11.3
5/22/2019	4:07:39 PM	187.4	11.3
5/22/2019	4:07:40 PM	187.4	11.3
5/22/2019	4:07:41 PM	187.4	11.3
5/22/2019	4:07:42 PM	187.3	11.2
5/22/2019	4:07:43 PM	187.3	11.2
5/22/2019	4:07:44 PM	187.2	11.1
5/22/2019	4:07:45 PM	187.2	11.1
5/22/2019	4:07:46 PM	187.1	11.0
5/22/2019	4:07:47 PM	187.0	10.9
5/22/2019	4:07:48 PM	186.9	10.8
5/22/2019	4:07:49 PM	186.8	10.7
5/22/2019	4:07:50 PM	186.7	10.6
5/22/2019	4:07:51 PM	186.6	10.5
5/22/2019	4:07:52 PM	186.6	10.5
5/22/2019	4:07:53 PM	186.5	10.4
5/22/2019	4:07:54 PM	186.4	10.3
5/22/2019	4:07:55 PM	186.3	10.2
5/22/2019	4:07:56 PM	186.2	10.1
5/22/2019	4:07:57 PM	186.2	10.1
5/22/2019	4:07:58 PM	186.1	10.0
5/22/2019	4:07:59 PM	186.1	10.0
5/22/2019	4:08:00 PM	186.1	10.0
5/22/2019	4:08:01 PM	186.1	10.0
5/22/2019	4:08:02 PM	186.1	10.0

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:08:03 PM	186.1	10.0
5/22/2019	4:08:04 PM	186.1	10.0
5/22/2019	4:08:05 PM	186.0	9.9
5/22/2019	4:08:06 PM	186.0	9.9
5/22/2019	4:08:07 PM	186.0	9.9
5/22/2019	4:08:08 PM	186.0	9.9
5/22/2019	4:08:09 PM	186.0	9.9
5/22/2019	4:08:10 PM	186.0	9.9
5/22/2019	4:08:11 PM	186.0	9.9
5/22/2019	4:08:12 PM	186.0	9.9
5/22/2019	4:08:13 PM	186.0	9.9
5/22/2019	4:08:14 PM	185.9	9.8
5/22/2019	4:08:15 PM	185.9	9.8
5/22/2019	4:08:16 PM	185.9	9.8
5/22/2019	4:08:17 PM	185.9	9.8
5/22/2019	4:08:18 PM	185.8	9.7
5/22/2019	4:08:19 PM	185.8	9.7
5/22/2019	4:08:20 PM	185.7	9.6
5/22/2019	4:08:21 PM	185.7	9.6
5/22/2019	4:08:22 PM	185.7	9.6
5/22/2019	4:08:23 PM	185.6	9.5
5/22/2019	4:08:24 PM	185.6	9.5
5/22/2019	4:08:25 PM	185.5	9.4
5/22/2019	4:08:26 PM	185.5	9.4
5/22/2019	4:08:27 PM	185.4	9.3
5/22/2019	4:08:28 PM	185.4	9.3
5/22/2019	4:08:29 PM	185.4	9.3
5/22/2019	4:08:30 PM	185.3	9.2
5/22/2019	4:08:31 PM	185.3	9.2
5/22/2019	4:08:32 PM	185.3	9.2
5/22/2019	4:08:33 PM	185.2	9.1
5/22/2019	4:08:34 PM	185.2	9.1
5/22/2019	4:08:35 PM	185.2	9.1
5/22/2019	4:08:36 PM	185.1	9.0
5/22/2019	4:08:37 PM	185.1	9.0
5/22/2019	4:08:38 PM	185.1	9.0
5/22/2019	4:08:39 PM	185.0	8.9
5/22/2019	4:08:40 PM	185.0	8.9
5/22/2019	4:08:41 PM	184.9	8.8
5/22/2019	4:08:42 PM	184.9	8.8
5/22/2019	4:08:43 PM	184.9	8.8
5/22/2019	4:08:44 PM	184.8	8.7
5/22/2019	4:08:45 PM	184.8	8.7
5/22/2019	4:08:46 PM	184.8	8.7
5/22/2019	4:08:47 PM	184.7	8.6
5/22/2019	4:08:48 PM	184.7	8.6
5/22/2019	4:08:49 PM	184.7	8.6
5/22/2019	4:08:50 PM	184.7	8.6
5/22/2019	4:08:51 PM	184.6	8.5
5/22/2019	4:08:52 PM	184.6	8.5
5/22/2019	4:08:53 PM	184.6	8.5
5/22/2019	4:08:54 PM	184.5	8.4
5/22/2019	4:08:55 PM	184.5	8.4
5/22/2019	4:08:56 PM	184.4	8.3
5/22/2019	4:08:57 PM	184.4	8.3
5/22/2019	4:08:58 PM	184.3	8.2
5/22/2019	4:08:59 PM	184.3	8.2
5/22/2019	4:09:00 PM	184.2	8.1
5/22/2019	4:09:01 PM	184.1	8.0
5/22/2019	4:09:02 PM	184.1	8.0
5/22/2019	4:09:03 PM	184.0	7.9
5/22/2019	4:09:04 PM	184.0	7.9
5/22/2019	4:09:05 PM	183.9	7.8
5/22/2019	4:09:06 PM	183.9	7.8
5/22/2019	4:09:07 PM	183.8	7.7
5/22/2019	4:09:08 PM	183.8	7.7
5/22/2019	4:09:09 PM	183.7	7.6
5/22/2019	4:09:10 PM	183.7	7.6
5/22/2019	4:09:11 PM	183.7	7.6
5/22/2019	4:09:12 PM	183.7	7.6
5/22/2019	4:09:13 PM	183.6	7.5
5/22/2019	4:09:14 PM	183.6	7.5
5/22/2019	4:09:15 PM	183.6	7.5
5/22/2019	4:09:16 PM	183.6	7.5
5/22/2019	4:09:17 PM	183.6	7.5
5/22/2019	4:09:18 PM	183.5	7.4
5/22/2019	4:09:19 PM	183.5	7.4
5/22/2019	4:09:20 PM	183.5	7.4
5/22/2019	4:09:21 PM	183.5	7.4

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:09:22 PM	183.5	7.4
5/22/2019	4:09:23 PM	183.5	7.4
5/22/2019	4:09:24 PM	183.5	7.4
5/22/2019	4:09:25 PM	183.4	7.3
5/22/2019	4:09:26 PM	183.4	7.3
5/22/2019	4:09:27 PM	183.4	7.3
5/22/2019	4:09:28 PM	183.4	7.3
5/22/2019	4:09:29 PM	183.4	7.3
5/22/2019	4:09:30 PM	183.4	7.3
5/22/2019	4:09:31 PM	183.3	7.2
5/22/2019	4:09:32 PM	183.3	7.2
5/22/2019	4:09:33 PM	183.3	7.2
5/22/2019	4:09:34 PM	183.3	7.2
5/22/2019	4:09:35 PM	183.3	7.2
5/22/2019	4:09:36 PM	183.3	7.2
5/22/2019	4:09:37 PM	183.3	7.2
5/22/2019	4:09:38 PM	183.3	7.2
5/22/2019	4:09:39 PM	183.3	7.2
5/22/2019	4:09:40 PM	183.2	7.1
5/22/2019	4:09:41 PM	183.2	7.1
5/22/2019	4:09:42 PM	183.2	7.1
5/22/2019	4:09:43 PM	183.2	7.1
5/22/2019	4:09:44 PM	183.2	7.1
5/22/2019	4:09:45 PM	183.2	7.1
5/22/2019	4:09:46 PM	183.2	7.1
5/22/2019	4:09:47 PM	183.2	7.1
5/22/2019	4:09:48 PM	183.2	7.1
5/22/2019	4:09:49 PM	183.2	7.1
5/22/2019	4:09:50 PM	183.1	7.0
5/22/2019	4:09:51 PM	183.1	7.0
5/22/2019	4:09:52 PM	183.1	7.0
5/22/2019	4:09:53 PM	183.0	6.9
5/22/2019	4:09:54 PM	183.0	6.9
5/22/2019	4:09:55 PM	182.9	6.8
5/22/2019	4:09:56 PM	182.9	6.8
5/22/2019	4:09:57 PM	182.9	6.8
5/22/2019	4:09:58 PM	182.8	6.7
5/22/2019	4:09:59 PM	182.8	6.7
5/22/2019	4:10:00 PM	182.7	6.6
5/22/2019	4:10:01 PM	182.7	6.6
5/22/2019	4:10:02 PM	182.7	6.6
5/22/2019	4:10:03 PM	182.7	6.6
5/22/2019	4:10:04 PM	182.6	6.5
5/22/2019	4:10:05 PM	182.6	6.5
5/22/2019	4:10:06 PM	182.6	6.5
5/22/2019	4:10:07 PM	182.6	6.5
5/22/2019	4:10:08 PM	182.6	6.5
5/22/2019	4:10:09 PM	182.6	6.5
5/22/2019	4:10:10 PM	182.6	6.5
5/22/2019	4:10:11 PM	182.5	6.4
5/22/2019	4:10:12 PM	182.5	6.4
5/22/2019	4:10:13 PM	182.5	6.4
5/22/2019	4:10:14 PM	182.4	6.3
5/22/2019	4:10:15 PM	182.4	6.3
5/22/2019	4:10:16 PM	182.4	6.3
5/22/2019	4:10:17 PM	182.4	6.3
5/22/2019	4:10:18 PM	182.3	6.2
5/22/2019	4:10:19 PM	182.3	6.2
5/22/2019	4:10:20 PM	182.2	6.1
5/22/2019	4:10:21 PM	182.2	6.1
5/22/2019	4:10:22 PM	182.1	6.0
5/22/2019	4:10:23 PM	182.1	6.0
5/22/2019	4:10:24 PM	182.0	5.9
5/22/2019	4:10:25 PM	182.0	5.9
5/22/2019	4:10:26 PM	182.0	5.9
5/22/2019	4:10:27 PM	181.9	5.8
5/22/2019	4:10:28 PM	181.9	5.8
5/22/2019	4:10:29 PM	181.8	5.7
5/22/2019	4:10:30 PM	181.8	5.7
5/22/2019	4:10:31 PM	181.8	5.7
5/22/2019	4:10:32 PM	181.7	5.6
5/22/2019	4:10:33 PM	181.7	5.6
5/22/2019	4:10:34 PM	181.7	5.6
5/22/2019	4:10:35 PM	181.6	5.5
5/22/2019	4:10:36 PM	181.6	5.5
5/22/2019	4:10:37 PM	181.6	5.5
5/22/2019	4:10:38 PM	181.6	5.5
5/22/2019	4:10:39 PM	181.6	5.5
5/22/2019	4:10:40 PM	181.6	5.5

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:10:41 PM	181.6	5.5
5/22/2019	4:10:42 PM	181.5	5.4
5/22/2019	4:10:43 PM	181.5	5.4
5/22/2019	4:10:44 PM	181.5	5.4
5/22/2019	4:10:45 PM	181.5	5.4
5/22/2019	4:10:46 PM	181.5	5.4
5/22/2019	4:10:47 PM	181.5	5.4
5/22/2019	4:10:48 PM	181.5	5.4
5/22/2019	4:10:49 PM	181.4	5.3
5/22/2019	4:10:50 PM	181.4	5.3
5/22/2019	4:10:51 PM	181.4	5.3
5/22/2019	4:10:52 PM	181.3	5.2
5/22/2019	4:10:53 PM	181.3	5.2
5/22/2019	4:10:54 PM	181.2	5.1
5/22/2019	4:10:55 PM	181.2	5.1
5/22/2019	4:10:56 PM	181.1	5.0
5/22/2019	4:10:57 PM	181.1	5.0
5/22/2019	4:10:58 PM	181.0	4.9
5/22/2019	4:10:59 PM	181.0	4.9
5/22/2019	4:11:00 PM	180.9	4.8
5/22/2019	4:11:01 PM	180.9	4.8
5/22/2019	4:11:02 PM	180.9	4.8
5/22/2019	4:11:03 PM	180.8	4.7
5/22/2019	4:11:04 PM	180.8	4.7
5/22/2019	4:11:05 PM	180.8	4.7
5/22/2019	4:11:06 PM	180.8	4.7
5/22/2019	4:11:07 PM	180.8	4.7
5/22/2019	4:11:08 PM	180.8	4.7
5/22/2019	4:11:09 PM	180.8	4.7
5/22/2019	4:11:10 PM	180.8	4.7
5/22/2019	4:11:11 PM	180.8	4.7
5/22/2019	4:11:12 PM	180.8	4.7
5/22/2019	4:11:13 PM	180.8	4.7
5/22/2019	4:11:14 PM	180.7	4.6
5/22/2019	4:11:15 PM	180.7	4.6
5/22/2019	4:11:16 PM	180.7	4.6
5/22/2019	4:11:17 PM	180.7	4.6
5/22/2019	4:11:18 PM	180.7	4.6
5/22/2019	4:11:19 PM	180.7	4.6
5/22/2019	4:11:20 PM	180.7	4.6
5/22/2019	4:11:21 PM	180.7	4.6
5/22/2019	4:11:22 PM	180.7	4.6
5/22/2019	4:11:23 PM	180.7	4.6
5/22/2019	4:11:24 PM	180.7	4.6
5/22/2019	4:11:25 PM	180.7	4.6
5/22/2019	4:11:26 PM	180.7	4.6
5/22/2019	4:11:27 PM	180.6	4.5
5/22/2019	4:11:28 PM	180.6	4.5
5/22/2019	4:11:29 PM	180.6	4.5
5/22/2019	4:11:30 PM	180.6	4.5
5/22/2019	4:11:31 PM	180.6	4.5
5/22/2019	4:11:32 PM	180.6	4.5
5/22/2019	4:11:33 PM	180.6	4.5
5/22/2019	4:11:34 PM	180.5	4.4
5/22/2019	4:11:35 PM	180.5	4.4
5/22/2019	4:11:36 PM	180.5	4.4
5/22/2019	4:11:37 PM	180.5	4.4
5/22/2019	4:11:38 PM	180.5	4.4
5/22/2019	4:11:39 PM	180.4	4.3
5/22/2019	4:11:40 PM	180.4	4.3
5/22/2019	4:11:41 PM	180.4	4.3
5/22/2019	4:11:42 PM	180.4	4.3
5/22/2019	4:11:43 PM	180.4	4.3
5/22/2019	4:11:44 PM	180.4	4.3
5/22/2019	4:11:45 PM	180.4	4.3
5/22/2019	4:11:46 PM	180.3	4.2
5/22/2019	4:11:47 PM	180.3	4.2
5/22/2019	4:11:48 PM	180.3	4.2
5/22/2019	4:11:49 PM	180.3	4.2
5/22/2019	4:11:50 PM	180.3	4.2
5/22/2019	4:11:51 PM	180.3	4.2
5/22/2019	4:11:52 PM	180.3	4.2
5/22/2019	4:11:53 PM	180.3	4.2
5/22/2019	4:11:54 PM	180.3	4.2
5/22/2019	4:11:55 PM	180.3	4.2
5/22/2019	4:11:56 PM	180.2	4.1
5/22/2019	4:11:57 PM	180.2	4.1
5/22/2019	4:11:58 PM	180.2	4.1
5/22/2019	4:11:59 PM	180.2	4.1

APPENDIX E46: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:12:00 PM	180.1	4.0
5/22/2019	4:12:01 PM	180.1	4.0
5/22/2019	4:12:02 PM	180.1	4.0
5/22/2019	4:12:03 PM	180.1	4.0
5/22/2019	4:12:04 PM	180.0	3.9
5/22/2019	4:12:05 PM	180.0	3.9
5/22/2019	4:12:06 PM	180.0	3.9
5/22/2019	4:12:07 PM	180.0	3.9
5/22/2019	4:12:08 PM	179.9	3.8
5/22/2019	4:12:09 PM	179.9	3.8
5/22/2019	4:12:10 PM	179.9	3.8
5/22/2019	4:12:11 PM	179.9	3.8
5/22/2019	4:12:12 PM	179.9	3.8
5/22/2019	4:12:13 PM	179.8	3.7
5/22/2019	4:12:14 PM	179.8	3.7
5/22/2019	4:12:15 PM	179.8	3.7
5/22/2019	4:12:16 PM	179.8	3.7
5/22/2019	4:12:17 PM	179.8	3.7

Table E2 SEEP-B2 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2-TEST-2	1528	151.5	NR
SEEP-B2-TEST-2	1532	165.2	NR
SEEP-B2-TEST-2	1533	167.0	NR
SEEP-B2-TEST-2	1534	166.4	NR
Average		162.5	(µS/cms)
Geometric Mean		162.4	(µS/cms)
Average (pre-test)		176.1	(µS/cms)
Average (post-test)		181.1	(µS/cms)

Table E3 SEEP-B2 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
		(µS/cms)	(°C)
SEEP-B2-TEST-2	1	29.9	NR
SEEP-B2-TEST-2	10	167	NR
SEEP-B2-TEST-2	100	426	NR
SEEP-B2-TEST-2	1,000	3,329	NR
SEEP-B2-TEST-2	10,000	15,499	NR
SEEP-B2-TEST-2	100,000	127,509	NR

Table E4 SEEP-B2 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.2780	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	547,402.8	(s) . (µS/cms)
Calculated Flow Rate	Q	7.0	L/s
		11.1	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:38:31 PM	178.2	-
5/22/2019	4:38:32 PM	178.1	-
5/22/2019	4:38:33 PM	178.1	-
5/22/2019	4:38:34 PM	178.1	-
5/22/2019	4:38:35 PM	178.0	-
5/22/2019	4:38:36 PM	178.0	-
5/22/2019	4:38:37 PM	178.0	-
5/22/2019	4:38:38 PM	177.9	-
5/22/2019	4:38:39 PM	177.9	-
5/22/2019	4:38:40 PM	177.9	-
5/22/2019	4:38:41 PM	177.9	-
5/22/2019	4:38:42 PM	177.9	-
5/22/2019	4:38:43 PM	177.9	-
5/22/2019	4:38:44 PM	177.8	-
5/22/2019	4:38:45 PM	177.8	-
5/22/2019	4:38:46 PM	177.8	-
5/22/2019	4:38:47 PM	177.8	-
5/22/2019	4:38:48 PM	177.7	-
5/22/2019	4:38:49 PM	177.7	-
5/22/2019	4:38:50 PM	177.7	-
5/22/2019	4:38:51 PM	177.7	-
5/22/2019	4:38:52 PM	177.6	-
5/22/2019	4:38:53 PM	177.6	-
5/22/2019	4:38:54 PM	177.6	-
5/22/2019	4:38:55 PM	177.5	-
5/22/2019	4:38:56 PM	177.5	-
5/22/2019	4:38:57 PM	177.5	-
5/22/2019	4:38:58 PM	177.5	-
5/22/2019	4:38:59 PM	177.5	-
5/22/2019	4:39:00 PM	177.4	-
5/22/2019	4:39:01 PM	177.4	-
5/22/2019	4:39:02 PM	177.4	-
5/22/2019	4:39:03 PM	177.4	-
5/22/2019	4:39:04 PM	177.4	-
5/22/2019	4:39:05 PM	177.3	-
5/22/2019	4:39:06 PM	177.3	-
5/22/2019	4:39:07 PM	177.3	-
5/22/2019	4:39:08 PM	177.3	-
5/22/2019	4:39:09 PM	177.5	-
5/22/2019	4:39:10 PM	178.6	-
5/22/2019	4:39:11 PM	239.8	62.1
5/22/2019	4:39:12 PM	298.9	121.2
5/22/2019	4:39:13 PM	411.0	233.3
5/22/2019	4:39:14 PM	501.8	324.1
5/22/2019	4:39:15 PM	744.4	566.7
5/22/2019	4:39:16 PM	1709.0	1531.3
5/22/2019	4:39:17 PM	1987.6	1809.9
5/22/2019	4:39:18 PM	2150.7	1973.0
5/22/2019	4:39:19 PM	2561.9	2384.2
5/22/2019	4:39:20 PM	3582.1	3404.4
5/22/2019	4:39:21 PM	4529.2	4351.5
5/22/2019	4:39:22 PM	5742.7	5565.0
5/22/2019	4:39:23 PM	6279.8	6102.1
5/22/2019	4:39:24 PM	7216.3	7038.6
5/22/2019	4:39:25 PM	7330.3	7152.6
5/22/2019	4:39:26 PM	8381.3	8203.6
5/22/2019	4:39:27 PM	8554.3	8376.6
5/22/2019	4:39:28 PM	8835.1	8657.4
5/22/2019	4:39:29 PM	9059.9	8882.2
5/22/2019	4:39:30 PM	9260.6	9082.9
5/22/2019	4:39:31 PM	9386.4	9208.7
5/22/2019	4:39:32 PM	9490.3	9312.6
5/22/2019	4:39:33 PM	9564.6	9386.9
5/22/2019	4:39:34 PM	9642.7	9465.0
5/22/2019	4:39:35 PM	9699.2	9521.5
5/22/2019	4:39:36 PM	9736.1	9558.4
5/22/2019	4:39:37 PM	9755.6	9577.9
5/22/2019	4:39:38 PM	9759.1	9581.4
5/22/2019	4:39:39 PM	9756.4	9578.7
5/22/2019	4:39:40 PM	9739.5	9561.8

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:39:41 PM	9218.8	9041.1
5/22/2019	4:39:42 PM	9178.8	9001.1
5/22/2019	4:39:43 PM	9008.2	8830.5
5/22/2019	4:39:44 PM	8796.2	8618.5
5/22/2019	4:39:45 PM	8724.1	8546.4
5/22/2019	4:39:46 PM	8655.7	8478.0
5/22/2019	4:39:47 PM	8582.5	8404.8
5/22/2019	4:39:48 PM	8494.3	8316.6
5/22/2019	4:39:49 PM	7927.5	7749.8
5/22/2019	4:39:50 PM	7531.4	7353.7
5/22/2019	4:39:51 PM	7391.7	7214.0
5/22/2019	4:39:52 PM	7404.7	7227.0
5/22/2019	4:39:53 PM	7327.5	7149.8
5/22/2019	4:39:54 PM	7234.5	7056.8
5/22/2019	4:39:55 PM	7143.1	6965.4
5/22/2019	4:39:56 PM	6690.1	6512.4
5/22/2019	4:39:57 PM	6541.8	6364.1
5/22/2019	4:39:58 PM	6283.4	6105.7
5/22/2019	4:39:59 PM	6066.2	5888.5
5/22/2019	4:40:00 PM	6074.8	5897.1
5/22/2019	4:40:01 PM	5953.4	5775.7
5/22/2019	4:40:02 PM	5505.2	5327.5
5/22/2019	4:40:03 PM	5258.1	5080.4
5/22/2019	4:40:04 PM	5294.8	5117.1
5/22/2019	4:40:05 PM	5251.7	5074.0
5/22/2019	4:40:06 PM	4764.1	4586.4
5/22/2019	4:40:07 PM	4763.1	4585.4
5/22/2019	4:40:08 PM	4531.3	4353.6
5/22/2019	4:40:09 PM	4382.5	4204.8
5/22/2019	4:40:10 PM	4251.6	4073.9
5/22/2019	4:40:11 PM	4198.0	4020.3
5/22/2019	4:40:12 PM	4155.3	3977.6
5/22/2019	4:40:13 PM	3876.4	3698.7
5/22/2019	4:40:14 PM	3808.5	3630.8
5/22/2019	4:40:15 PM	3777.1	3599.4
5/22/2019	4:40:16 PM	3745.8	3568.1
5/22/2019	4:40:17 PM	3711.2	3533.5
5/22/2019	4:40:18 PM	3658.7	3481.0
5/22/2019	4:40:19 PM	3620.4	3442.7
5/22/2019	4:40:20 PM	3589.6	3411.9
5/22/2019	4:40:21 PM	3153.6	2975.9
5/22/2019	4:40:22 PM	3000.2	2822.5
5/22/2019	4:40:23 PM	2855.9	2678.2
5/22/2019	4:40:24 PM	2775.0	2597.3
5/22/2019	4:40:25 PM	2699.1	2521.4
5/22/2019	4:40:26 PM	2660.4	2482.7
5/22/2019	4:40:27 PM	2632.8	2455.1
5/22/2019	4:40:28 PM	2610.4	2432.7
5/22/2019	4:40:29 PM	2591.0	2413.3
5/22/2019	4:40:30 PM	2430.8	2253.1
5/22/2019	4:40:31 PM	2310.0	2132.3
5/22/2019	4:40:32 PM	2218.5	2040.8
5/22/2019	4:40:33 PM	2176.6	1998.9
5/22/2019	4:40:34 PM	2153.2	1975.5
5/22/2019	4:40:35 PM	2113.0	1935.3
5/22/2019	4:40:36 PM	2085.6	1907.9
5/22/2019	4:40:37 PM	2067.0	1889.3
5/22/2019	4:40:38 PM	2055.7	1878.0
5/22/2019	4:40:39 PM	1894.7	1717.0
5/22/2019	4:40:40 PM	1846.1	1668.4
5/22/2019	4:40:41 PM	1817.9	1640.2
5/22/2019	4:40:42 PM	1772.4	1594.7
5/22/2019	4:40:43 PM	1737.9	1560.2
5/22/2019	4:40:44 PM	1696.2	1518.5
5/22/2019	4:40:45 PM	1582.4	1404.7
5/22/2019	4:40:46 PM	1529.5	1351.8
5/22/2019	4:40:47 PM	1484.3	1306.6
5/22/2019	4:40:48 PM	1448.2	1270.5
5/22/2019	4:40:49 PM	1442.7	1265.0
5/22/2019	4:40:50 PM	1430.5	1252.8
5/22/2019	4:40:51 PM	1420.9	1243.2
5/22/2019	4:40:52 PM	1319.0	1141.3
5/22/2019	4:40:53 PM	1277.6	1099.9
5/22/2019	4:40:54 PM	1236.8	1059.1
5/22/2019	4:40:55 PM	1229.9	1052.2
5/22/2019	4:40:56 PM	1221.1	1043.4
5/22/2019	4:40:57 PM	1201.3	1023.6

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:40:58 PM	1187.9	1010.2
5/22/2019	4:40:59 PM	1177.4	999.7
5/22/2019	4:41:00 PM	1108.6	930.9
5/22/2019	4:41:01 PM	1075.1	897.4
5/22/2019	4:41:02 PM	1048.9	871.2
5/22/2019	4:41:03 PM	1038.9	861.2
5/22/2019	4:41:04 PM	1029.5	851.8
5/22/2019	4:41:05 PM	1009.6	831.9
5/22/2019	4:41:06 PM	994.7	817.0
5/22/2019	4:41:07 PM	980.9	803.2
5/22/2019	4:41:08 PM	972.2	794.5
5/22/2019	4:41:09 PM	901.8	724.1
5/22/2019	4:41:10 PM	892.6	714.9
5/22/2019	4:41:11 PM	881.4	703.7
5/22/2019	4:41:12 PM	877.9	700.2
5/22/2019	4:41:13 PM	868.8	691.1
5/22/2019	4:41:14 PM	862.2	684.5
5/22/2019	4:41:15 PM	854.9	677.2
5/22/2019	4:41:16 PM	804.6	626.9
5/22/2019	4:41:17 PM	792.7	615.0
5/22/2019	4:41:18 PM	777.0	599.3
5/22/2019	4:41:19 PM	768.9	591.2
5/22/2019	4:41:20 PM	763.5	585.8
5/22/2019	4:41:21 PM	759.6	581.9
5/22/2019	4:41:22 PM	755.4	577.7
5/22/2019	4:41:23 PM	750.2	572.5
5/22/2019	4:41:24 PM	743.0	565.3
5/22/2019	4:41:25 PM	737.7	560.0
5/22/2019	4:41:26 PM	732.4	554.7
5/22/2019	4:41:27 PM	728.3	550.6
5/22/2019	4:41:28 PM	683.9	506.2
5/22/2019	4:41:29 PM	674.0	496.3
5/22/2019	4:41:30 PM	657.2	479.5
5/22/2019	4:41:31 PM	652.8	475.1
5/22/2019	4:41:32 PM	650.1	472.4
5/22/2019	4:41:33 PM	645.3	467.6
5/22/2019	4:41:34 PM	640.5	462.8
5/22/2019	4:41:35 PM	638.6	460.9
5/22/2019	4:41:36 PM	594.7	417.0
5/22/2019	4:41:37 PM	600.3	422.6
5/22/2019	4:41:38 PM	594.5	416.8
5/22/2019	4:41:39 PM	592.7	415.0
5/22/2019	4:41:40 PM	588.0	410.3
5/22/2019	4:41:41 PM	584.9	407.2
5/22/2019	4:41:42 PM	581.8	404.1
5/22/2019	4:41:43 PM	578.3	400.6
5/22/2019	4:41:44 PM	575.7	398.0
5/22/2019	4:41:45 PM	572.8	395.1
5/22/2019	4:41:46 PM	570.5	392.8
5/22/2019	4:41:47 PM	568.0	390.3
5/22/2019	4:41:48 PM	565.9	388.2
5/22/2019	4:41:49 PM	563.7	386.0
5/22/2019	4:41:50 PM	561.7	384.0
5/22/2019	4:41:51 PM	559.3	381.6
5/22/2019	4:41:52 PM	555.6	377.9
5/22/2019	4:41:53 PM	550.6	372.9
5/22/2019	4:41:54 PM	546.3	368.6
5/22/2019	4:41:55 PM	541.7	364.0
5/22/2019	4:41:56 PM	537.8	360.1
5/22/2019	4:41:57 PM	533.5	355.8
5/22/2019	4:41:58 PM	529.9	352.2
5/22/2019	4:41:59 PM	526.0	348.3
5/22/2019	4:42:00 PM	522.1	344.4
5/22/2019	4:42:01 PM	518.9	341.2
5/22/2019	4:42:02 PM	515.0	337.3
5/22/2019	4:42:03 PM	511.8	334.1
5/22/2019	4:42:04 PM	508.2	330.5
5/22/2019	4:42:05 PM	505.2	327.5
5/22/2019	4:42:06 PM	502.1	324.4
5/22/2019	4:42:07 PM	499.4	321.7
5/22/2019	4:42:08 PM	496.2	318.5
5/22/2019	4:42:09 PM	493.5	315.8
5/22/2019	4:42:10 PM	490.3	312.6
5/22/2019	4:42:11 PM	487.4	309.7
5/22/2019	4:42:12 PM	484.0	306.3
5/22/2019	4:42:13 PM	481.1	303.4
5/22/2019	4:42:14 PM	478.1	300.4
5/22/2019	4:42:15 PM	475.5	297.8
5/22/2019	4:42:16 PM	472.5	294.8

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:42:17 PM	469.8	292.1
5/22/2019	4:42:18 PM	466.6	288.9
5/22/2019	4:42:19 PM	463.8	286.1
5/22/2019	4:42:20 PM	460.7	283.0
5/22/2019	4:42:21 PM	457.5	279.8
5/22/2019	4:42:22 PM	454.8	277.1
5/22/2019	4:42:23 PM	452.0	274.3
5/22/2019	4:42:24 PM	449.6	271.9
5/22/2019	4:42:25 PM	446.9	269.2
5/22/2019	4:42:26 PM	444.4	266.7
5/22/2019	4:42:27 PM	441.3	263.6
5/22/2019	4:42:28 PM	438.7	261.0
5/22/2019	4:42:29 PM	436.0	258.3
5/22/2019	4:42:30 PM	433.7	256.0
5/22/2019	4:42:31 PM	431.4	253.7
5/22/2019	4:42:32 PM	429.5	251.8
5/22/2019	4:42:33 PM	427.6	249.9
5/22/2019	4:42:34 PM	425.9	248.2
5/22/2019	4:42:35 PM	423.9	246.2
5/22/2019	4:42:36 PM	421.9	244.2
5/22/2019	4:42:37 PM	419.7	242.0
5/22/2019	4:42:38 PM	417.7	240.0
5/22/2019	4:42:39 PM	415.7	238.0
5/22/2019	4:42:40 PM	413.7	236.0
5/22/2019	4:42:41 PM	411.9	234.2
5/22/2019	4:42:42 PM	409.9	232.2
5/22/2019	4:42:43 PM	408.1	230.4
5/22/2019	4:42:44 PM	406.1	228.4
5/22/2019	4:42:45 PM	404.2	226.5
5/22/2019	4:42:46 PM	402.1	224.4
5/22/2019	4:42:47 PM	400.5	222.8
5/22/2019	4:42:48 PM	398.7	221.0
5/22/2019	4:42:49 PM	397.2	219.5
5/22/2019	4:42:50 PM	395.7	218.0
5/22/2019	4:42:51 PM	394.4	216.7
5/22/2019	4:42:52 PM	393.0	215.3
5/22/2019	4:42:53 PM	391.8	214.1
5/22/2019	4:42:54 PM	390.4	212.7
5/22/2019	4:42:55 PM	389.3	211.6
5/22/2019	4:42:56 PM	387.9	210.2
5/22/2019	4:42:57 PM	386.7	209.0
5/22/2019	4:42:58 PM	385.1	207.4
5/22/2019	4:42:59 PM	383.7	206.0
5/22/2019	4:43:00 PM	382.0	204.3
5/22/2019	4:43:01 PM	380.4	202.7
5/22/2019	4:43:02 PM	379.0	201.3
5/22/2019	4:43:03 PM	377.4	199.7
5/22/2019	4:43:04 PM	376.1	198.4
5/22/2019	4:43:05 PM	374.6	196.9
5/22/2019	4:43:06 PM	373.2	195.5
5/22/2019	4:43:07 PM	371.7	194.0
5/22/2019	4:43:08 PM	370.4	192.7
5/22/2019	4:43:09 PM	369.0	191.3
5/22/2019	4:43:10 PM	367.8	190.1
5/22/2019	4:43:11 PM	366.4	188.7
5/22/2019	4:43:12 PM	365.3	187.6
5/22/2019	4:43:13 PM	364.1	186.4
5/22/2019	4:43:14 PM	363.2	185.5
5/22/2019	4:43:15 PM	362.1	184.4
5/22/2019	4:43:16 PM	361.1	183.4
5/22/2019	4:43:17 PM	359.9	182.2
5/22/2019	4:43:18 PM	358.9	181.2
5/22/2019	4:43:19 PM	357.7	180.0
5/22/2019	4:43:20 PM	356.8	179.1
5/22/2019	4:43:21 PM	355.8	178.1
5/22/2019	4:43:22 PM	354.9	177.2
5/22/2019	4:43:23 PM	354.1	176.4
5/22/2019	4:43:24 PM	353.3	175.6
5/22/2019	4:43:25 PM	352.6	174.9
5/22/2019	4:43:26 PM	351.8	174.1
5/22/2019	4:43:27 PM	351.0	173.3
5/22/2019	4:43:28 PM	350.1	172.4
5/22/2019	4:43:29 PM	349.1	171.4
5/22/2019	4:43:30 PM	348.1	170.4
5/22/2019	4:43:31 PM	347.3	169.6
5/22/2019	4:43:32 PM	346.3	168.6
5/22/2019	4:43:33 PM	345.3	167.6
5/22/2019	4:43:34 PM	344.2	166.5
5/22/2019	4:43:35 PM	343.2	165.5

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:43:36 PM	342.0	164.3
5/22/2019	4:43:37 PM	341.0	163.3
5/22/2019	4:43:38 PM	339.8	162.1
5/22/2019	4:43:39 PM	338.8	161.1
5/22/2019	4:43:40 PM	337.7	160.0
5/22/2019	4:43:41 PM	336.6	158.9
5/22/2019	4:43:42 PM	335.7	158.0
5/22/2019	4:43:43 PM	334.7	157.0
5/22/2019	4:43:44 PM	333.8	156.1
5/22/2019	4:43:45 PM	332.7	155.0
5/22/2019	4:43:46 PM	331.8	154.1
5/22/2019	4:43:47 PM	330.7	153.0
5/22/2019	4:43:48 PM	329.7	152.0
5/22/2019	4:43:49 PM	328.7	151.0
5/22/2019	4:43:50 PM	327.7	150.0
5/22/2019	4:43:51 PM	326.7	149.0
5/22/2019	4:43:52 PM	325.9	148.2
5/22/2019	4:43:53 PM	325.0	147.3
5/22/2019	4:43:54 PM	324.2	146.5
5/22/2019	4:43:55 PM	323.3	145.6
5/22/2019	4:43:56 PM	322.6	144.9
5/22/2019	4:43:57 PM	321.7	144.0
5/22/2019	4:43:58 PM	321.0	143.3
5/22/2019	4:43:59 PM	320.3	142.6
5/22/2019	4:44:00 PM	319.6	141.9
5/22/2019	4:44:01 PM	318.9	141.2
5/22/2019	4:44:02 PM	318.2	140.5
5/22/2019	4:44:03 PM	317.5	139.8
5/22/2019	4:44:04 PM	316.8	139.1
5/22/2019	4:44:05 PM	316.1	138.4
5/22/2019	4:44:06 PM	315.3	137.6
5/22/2019	4:44:07 PM	314.6	136.9
5/22/2019	4:44:08 PM	313.9	136.2
5/22/2019	4:44:09 PM	313.3	135.6
5/22/2019	4:44:10 PM	312.6	134.9
5/22/2019	4:44:11 PM	312.0	134.3
5/22/2019	4:44:12 PM	311.4	133.7
5/22/2019	4:44:13 PM	310.9	133.2
5/22/2019	4:44:14 PM	310.3	132.6
5/22/2019	4:44:15 PM	309.7	132.0
5/22/2019	4:44:16 PM	309.2	131.5
5/22/2019	4:44:17 PM	308.7	131.0
5/22/2019	4:44:18 PM	308.1	130.4
5/22/2019	4:44:19 PM	307.7	130.0
5/22/2019	4:44:20 PM	307.1	129.4
5/22/2019	4:44:21 PM	306.6	128.9
5/22/2019	4:44:22 PM	306.1	128.4
5/22/2019	4:44:23 PM	305.5	127.8
5/22/2019	4:44:24 PM	305.0	127.3
5/22/2019	4:44:25 PM	304.5	126.8
5/22/2019	4:44:26 PM	304.0	126.3
5/22/2019	4:44:27 PM	303.5	125.8
5/22/2019	4:44:28 PM	303.0	125.3
5/22/2019	4:44:29 PM	302.4	124.7
5/22/2019	4:44:30 PM	301.9	124.2
5/22/2019	4:44:31 PM	301.2	123.5
5/22/2019	4:44:32 PM	300.7	123.0
5/22/2019	4:44:33 PM	300.0	122.3
5/22/2019	4:44:34 PM	299.5	121.8
5/22/2019	4:44:35 PM	299.0	121.3
5/22/2019	4:44:36 PM	298.5	120.8
5/22/2019	4:44:37 PM	297.8	120.1
5/22/2019	4:44:38 PM	297.3	119.6
5/22/2019	4:44:39 PM	296.7	119.0
5/22/2019	4:44:40 PM	296.1	118.4
5/22/2019	4:44:41 PM	295.5	117.8
5/22/2019	4:44:42 PM	295.1	117.4
5/22/2019	4:44:43 PM	294.5	116.8
5/22/2019	4:44:44 PM	294.0	116.3
5/22/2019	4:44:45 PM	293.6	115.9
5/22/2019	4:44:46 PM	293.1	115.4
5/22/2019	4:44:47 PM	292.6	114.9
5/22/2019	4:44:48 PM	292.1	114.4
5/22/2019	4:44:49 PM	291.6	113.9
5/22/2019	4:44:50 PM	291.1	113.4
5/22/2019	4:44:51 PM	290.6	112.9
5/22/2019	4:44:52 PM	290.0	112.3
5/22/2019	4:44:53 PM	289.6	111.9
5/22/2019	4:44:54 PM	289.1	111.4

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:44:55 PM	288.7	111.0
5/22/2019	4:44:56 PM	288.2	110.5
5/22/2019	4:44:57 PM	287.8	110.1
5/22/2019	4:44:58 PM	287.4	109.7
5/22/2019	4:44:59 PM	287.0	109.3
5/22/2019	4:45:00 PM	286.5	108.8
5/22/2019	4:45:01 PM	286.1	108.4
5/22/2019	4:45:02 PM	285.8	108.1
5/22/2019	4:45:03 PM	285.5	107.8
5/22/2019	4:45:04 PM	285.2	107.5
5/22/2019	4:45:05 PM	284.9	107.2
5/22/2019	4:45:06 PM	284.5	106.8
5/22/2019	4:45:07 PM	284.2	106.5
5/22/2019	4:45:08 PM	283.8	106.1
5/22/2019	4:45:09 PM	283.6	105.9
5/22/2019	4:45:10 PM	283.3	105.6
5/22/2019	4:45:11 PM	283.0	105.3
5/22/2019	4:45:12 PM	282.7	105.0
5/22/2019	4:45:13 PM	282.4	104.7
5/22/2019	4:45:14 PM	282.2	104.5
5/22/2019	4:45:15 PM	281.7	104.0
5/22/2019	4:45:16 PM	281.3	103.6
5/22/2019	4:45:17 PM	280.9	103.2
5/22/2019	4:45:18 PM	280.5	102.8
5/22/2019	4:45:19 PM	280.3	102.6
5/22/2019	4:45:20 PM	279.9	102.2
5/22/2019	4:45:21 PM	279.5	101.8
5/22/2019	4:45:22 PM	279.1	101.4
5/22/2019	4:45:23 PM	278.8	101.1
5/22/2019	4:45:24 PM	278.3	100.6
5/22/2019	4:45:25 PM	278.0	100.3
5/22/2019	4:45:26 PM	277.6	99.9
5/22/2019	4:45:27 PM	277.2	99.5
5/22/2019	4:45:28 PM	276.8	99.1
5/22/2019	4:45:29 PM	276.5	98.8
5/22/2019	4:45:30 PM	276.1	98.4
5/22/2019	4:45:31 PM	275.6	97.9
5/22/2019	4:45:32 PM	275.2	97.5
5/22/2019	4:45:33 PM	274.8	97.1
5/22/2019	4:45:34 PM	274.3	96.6
5/22/2019	4:45:35 PM	273.9	96.2
5/22/2019	4:45:36 PM	273.5	95.8
5/22/2019	4:45:37 PM	273.1	95.4
5/22/2019	4:45:38 PM	272.7	95.0
5/22/2019	4:45:39 PM	272.3	94.6
5/22/2019	4:45:40 PM	271.9	94.2
5/22/2019	4:45:41 PM	271.5	93.8
5/22/2019	4:45:42 PM	271.2	93.5
5/22/2019	4:45:43 PM	270.8	93.1
5/22/2019	4:45:44 PM	270.4	92.7
5/22/2019	4:45:45 PM	270.0	92.3
5/22/2019	4:45:46 PM	269.6	91.9
5/22/2019	4:45:47 PM	269.2	91.5
5/22/2019	4:45:48 PM	268.8	91.1
5/22/2019	4:45:49 PM	268.3	90.6
5/22/2019	4:45:50 PM	267.9	90.2
5/22/2019	4:45:51 PM	267.4	89.7
5/22/2019	4:45:52 PM	267.0	89.3
5/22/2019	4:45:53 PM	266.5	88.8
5/22/2019	4:45:54 PM	266.0	88.3
5/22/2019	4:45:55 PM	265.6	87.9
5/22/2019	4:45:56 PM	265.2	87.5
5/22/2019	4:45:57 PM	264.7	87.0
5/22/2019	4:45:58 PM	264.4	86.7
5/22/2019	4:45:59 PM	263.9	86.2
5/22/2019	4:46:00 PM	263.5	85.8
5/22/2019	4:46:01 PM	263.2	85.5
5/22/2019	4:46:02 PM	262.8	85.1
5/22/2019	4:46:03 PM	262.5	84.8
5/22/2019	4:46:04 PM	262.2	84.5
5/22/2019	4:46:05 PM	261.9	84.2
5/22/2019	4:46:06 PM	261.6	83.9
5/22/2019	4:46:07 PM	261.4	83.7
5/22/2019	4:46:08 PM	261.1	83.4
5/22/2019	4:46:09 PM	260.8	83.1
5/22/2019	4:46:10 PM	260.6	82.9
5/22/2019	4:46:11 PM	260.3	82.6
5/22/2019	4:46:12 PM	260.0	82.3
5/22/2019	4:46:13 PM	259.7	82.0

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:46:14 PM	259.5	81.8
5/22/2019	4:46:15 PM	259.2	81.5
5/22/2019	4:46:16 PM	258.9	81.2
5/22/2019	4:46:17 PM	258.7	81.0
5/22/2019	4:46:18 PM	258.4	80.7
5/22/2019	4:46:19 PM	258.1	80.4
5/22/2019	4:46:20 PM	257.9	80.2
5/22/2019	4:46:21 PM	257.6	79.9
5/22/2019	4:46:22 PM	257.4	79.7
5/22/2019	4:46:23 PM	257.1	79.4
5/22/2019	4:46:24 PM	256.8	79.1
5/22/2019	4:46:25 PM	256.5	78.8
5/22/2019	4:46:26 PM	256.3	78.6
5/22/2019	4:46:27 PM	256.0	78.3
5/22/2019	4:46:28 PM	255.8	78.1
5/22/2019	4:46:29 PM	255.5	77.8
5/22/2019	4:46:30 PM	255.3	77.6
5/22/2019	4:46:31 PM	255.0	77.3
5/22/2019	4:46:32 PM	254.8	77.1
5/22/2019	4:46:33 PM	254.5	76.8
5/22/2019	4:46:34 PM	254.3	76.6
5/22/2019	4:46:35 PM	254.0	76.3
5/22/2019	4:46:36 PM	253.8	76.1
5/22/2019	4:46:37 PM	253.5	75.8
5/22/2019	4:46:38 PM	253.3	75.6
5/22/2019	4:46:39 PM	253.0	75.3
5/22/2019	4:46:40 PM	252.8	75.1
5/22/2019	4:46:41 PM	252.6	74.9
5/22/2019	4:46:42 PM	252.4	74.7
5/22/2019	4:46:43 PM	252.1	74.4
5/22/2019	4:46:44 PM	251.9	74.2
5/22/2019	4:46:45 PM	251.6	73.9
5/22/2019	4:46:46 PM	251.3	73.6
5/22/2019	4:46:47 PM	251.1	73.4
5/22/2019	4:46:48 PM	250.8	73.1
5/22/2019	4:46:49 PM	250.5	72.8
5/22/2019	4:46:50 PM	250.2	72.5
5/22/2019	4:46:51 PM	250.0	72.3
5/22/2019	4:46:52 PM	249.7	72.0
5/22/2019	4:46:53 PM	249.4	71.7
5/22/2019	4:46:54 PM	249.1	71.4
5/22/2019	4:46:55 PM	248.8	71.1
5/22/2019	4:46:56 PM	248.5	70.8
5/22/2019	4:46:57 PM	248.3	70.6
5/22/2019	4:46:58 PM	248.0	70.3
5/22/2019	4:46:59 PM	247.8	70.1
5/22/2019	4:47:00 PM	247.6	69.9
5/22/2019	4:47:01 PM	247.4	69.7
5/22/2019	4:47:02 PM	247.2	69.5
5/22/2019	4:47:03 PM	247.0	69.3
5/22/2019	4:47:04 PM	246.9	69.2
5/22/2019	4:47:05 PM	246.7	69.0
5/22/2019	4:47:06 PM	246.6	68.9
5/22/2019	4:47:07 PM	246.4	68.7
5/22/2019	4:47:08 PM	246.3	68.6
5/22/2019	4:47:09 PM	246.1	68.4
5/22/2019	4:47:10 PM	246.0	68.3
5/22/2019	4:47:11 PM	245.8	68.1
5/22/2019	4:47:12 PM	245.6	67.9
5/22/2019	4:47:13 PM	245.4	67.7
5/22/2019	4:47:14 PM	245.2	67.5
5/22/2019	4:47:15 PM	244.9	67.2
5/22/2019	4:47:16 PM	244.7	67.0
5/22/2019	4:47:17 PM	244.5	66.8
5/22/2019	4:47:18 PM	244.3	66.6
5/22/2019	4:47:19 PM	244.0	66.3
5/22/2019	4:47:20 PM	243.8	66.1
5/22/2019	4:47:21 PM	243.6	65.9
5/22/2019	4:47:22 PM	243.3	65.6
5/22/2019	4:47:23 PM	243.1	65.4
5/22/2019	4:47:24 PM	242.9	65.2
5/22/2019	4:47:25 PM	242.8	65.1
5/22/2019	4:47:26 PM	242.6	64.9
5/22/2019	4:47:27 PM	242.4	64.7
5/22/2019	4:47:28 PM	242.3	64.6
5/22/2019	4:47:29 PM	242.3	64.6
5/22/2019	4:47:30 PM	242.2	64.5
5/22/2019	4:47:31 PM	242.2	64.5
5/22/2019	4:47:32 PM	242.2	64.5

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:47:33 PM	242.2	64.5
5/22/2019	4:47:34 PM	242.3	64.6
5/22/2019	4:47:35 PM	242.4	64.7
5/22/2019	4:47:36 PM	242.5	64.8
5/22/2019	4:47:37 PM	242.7	65.0
5/22/2019	4:47:38 PM	242.9	65.2
5/22/2019	4:47:39 PM	243.1	65.4
5/22/2019	4:47:40 PM	243.4	65.7
5/22/2019	4:47:41 PM	243.7	66.0
5/22/2019	4:47:42 PM	243.9	66.2
5/22/2019	4:47:43 PM	244.2	66.5
5/22/2019	4:47:44 PM	244.4	66.7
5/22/2019	4:47:45 PM	244.7	67.0
5/22/2019	4:47:46 PM	244.9	67.2
5/22/2019	4:47:47 PM	245.1	67.4
5/22/2019	4:47:48 PM	245.3	67.6
5/22/2019	4:47:49 PM	245.4	67.7
5/22/2019	4:47:50 PM	245.5	67.8
5/22/2019	4:47:51 PM	245.5	67.8
5/22/2019	4:47:52 PM	245.6	67.9
5/22/2019	4:47:53 PM	245.6	67.9
5/22/2019	4:47:54 PM	245.5	67.8
5/22/2019	4:47:55 PM	245.5	67.8
5/22/2019	4:47:56 PM	245.4	67.7
5/22/2019	4:47:57 PM	245.2	67.5
5/22/2019	4:47:58 PM	245.0	67.3
5/22/2019	4:47:59 PM	244.8	67.1
5/22/2019	4:48:00 PM	244.6	66.9
5/22/2019	4:48:01 PM	244.4	66.7
5/22/2019	4:48:02 PM	244.1	66.4
5/22/2019	4:48:03 PM	243.9	66.2
5/22/2019	4:48:04 PM	243.5	65.8
5/22/2019	4:48:05 PM	243.3	65.6
5/22/2019	4:48:06 PM	242.9	65.2
5/22/2019	4:48:07 PM	242.7	65.0
5/22/2019	4:48:08 PM	242.3	64.6
5/22/2019	4:48:09 PM	242.0	64.3
5/22/2019	4:48:10 PM	241.7	64.0
5/22/2019	4:48:11 PM	241.4	63.7
5/22/2019	4:48:12 PM	241.1	63.4
5/22/2019	4:48:13 PM	240.8	63.1
5/22/2019	4:48:14 PM	240.4	62.7
5/22/2019	4:48:15 PM	240.1	62.4
5/22/2019	4:48:16 PM	239.7	62.0
5/22/2019	4:48:17 PM	239.4	61.7
5/22/2019	4:48:18 PM	239.1	61.4
5/22/2019	4:48:19 PM	238.8	61.1
5/22/2019	4:48:20 PM	238.4	60.7
5/22/2019	4:48:21 PM	238.1	60.4
5/22/2019	4:48:22 PM	237.7	60.0
5/22/2019	4:48:23 PM	237.4	59.7
5/22/2019	4:48:24 PM	237.0	59.3
5/22/2019	4:48:25 PM	236.7	59.0
5/22/2019	4:48:26 PM	236.4	58.7
5/22/2019	4:48:27 PM	236.0	58.3
5/22/2019	4:48:28 PM	235.7	58.0
5/22/2019	4:48:29 PM	235.4	57.7
5/22/2019	4:48:30 PM	235.1	57.4
5/22/2019	4:48:31 PM	234.8	57.1
5/22/2019	4:48:32 PM	234.5	56.8
5/22/2019	4:48:33 PM	234.1	56.4
5/22/2019	4:48:34 PM	233.8	56.1
5/22/2019	4:48:35 PM	233.5	55.8
5/22/2019	4:48:36 PM	233.2	55.5
5/22/2019	4:48:37 PM	232.9	55.2
5/22/2019	4:48:38 PM	232.6	54.9
5/22/2019	4:48:39 PM	232.3	54.6
5/22/2019	4:48:40 PM	232.0	54.3
5/22/2019	4:48:41 PM	231.7	54.0
5/22/2019	4:48:42 PM	231.4	53.7
5/22/2019	4:48:43 PM	231.1	53.4
5/22/2019	4:48:44 PM	230.8	53.1
5/22/2019	4:48:45 PM	230.6	52.9
5/22/2019	4:48:46 PM	230.3	52.6
5/22/2019	4:48:47 PM	230.1	52.4
5/22/2019	4:48:48 PM	229.9	52.2
5/22/2019	4:48:49 PM	229.7	52.0
5/22/2019	4:48:50 PM	229.4	51.7
5/22/2019	4:48:51 PM	229.2	51.5

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:48:52 PM	229.0	51.3
5/22/2019	4:48:53 PM	228.8	51.1
5/22/2019	4:48:54 PM	228.6	50.9
5/22/2019	4:48:55 PM	228.4	50.7
5/22/2019	4:48:56 PM	228.2	50.5
5/22/2019	4:48:57 PM	228.0	50.3
5/22/2019	4:48:58 PM	227.8	50.1
5/22/2019	4:48:59 PM	227.6	49.9
5/22/2019	4:49:00 PM	227.4	49.7
5/22/2019	4:49:01 PM	227.2	49.5
5/22/2019	4:49:02 PM	227.1	49.4
5/22/2019	4:49:03 PM	226.9	49.2
5/22/2019	4:49:04 PM	226.7	49.0
5/22/2019	4:49:05 PM	226.6	48.9
5/22/2019	4:49:06 PM	226.4	48.7
5/22/2019	4:49:07 PM	226.3	48.6
5/22/2019	4:49:08 PM	226.1	48.4
5/22/2019	4:49:09 PM	226.0	48.3
5/22/2019	4:49:10 PM	225.8	48.1
5/22/2019	4:49:11 PM	225.6	47.9
5/22/2019	4:49:12 PM	225.5	47.8
5/22/2019	4:49:13 PM	225.3	47.6
5/22/2019	4:49:14 PM	225.2	47.5
5/22/2019	4:49:15 PM	225.0	47.3
5/22/2019	4:49:16 PM	224.9	47.2
5/22/2019	4:49:17 PM	224.7	47.0
5/22/2019	4:49:18 PM	224.6	46.9
5/22/2019	4:49:19 PM	224.4	46.7
5/22/2019	4:49:20 PM	224.3	46.6
5/22/2019	4:49:21 PM	224.1	46.4
5/22/2019	4:49:22 PM	224.0	46.3
5/22/2019	4:49:23 PM	223.9	46.2
5/22/2019	4:49:24 PM	223.7	46.0
5/22/2019	4:49:25 PM	223.6	45.9
5/22/2019	4:49:26 PM	223.5	45.8
5/22/2019	4:49:27 PM	223.4	45.7
5/22/2019	4:49:28 PM	223.3	45.6
5/22/2019	4:49:29 PM	223.1	45.4
5/22/2019	4:49:30 PM	223.0	45.3
5/22/2019	4:49:31 PM	222.9	45.2
5/22/2019	4:49:32 PM	222.8	45.1
5/22/2019	4:49:33 PM	222.7	45.0
5/22/2019	4:49:34 PM	222.5	44.8
5/22/2019	4:49:35 PM	222.4	44.7
5/22/2019	4:49:36 PM	222.3	44.6
5/22/2019	4:49:37 PM	222.1	44.4
5/22/2019	4:49:38 PM	222.0	44.3
5/22/2019	4:49:39 PM	221.9	44.2
5/22/2019	4:49:40 PM	221.7	44.0
5/22/2019	4:49:41 PM	221.6	43.9
5/22/2019	4:49:42 PM	221.5	43.8
5/22/2019	4:49:43 PM	221.4	43.7
5/22/2019	4:49:44 PM	221.2	43.5
5/22/2019	4:49:45 PM	221.1	43.4
5/22/2019	4:49:46 PM	221.0	43.3
5/22/2019	4:49:47 PM	220.8	43.1
5/22/2019	4:49:48 PM	220.7	43.0
5/22/2019	4:49:49 PM	220.5	42.8
5/22/2019	4:49:50 PM	220.4	42.7
5/22/2019	4:49:51 PM	220.2	42.5
5/22/2019	4:49:52 PM	220.1	42.4
5/22/2019	4:49:53 PM	219.9	42.2
5/22/2019	4:49:54 PM	219.8	42.1
5/22/2019	4:49:55 PM	219.6	41.9
5/22/2019	4:49:56 PM	219.5	41.8
5/22/2019	4:49:57 PM	219.3	41.6
5/22/2019	4:49:58 PM	219.1	41.4
5/22/2019	4:49:59 PM	219.0	41.3
5/22/2019	4:50:00 PM	218.9	41.2
5/22/2019	4:50:01 PM	218.7	41.0
5/22/2019	4:50:02 PM	218.6	40.9
5/22/2019	4:50:03 PM	218.5	40.8
5/22/2019	4:50:04 PM	218.3	40.6
5/22/2019	4:50:05 PM	218.2	40.5
5/22/2019	4:50:06 PM	218.1	40.4
5/22/2019	4:50:07 PM	217.9	40.2
5/22/2019	4:50:08 PM	217.8	40.1
5/22/2019	4:50:09 PM	217.6	39.9
5/22/2019	4:50:10 PM	217.5	39.8

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:50:11 PM	217.4	39.7
5/22/2019	4:50:12 PM	217.2	39.5
5/22/2019	4:50:13 PM	217.1	39.4
5/22/2019	4:50:14 PM	217.0	39.3
5/22/2019	4:50:15 PM	216.9	39.2
5/22/2019	4:50:16 PM	216.7	39.0
5/22/2019	4:50:17 PM	216.6	38.9
5/22/2019	4:50:18 PM	216.5	38.8
5/22/2019	4:50:19 PM	216.4	38.7
5/22/2019	4:50:20 PM	216.3	38.6
5/22/2019	4:50:21 PM	216.2	38.5
5/22/2019	4:50:22 PM	216.1	38.4
5/22/2019	4:50:23 PM	216.0	38.3
5/22/2019	4:50:24 PM	215.9	38.2
5/22/2019	4:50:25 PM	215.8	38.1
5/22/2019	4:50:26 PM	215.7	38.0
5/22/2019	4:50:27 PM	215.6	37.9
5/22/2019	4:50:28 PM	215.5	37.8
5/22/2019	4:50:29 PM	215.4	37.7
5/22/2019	4:50:30 PM	215.3	37.6
5/22/2019	4:50:31 PM	215.2	37.5
5/22/2019	4:50:32 PM	215.1	37.4
5/22/2019	4:50:33 PM	215.0	37.3
5/22/2019	4:50:34 PM	214.9	37.2
5/22/2019	4:50:35 PM	214.7	37.0
5/22/2019	4:50:36 PM	214.6	36.9
5/22/2019	4:50:37 PM	214.5	36.8
5/22/2019	4:50:38 PM	214.4	36.7
5/22/2019	4:50:39 PM	214.2	36.5
5/22/2019	4:50:40 PM	214.1	36.4
5/22/2019	4:50:41 PM	214.0	36.3
5/22/2019	4:50:42 PM	213.9	36.2
5/22/2019	4:50:43 PM	213.8	36.1
5/22/2019	4:50:44 PM	213.7	36.0
5/22/2019	4:50:45 PM	213.6	35.9
5/22/2019	4:50:46 PM	213.5	35.8
5/22/2019	4:50:47 PM	213.4	35.7
5/22/2019	4:50:48 PM	213.3	35.6
5/22/2019	4:50:49 PM	213.2	35.5
5/22/2019	4:50:50 PM	213.1	35.4
5/22/2019	4:50:51 PM	213.0	35.3
5/22/2019	4:50:52 PM	212.9	35.2
5/22/2019	4:50:53 PM	212.8	35.1
5/22/2019	4:50:54 PM	212.7	35.0
5/22/2019	4:50:55 PM	212.6	34.9
5/22/2019	4:50:56 PM	212.5	34.8
5/22/2019	4:50:57 PM	212.4	34.7
5/22/2019	4:50:58 PM	212.3	34.6
5/22/2019	4:50:59 PM	212.2	34.5
5/22/2019	4:51:00 PM	212.1	34.4
5/22/2019	4:51:01 PM	212.0	34.3
5/22/2019	4:51:02 PM	211.9	34.2
5/22/2019	4:51:03 PM	211.8	34.1
5/22/2019	4:51:04 PM	211.7	34.0
5/22/2019	4:51:05 PM	211.5	33.8
5/22/2019	4:51:06 PM	211.4	33.7
5/22/2019	4:51:07 PM	211.3	33.6
5/22/2019	4:51:08 PM	211.2	33.5
5/22/2019	4:51:09 PM	211.1	33.4
5/22/2019	4:51:10 PM	211.0	33.3
5/22/2019	4:51:11 PM	210.9	33.2
5/22/2019	4:51:12 PM	210.8	33.1
5/22/2019	4:51:13 PM	210.7	33.0
5/22/2019	4:51:14 PM	210.6	32.9
5/22/2019	4:51:15 PM	210.5	32.8
5/22/2019	4:51:16 PM	210.4	32.7
5/22/2019	4:51:17 PM	210.3	32.6
5/22/2019	4:51:18 PM	210.2	32.5
5/22/2019	4:51:19 PM	210.1	32.4
5/22/2019	4:51:20 PM	210.0	32.3
5/22/2019	4:51:21 PM	210.0	32.3
5/22/2019	4:51:22 PM	209.9	32.2
5/22/2019	4:51:23 PM	209.8	32.1
5/22/2019	4:51:24 PM	209.7	32.0
5/22/2019	4:51:25 PM	209.6	31.9
5/22/2019	4:51:26 PM	209.6	31.9
5/22/2019	4:51:27 PM	209.5	31.8
5/22/2019	4:51:28 PM	209.4	31.7
5/22/2019	4:51:29 PM	209.3	31.6

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:51:30 PM	209.2	31.5
5/22/2019	4:51:31 PM	209.2	31.5
5/22/2019	4:51:32 PM	209.1	31.4
5/22/2019	4:51:33 PM	209.0	31.3
5/22/2019	4:51:34 PM	208.9	31.2
5/22/2019	4:51:35 PM	208.8	31.1
5/22/2019	4:51:36 PM	208.6	30.9
5/22/2019	4:51:37 PM	208.5	30.8
5/22/2019	4:51:38 PM	208.4	30.7
5/22/2019	4:51:39 PM	208.3	30.6
5/22/2019	4:51:40 PM	208.2	30.5
5/22/2019	4:51:41 PM	208.1	30.4
5/22/2019	4:51:42 PM	208.0	30.3
5/22/2019	4:51:43 PM	207.9	30.2
5/22/2019	4:51:44 PM	207.8	30.1
5/22/2019	4:51:45 PM	207.7	30.0
5/22/2019	4:51:46 PM	207.6	29.9
5/22/2019	4:51:47 PM	207.5	29.8
5/22/2019	4:51:48 PM	207.4	29.7
5/22/2019	4:51:49 PM	207.3	29.6
5/22/2019	4:51:50 PM	207.2	29.5
5/22/2019	4:51:51 PM	207.1	29.4
5/22/2019	4:51:52 PM	207.0	29.3
5/22/2019	4:51:53 PM	206.9	29.2
5/22/2019	4:51:54 PM	206.9	29.2
5/22/2019	4:51:55 PM	206.8	29.1
5/22/2019	4:51:56 PM	206.7	29.0
5/22/2019	4:51:57 PM	206.6	28.9
5/22/2019	4:51:58 PM	206.6	28.9
5/22/2019	4:51:59 PM	206.5	28.8
5/22/2019	4:52:00 PM	206.5	28.8
5/22/2019	4:52:01 PM	206.4	28.7
5/22/2019	4:52:02 PM	206.4	28.7
5/22/2019	4:52:03 PM	206.3	28.6
5/22/2019	4:52:04 PM	206.3	28.6
5/22/2019	4:52:05 PM	206.2	28.5
5/22/2019	4:52:06 PM	206.2	28.5
5/22/2019	4:52:07 PM	206.1	28.4
5/22/2019	4:52:08 PM	206.1	28.4
5/22/2019	4:52:09 PM	206.0	28.3
5/22/2019	4:52:10 PM	206.0	28.3
5/22/2019	4:52:11 PM	206.0	28.3
5/22/2019	4:52:12 PM	205.9	28.2
5/22/2019	4:52:13 PM	205.8	28.1
5/22/2019	4:52:14 PM	205.8	28.1
5/22/2019	4:52:15 PM	205.7	28.0
5/22/2019	4:52:16 PM	205.7	28.0
5/22/2019	4:52:17 PM	205.6	27.9
5/22/2019	4:52:18 PM	205.6	27.9
5/22/2019	4:52:19 PM	205.5	27.8
5/22/2019	4:52:20 PM	205.5	27.8
5/22/2019	4:52:21 PM	205.4	27.7
5/22/2019	4:52:22 PM	205.4	27.7
5/22/2019	4:52:23 PM	205.3	27.6
5/22/2019	4:52:24 PM	205.3	27.6
5/22/2019	4:52:25 PM	205.2	27.5
5/22/2019	4:52:26 PM	205.2	27.5
5/22/2019	4:52:27 PM	205.1	27.4
5/22/2019	4:52:28 PM	205.1	27.4
5/22/2019	4:52:29 PM	205.0	27.3
5/22/2019	4:52:30 PM	205.0	27.3
5/22/2019	4:52:31 PM	204.9	27.2
5/22/2019	4:52:32 PM	204.8	27.1
5/22/2019	4:52:33 PM	204.8	27.1
5/22/2019	4:52:34 PM	204.7	27.0
5/22/2019	4:52:35 PM	204.6	26.9
5/22/2019	4:52:36 PM	204.6	26.9
5/22/2019	4:52:37 PM	204.5	26.8
5/22/2019	4:52:38 PM	204.4	26.7
5/22/2019	4:52:39 PM	204.4	26.7
5/22/2019	4:52:40 PM	204.3	26.6
5/22/2019	4:52:41 PM	204.2	26.5
5/22/2019	4:52:42 PM	204.1	26.4
5/22/2019	4:52:43 PM	204.1	26.4
5/22/2019	4:52:44 PM	204.0	26.3
5/22/2019	4:52:45 PM	203.9	26.2
5/22/2019	4:52:46 PM	203.8	26.1
5/22/2019	4:52:47 PM	203.8	26.1
5/22/2019	4:52:48 PM	203.7	26.0

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:52:49 PM	203.6	25.9
5/22/2019	4:52:50 PM	203.5	25.8
5/22/2019	4:52:51 PM	203.4	25.7
5/22/2019	4:52:52 PM	203.3	25.6
5/22/2019	4:52:53 PM	203.3	25.6
5/22/2019	4:52:54 PM	203.2	25.5
5/22/2019	4:52:55 PM	203.1	25.4
5/22/2019	4:52:56 PM	203.0	25.3
5/22/2019	4:52:57 PM	203.0	25.3
5/22/2019	4:52:58 PM	202.9	25.2
5/22/2019	4:52:59 PM	202.8	25.1
5/22/2019	4:53:00 PM	202.8	25.1
5/22/2019	4:53:01 PM	202.7	25.0
5/22/2019	4:53:02 PM	202.7	25.0
5/22/2019	4:53:03 PM	202.6	24.9
5/22/2019	4:53:04 PM	202.6	24.9
5/22/2019	4:53:05 PM	202.5	24.8
5/22/2019	4:53:06 PM	202.5	24.8
5/22/2019	4:53:07 PM	202.4	24.7
5/22/2019	4:53:08 PM	202.4	24.7
5/22/2019	4:53:09 PM	202.3	24.6
5/22/2019	4:53:10 PM	202.3	24.6
5/22/2019	4:53:11 PM	202.3	24.6
5/22/2019	4:53:12 PM	202.2	24.5
5/22/2019	4:53:13 PM	202.2	24.5
5/22/2019	4:53:14 PM	202.2	24.5
5/22/2019	4:53:15 PM	202.1	24.4
5/22/2019	4:53:16 PM	202.1	24.4
5/22/2019	4:53:17 PM	202.0	24.3
5/22/2019	4:53:18 PM	202.0	24.3
5/22/2019	4:53:19 PM	202.0	24.3
5/22/2019	4:53:20 PM	201.9	24.2
5/22/2019	4:53:21 PM	201.9	24.2
5/22/2019	4:53:22 PM	201.9	24.2
5/22/2019	4:53:23 PM	201.8	24.1
5/22/2019	4:53:24 PM	201.8	24.1
5/22/2019	4:53:25 PM	201.7	24.0
5/22/2019	4:53:26 PM	201.6	23.9
5/22/2019	4:53:27 PM	201.6	23.9
5/22/2019	4:53:28 PM	201.6	23.9
5/22/2019	4:53:29 PM	201.5	23.8
5/22/2019	4:53:30 PM	201.5	23.8
5/22/2019	4:53:31 PM	201.4	23.7
5/22/2019	4:53:32 PM	201.4	23.7
5/22/2019	4:53:33 PM	201.3	23.6
5/22/2019	4:53:34 PM	201.3	23.6
5/22/2019	4:53:35 PM	201.2	23.5
5/22/2019	4:53:36 PM	201.2	23.5
5/22/2019	4:53:37 PM	201.1	23.4
5/22/2019	4:53:38 PM	201.0	23.3
5/22/2019	4:53:39 PM	201.0	23.3
5/22/2019	4:53:40 PM	201.0	23.3
5/22/2019	4:53:41 PM	200.9	23.2
5/22/2019	4:53:42 PM	200.9	23.2
5/22/2019	4:53:43 PM	200.8	23.1
5/22/2019	4:53:44 PM	200.8	23.1
5/22/2019	4:53:45 PM	200.8	23.1
5/22/2019	4:53:46 PM	200.8	23.1
5/22/2019	4:53:47 PM	200.7	23.0
5/22/2019	4:53:48 PM	200.7	23.0
5/22/2019	4:53:49 PM	200.7	23.0
5/22/2019	4:53:50 PM	200.7	23.0
5/22/2019	4:53:51 PM	200.7	23.0
5/22/2019	4:53:52 PM	200.7	23.0
5/22/2019	4:53:53 PM	200.7	23.0
5/22/2019	4:53:54 PM	200.7	23.0
5/22/2019	4:53:55 PM	200.7	23.0
5/22/2019	4:53:56 PM	200.7	23.0
5/22/2019	4:53:57 PM	200.6	22.9
5/22/2019	4:53:58 PM	200.6	22.9
5/22/2019	4:53:59 PM	200.6	22.9
5/22/2019	4:54:00 PM	200.6	22.9
5/22/2019	4:54:01 PM	200.6	22.9
5/22/2019	4:54:02 PM	200.5	22.8
5/22/2019	4:54:03 PM	200.5	22.8
5/22/2019	4:54:04 PM	200.5	22.8
5/22/2019	4:54:05 PM	200.4	22.7
5/22/2019	4:54:06 PM	200.4	22.7
5/22/2019	4:54:07 PM	200.3	22.6

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:54:08 PM	200.2	22.5
5/22/2019	4:54:09 PM	200.1	22.4
5/22/2019	4:54:10 PM	200.0	22.3
5/22/2019	4:54:11 PM	200.0	22.3
5/22/2019	4:54:12 PM	199.9	22.2
5/22/2019	4:54:13 PM	199.9	22.2
5/22/2019	4:54:14 PM	199.8	22.1
5/22/2019	4:54:15 PM	199.7	22.0
5/22/2019	4:54:16 PM	199.7	22.0
5/22/2019	4:54:17 PM	199.6	21.9
5/22/2019	4:54:18 PM	199.6	21.9
5/22/2019	4:54:19 PM	199.6	21.9
5/22/2019	4:54:20 PM	199.5	21.8
5/22/2019	4:54:21 PM	199.5	21.8
5/22/2019	4:54:22 PM	199.5	21.8
5/22/2019	4:54:23 PM	199.5	21.8
5/22/2019	4:54:24 PM	199.5	21.8
5/22/2019	4:54:25 PM	199.5	21.8
5/22/2019	4:54:26 PM	199.5	21.8
5/22/2019	4:54:27 PM	199.4	21.7
5/22/2019	4:54:28 PM	199.4	21.7
5/22/2019	4:54:29 PM	199.4	21.7
5/22/2019	4:54:30 PM	199.3	21.6
5/22/2019	4:54:31 PM	199.3	21.6
5/22/2019	4:54:32 PM	199.3	21.6
5/22/2019	4:54:33 PM	199.2	21.5
5/22/2019	4:54:34 PM	199.1	21.4
5/22/2019	4:54:35 PM	199.0	21.3
5/22/2019	4:54:36 PM	199.0	21.3
5/22/2019	4:54:37 PM	198.9	21.2
5/22/2019	4:54:38 PM	198.8	21.1
5/22/2019	4:54:39 PM	198.8	21.1
5/22/2019	4:54:40 PM	198.7	21.0
5/22/2019	4:54:41 PM	198.7	21.0
5/22/2019	4:54:42 PM	198.6	20.9
5/22/2019	4:54:43 PM	198.6	20.9
5/22/2019	4:54:44 PM	198.5	20.8
5/22/2019	4:54:45 PM	198.5	20.8
5/22/2019	4:54:46 PM	198.4	20.7
5/22/2019	4:54:47 PM	198.4	20.7
5/22/2019	4:54:48 PM	198.4	20.7
5/22/2019	4:54:49 PM	198.4	20.7
5/22/2019	4:54:50 PM	198.3	20.6
5/22/2019	4:54:51 PM	198.3	20.6
5/22/2019	4:54:52 PM	198.2	20.5
5/22/2019	4:54:53 PM	198.2	20.5
5/22/2019	4:54:54 PM	198.1	20.4
5/22/2019	4:54:55 PM	198.1	20.4
5/22/2019	4:54:56 PM	198.0	20.3
5/22/2019	4:54:57 PM	197.9	20.2
5/22/2019	4:54:58 PM	197.8	20.1
5/22/2019	4:54:59 PM	197.8	20.1
5/22/2019	4:55:00 PM	197.7	20.0
5/22/2019	4:55:01 PM	197.6	19.9
5/22/2019	4:55:02 PM	197.5	19.8
5/22/2019	4:55:03 PM	197.4	19.7
5/22/2019	4:55:04 PM	197.4	19.7
5/22/2019	4:55:05 PM	197.3	19.6
5/22/2019	4:55:06 PM	197.2	19.5
5/22/2019	4:55:07 PM	197.2	19.5
5/22/2019	4:55:08 PM	197.1	19.4
5/22/2019	4:55:09 PM	197.0	19.3
5/22/2019	4:55:10 PM	197.0	19.3
5/22/2019	4:55:11 PM	196.9	19.2
5/22/2019	4:55:12 PM	196.9	19.2
5/22/2019	4:55:13 PM	196.8	19.1
5/22/2019	4:55:14 PM	196.8	19.1
5/22/2019	4:55:15 PM	196.7	19.0
5/22/2019	4:55:16 PM	196.7	19.0
5/22/2019	4:55:17 PM	196.7	19.0
5/22/2019	4:55:18 PM	196.6	18.9
5/22/2019	4:55:19 PM	196.6	18.9
5/22/2019	4:55:20 PM	196.5	18.8
5/22/2019	4:55:21 PM	196.5	18.8
5/22/2019	4:55:22 PM	196.5	18.8
5/22/2019	4:55:23 PM	196.5	18.8
5/22/2019	4:55:24 PM	196.4	18.7
5/22/2019	4:55:25 PM	196.4	18.7
5/22/2019	4:55:26 PM	196.4	18.7

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:55:27 PM	196.4	18.7
5/22/2019	4:55:28 PM	196.3	18.6
5/22/2019	4:55:29 PM	196.3	18.6
5/22/2019	4:55:30 PM	196.3	18.6
5/22/2019	4:55:31 PM	196.3	18.6
5/22/2019	4:55:32 PM	196.2	18.5
5/22/2019	4:55:33 PM	196.2	18.5
5/22/2019	4:55:34 PM	196.2	18.5
5/22/2019	4:55:35 PM	196.2	18.5
5/22/2019	4:55:36 PM	196.1	18.4
5/22/2019	4:55:37 PM	196.1	18.4
5/22/2019	4:55:38 PM	196.1	18.4
5/22/2019	4:55:39 PM	196.1	18.4
5/22/2019	4:55:40 PM	196.1	18.4
5/22/2019	4:55:41 PM	196.0	18.3
5/22/2019	4:55:42 PM	196.0	18.3
5/22/2019	4:55:43 PM	195.9	18.2
5/22/2019	4:55:44 PM	195.9	18.2
5/22/2019	4:55:45 PM	195.8	18.1
5/22/2019	4:55:46 PM	195.8	18.1
5/22/2019	4:55:47 PM	195.7	18.0
5/22/2019	4:55:48 PM	195.7	18.0
5/22/2019	4:55:49 PM	195.6	17.9
5/22/2019	4:55:50 PM	195.6	17.9
5/22/2019	4:55:51 PM	195.6	17.9
5/22/2019	4:55:52 PM	195.5	17.8
5/22/2019	4:55:53 PM	195.5	17.8
5/22/2019	4:55:54 PM	195.5	17.8
5/22/2019	4:55:55 PM	195.5	17.8
5/22/2019	4:55:56 PM	195.4	17.7
5/22/2019	4:55:57 PM	195.4	17.7
5/22/2019	4:55:58 PM	195.4	17.7
5/22/2019	4:55:59 PM	195.4	17.7
5/22/2019	4:56:00 PM	195.4	17.7
5/22/2019	4:56:01 PM	195.3	17.6
5/22/2019	4:56:02 PM	195.3	17.6
5/22/2019	4:56:03 PM	195.3	17.6
5/22/2019	4:56:04 PM	195.3	17.6
5/22/2019	4:56:05 PM	195.2	17.5
5/22/2019	4:56:06 PM	195.2	17.5
5/22/2019	4:56:07 PM	195.2	17.5
5/22/2019	4:56:08 PM	195.2	17.5
5/22/2019	4:56:09 PM	195.2	17.5
5/22/2019	4:56:10 PM	195.2	17.5
5/22/2019	4:56:11 PM	195.2	17.5
5/22/2019	4:56:12 PM	195.2	17.5
5/22/2019	4:56:13 PM	195.1	17.4
5/22/2019	4:56:14 PM	195.1	17.4
5/22/2019	4:56:15 PM	195.1	17.4
5/22/2019	4:56:16 PM	195.1	17.4
5/22/2019	4:56:17 PM	195.0	17.3
5/22/2019	4:56:18 PM	195.0	17.3
5/22/2019	4:56:19 PM	195.0	17.3
5/22/2019	4:56:20 PM	194.9	17.2
5/22/2019	4:56:21 PM	194.9	17.2
5/22/2019	4:56:22 PM	194.9	17.2
5/22/2019	4:56:23 PM	194.8	17.1
5/22/2019	4:56:24 PM	194.8	17.1
5/22/2019	4:56:25 PM	194.7	17.0
5/22/2019	4:56:26 PM	194.7	17.0
5/22/2019	4:56:27 PM	194.7	17.0
5/22/2019	4:56:28 PM	194.6	16.9
5/22/2019	4:56:29 PM	194.6	16.9
5/22/2019	4:56:30 PM	194.6	16.9
5/22/2019	4:56:31 PM	194.5	16.8
5/22/2019	4:56:32 PM	194.5	16.8
5/22/2019	4:56:33 PM	194.4	16.7
5/22/2019	4:56:34 PM	194.4	16.7
5/22/2019	4:56:35 PM	194.4	16.7
5/22/2019	4:56:36 PM	194.3	16.6
5/22/2019	4:56:37 PM	194.3	16.6
5/22/2019	4:56:38 PM	194.2	16.5
5/22/2019	4:56:39 PM	194.2	16.5
5/22/2019	4:56:40 PM	194.1	16.4
5/22/2019	4:56:41 PM	194.1	16.4
5/22/2019	4:56:42 PM	194.0	16.3
5/22/2019	4:56:43 PM	193.9	16.2
5/22/2019	4:56:44 PM	193.8	16.1
5/22/2019	4:56:45 PM	193.8	16.1

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:56:46 PM	193.7	16.0
5/22/2019	4:56:47 PM	193.6	15.9
5/22/2019	4:56:48 PM	193.5	15.8
5/22/2019	4:56:49 PM	193.5	15.8
5/22/2019	4:56:50 PM	193.4	15.7
5/22/2019	4:56:51 PM	193.3	15.6
5/22/2019	4:56:52 PM	193.2	15.5
5/22/2019	4:56:53 PM	193.2	15.5
5/22/2019	4:56:54 PM	193.1	15.4
5/22/2019	4:56:55 PM	193.1	15.4
5/22/2019	4:56:56 PM	193.0	15.3
5/22/2019	4:56:57 PM	193.0	15.3
5/22/2019	4:56:58 PM	193.0	15.3
5/22/2019	4:56:59 PM	192.9	15.2
5/22/2019	4:57:00 PM	192.9	15.2
5/22/2019	4:57:01 PM	192.9	15.2
5/22/2019	4:57:02 PM	192.8	15.1
5/22/2019	4:57:03 PM	192.8	15.1
5/22/2019	4:57:04 PM	192.8	15.1
5/22/2019	4:57:05 PM	192.7	15.0
5/22/2019	4:57:06 PM	192.7	15.0
5/22/2019	4:57:07 PM	192.7	15.0
5/22/2019	4:57:08 PM	192.7	15.0
5/22/2019	4:57:09 PM	192.7	15.0
5/22/2019	4:57:10 PM	192.7	15.0
5/22/2019	4:57:11 PM	192.7	15.0
5/22/2019	4:57:12 PM	192.7	15.0
5/22/2019	4:57:13 PM	192.7	15.0
5/22/2019	4:57:14 PM	192.7	15.0
5/22/2019	4:57:15 PM	192.6	14.9
5/22/2019	4:57:16 PM	192.6	14.9
5/22/2019	4:57:17 PM	192.6	14.9
5/22/2019	4:57:18 PM	192.6	14.9
5/22/2019	4:57:19 PM	192.6	14.9
5/22/2019	4:57:20 PM	192.5	14.8
5/22/2019	4:57:21 PM	192.5	14.8
5/22/2019	4:57:22 PM	192.4	14.7
5/22/2019	4:57:23 PM	192.4	14.7
5/22/2019	4:57:24 PM	192.4	14.7
5/22/2019	4:57:25 PM	192.3	14.6
5/22/2019	4:57:26 PM	192.3	14.6
5/22/2019	4:57:27 PM	192.3	14.6
5/22/2019	4:57:28 PM	192.2	14.5
5/22/2019	4:57:29 PM	192.2	14.5
5/22/2019	4:57:30 PM	192.2	14.5
5/22/2019	4:57:31 PM	192.1	14.4
5/22/2019	4:57:32 PM	192.1	14.4
5/22/2019	4:57:33 PM	192.0	14.3
5/22/2019	4:57:34 PM	191.9	14.2
5/22/2019	4:57:35 PM	191.9	14.2
5/22/2019	4:57:36 PM	191.8	14.1
5/22/2019	4:57:37 PM	191.8	14.1
5/22/2019	4:57:38 PM	191.7	14.0
5/22/2019	4:57:39 PM	191.6	13.9
5/22/2019	4:57:40 PM	191.6	13.9
5/22/2019	4:57:41 PM	191.5	13.8
5/22/2019	4:57:42 PM	191.5	13.8
5/22/2019	4:57:43 PM	191.4	13.7
5/22/2019	4:57:44 PM	191.4	13.7
5/22/2019	4:57:45 PM	191.4	13.7
5/22/2019	4:57:46 PM	191.3	13.6
5/22/2019	4:57:47 PM	191.3	13.6
5/22/2019	4:57:48 PM	191.3	13.6
5/22/2019	4:57:49 PM	191.2	13.5
5/22/2019	4:57:50 PM	191.2	13.5
5/22/2019	4:57:51 PM	191.2	13.5
5/22/2019	4:57:52 PM	191.1	13.4
5/22/2019	4:57:53 PM	191.1	13.4
5/22/2019	4:57:54 PM	191.1	13.4
5/22/2019	4:57:55 PM	191.0	13.3
5/22/2019	4:57:56 PM	191.0	13.3
5/22/2019	4:57:57 PM	191.0	13.3
5/22/2019	4:57:58 PM	190.9	13.2
5/22/2019	4:57:59 PM	190.9	13.2
5/22/2019	4:58:00 PM	190.9	13.2
5/22/2019	4:58:01 PM	190.9	13.2
5/22/2019	4:58:02 PM	190.8	13.1
5/22/2019	4:58:03 PM	190.8	13.1
5/22/2019	4:58:04 PM	190.8	13.1

APPENDIX E47: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-4 May
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
5/22/2019	4:58:05 PM	190.7	13.0
5/22/2019	4:58:06 PM	190.7	13.0
5/22/2019	4:58:07 PM	190.7	13.0
5/22/2019	4:58:08 PM	190.6	12.9
5/22/2019	4:58:09 PM	190.6	12.9
5/22/2019	4:58:10 PM	190.6	12.9
5/22/2019	4:58:11 PM	190.5	12.8
5/22/2019	4:58:12 PM	190.5	12.8
5/22/2019	4:58:13 PM	190.5	12.8
5/22/2019	4:58:14 PM	190.5	12.8
5/22/2019	4:58:15 PM	190.4	12.7
5/22/2019	4:58:16 PM	190.4	12.7
5/22/2019	4:58:17 PM	190.4	12.7
5/22/2019	4:58:18 PM	190.3	12.6
5/22/2019	4:58:19 PM	190.3	12.6
5/22/2019	4:58:20 PM	190.3	12.6
5/22/2019	4:58:21 PM	190.3	12.6
5/22/2019	4:58:22 PM	190.2	12.5
5/22/2019	4:58:23 PM	190.2	12.5
5/22/2019	4:58:24 PM	190.2	12.5
5/22/2019	4:58:25 PM	190.1	12.4
5/22/2019	4:58:26 PM	190.1	12.4
5/22/2019	4:58:27 PM	190.1	12.4
5/22/2019	4:58:28 PM	190.0	12.3
5/22/2019	4:58:29 PM	190.0	12.3
5/22/2019	4:58:30 PM	190.0	12.3
5/22/2019	4:58:31 PM	189.9	12.2
5/22/2019	4:58:32 PM	189.9	12.2
5/22/2019	4:58:33 PM	189.9	12.2
5/22/2019	4:58:34 PM	189.9	12.2
5/22/2019	4:58:35 PM	189.9	12.2
5/22/2019	4:58:36 PM	189.8	12.1
5/22/2019	4:58:37 PM	189.8	12.1
5/22/2019	4:58:38 PM	189.8	12.1
5/22/2019	4:58:39 PM	189.7	12.0
5/22/2019	4:58:40 PM	189.7	12.0
5/22/2019	4:58:41 PM	189.6	11.9
5/22/2019	4:58:42 PM	189.6	11.9
5/22/2019	4:58:43 PM	189.5	11.8
5/22/2019	4:58:44 PM	189.5	11.8
5/22/2019	4:58:45 PM	189.4	11.7
5/22/2019	4:58:46 PM	189.4	11.7
5/22/2019	4:58:47 PM	189.3	11.6
5/22/2019	4:58:48 PM	189.3	11.6
5/22/2019	4:58:49 PM	189.2	11.5
5/22/2019	4:58:50 PM	189.2	11.5
5/22/2019	4:58:51 PM	189.2	11.5
5/22/2019	4:58:52 PM	189.1	11.4
5/22/2019	4:58:53 PM	189.1	11.4
5/22/2019	4:58:54 PM	189.1	11.4
5/22/2019	4:58:55 PM	189.1	11.4
5/22/2019	4:58:56 PM	189.1	11.4
5/22/2019	4:58:57 PM	189.0	11.3
5/22/2019	4:58:58 PM	189.0	11.3
5/22/2019	4:58:59 PM	189.0	11.3
5/22/2019	4:59:00 PM	189.0	11.3
5/22/2019	4:59:01 PM	188.9	11.2
5/22/2019	4:59:02 PM	188.9	11.2
5/22/2019	4:59:03 PM	188.9	11.2
5/22/2019	4:59:04 PM	188.9	11.2
5/22/2019	4:59:05 PM	188.8	11.1
5/22/2019	4:59:06 PM	188.8	11.1
5/22/2019	4:59:07 PM	188.7	11.0
5/22/2019	4:59:08 PM	188.7	11.0
5/22/2019	4:59:09 PM	188.7	11.0
5/22/2019	4:59:10 PM	188.6	10.9
5/22/2019	4:59:11 PM	188.6	10.9
5/22/2019	4:59:12 PM	188.6	10.9
5/22/2019	4:59:13 PM	188.5	10.8
5/22/2019	4:59:14 PM	188.5	10.8
5/22/2019	4:59:15 PM	188.4	10.7
5/22/2019	4:59:16 PM	188.4	10.7
5/22/2019	4:59:17 PM	188.4	10.7
5/22/2019	4:59:18 PM	188.4	10.7

Table E2 SEEP-B2 TEST-4 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2-TEST-4	1528	151.5	NR
SEEP-B2-TEST-4	1532	165.2	NR
SEEP-B2-TEST-4	1533	167	NR
SEEP-B2-TEST-4	1534	166.4	NR
Average		162.5	(µS/cms)
Geometric Mean		162.4	(µS/cms)
Average (pre-test)		178.7	(µS/cms)
Average (post-test)		182.6	(µS/cms)

Table E3 SEEP-B2 TEST-4 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
		(µS/cms)	(°C)
SEEP-B2-TEST-4	1	29.9	NR
SEEP-B2-TEST-4	10	167	NR
SEEP-B2-TEST-4	100	426	NR
SEEP-B2-TEST-4	1,000	3,329	NR
SEEP-B2-TEST-4	10,000	15,499	NR
SEEP-B2-TEST-4	100,000	127,509	NR

Table E4 SEEP-B2 TEST-4 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	301,000	mg
Slope of Calibration Curve	K	1.2780	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	583,874.1	(s) . (µS/cms)
Calculated Flow Rate	Q	0.7	L/s
		10.5	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:37:53 PM	180.3	-
6/7/2019	4:37:54 PM	180.3	-
6/7/2019	4:37:55 PM	180.3	-
6/7/2019	4:37:56 PM	180.3	-
6/7/2019	4:37:57 PM	180.3	-
6/7/2019	4:37:58 PM	180.3	-
6/7/2019	4:37:59 PM	180.3	-
6/7/2019	4:38:00 PM	180.3	-
6/7/2019	4:38:01 PM	180.3	-
6/7/2019	4:38:02 PM	180.3	-
6/7/2019	4:38:03 PM	180.3	-
6/7/2019	4:38:04 PM	180.3	-
6/7/2019	4:38:05 PM	180.3	-
6/7/2019	4:38:06 PM	180.3	-
6/7/2019	4:38:07 PM	180.3	-
6/7/2019	4:38:08 PM	180.4	-
6/7/2019	4:38:09 PM	180.4	-
6/7/2019	4:38:10 PM	180.4	-
6/7/2019	4:38:11 PM	180.4	-
6/7/2019	4:38:12 PM	180.4	-
6/7/2019	4:38:13 PM	180.4	-
6/7/2019	4:38:14 PM	180.4	-
6/7/2019	4:38:15 PM	180.4	-
6/7/2019	4:38:16 PM	180.4	-
6/7/2019	4:38:17 PM	180.4	-
6/7/2019	4:38:18 PM	180.4	-
6/7/2019	4:38:19 PM	180.5	-
6/7/2019	4:38:20 PM	180.5	-
6/7/2019	4:38:21 PM	180.6	-
6/7/2019	4:38:22 PM	180.6	-
6/7/2019	4:38:23 PM	180.7	-
6/7/2019	4:38:24 PM	180.7	-
6/7/2019	4:38:25 PM	180.7	-
6/7/2019	4:38:26 PM	180.7	-
6/7/2019	4:38:27 PM	180.8	-
6/7/2019	4:38:28 PM	180.8	-
6/7/2019	4:38:29 PM	180.8	-
6/7/2019	4:38:30 PM	180.8	-
6/7/2019	4:38:31 PM	180.8	-
6/7/2019	4:38:32 PM	180.9	-
6/7/2019	4:38:33 PM	181.9	-
6/7/2019	4:38:34 PM	271.9	91.4
6/7/2019	4:38:35 PM	403.8	223.3
6/7/2019	4:38:36 PM	561.6	381.1
6/7/2019	4:38:37 PM	3114.8	2934.3
6/7/2019	4:38:38 PM	3870.9	3690.4
6/7/2019	4:38:39 PM	6737.5	6557.0
6/7/2019	4:38:40 PM	8884.4	8703.9
6/7/2019	4:38:41 PM	15336.8	15156.3
6/7/2019	4:38:42 PM	18052.4	17871.9
6/7/2019	4:38:43 PM	19352.4	19171.9
6/7/2019	4:38:44 PM	19248.9	19068.4
6/7/2019	4:38:45 PM	19043.4	18862.9
6/7/2019	4:38:46 PM	19658.5	19478.0
6/7/2019	4:38:47 PM	19397.0	19216.5
6/7/2019	4:38:48 PM	19194.3	19013.8
6/7/2019	4:38:49 PM	18983.5	18803.0
6/7/2019	4:38:50 PM	17726.9	17546.4
6/7/2019	4:38:51 PM	16347.5	16167.0
6/7/2019	4:38:52 PM	15580.2	15399.7
6/7/2019	4:38:53 PM	14776.2	14595.7
6/7/2019	4:38:54 PM	14493.1	14312.6
6/7/2019	4:38:55 PM	12696.7	12516.2
6/7/2019	4:38:56 PM	11585.6	11405.1
6/7/2019	4:38:57 PM	10939.8	10759.3
6/7/2019	4:38:58 PM	9990.8	9810.3
6/7/2019	4:38:59 PM	9160.0	8979.5
6/7/2019	4:39:00 PM	8457.4	8276.9
6/7/2019	4:39:01 PM	7713.4	7532.9
6/7/2019	4:39:02 PM	6915.3	6734.8

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:39:03 PM	6355.6	6175.1
6/7/2019	4:39:04 PM	6150.3	5969.8
6/7/2019	4:39:05 PM	5431.3	5250.8
6/7/2019	4:39:06 PM	5250.9	5070.4
6/7/2019	4:39:07 PM	4707.2	4526.7
6/7/2019	4:39:08 PM	4443.7	4263.2
6/7/2019	4:39:09 PM	4169.9	3989.4
6/7/2019	4:39:10 PM	4032.9	3852.4
6/7/2019	4:39:11 PM	3852.7	3672.2
6/7/2019	4:39:12 PM	3286.0	3105.5
6/7/2019	4:39:13 PM	3108.4	2927.9
6/7/2019	4:39:14 PM	2642.9	2462.4
6/7/2019	4:39:15 PM	2539.7	2359.2
6/7/2019	4:39:16 PM	2491.1	2310.6
6/7/2019	4:39:17 PM	2301.8	2121.3
6/7/2019	4:39:18 PM	2200.1	2019.6
6/7/2019	4:39:19 PM	1950.9	1770.4
6/7/2019	4:39:20 PM	1931.7	1751.2
6/7/2019	4:39:21 PM	1937.1	1756.6
6/7/2019	4:39:22 PM	1753.5	1573.0
6/7/2019	4:39:23 PM	1666.3	1485.8
6/7/2019	4:39:24 PM	1569.5	1389.0
6/7/2019	4:39:25 PM	1575.7	1395.2
6/7/2019	4:39:26 PM	1593.2	1412.7
6/7/2019	4:39:27 PM	1572.3	1391.8
6/7/2019	4:39:28 PM	1387.5	1207.0
6/7/2019	4:39:29 PM	1326.2	1145.7
6/7/2019	4:39:30 PM	1292.0	1111.5
6/7/2019	4:39:31 PM	1269.0	1088.5
6/7/2019	4:39:32 PM	1138.9	958.4
6/7/2019	4:39:33 PM	1119.8	939.3
6/7/2019	4:39:34 PM	1076.9	896.4
6/7/2019	4:39:35 PM	1119.5	939.0
6/7/2019	4:39:36 PM	1130.6	950.1
6/7/2019	4:39:37 PM	1126.4	945.9
6/7/2019	4:39:38 PM	1016.4	835.9
6/7/2019	4:39:39 PM	974.4	793.9
6/7/2019	4:39:40 PM	884.9	704.4
6/7/2019	4:39:41 PM	860.1	679.6
6/7/2019	4:39:42 PM	797.8	617.3
6/7/2019	4:39:43 PM	790.2	609.7
6/7/2019	4:39:44 PM	795.1	614.6
6/7/2019	4:39:45 PM	840.1	659.6
6/7/2019	4:39:46 PM	829.3	648.8
6/7/2019	4:39:47 PM	820.3	639.8
6/7/2019	4:39:48 PM	704.3	523.8
6/7/2019	4:39:49 PM	684.0	503.5
6/7/2019	4:39:50 PM	649.4	468.9
6/7/2019	4:39:51 PM	645.2	464.7
6/7/2019	4:39:52 PM	637.3	456.8
6/7/2019	4:39:53 PM	635.7	455.2
6/7/2019	4:39:54 PM	638.5	458.0
6/7/2019	4:39:55 PM	636.9	456.4
6/7/2019	4:39:56 PM	548.7	368.2
6/7/2019	4:39:57 PM	547.1	366.6
6/7/2019	4:39:58 PM	561.0	380.5
6/7/2019	4:39:59 PM	567.5	387.0
6/7/2019	4:40:00 PM	567.5	387.0
6/7/2019	4:40:01 PM	563.4	382.9
6/7/2019	4:40:02 PM	559.6	379.1
6/7/2019	4:40:03 PM	555.2	374.7
6/7/2019	4:40:04 PM	548.6	368.1
6/7/2019	4:40:05 PM	544.2	363.7
6/7/2019	4:40:06 PM	539.8	359.3
6/7/2019	4:40:07 PM	479.8	299.3
6/7/2019	4:40:08 PM	472.7	292.2
6/7/2019	4:40:09 PM	467.0	286.5
6/7/2019	4:40:10 PM	464.3	283.8
6/7/2019	4:40:11 PM	460.2	279.7
6/7/2019	4:40:12 PM	456.8	276.3
6/7/2019	4:40:13 PM	455.5	275.0
6/7/2019	4:40:14 PM	454.0	273.5
6/7/2019	4:40:15 PM	452.9	272.4
6/7/2019	4:40:16 PM	450.6	270.1
6/7/2019	4:40:17 PM	448.1	267.6
6/7/2019	4:40:18 PM	446.2	265.7
6/7/2019	4:40:19 PM	443.9	263.4

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:40:20 PM	441.5	261.0
6/7/2019	4:40:21 PM	439.0	258.5
6/7/2019	4:40:22 PM	437.0	256.5
6/7/2019	4:40:23 PM	433.2	252.7
6/7/2019	4:40:24 PM	429.2	248.7
6/7/2019	4:40:25 PM	424.5	244.0
6/7/2019	4:40:26 PM	419.9	239.4
6/7/2019	4:40:27 PM	414.3	233.8
6/7/2019	4:40:28 PM	409.3	228.8
6/7/2019	4:40:29 PM	404.2	223.7
6/7/2019	4:40:30 PM	399.6	219.1
6/7/2019	4:40:31 PM	394.7	214.2
6/7/2019	4:40:32 PM	391.0	210.5
6/7/2019	4:40:33 PM	386.6	206.1
6/7/2019	4:40:34 PM	382.5	202.0
6/7/2019	4:40:35 PM	378.2	197.7
6/7/2019	4:40:36 PM	373.8	193.3
6/7/2019	4:40:37 PM	370.1	189.6
6/7/2019	4:40:38 PM	366.4	185.9
6/7/2019	4:40:39 PM	363.5	183.0
6/7/2019	4:40:40 PM	360.3	179.8
6/7/2019	4:40:41 PM	357.4	176.9
6/7/2019	4:40:42 PM	354.2	173.7
6/7/2019	4:40:43 PM	351.7	171.2
6/7/2019	4:40:44 PM	348.7	168.2
6/7/2019	4:40:45 PM	346.0	165.5
6/7/2019	4:40:46 PM	343.4	162.9
6/7/2019	4:40:47 PM	341.1	160.6
6/7/2019	4:40:48 PM	337.9	157.4
6/7/2019	4:40:49 PM	335.5	155.0
6/7/2019	4:40:50 PM	332.9	152.4
6/7/2019	4:40:51 PM	330.6	150.1
6/7/2019	4:40:52 PM	328.0	147.5
6/7/2019	4:40:53 PM	326.0	145.5
6/7/2019	4:40:54 PM	323.6	143.1
6/7/2019	4:40:55 PM	321.3	140.8
6/7/2019	4:40:56 PM	319.3	138.8
6/7/2019	4:40:57 PM	316.8	136.3
6/7/2019	4:40:58 PM	314.7	134.2
6/7/2019	4:40:59 PM	312.5	132.0
6/7/2019	4:41:00 PM	310.9	130.4
6/7/2019	4:41:01 PM	309.4	128.9
6/7/2019	4:41:02 PM	308.1	127.6
6/7/2019	4:41:03 PM	306.4	125.9
6/7/2019	4:41:04 PM	304.8	124.3
6/7/2019	4:41:05 PM	302.9	122.4
6/7/2019	4:41:06 PM	301.3	120.8
6/7/2019	4:41:07 PM	299.7	119.2
6/7/2019	4:41:08 PM	298.4	117.9
6/7/2019	4:41:09 PM	296.9	116.4
6/7/2019	4:41:10 PM	295.7	115.2
6/7/2019	4:41:11 PM	294.2	113.7
6/7/2019	4:41:12 PM	293.0	112.5
6/7/2019	4:41:13 PM	291.5	111.0
6/7/2019	4:41:14 PM	289.8	109.3
6/7/2019	4:41:15 PM	288.3	107.8
6/7/2019	4:41:16 PM	286.8	106.3
6/7/2019	4:41:17 PM	285.5	105.0
6/7/2019	4:41:18 PM	284.1	103.6
6/7/2019	4:41:19 PM	283.2	102.7
6/7/2019	4:41:20 PM	282.4	101.9
6/7/2019	4:41:21 PM	281.5	101.0
6/7/2019	4:41:22 PM	280.3	99.8
6/7/2019	4:41:23 PM	279.1	98.6
6/7/2019	4:41:24 PM	277.7	97.2
6/7/2019	4:41:25 PM	276.6	96.1
6/7/2019	4:41:26 PM	275.4	94.9
6/7/2019	4:41:27 PM	274.3	93.8
6/7/2019	4:41:28 PM	273.3	92.8
6/7/2019	4:41:29 PM	272.6	92.1
6/7/2019	4:41:30 PM	271.9	91.4
6/7/2019	4:41:31 PM	271.2	90.7
6/7/2019	4:41:32 PM	270.5	90.0
6/7/2019	4:41:33 PM	269.4	88.9
6/7/2019	4:41:34 PM	268.3	87.8
6/7/2019	4:41:35 PM	267.3	86.8
6/7/2019	4:41:36 PM	266.5	86.0
6/7/2019	4:41:37 PM	265.6	85.1
6/7/2019	4:41:38 PM	264.9	84.4

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:41:39 PM	264.1	83.6
6/7/2019	4:41:40 PM	263.5	83.0
6/7/2019	4:41:41 PM	262.7	82.2
6/7/2019	4:41:42 PM	261.9	81.4
6/7/2019	4:41:43 PM	260.9	80.4
6/7/2019	4:41:44 PM	260.2	79.7
6/7/2019	4:41:45 PM	259.4	78.9
6/7/2019	4:41:46 PM	258.7	78.2
6/7/2019	4:41:47 PM	258.0	77.5
6/7/2019	4:41:48 PM	257.3	76.8
6/7/2019	4:41:49 PM	256.6	76.1
6/7/2019	4:41:50 PM	255.8	75.3
6/7/2019	4:41:51 PM	255.0	74.5
6/7/2019	4:41:52 PM	254.1	73.6
6/7/2019	4:41:53 PM	253.3	72.8
6/7/2019	4:41:54 PM	252.5	72.0
6/7/2019	4:41:55 PM	251.7	71.2
6/7/2019	4:41:56 PM	250.9	70.4
6/7/2019	4:41:57 PM	250.1	69.6
6/7/2019	4:41:58 PM	249.1	68.6
6/7/2019	4:41:59 PM	248.5	68.0
6/7/2019	4:42:00 PM	247.9	67.4
6/7/2019	4:42:01 PM	247.4	66.9
6/7/2019	4:42:02 PM	246.8	66.3
6/7/2019	4:42:03 PM	246.3	65.8
6/7/2019	4:42:04 PM	245.8	65.3
6/7/2019	4:42:05 PM	245.4	64.9
6/7/2019	4:42:06 PM	245.0	64.5
6/7/2019	4:42:07 PM	244.6	64.1
6/7/2019	4:42:08 PM	244.0	63.5
6/7/2019	4:42:09 PM	243.4	62.9
6/7/2019	4:42:10 PM	242.9	62.4
6/7/2019	4:42:11 PM	242.4	61.9
6/7/2019	4:42:12 PM	241.9	61.4
6/7/2019	4:42:13 PM	241.4	60.9
6/7/2019	4:42:14 PM	241.0	60.5
6/7/2019	4:42:15 PM	240.6	60.1
6/7/2019	4:42:16 PM	240.1	59.6
6/7/2019	4:42:17 PM	239.6	59.1
6/7/2019	4:42:18 PM	239.1	58.6
6/7/2019	4:42:19 PM	238.4	57.9
6/7/2019	4:42:20 PM	237.9	57.4
6/7/2019	4:42:21 PM	237.3	56.8
6/7/2019	4:42:22 PM	236.9	56.4
6/7/2019	4:42:23 PM	236.4	55.9
6/7/2019	4:42:24 PM	236.1	55.6
6/7/2019	4:42:25 PM	235.5	55.0
6/7/2019	4:42:26 PM	235.0	54.5
6/7/2019	4:42:27 PM	234.2	53.7
6/7/2019	4:42:28 PM	233.6	53.1
6/7/2019	4:42:29 PM	233.2	52.7
6/7/2019	4:42:30 PM	232.9	52.4
6/7/2019	4:42:31 PM	232.7	52.2
6/7/2019	4:42:32 PM	232.3	51.8
6/7/2019	4:42:33 PM	232.0	51.5
6/7/2019	4:42:34 PM	231.6	51.1
6/7/2019	4:42:35 PM	231.3	50.8
6/7/2019	4:42:36 PM	231.0	50.5
6/7/2019	4:42:37 PM	230.7	50.2
6/7/2019	4:42:38 PM	230.3	49.8
6/7/2019	4:42:39 PM	230.0	49.5
6/7/2019	4:42:40 PM	229.6	49.1
6/7/2019	4:42:41 PM	229.4	48.9
6/7/2019	4:42:42 PM	229.0	48.5
6/7/2019	4:42:43 PM	228.6	48.1
6/7/2019	4:42:44 PM	228.0	47.5
6/7/2019	4:42:45 PM	227.6	47.1
6/7/2019	4:42:46 PM	227.2	46.7
6/7/2019	4:42:47 PM	226.8	46.3
6/7/2019	4:42:48 PM	226.3	45.8
6/7/2019	4:42:49 PM	225.8	45.3
6/7/2019	4:42:50 PM	225.3	44.8
6/7/2019	4:42:51 PM	224.9	44.4
6/7/2019	4:42:52 PM	224.5	44.0
6/7/2019	4:42:53 PM	224.2	43.7
6/7/2019	4:42:54 PM	223.8	43.3
6/7/2019	4:42:55 PM	223.4	42.9
6/7/2019	4:42:56 PM	223.0	42.5
6/7/2019	4:42:57 PM	222.7	42.2

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:42:58 PM	222.4	41.9
6/7/2019	4:42:59 PM	222.1	41.6
6/7/2019	4:43:00 PM	221.8	41.3
6/7/2019	4:43:01 PM	221.5	41.0
6/7/2019	4:43:02 PM	221.3	40.8
6/7/2019	4:43:03 PM	221.0	40.5
6/7/2019	4:43:04 PM	220.7	40.2
6/7/2019	4:43:05 PM	220.4	39.9
6/7/2019	4:43:06 PM	220.0	39.5
6/7/2019	4:43:07 PM	219.7	39.2
6/7/2019	4:43:08 PM	219.3	38.8
6/7/2019	4:43:09 PM	219.0	38.5
6/7/2019	4:43:10 PM	218.6	38.1
6/7/2019	4:43:11 PM	218.3	37.8
6/7/2019	4:43:12 PM	218.0	37.5
6/7/2019	4:43:13 PM	217.7	37.2
6/7/2019	4:43:14 PM	217.4	36.9
6/7/2019	4:43:15 PM	217.1	36.6
6/7/2019	4:43:16 PM	216.9	36.4
6/7/2019	4:43:17 PM	216.7	36.2
6/7/2019	4:43:18 PM	216.6	36.1
6/7/2019	4:43:19 PM	216.4	35.9
6/7/2019	4:43:20 PM	216.2	35.7
6/7/2019	4:43:21 PM	216.0	35.5
6/7/2019	4:43:22 PM	215.8	35.3
6/7/2019	4:43:23 PM	215.6	35.1
6/7/2019	4:43:24 PM	215.4	34.9
6/7/2019	4:43:25 PM	215.2	34.7
6/7/2019	4:43:26 PM	215.0	34.5
6/7/2019	4:43:27 PM	214.8	34.3
6/7/2019	4:43:28 PM	214.6	34.1
6/7/2019	4:43:29 PM	214.3	33.8
6/7/2019	4:43:30 PM	214.1	33.6
6/7/2019	4:43:31 PM	213.8	33.3
6/7/2019	4:43:32 PM	213.6	33.1
6/7/2019	4:43:33 PM	213.4	32.9
6/7/2019	4:43:34 PM	213.3	32.8
6/7/2019	4:43:35 PM	213.1	32.6
6/7/2019	4:43:36 PM	213.0	32.5
6/7/2019	4:43:37 PM	212.8	32.3
6/7/2019	4:43:38 PM	212.7	32.2
6/7/2019	4:43:39 PM	212.5	32.0
6/7/2019	4:43:40 PM	212.3	31.8
6/7/2019	4:43:41 PM	212.2	31.7
6/7/2019	4:43:42 PM	212.0	31.5
6/7/2019	4:43:43 PM	211.8	31.3
6/7/2019	4:43:44 PM	211.7	31.2
6/7/2019	4:43:45 PM	211.6	31.1
6/7/2019	4:43:46 PM	211.4	30.9
6/7/2019	4:43:47 PM	211.2	30.7
6/7/2019	4:43:48 PM	211.0	30.5
6/7/2019	4:43:49 PM	210.8	30.3
6/7/2019	4:43:50 PM	210.6	30.1
6/7/2019	4:43:51 PM	210.4	29.9
6/7/2019	4:43:52 PM	210.2	29.7
6/7/2019	4:43:53 PM	210.0	29.5
6/7/2019	4:43:54 PM	209.8	29.3
6/7/2019	4:43:55 PM	209.6	29.1
6/7/2019	4:43:56 PM	209.4	28.9
6/7/2019	4:43:57 PM	209.2	28.7
6/7/2019	4:43:58 PM	209.0	28.5
6/7/2019	4:43:59 PM	208.8	28.3
6/7/2019	4:44:00 PM	208.6	28.1
6/7/2019	4:44:01 PM	208.5	28.0
6/7/2019	4:44:02 PM	208.3	27.8
6/7/2019	4:44:03 PM	208.2	27.7
6/7/2019	4:44:04 PM	208.1	27.6
6/7/2019	4:44:05 PM	207.9	27.4
6/7/2019	4:44:06 PM	207.8	27.3
6/7/2019	4:44:07 PM	207.7	27.2
6/7/2019	4:44:08 PM	207.5	27.0
6/7/2019	4:44:09 PM	207.4	26.9
6/7/2019	4:44:10 PM	207.3	26.8
6/7/2019	4:44:11 PM	207.2	26.7
6/7/2019	4:44:12 PM	207.1	26.6
6/7/2019	4:44:13 PM	207.0	26.5
6/7/2019	4:44:14 PM	206.9	26.4
6/7/2019	4:44:15 PM	206.8	26.3
6/7/2019	4:44:16 PM	206.7	26.2

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:44:17 PM	206.6	26.1
6/7/2019	4:44:18 PM	206.5	26.0
6/7/2019	4:44:19 PM	206.3	25.8
6/7/2019	4:44:20 PM	206.2	25.7
6/7/2019	4:44:21 PM	206.1	25.6
6/7/2019	4:44:22 PM	205.9	25.4
6/7/2019	4:44:23 PM	205.8	25.3
6/7/2019	4:44:24 PM	205.6	25.1
6/7/2019	4:44:25 PM	205.4	24.9
6/7/2019	4:44:26 PM	205.2	24.7
6/7/2019	4:44:27 PM	205.1	24.6
6/7/2019	4:44:28 PM	204.9	24.4
6/7/2019	4:44:29 PM	204.8	24.3
6/7/2019	4:44:30 PM	204.6	24.1
6/7/2019	4:44:31 PM	204.5	24.0
6/7/2019	4:44:32 PM	204.5	24.0
6/7/2019	4:44:33 PM	204.6	24.1
6/7/2019	4:44:34 PM	204.6	24.1
6/7/2019	4:44:35 PM	204.5	24.0
6/7/2019	4:44:36 PM	204.4	23.9
6/7/2019	4:44:37 PM	204.2	23.7
6/7/2019	4:44:38 PM	204.1	23.6
6/7/2019	4:44:39 PM	204.0	23.5
6/7/2019	4:44:40 PM	203.9	23.4
6/7/2019	4:44:41 PM	203.7	23.2
6/7/2019	4:44:42 PM	203.6	23.1
6/7/2019	4:44:43 PM	203.5	23.0
6/7/2019	4:44:44 PM	203.3	22.8
6/7/2019	4:44:45 PM	203.0	22.5
6/7/2019	4:44:46 PM	202.7	22.2
6/7/2019	4:44:47 PM	202.5	22.0
6/7/2019	4:44:48 PM	202.3	21.8
6/7/2019	4:44:49 PM	202.2	21.7
6/7/2019	4:44:50 PM	202.1	21.6
6/7/2019	4:44:51 PM	202.0	21.5
6/7/2019	4:44:52 PM	201.8	21.3
6/7/2019	4:44:53 PM	201.7	21.2
6/7/2019	4:44:54 PM	201.6	21.1
6/7/2019	4:44:55 PM	201.5	21.0
6/7/2019	4:44:56 PM	201.4	20.9
6/7/2019	4:44:57 PM	201.3	20.8
6/7/2019	4:44:58 PM	201.2	20.7
6/7/2019	4:44:59 PM	201.1	20.6
6/7/2019	4:45:00 PM	201.0	20.5
6/7/2019	4:45:01 PM	200.9	20.4
6/7/2019	4:45:02 PM	200.7	20.2
6/7/2019	4:45:03 PM	200.6	20.1
6/7/2019	4:45:04 PM	200.5	20.0
6/7/2019	4:45:05 PM	200.4	19.9
6/7/2019	4:45:06 PM	200.3	19.8
6/7/2019	4:45:07 PM	200.2	19.7
6/7/2019	4:45:08 PM	200.1	19.6
6/7/2019	4:45:09 PM	200.0	19.5
6/7/2019	4:45:10 PM	200.0	19.5
6/7/2019	4:45:11 PM	199.9	19.4
6/7/2019	4:45:12 PM	199.8	19.3
6/7/2019	4:45:13 PM	199.8	19.3
6/7/2019	4:45:14 PM	199.7	19.2
6/7/2019	4:45:15 PM	199.7	19.2
6/7/2019	4:45:16 PM	199.6	19.1
6/7/2019	4:45:17 PM	199.6	19.1
6/7/2019	4:45:18 PM	199.6	19.1
6/7/2019	4:45:19 PM	199.5	19.0
6/7/2019	4:45:20 PM	199.5	19.0
6/7/2019	4:45:21 PM	199.4	18.9
6/7/2019	4:45:22 PM	199.4	18.9
6/7/2019	4:45:23 PM	199.3	18.8
6/7/2019	4:45:24 PM	199.3	18.8
6/7/2019	4:45:25 PM	199.2	18.7
6/7/2019	4:45:26 PM	199.1	18.6
6/7/2019	4:45:27 PM	199.0	18.5
6/7/2019	4:45:28 PM	198.9	18.4
6/7/2019	4:45:29 PM	198.8	18.3
6/7/2019	4:45:30 PM	198.8	18.3
6/7/2019	4:45:31 PM	198.7	18.2
6/7/2019	4:45:32 PM	198.6	18.1
6/7/2019	4:45:33 PM	198.4	17.9
6/7/2019	4:45:34 PM	198.3	17.8
6/7/2019	4:45:35 PM	198.2	17.7

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:45:36 PM	198.1	17.6
6/7/2019	4:45:37 PM	198.0	17.5
6/7/2019	4:45:38 PM	197.9	17.4
6/7/2019	4:45:39 PM	197.8	17.3
6/7/2019	4:45:40 PM	197.7	17.2
6/7/2019	4:45:41 PM	197.6	17.1
6/7/2019	4:45:42 PM	197.5	17.0
6/7/2019	4:45:43 PM	197.4	16.9
6/7/2019	4:45:44 PM	197.3	16.8
6/7/2019	4:45:45 PM	197.2	16.7
6/7/2019	4:45:46 PM	197.2	16.7
6/7/2019	4:45:47 PM	197.1	16.6
6/7/2019	4:45:48 PM	197.0	16.5
6/7/2019	4:45:49 PM	197.0	16.5
6/7/2019	4:45:50 PM	196.9	16.4
6/7/2019	4:45:51 PM	196.8	16.3
6/7/2019	4:45:52 PM	196.8	16.3
6/7/2019	4:45:53 PM	196.7	16.2
6/7/2019	4:45:54 PM	196.7	16.2
6/7/2019	4:45:55 PM	196.6	16.1
6/7/2019	4:45:56 PM	196.6	16.1
6/7/2019	4:45:57 PM	196.5	16.0
6/7/2019	4:45:58 PM	196.5	16.0
6/7/2019	4:45:59 PM	196.5	16.0
6/7/2019	4:46:00 PM	196.5	16.0
6/7/2019	4:46:00 PM	196.4	0.0
6/7/2019	4:46:01 PM	196.4	15.9
6/7/2019	4:46:02 PM	196.3	15.8
6/7/2019	4:46:03 PM	196.3	15.8
6/7/2019	4:46:04 PM	196.2	15.7
6/7/2019	4:46:05 PM	196.2	15.7
6/7/2019	4:46:06 PM	196.1	15.6
6/7/2019	4:46:07 PM	196.0	15.5
6/7/2019	4:46:08 PM	195.9	15.4
6/7/2019	4:46:09 PM	195.9	15.4
6/7/2019	4:46:10 PM	195.7	15.2
6/7/2019	4:46:11 PM	195.6	15.1
6/7/2019	4:46:12 PM	195.5	15.0
6/7/2019	4:46:13 PM	195.4	14.9
6/7/2019	4:46:14 PM	195.4	14.9
6/7/2019	4:46:15 PM	195.3	14.8
6/7/2019	4:46:16 PM	195.3	14.8
6/7/2019	4:46:17 PM	195.2	14.7
6/7/2019	4:46:18 PM	195.2	14.7
6/7/2019	4:46:19 PM	195.1	14.6
6/7/2019	4:46:20 PM	195.1	14.6
6/7/2019	4:46:21 PM	195.0	14.5
6/7/2019	4:46:22 PM	195.0	14.5
6/7/2019	4:46:23 PM	194.9	14.4
6/7/2019	4:46:24 PM	194.9	14.4
6/7/2019	4:46:25 PM	194.8	14.3
6/7/2019	4:46:26 PM	194.8	14.3
6/7/2019	4:46:27 PM	194.8	14.3
6/7/2019	4:46:28 PM	194.7	14.2
6/7/2019	4:46:29 PM	194.7	14.2
6/7/2019	4:46:30 PM	194.7	14.2
6/7/2019	4:46:31 PM	194.6	14.1
6/7/2019	4:46:32 PM	194.5	14.0
6/7/2019	4:46:33 PM	194.5	14.0
6/7/2019	4:46:34 PM	194.4	13.9
6/7/2019	4:46:35 PM	194.3	13.8
6/7/2019	4:46:36 PM	194.2	13.7
6/7/2019	4:46:37 PM	194.2	13.7
6/7/2019	4:46:38 PM	194.1	13.6
6/7/2019	4:46:39 PM	194.0	13.5
6/7/2019	4:46:40 PM	193.9	13.4
6/7/2019	4:46:41 PM	193.8	13.3

APPENDIX E48: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-B2 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-1	1630	176.7	20.5
SEEP-B2 TEST-1	NR	173.8	20.5
SEEP-B2 TEST-1	NR	172.8	20.5
Average		174.4	(µS/cms)
Geometric Mean		174.4	(µS/cms)
Average (pre-test)		180.5	(µS/cms)
Average (post-test)		212.9	(µS/cms)

Table E3 SEEP-B2 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-1	100	721	24.6
SEEP-B2 TEST-1	1,000	2,061	24.7
SEEP-B2 TEST-1	10,000	16,708	25.1
SEEP-B2 TEST-1	100,000	121,612	25

Table E4 SEEP-B2 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,400	mg
Slope of Calibration Curve	K	1.2207	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	467,400.5	(s) . (µS/cms)
Calculated Flow Rate	Q	0.8	L/s
		12.5	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E49: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:53:18 PM	182.0	-
6/7/2019	4:53:19 PM	181.9	-
6/7/2019	4:53:20 PM	181.9	-
6/7/2019	4:53:21 PM	181.8	-
6/7/2019	4:53:22 PM	181.8	-
6/7/2019	4:53:23 PM	181.7	-
6/7/2019	4:53:24 PM	181.6	-
6/7/2019	4:53:25 PM	181.6	-
6/7/2019	4:53:26 PM	181.6	-
6/7/2019	4:53:27 PM	181.5	-
6/7/2019	4:53:28 PM	181.5	-
6/7/2019	4:53:29 PM	181.5	-
6/7/2019	4:53:30 PM	181.4	-
6/7/2019	4:53:31 PM	181.4	-
6/7/2019	4:53:32 PM	181.3	-
6/7/2019	4:53:33 PM	181.3	-
6/7/2019	4:53:34 PM	181.2	-
6/7/2019	4:53:35 PM	181.2	-
6/7/2019	4:53:36 PM	181.2	-
6/7/2019	4:53:37 PM	181.2	-
6/7/2019	4:53:38 PM	181.1	-
6/7/2019	4:53:39 PM	181.1	-
6/7/2019	4:53:40 PM	181.1	-
6/7/2019	4:53:41 PM	181.0	-
6/7/2019	4:53:42 PM	181.0	-
6/7/2019	4:53:43 PM	181.0	-
6/7/2019	4:53:44 PM	180.9	-
6/7/2019	4:53:45 PM	180.9	-
6/7/2019	4:53:46 PM	180.9	-
6/7/2019	4:53:47 PM	180.9	-
6/7/2019	4:53:48 PM	180.9	-
6/7/2019	4:53:49 PM	181.0	-
6/7/2019	4:53:50 PM	181.3	-
6/7/2019	4:53:51 PM	271.4	90.1
6/7/2019	4:53:52 PM	467.8	286.5
6/7/2019	4:53:53 PM	739.4	558.1
6/7/2019	4:53:54 PM	1920.4	1739.1
6/7/2019	4:53:55 PM	2501.4	2320.1
6/7/2019	4:53:56 PM	4676.4	4495.1
6/7/2019	4:53:57 PM	5800.9	5619.6
6/7/2019	4:53:58 PM	12404.1	12222.8
6/7/2019	4:53:59 PM	15439.2	15257.9
6/7/2019	4:54:00 PM	18224.6	18043.3
6/7/2019	4:54:01 PM	17808.5	17627.2
6/7/2019	4:54:02 PM	19019.7	18838.4
6/7/2019	4:54:03 PM	19526.3	19345.0
6/7/2019	4:54:04 PM	20244.4	20063.1
6/7/2019	4:54:05 PM	20142.6	19961.3
6/7/2019	4:54:06 PM	17128.5	16947.2
6/7/2019	4:54:07 PM	17414.1	17232.8
6/7/2019	4:54:08 PM	16648.1	16466.8
6/7/2019	4:54:09 PM	16367.5	16186.2
6/7/2019	4:54:10 PM	15142.8	14961.5
6/7/2019	4:54:11 PM	14202.1	14020.8
6/7/2019	4:54:12 PM	13210.7	13029.4
6/7/2019	4:54:13 PM	12102.3	11921.0
6/7/2019	4:54:14 PM	11835.1	11653.8
6/7/2019	4:54:15 PM	10454.7	10273.4
6/7/2019	4:54:16 PM	9703.9	9522.6
6/7/2019	4:54:17 PM	9010.1	8828.8
6/7/2019	4:54:18 PM	8878.5	8697.2
6/7/2019	4:54:19 PM	7732.5	7551.2
6/7/2019	4:54:20 PM	6905.1	6723.8
6/7/2019	4:54:21 PM	6366.4	6185.1
6/7/2019	4:54:22 PM	6264.4	6083.1
6/7/2019	4:54:23 PM	5697.8	5516.5
6/7/2019	4:54:24 PM	5422.0	5240.7
6/7/2019	4:54:25 PM	5049.6	4868.3
6/7/2019	4:54:26 PM	4614.3	4433.0
6/7/2019	4:54:27 PM	3942.9	3761.6

APPENDIX E49: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:54:28 PM	3676.4	3495.1
6/7/2019	4:54:29 PM	3315.1	3133.8
6/7/2019	4:54:30 PM	3191.3	3010.0
6/7/2019	4:54:31 PM	2864.3	2683.0
6/7/2019	4:54:32 PM	2786.3	2605.0
6/7/2019	4:54:33 PM	2657.9	2476.6
6/7/2019	4:54:34 PM	2587.1	2405.8
6/7/2019	4:54:35 PM	2548.0	2366.7
6/7/2019	4:54:36 PM	2232.6	2051.3
6/7/2019	4:54:37 PM	2203.8	2022.5
6/7/2019	4:54:38 PM	2052.3	1871.0
6/7/2019	4:54:39 PM	1990.5	1809.2
6/7/2019	4:54:40 PM	1746.6	1565.3
6/7/2019	4:54:41 PM	1656.3	1475.0
6/7/2019	4:54:42 PM	1572.7	1391.4
6/7/2019	4:54:43 PM	1549.7	1368.4
6/7/2019	4:54:44 PM	1514.2	1332.9
6/7/2019	4:54:45 PM	1375.2	1193.9
6/7/2019	4:54:46 PM	1334.4	1153.1
6/7/2019	4:54:47 PM	1297.2	1115.9
6/7/2019	4:54:48 PM	1280.8	1099.5
6/7/2019	4:54:49 PM	1159.7	978.4
6/7/2019	4:54:50 PM	1078.3	897.0
6/7/2019	4:54:51 PM	1029.8	848.5
6/7/2019	4:54:52 PM	986.4	805.1
6/7/2019	4:54:53 PM	962.2	780.9
6/7/2019	4:54:54 PM	944.7	763.4
6/7/2019	4:54:55 PM	928.8	747.5
6/7/2019	4:54:56 PM	919.9	738.6
6/7/2019	4:54:57 PM	912.9	731.6
6/7/2019	4:54:58 PM	832.4	651.1
6/7/2019	4:54:59 PM	778.3	597.0
6/7/2019	4:55:00 PM	757.6	576.3
6/7/2019	4:55:01 PM	755.4	574.1
6/7/2019	4:55:02 PM	747.2	565.9
6/7/2019	4:55:03 PM	727.2	545.9
6/7/2019	4:55:04 PM	715.6	534.3
6/7/2019	4:55:05 PM	652.4	471.1
6/7/2019	4:55:06 PM	629.0	447.7
6/7/2019	4:55:07 PM	615.4	434.1
6/7/2019	4:55:08 PM	561.1	379.8
6/7/2019	4:55:09 PM	570.1	388.8
6/7/2019	4:55:10 PM	569.0	387.7
6/7/2019	4:55:11 PM	563.6	382.3
6/7/2019	4:55:12 PM	556.5	375.2
6/7/2019	4:55:13 PM	550.5	369.2
6/7/2019	4:55:14 PM	544.1	362.8
6/7/2019	4:55:15 PM	539.4	358.1
6/7/2019	4:55:16 PM	535.1	353.8
6/7/2019	4:55:17 PM	531.5	350.2
6/7/2019	4:55:18 PM	527.7	346.4
6/7/2019	4:55:19 PM	525.8	344.5
6/7/2019	4:55:20 PM	524.6	343.3
6/7/2019	4:55:21 PM	523.3	342.0
6/7/2019	4:55:22 PM	518.0	336.7
6/7/2019	4:55:23 PM	512.0	330.7
6/7/2019	4:55:24 PM	505.8	324.5
6/7/2019	4:55:25 PM	460.5	279.2
6/7/2019	4:55:26 PM	442.6	261.3
6/7/2019	4:55:27 PM	431.4	250.1
6/7/2019	4:55:28 PM	425.2	243.9
6/7/2019	4:55:29 PM	423.2	241.9
6/7/2019	4:55:30 PM	420.3	239.0
6/7/2019	4:55:31 PM	417.2	235.9
6/7/2019	4:55:32 PM	414.3	233.0
6/7/2019	4:55:33 PM	411.4	230.1
6/7/2019	4:55:34 PM	409.1	227.8
6/7/2019	4:55:35 PM	406.9	225.6
6/7/2019	4:55:36 PM	405.0	223.7
6/7/2019	4:55:37 PM	402.9	221.6
6/7/2019	4:55:38 PM	400.9	219.6
6/7/2019	4:55:39 PM	398.5	217.2
6/7/2019	4:55:40 PM	396.4	215.1
6/7/2019	4:55:41 PM	393.9	212.6
6/7/2019	4:55:42 PM	390.0	208.7
6/7/2019	4:55:43 PM	385.7	204.4
6/7/2019	4:55:44 PM	382.1	200.8

APPENDIX E49: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:55:45 PM	378.3	197.0
6/7/2019	4:55:46 PM	375.1	193.8
6/7/2019	4:55:47 PM	371.2	189.9
6/7/2019	4:55:48 PM	367.3	186.0
6/7/2019	4:55:49 PM	363.9	182.6
6/7/2019	4:55:50 PM	360.2	178.9
6/7/2019	4:55:51 PM	357.1	175.8
6/7/2019	4:55:52 PM	353.9	172.6
6/7/2019	4:55:53 PM	351.3	170.0
6/7/2019	4:55:54 PM	348.5	167.2
6/7/2019	4:55:55 PM	346.0	164.7
6/7/2019	4:55:56 PM	342.9	161.6
6/7/2019	4:55:57 PM	340.4	159.1
6/7/2019	4:55:58 PM	337.5	156.2
6/7/2019	4:55:59 PM	335.0	153.7
6/7/2019	4:56:00 PM	332.4	151.1
6/7/2019	4:56:01 PM	330.3	149.0
6/7/2019	4:56:02 PM	327.7	146.4
6/7/2019	4:56:03 PM	325.3	144.0
6/7/2019	4:56:04 PM	322.7	141.4
6/7/2019	4:56:05 PM	320.4	139.1
6/7/2019	4:56:06 PM	317.4	136.1
6/7/2019	4:56:07 PM	314.5	133.2
6/7/2019	4:56:08 PM	312.1	130.8
6/7/2019	4:56:09 PM	309.3	128.0
6/7/2019	4:56:10 PM	306.9	125.6
6/7/2019	4:56:11 PM	304.1	122.8
6/7/2019	4:56:12 PM	301.9	120.6
6/7/2019	4:56:13 PM	299.4	118.1
6/7/2019	4:56:14 PM	297.2	115.9
6/7/2019	4:56:15 PM	295.0	113.7
6/7/2019	4:56:16 PM	293.3	112.0
6/7/2019	4:56:17 PM	291.5	110.2
6/7/2019	4:56:18 PM	290.0	108.7
6/7/2019	4:56:19 PM	288.7	107.4
6/7/2019	4:56:20 PM	287.6	106.3
6/7/2019	4:56:21 PM	286.5	105.2
6/7/2019	4:56:22 PM	285.5	104.2
6/7/2019	4:56:23 PM	284.4	103.1
6/7/2019	4:56:24 PM	283.2	101.9
6/7/2019	4:56:25 PM	282.3	101.0
6/7/2019	4:56:26 PM	281.4	100.1
6/7/2019	4:56:27 PM	280.6	99.3
6/7/2019	4:56:28 PM	279.7	98.4
6/7/2019	4:56:29 PM	278.9	97.6
6/7/2019	4:56:30 PM	277.9	96.6
6/7/2019	4:56:31 PM	277.1	95.8
6/7/2019	4:56:32 PM	276.1	94.8
6/7/2019	4:56:33 PM	275.1	93.8
6/7/2019	4:56:34 PM	274.0	92.7
6/7/2019	4:56:35 PM	273.1	91.8
6/7/2019	4:56:36 PM	272.2	90.9
6/7/2019	4:56:37 PM	271.4	90.1
6/7/2019	4:56:38 PM	270.3	89.0
6/7/2019	4:56:39 PM	269.4	88.1
6/7/2019	4:56:40 PM	268.3	87.0
6/7/2019	4:56:41 PM	267.4	86.1
6/7/2019	4:56:42 PM	266.3	85.0
6/7/2019	4:56:43 PM	265.2	83.9
6/7/2019	4:56:44 PM	264.2	82.9
6/7/2019	4:56:45 PM	263.1	81.8
6/7/2019	4:56:46 PM	262.3	81.0
6/7/2019	4:56:47 PM	261.3	80.0
6/7/2019	4:56:48 PM	260.4	79.1
6/7/2019	4:56:49 PM	259.3	78.0
6/7/2019	4:56:50 PM	258.4	77.1
6/7/2019	4:56:51 PM	257.5	76.2
6/7/2019	4:56:52 PM	256.7	75.4
6/7/2019	4:56:53 PM	255.8	74.5
6/7/2019	4:56:54 PM	255.1	73.8
6/7/2019	4:56:55 PM	254.2	72.9
6/7/2019	4:56:56 PM	253.4	72.1
6/7/2019	4:56:57 PM	252.6	71.3
6/7/2019	4:56:58 PM	251.8	70.5
6/7/2019	4:56:59 PM	250.8	69.5
6/7/2019	4:57:00 PM	250.0	68.7
6/7/2019	4:57:01 PM	249.1	67.8
6/7/2019	4:57:02 PM	248.4	67.1
6/7/2019	4:57:03 PM	247.8	66.5

APPENDIX E49: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:57:04 PM	247.0	65.7
6/7/2019	4:57:05 PM	246.3	65.0
6/7/2019	4:57:06 PM	245.5	64.2
6/7/2019	4:57:07 PM	244.8	63.5
6/7/2019	4:57:08 PM	244.1	62.8
6/7/2019	4:57:09 PM	243.5	62.2
6/7/2019	4:57:10 PM	242.7	61.4
6/7/2019	4:57:11 PM	242.2	60.9
6/7/2019	4:57:12 PM	241.6	60.3
6/7/2019	4:57:13 PM	241.1	59.8
6/7/2019	4:57:14 PM	240.6	59.3
6/7/2019	4:57:15 PM	240.1	58.8
6/7/2019	4:57:16 PM	239.4	58.1
6/7/2019	4:57:17 PM	238.8	57.5
6/7/2019	4:57:18 PM	238.2	56.9
6/7/2019	4:57:19 PM	237.8	56.5
6/7/2019	4:57:20 PM	237.2	55.9
6/7/2019	4:57:21 PM	236.7	55.4
6/7/2019	4:57:22 PM	236.3	55.0
6/7/2019	4:57:23 PM	235.8	54.5
6/7/2019	4:57:24 PM	235.4	54.1
6/7/2019	4:57:25 PM	234.9	53.6
6/7/2019	4:57:26 PM	234.4	53.1
6/7/2019	4:57:27 PM	234.0	52.7
6/7/2019	4:57:28 PM	233.6	52.3
6/7/2019	4:57:29 PM	233.2	51.9
6/7/2019	4:57:30 PM	232.9	51.6
6/7/2019	4:57:31 PM	232.5	51.2
6/7/2019	4:57:32 PM	232.2	50.9
6/7/2019	4:57:33 PM	231.7	50.4
6/7/2019	4:57:34 PM	231.3	50.0
6/7/2019	4:57:35 PM	230.9	49.6
6/7/2019	4:57:36 PM	230.6	49.3
6/7/2019	4:57:37 PM	230.3	49.0
6/7/2019	4:57:38 PM	230.0	48.7
6/7/2019	4:57:39 PM	229.6	48.3
6/7/2019	4:57:40 PM	229.2	47.9
6/7/2019	4:57:41 PM	228.8	47.5
6/7/2019	4:57:42 PM	228.4	47.1
6/7/2019	4:57:43 PM	228.0	46.7
6/7/2019	4:57:44 PM	227.7	46.4
6/7/2019	4:57:45 PM	227.4	46.1
6/7/2019	4:57:46 PM	227.1	45.8
6/7/2019	4:57:47 PM	226.9	45.6
6/7/2019	4:57:48 PM	226.5	45.2
6/7/2019	4:57:49 PM	226.2	44.9
6/7/2019	4:57:50 PM	225.7	44.4
6/7/2019	4:57:51 PM	225.3	44.0
6/7/2019	4:57:52 PM	224.9	43.6
6/7/2019	4:57:53 PM	224.6	43.3
6/7/2019	4:57:54 PM	224.3	43.0
6/7/2019	4:57:55 PM	223.9	42.6
6/7/2019	4:57:56 PM	223.5	42.2
6/7/2019	4:57:57 PM	223.1	41.8
6/7/2019	4:57:58 PM	222.7	41.4
6/7/2019	4:57:59 PM	222.3	41.0
6/7/2019	4:58:00 PM	221.9	40.6
6/7/2019	4:58:01 PM	221.6	40.3
6/7/2019	4:58:02 PM	221.3	40.0
6/7/2019	4:58:03 PM	220.9	39.6
6/7/2019	4:58:04 PM	220.7	39.4
6/7/2019	4:58:05 PM	220.3	39.0
6/7/2019	4:58:06 PM	220.0	38.7
6/7/2019	4:58:07 PM	219.6	38.3
6/7/2019	4:58:08 PM	219.3	38.0
6/7/2019	4:58:09 PM	219.0	37.7
6/7/2019	4:58:10 PM	218.7	37.4
6/7/2019	4:58:11 PM	218.3	37.0
6/7/2019	4:58:12 PM	218.1	36.8
6/7/2019	4:58:13 PM	217.7	36.4
6/7/2019	4:58:14 PM	217.4	36.1
6/7/2019	4:58:15 PM	217.0	35.7
6/7/2019	4:58:16 PM	216.6	35.3
6/7/2019	4:58:17 PM	216.3	35.0
6/7/2019	4:58:18 PM	215.9	34.6
6/7/2019	4:58:19 PM	215.7	34.4
6/7/2019	4:58:20 PM	215.4	34.1
6/7/2019	4:58:21 PM	215.2	33.9
6/7/2019	4:58:22 PM	214.9	33.6

APPENDIX E49: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:58:23 PM	214.7	33.4
6/7/2019	4:58:24 PM	214.5	33.2
6/7/2019	4:58:25 PM	214.3	33.0
6/7/2019	4:58:26 PM	214.2	32.9
6/7/2019	4:58:27 PM	214.2	32.9
6/7/2019	4:58:28 PM	214.1	32.8
6/7/2019	4:58:29 PM	214.0	32.7
6/7/2019	4:58:30 PM	213.9	32.6
6/7/2019	4:58:31 PM	213.8	32.5
6/7/2019	4:58:32 PM	213.7	32.4
6/7/2019	4:58:33 PM	213.5	32.2
6/7/2019	4:58:34 PM	213.3	32.0
6/7/2019	4:58:35 PM	213.1	31.8
6/7/2019	4:58:36 PM	212.9	31.6
6/7/2019	4:58:37 PM	212.7	31.4
6/7/2019	4:58:38 PM	212.4	31.1
6/7/2019	4:58:39 PM	212.0	30.7
6/7/2019	4:58:40 PM	211.7	30.4
6/7/2019	4:58:41 PM	211.4	30.1
6/7/2019	4:58:42 PM	211.2	29.9
6/7/2019	4:58:43 PM	210.9	29.6
6/7/2019	4:58:44 PM	210.7	29.4
6/7/2019	4:58:45 PM	210.5	29.2
6/7/2019	4:58:46 PM	210.3	29.0
6/7/2019	4:58:47 PM	210.0	28.7
6/7/2019	4:58:48 PM	209.8	28.5
6/7/2019	4:58:49 PM	209.6	28.3
6/7/2019	4:58:50 PM	209.4	28.1
6/7/2019	4:58:51 PM	209.2	27.9
6/7/2019	4:58:52 PM	209.0	27.7
6/7/2019	4:58:53 PM	208.8	27.5
6/7/2019	4:58:54 PM	208.6	27.3
6/7/2019	4:58:55 PM	208.4	27.1
6/7/2019	4:58:56 PM	208.2	26.9
6/7/2019	4:58:57 PM	208.1	26.8
6/7/2019	4:58:58 PM	207.9	26.6
6/7/2019	4:58:59 PM	207.7	26.4
6/7/2019	4:59:00 PM	207.5	26.2
6/7/2019	4:59:01 PM	207.4	26.1
6/7/2019	4:59:02 PM	207.2	25.9
6/7/2019	4:59:03 PM	207.0	25.7
6/7/2019	4:59:04 PM	206.8	25.5
6/7/2019	4:59:05 PM	206.7	25.4
6/7/2019	4:59:06 PM	206.5	25.2
6/7/2019	4:59:07 PM	206.4	25.1
6/7/2019	4:59:08 PM	206.2	24.9
6/7/2019	4:59:09 PM	206.1	24.8
6/7/2019	4:59:10 PM	205.9	24.6
6/7/2019	4:59:11 PM	205.7	24.4
6/7/2019	4:59:12 PM	205.5	24.2
6/7/2019	4:59:13 PM	205.3	24.0
6/7/2019	4:59:14 PM	205.2	23.9
6/7/2019	4:59:15 PM	205.0	23.7
6/7/2019	4:59:16 PM	204.9	23.6
6/7/2019	4:59:17 PM	204.8	23.5
6/7/2019	4:59:18 PM	204.7	23.4
6/7/2019	4:59:19 PM	204.5	23.2
6/7/2019	4:59:20 PM	204.3	23.0
6/7/2019	4:59:21 PM	204.1	22.8
6/7/2019	4:59:22 PM	204.0	22.7
6/7/2019	4:59:23 PM	203.8	22.5
6/7/2019	4:59:24 PM	203.6	22.3
6/7/2019	4:59:25 PM	203.4	22.1
6/7/2019	4:59:26 PM	203.3	22.0
6/7/2019	4:59:27 PM	203.1	21.8
6/7/2019	4:59:28 PM	203.0	21.7
6/7/2019	4:59:29 PM	202.8	21.5
6/7/2019	4:59:30 PM	202.6	21.3
6/7/2019	4:59:31 PM	202.5	21.2
6/7/2019	4:59:32 PM	202.4	21.1
6/7/2019	4:59:33 PM	202.3	21.0
6/7/2019	4:59:34 PM	202.2	20.9
6/7/2019	4:59:35 PM	202.2	20.9
6/7/2019	4:59:36 PM	202.1	20.8
6/7/2019	4:59:37 PM	202.0	20.7
6/7/2019	4:59:38 PM	202.0	20.7
6/7/2019	4:59:39 PM	201.9	20.6
6/7/2019	4:59:40 PM	201.9	20.6
6/7/2019	4:59:41 PM	201.8	20.5

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:59:42 PM	201.7	20.4
6/7/2019	4:59:43 PM	201.7	20.4
6/7/2019	4:59:44 PM	201.6	20.3
6/7/2019	4:59:45 PM	201.5	20.2
6/7/2019	4:59:46 PM	201.4	20.1
6/7/2019	4:59:47 PM	201.4	20.1
6/7/2019	4:59:48 PM	201.3	20.0
6/7/2019	4:59:49 PM	201.2	19.9
6/7/2019	4:59:50 PM	201.1	19.8
6/7/2019	4:59:51 PM	201.1	19.8
6/7/2019	4:59:52 PM	201.0	19.7
6/7/2019	4:59:53 PM	200.9	19.6
6/7/2019	4:59:54 PM	200.8	19.5
6/7/2019	4:59:55 PM	200.7	19.4
6/7/2019	4:59:56 PM	200.6	19.3
6/7/2019	4:59:57 PM	200.5	19.2
6/7/2019	4:59:58 PM	200.4	19.1
6/7/2019	4:59:59 PM	200.3	19.0
6/7/2019	5:00:00 PM	200.2	18.9
6/7/2019	5:00:01 PM	200.0	18.7
6/7/2019	5:00:02 PM	199.9	18.6
6/7/2019	5:00:03 PM	199.8	18.5
6/7/2019	5:00:04 PM	199.7	18.4
6/7/2019	5:00:05 PM	199.6	18.3
6/7/2019	5:00:06 PM	199.5	18.2
6/7/2019	5:00:07 PM	199.4	18.1
6/7/2019	5:00:08 PM	199.3	18.0
6/7/2019	5:00:09 PM	199.2	17.9
6/7/2019	5:00:10 PM	199.1	17.8
6/7/2019	5:00:11 PM	199.0	17.7
6/7/2019	5:00:12 PM	198.9	17.6
6/7/2019	5:00:13 PM	198.8	17.5
6/7/2019	5:00:14 PM	198.8	17.5
6/7/2019	5:00:15 PM	198.7	17.4
6/7/2019	5:00:16 PM	198.6	17.3
6/7/2019	5:00:17 PM	198.6	17.3
6/7/2019	5:00:18 PM	198.5	17.2
6/7/2019	5:00:19 PM	198.4	17.1
6/7/2019	5:00:20 PM	198.3	17.0
6/7/2019	5:00:21 PM	198.3	17.0
6/7/2019	5:00:22 PM	198.2	16.9
6/7/2019	5:00:23 PM	198.1	16.8
6/7/2019	5:00:24 PM	198.1	16.8
6/7/2019	5:00:25 PM	198.0	16.7
6/7/2019	5:00:26 PM	197.9	16.6
6/7/2019	5:00:27 PM	197.9	16.6
6/7/2019	5:00:28 PM	197.8	16.5
6/7/2019	5:00:29 PM	197.7	16.4
6/7/2019	5:00:30 PM	197.7	16.4
6/7/2019	5:00:31 PM	197.6	16.3
6/7/2019	5:00:32 PM	197.6	16.3
6/7/2019	5:00:33 PM	197.5	16.2
6/7/2019	5:00:34 PM	197.4	16.1
6/7/2019	5:00:35 PM	197.3	16.0
6/7/2019	5:00:36 PM	197.2	15.9
6/7/2019	5:00:37 PM	197.1	15.8
6/7/2019	5:00:38 PM	197.0	15.7
6/7/2019	5:00:39 PM	196.9	15.6
6/7/2019	5:00:40 PM	196.8	15.5
6/7/2019	5:00:41 PM	196.7	15.4
6/7/2019	5:00:42 PM	196.7	15.4
6/7/2019	5:00:43 PM	196.6	15.3
6/7/2019	5:00:44 PM	196.5	15.2
6/7/2019	5:00:45 PM	196.4	15.1
6/7/2019	5:00:46 PM	196.3	15.0
6/7/2019	5:00:47 PM	196.3	15.0
6/7/2019	5:00:48 PM	196.2	14.9
6/7/2019	5:00:49 PM	196.2	14.9
6/7/2019	5:00:50 PM	196.1	14.8
6/7/2019	5:00:51 PM	196.1	14.8
6/7/2019	5:00:52 PM	196.0	14.7
6/7/2019	5:00:53 PM	196.0	14.7
6/7/2019	5:00:54 PM	196.0	14.7
6/7/2019	5:00:55 PM	195.9	14.6
6/7/2019	5:00:56 PM	195.9	14.6
6/7/2019	5:00:57 PM	195.8	14.5
6/7/2019	5:00:58 PM	195.7	14.4
6/7/2019	5:00:59 PM	195.7	14.4
6/7/2019	5:01:00 PM	195.6	14.3

APPENDIX E49: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:01:01 PM	195.5	14.2
6/7/2019	5:01:02 PM	195.4	14.1
6/7/2019	5:01:03 PM	195.4	14.1
6/7/2019	5:01:04 PM	195.3	14.0
6/7/2019	5:01:05 PM	195.2	13.9
6/7/2019	5:01:06 PM	195.1	13.8
6/7/2019	5:01:07 PM	195.1	13.8
6/7/2019	5:01:08 PM	195.0	13.7
6/7/2019	5:01:09 PM	194.9	13.6
6/7/2019	5:01:10 PM	194.9	13.6
6/7/2019	5:01:11 PM	194.8	13.5
6/7/2019	5:01:12 PM	194.7	13.4
6/7/2019	5:01:13 PM	194.6	13.3
6/7/2019	5:01:14 PM	194.5	13.2
6/7/2019	5:01:15 PM	194.4	13.1
6/7/2019	5:01:16 PM	194.3	13.0
6/7/2019	5:01:17 PM	194.2	12.9
6/7/2019	5:01:18 PM	194.1	12.8
6/7/2019	5:01:19 PM	194.0	12.7
6/7/2019	5:01:20 PM	193.9	12.6
6/7/2019	5:01:21 PM	193.8	12.5
6/7/2019	5:01:22 PM	193.7	12.4
6/7/2019	5:01:23 PM	193.6	12.3
6/7/2019	5:01:24 PM	193.6	12.3
6/7/2019	5:01:25 PM	193.5	12.2
6/7/2019	5:01:26 PM	193.4	12.1
6/7/2019	5:01:27 PM	193.4	12.1
6/7/2019	5:01:28 PM	193.4	12.1
6/7/2019	5:01:29 PM	193.3	12.0
6/7/2019	5:01:30 PM	193.3	12.0
6/7/2019	5:01:31 PM	193.3	12.0
6/7/2019	5:01:32 PM	193.2	11.9
6/7/2019	5:01:33 PM	193.2	11.9
6/7/2019	5:01:34 PM	193.1	11.8
6/7/2019	5:01:35 PM	193.1	11.8
6/7/2019	5:01:36 PM	193.1	11.8
6/7/2019	5:01:37 PM	193.0	11.7
6/7/2019	5:01:38 PM	193.0	11.7
6/7/2019	5:01:39 PM	193.0	11.7
6/7/2019	5:01:40 PM	192.9	11.6
6/7/2019	5:01:41 PM	192.8	11.5
6/7/2019	5:01:42 PM	192.8	11.5
6/7/2019	5:01:43 PM	192.7	11.4
6/7/2019	5:01:44 PM	192.7	11.4
6/7/2019	5:01:45 PM	192.6	11.3
6/7/2019	5:01:46 PM	192.6	11.3
6/7/2019	5:01:47 PM	192.5	11.2
6/7/2019	5:01:48 PM	192.5	11.2
6/7/2019	5:01:49 PM	192.4	11.1
6/7/2019	5:01:50 PM	192.4	11.1
6/7/2019	5:01:51 PM	192.3	11.0
6/7/2019	5:01:52 PM	192.3	11.0
6/7/2019	5:01:53 PM	192.3	11.0
6/7/2019	5:01:54 PM	192.2	10.9
6/7/2019	5:01:55 PM	192.2	10.9
6/7/2019	5:01:56 PM	192.1	10.8
6/7/2019	5:01:57 PM	192.1	10.8
6/7/2019	5:01:58 PM	192.0	10.7
6/7/2019	5:01:59 PM	192.0	10.7
6/7/2019	5:02:00 PM	191.9	10.6
6/7/2019	5:02:01 PM	191.9	10.6
6/7/2019	5:02:02 PM	191.8	10.5
6/7/2019	5:02:03 PM	191.7	10.4
6/7/2019	5:02:04 PM	191.7	10.4
6/7/2019	5:02:05 PM	191.6	10.3
6/7/2019	5:02:06 PM	191.5	10.2
6/7/2019	5:02:07 PM	191.5	10.2
6/7/2019	5:02:08 PM	191.4	10.1
6/7/2019	5:02:09 PM	191.4	10.1
6/7/2019	5:02:10 PM	191.4	10.1
6/7/2019	5:02:11 PM	191.3	10.0
6/7/2019	5:02:12 PM	191.3	10.0
6/7/2019	5:02:13 PM	191.2	9.9
6/7/2019	5:02:14 PM	191.2	9.9
6/7/2019	5:02:15 PM	191.1	9.8
6/7/2019	5:02:16 PM	191.1	9.8
6/7/2019	5:02:17 PM	191.0	9.7
6/7/2019	5:02:18 PM	190.9	9.6
6/7/2019	5:02:19 PM	190.8	9.5

APPENDIX E49: SALT DILUTION GAUGING SUMMARY
SEEP-B2 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B2 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:02:20 PM	190.8	9.5
6/7/2019	5:02:21 PM	190.7	9.4
6/7/2019	5:02:22 PM	190.6	9.3
6/7/2019	5:02:23 PM	190.5	9.2
6/7/2019	5:02:24 PM	190.4	9.1
6/7/2019	5:02:25 PM	190.4	9.1
6/7/2019	5:02:26 PM	190.3	9.0
6/7/2019	5:02:27 PM	190.2	8.9
6/7/2019	5:02:28 PM	190.2	8.9
6/7/2019	5:02:29 PM	190.1	8.8
6/7/2019	5:02:30 PM	190.1	8.8
6/7/2019	5:02:31 PM	190.0	8.7
6/7/2019	5:02:32 PM	190.0	8.7
6/7/2019	5:02:33 PM	189.9	8.6
6/7/2019	5:02:34 PM	189.9	8.6
6/7/2019	5:02:35 PM	189.8	8.5
6/7/2019	5:02:36 PM	189.8	8.5
6/7/2019	5:02:37 PM	189.7	8.4
6/7/2019	5:02:38 PM	189.7	8.4
6/7/2019	5:02:39 PM	189.6	8.3
6/7/2019	5:02:40 PM	189.6	8.3
6/7/2019	5:02:41 PM	189.5	8.2
6/7/2019	5:02:42 PM	189.5	8.2
6/7/2019	5:02:43 PM	189.4	8.1
6/7/2019	5:02:44 PM	189.4	8.1
6/7/2019	5:02:45 PM	189.4	8.1
6/7/2019	5:02:46 PM	189.3	8.0
6/7/2019	5:02:47 PM	189.3	8.0
6/7/2019	5:02:48 PM	189.3	8.0
6/7/2019	5:02:49 PM	189.3	8.0
6/7/2019	5:02:50 PM	189.2	7.9
6/7/2019	5:02:51 PM	189.2	7.9
6/7/2019	5:02:52 PM	189.1	7.8
6/7/2019	5:02:53 PM	189.1	7.8
6/7/2019	5:02:54 PM	189.0	7.7
6/7/2019	5:02:55 PM	189.0	7.7
6/7/2019	5:02:56 PM	188.9	7.6
6/7/2019	5:02:57 PM	188.9	7.6
6/7/2019	5:02:58 PM	188.8	7.5
6/7/2019	5:02:59 PM	188.7	7.4
6/7/2019	5:03:00 PM	188.7	7.4
6/7/2019	5:03:01 PM	188.6	7.3
6/7/2019	5:03:02 PM	188.6	7.3
6/7/2019	5:03:03 PM	188.5	7.2
6/7/2019	5:03:04 PM	188.5	7.2
6/7/2019	5:03:05 PM	188.4	7.1
6/7/2019	5:03:06 PM	188.4	7.1
6/7/2019	5:03:07 PM	188.4	7.1
6/7/2019	5:03:08 PM	188.3	7.0
6/7/2019	5:03:09 PM	188.3	7.0
6/7/2019	5:03:10 PM	188.3	7.0
6/7/2019	5:03:11 PM	188.2	6.9
6/7/2019	5:03:12 PM	188.2	6.9
6/7/2019	5:03:13 PM	188.2	6.9
6/7/2019	5:03:14 PM	188.1	6.8
6/7/2019	5:03:15 PM	188.0	6.7
6/7/2019	5:03:16 PM	188.0	6.7
6/7/2019	5:03:17 PM	187.9	6.6
6/7/2019	5:03:18 PM	187.9	6.6
6/7/2019	5:03:19 PM	187.8	6.5
6/7/2019	5:03:20 PM	187.8	6.5
6/7/2019	5:03:21 PM	187.8	6.5
6/7/2019	5:03:22 PM	187.7	6.4
6/7/2019	5:03:23 PM	187.7	6.4

Table E2 SEEP-B2 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B2 TEST-2	1630	176.7	20.5
SEEP-B2 TEST-2	NR	173.8	20.5
SEEP-B2 TEST-2	NR	172.8	20.5
Average		174.4	(µS/cms)
Geometric Mean		174.4	(µS/cms)
Average (pre-test)		181.3	(µS/cms)
Average (post-test)		190.7	(µS/cms)

Table E3 SEEP-B2 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading (µS/cms)	Temperature (°C)
SEEP-B2 TEST-2	100	721	24.6
SEEP-B2 TEST-2	1,000	2,061	24.7
SEEP-B2 TEST-2	10,000	16,708	25.1
SEEP-B2 TEST-2	100,000	121,612	25

Table E4 SEEP-B2 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.2207	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	459,080.4	(s) . (µS/cms)
Calculated Flow Rate	Q	0.8	L/s
		12.7	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
NR	Not recorded
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:50:17 PM	56.8	-
2/6/2019	12:50:18 PM	56.8	-
2/6/2019	12:50:19 PM	56.8	-
2/6/2019	12:50:20 PM	56.8	-
2/6/2019	12:50:21 PM	56.7	-
2/6/2019	12:50:22 PM	56.7	-
2/6/2019	12:50:23 PM	56.7	-
2/6/2019	12:50:24 PM	56.7	-
2/6/2019	12:50:25 PM	56.6	-
2/6/2019	12:50:26 PM	56.6	-
2/6/2019	12:50:27 PM	56.5	-
2/6/2019	12:50:28 PM	56.5	-
2/6/2019	12:50:29 PM	56.4	-
2/6/2019	12:50:30 PM	56.4	-
2/6/2019	12:50:31 PM	56.4	-
2/6/2019	12:50:32 PM	56.4	-
2/6/2019	12:50:33 PM	56.4	-
2/6/2019	12:50:34 PM	56.4	-
2/6/2019	12:50:35 PM	56.4	-
2/6/2019	12:50:36 PM	56.4	-
2/6/2019	12:50:37 PM	56.4	-
2/6/2019	12:50:38 PM	56.4	-
2/6/2019	12:50:39 PM	56.4	-
2/6/2019	12:50:40 PM	56.4	-
2/6/2019	12:50:41 PM	56.4	-
2/6/2019	12:50:42 PM	56.4	-
2/6/2019	12:50:43 PM	56.3	-
2/6/2019	12:50:44 PM	56.3	-
2/6/2019	12:50:45 PM	56.2	-
2/6/2019	12:50:46 PM	56.2	-
2/6/2019	12:50:47 PM	56.1	-
2/6/2019	12:50:48 PM	56.1	-
2/6/2019	12:50:49 PM	56.1	-
2/6/2019	12:50:50 PM	56.1	-
2/6/2019	12:50:51 PM	56.0	-
2/6/2019	12:50:52 PM	56.0	-
2/6/2019	12:50:53 PM	56.0	-
2/6/2019	12:50:54 PM	56.0	-
2/6/2019	12:50:55 PM	56.0	-
2/6/2019	12:50:56 PM	56.0	-
2/6/2019	12:50:57 PM	56.0	-
2/6/2019	12:50:58 PM	56.0	-
2/6/2019	12:50:59 PM	56.0	-
2/6/2019	12:51:00 PM	56.0	-
2/6/2019	12:51:01 PM	56.0	-
2/6/2019	12:51:02 PM	56.0	-
2/6/2019	12:51:03 PM	56.0	-
2/6/2019	12:51:04 PM	56.0	-
2/6/2019	12:51:05 PM	55.9	-
2/6/2019	12:51:06 PM	55.9	-
2/6/2019	12:51:07 PM	55.9	-
2/6/2019	12:51:08 PM	55.9	-
2/6/2019	12:51:09 PM	55.9	-
2/6/2019	12:51:10 PM	55.9	-
2/6/2019	12:51:11 PM	55.9	-
2/6/2019	12:51:12 PM	55.9	-
2/6/2019	12:51:13 PM	55.9	-
2/6/2019	12:51:14 PM	55.8	-
2/6/2019	12:51:15 PM	55.8	-
2/6/2019	12:51:16 PM	55.8	-
2/6/2019	12:51:17 PM	55.8	-
2/6/2019	12:51:18 PM	55.8	-
2/6/2019	12:51:19 PM	55.8	-
2/6/2019	12:51:20 PM	55.8	-
2/6/2019	12:51:21 PM	55.7	-
2/6/2019	12:51:22 PM	55.7	-
2/6/2019	12:51:23 PM	55.7	-
2/6/2019	12:51:24 PM	55.7	-
2/6/2019	12:51:25 PM	55.6	-
2/6/2019	12:51:26 PM	55.6	-

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:51:27 PM	55.6	-
2/6/2019	12:51:28 PM	55.6	-
2/6/2019	12:51:29 PM	55.6	-
2/6/2019	12:51:30 PM	55.6	-
2/6/2019	12:51:31 PM	55.6	-
2/6/2019	12:51:32 PM	55.6	-
2/6/2019	12:51:33 PM	55.6	-
2/6/2019	12:51:34 PM	55.6	-
2/6/2019	12:51:35 PM	55.6	-
2/6/2019	12:51:36 PM	55.6	-
2/6/2019	12:51:37 PM	55.6	-
2/6/2019	12:51:38 PM	55.6	-
2/6/2019	12:51:39 PM	55.7	-
2/6/2019	12:51:40 PM	55.7	-
2/6/2019	12:51:41 PM	55.7	-
2/6/2019	12:51:42 PM	55.7	-
2/6/2019	12:51:43 PM	55.7	-
2/6/2019	12:51:44 PM	55.7	-
2/6/2019	12:51:45 PM	55.7	-
2/6/2019	12:51:46 PM	55.8	-
2/6/2019	12:51:47 PM	55.8	-
2/6/2019	12:51:48 PM	56.0	-
2/6/2019	12:51:49 PM	56.2	-0.3
2/6/2019	12:51:50 PM	56.5	0.0
2/6/2019	12:51:51 PM	57.1	0.6
2/6/2019	12:51:52 PM	57.7	1.2
2/6/2019	12:51:53 PM	58.9	2.4
2/6/2019	12:51:54 PM	60.8	4.3
2/6/2019	12:51:55 PM	64.1	7.6
2/6/2019	12:51:56 PM	67.2	10.7
2/6/2019	12:51:57 PM	71.0	14.5
2/6/2019	12:51:58 PM	74.5	18.0
2/6/2019	12:51:59 PM	78.3	21.8
2/6/2019	12:52:00 PM	81.5	25.0
2/6/2019	12:52:01 PM	84.5	28.0
2/6/2019	12:52:02 PM	91.0	34.5
2/6/2019	12:52:03 PM	96.4	39.9
2/6/2019	12:52:04 PM	153.3	96.8
2/6/2019	12:52:05 PM	176.5	120.0
2/6/2019	12:52:06 PM	184.7	128.2
2/6/2019	12:52:07 PM	183.3	126.8
2/6/2019	12:52:08 PM	179.2	122.7
2/6/2019	12:52:09 PM	178.3	121.8
2/6/2019	12:52:10 PM	181.5	125.0
2/6/2019	12:52:11 PM	183.8	127.3
2/6/2019	12:52:12 PM	186.2	129.7
2/6/2019	12:52:13 PM	263.4	206.9
2/6/2019	12:52:14 PM	326.4	269.9
2/6/2019	12:52:15 PM	350.7	294.2
2/6/2019	12:52:16 PM	351.1	294.6
2/6/2019	12:52:17 PM	360.8	304.3
2/6/2019	12:52:18 PM	369.8	313.3
2/6/2019	12:52:19 PM	439.0	382.5
2/6/2019	12:52:20 PM	447.9	391.4
2/6/2019	12:52:21 PM	434.8	378.3
2/6/2019	12:52:22 PM	480.4	423.9
2/6/2019	12:52:23 PM	567.6	511.1
2/6/2019	12:52:24 PM	579.8	523.3
2/6/2019	12:52:25 PM	651.5	595.0
2/6/2019	12:52:26 PM	789.9	733.4
2/6/2019	12:52:27 PM	824.4	767.9
2/6/2019	12:52:28 PM	755.0	698.5
2/6/2019	12:52:29 PM	752.7	696.2
2/6/2019	12:52:30 PM	762.9	706.4
2/6/2019	12:52:31 PM	920.7	864.2
2/6/2019	12:52:32 PM	948.8	892.3
2/6/2019	12:52:33 PM	1012.0	955.5
2/6/2019	12:52:34 PM	1052.5	996.0
2/6/2019	12:52:35 PM	1086.9	1030.4
2/6/2019	12:52:36 PM	1227.8	1171.3
2/6/2019	12:52:37 PM	1351.8	1295.3
2/6/2019	12:52:38 PM	1377.3	1320.8
2/6/2019	12:52:39 PM	1398.3	1341.8
2/6/2019	12:52:40 PM	1406.5	1350.0
2/6/2019	12:52:41 PM	1407.4	1350.9
2/6/2019	12:52:42 PM	1421.0	1364.5
2/6/2019	12:52:43 PM	1426.8	1370.3

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:52:44 PM	1431.4	1374.9
2/6/2019	12:52:45 PM	1543.6	1487.1
2/6/2019	12:52:46 PM	1551.5	1495.0
2/6/2019	12:52:47 PM	1550.5	1494.0
2/6/2019	12:52:48 PM	1542.2	1485.7
2/6/2019	12:52:49 PM	1551.4	1494.9
2/6/2019	12:52:50 PM	1556.2	1499.7
2/6/2019	12:52:51 PM	1560.2	1503.7
2/6/2019	12:52:52 PM	1569.2	1512.7
2/6/2019	12:52:53 PM	1658.4	1601.9
2/6/2019	12:52:54 PM	1680.1	1623.6
2/6/2019	12:52:55 PM	1692.5	1636.0
2/6/2019	12:52:56 PM	1686.0	1629.5
2/6/2019	12:52:57 PM	1676.3	1619.8
2/6/2019	12:52:58 PM	1683.0	1626.5
2/6/2019	12:52:59 PM	1812.7	1756.2
2/6/2019	12:53:00 PM	1834.6	1778.1
2/6/2019	12:53:01 PM	1833.1	1776.6
2/6/2019	12:53:02 PM	1831.6	1775.1
2/6/2019	12:53:03 PM	1840.1	1783.6
2/6/2019	12:53:04 PM	1867.1	1810.6
2/6/2019	12:53:05 PM	1891.0	1834.5
2/6/2019	12:53:06 PM	1903.2	1846.7
2/6/2019	12:53:07 PM	1910.5	1854.0
2/6/2019	12:53:08 PM	1918.8	1862.3
2/6/2019	12:53:09 PM	1930.0	1873.5
2/6/2019	12:53:10 PM	1938.6	1882.1
2/6/2019	12:53:11 PM	1946.8	1890.3
2/6/2019	12:53:12 PM	1953.4	1896.9
2/6/2019	12:53:13 PM	1960.5	1904.0
2/6/2019	12:53:14 PM	1965.8	1909.3
2/6/2019	12:53:15 PM	1975.5	1919.0
2/6/2019	12:53:16 PM	1988.2	1931.7
2/6/2019	12:53:17 PM	1998.0	1941.5
2/6/2019	12:53:18 PM	2005.1	1948.6
2/6/2019	12:53:19 PM	2012.4	1955.9
2/6/2019	12:53:20 PM	2019.1	1962.6
2/6/2019	12:53:21 PM	2022.8	1966.3
2/6/2019	12:53:22 PM	2023.5	1967.0
2/6/2019	12:53:23 PM	2023.3	1966.8
2/6/2019	12:53:24 PM	2023.5	1967.0
2/6/2019	12:53:25 PM	2023.0	1966.5
2/6/2019	12:53:26 PM	2020.9	1964.4
2/6/2019	12:53:27 PM	2018.9	1962.4
2/6/2019	12:53:28 PM	2016.3	1959.8
2/6/2019	12:53:29 PM	2014.1	1957.6
2/6/2019	12:53:30 PM	2011.2	1954.7
2/6/2019	12:53:31 PM	2008.0	1951.5
2/6/2019	12:53:32 PM	2003.7	1947.2
2/6/2019	12:53:33 PM	1999.5	1943.0
2/6/2019	12:53:34 PM	1994.1	1937.6
2/6/2019	12:53:35 PM	1988.6	1932.1
2/6/2019	12:53:36 PM	1980.1	1923.6
2/6/2019	12:53:37 PM	1971.3	1914.8
2/6/2019	12:53:38 PM	1863.7	1807.2
2/6/2019	12:53:39 PM	1863.6	1807.1
2/6/2019	12:53:40 PM	1858.3	1801.8
2/6/2019	12:53:41 PM	1852.2	1795.7
2/6/2019	12:53:42 PM	1812.2	1755.7
2/6/2019	12:53:43 PM	1792.9	1736.4
2/6/2019	12:53:44 PM	1785.1	1728.6
2/6/2019	12:53:45 PM	1779.0	1722.5
2/6/2019	12:53:46 PM	1770.4	1713.9
2/6/2019	12:53:47 PM	1764.8	1708.3
2/6/2019	12:53:48 PM	1760.3	1703.8
2/6/2019	12:53:49 PM	1755.8	1699.3
2/6/2019	12:53:50 PM	1749.6	1693.1
2/6/2019	12:53:51 PM	1636.6	1580.1
2/6/2019	12:53:52 PM	1599.8	1543.3
2/6/2019	12:53:53 PM	1587.5	1531.0
2/6/2019	12:53:54 PM	1601.0	1544.5
2/6/2019	12:53:55 PM	1605.2	1548.7
2/6/2019	12:53:56 PM	1606.4	1549.9
2/6/2019	12:53:57 PM	1606.2	1549.7
2/6/2019	12:53:58 PM	1603.0	1546.5
2/6/2019	12:53:59 PM	1592.8	1536.3
2/6/2019	12:54:00 PM	1580.3	1523.8
2/6/2019	12:54:01 PM	1571.2	1514.7
2/6/2019	12:54:02 PM	1564.1	1507.6

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:54:03 PM	1560.2	1503.7
2/6/2019	12:54:04 PM	1555.2	1498.7
2/6/2019	12:54:05 PM	1428.7	1372.2
2/6/2019	12:54:06 PM	1425.0	1368.5
2/6/2019	12:54:07 PM	1409.4	1352.9
2/6/2019	12:54:08 PM	1389.7	1333.2
2/6/2019	12:54:09 PM	1375.4	1318.9
2/6/2019	12:54:10 PM	1376.8	1320.3
2/6/2019	12:54:11 PM	1378.9	1322.4
2/6/2019	12:54:12 PM	1377.7	1321.2
2/6/2019	12:54:13 PM	1374.0	1317.5
2/6/2019	12:54:14 PM	1371.2	1314.7
2/6/2019	12:54:15 PM	1367.5	1311.0
2/6/2019	12:54:16 PM	1364.1	1307.6
2/6/2019	12:54:17 PM	1359.5	1303.0
2/6/2019	12:54:18 PM	1355.1	1298.6
2/6/2019	12:54:19 PM	1352.2	1295.7
2/6/2019	12:54:20 PM	1349.8	1293.3
2/6/2019	12:54:21 PM	1344.6	1288.1
2/6/2019	12:54:22 PM	1261.0	1204.5
2/6/2019	12:54:23 PM	1241.4	1184.9
2/6/2019	12:54:24 PM	1220.5	1164.0
2/6/2019	12:54:25 PM	1209.8	1153.3
2/6/2019	12:54:26 PM	1190.0	1133.5
2/6/2019	12:54:27 PM	1176.4	1119.9
2/6/2019	12:54:28 PM	1173.1	1116.6
2/6/2019	12:54:29 PM	1066.2	1009.7
2/6/2019	12:54:30 PM	1060.7	1004.2
2/6/2019	12:54:31 PM	1044.0	987.5
2/6/2019	12:54:32 PM	1040.0	983.5
2/6/2019	12:54:33 PM	1017.1	960.6
2/6/2019	12:54:34 PM	1003.4	946.9
2/6/2019	12:54:35 PM	1001.6	945.1
2/6/2019	12:54:36 PM	999.4	942.9
2/6/2019	12:54:37 PM	992.1	935.6
2/6/2019	12:54:38 PM	985.8	929.3
2/6/2019	12:54:39 PM	899.3	842.8
2/6/2019	12:54:40 PM	907.6	851.1
2/6/2019	12:54:41 PM	919.5	863.0
2/6/2019	12:54:42 PM	910.2	853.7
2/6/2019	12:54:43 PM	884.2	827.7
2/6/2019	12:54:44 PM	874.9	818.4
2/6/2019	12:54:45 PM	774.7	718.2
2/6/2019	12:54:46 PM	762.1	705.6
2/6/2019	12:54:47 PM	734.8	678.3
2/6/2019	12:54:48 PM	724.9	668.4
2/6/2019	12:54:49 PM	714.9	658.4
2/6/2019	12:54:50 PM	709.9	653.4
2/6/2019	12:54:51 PM	707.2	650.7
2/6/2019	12:54:52 PM	705.3	648.8
2/6/2019	12:54:53 PM	702.1	645.6
2/6/2019	12:54:54 PM	695.2	638.7
2/6/2019	12:54:55 PM	691.3	634.8
2/6/2019	12:54:56 PM	606.3	549.8
2/6/2019	12:54:57 PM	621.2	564.7
2/6/2019	12:54:58 PM	608.8	552.3
2/6/2019	12:54:59 PM	607.5	551.0
2/6/2019	12:55:00 PM	604.3	547.8
2/6/2019	12:55:01 PM	599.2	542.7
2/6/2019	12:55:02 PM	592.1	535.6
2/6/2019	12:55:03 PM	585.2	528.7
2/6/2019	12:55:04 PM	579.9	523.4
2/6/2019	12:55:05 PM	577.1	520.6
2/6/2019	12:55:06 PM	575.1	518.6
2/6/2019	12:55:07 PM	573.3	516.8
2/6/2019	12:55:08 PM	570.4	513.9
2/6/2019	12:55:09 PM	567.2	510.7
2/6/2019	12:55:10 PM	517.7	461.2
2/6/2019	12:55:11 PM	518.4	461.9
2/6/2019	12:55:12 PM	504.2	447.7
2/6/2019	12:55:13 PM	493.0	436.5
2/6/2019	12:55:14 PM	484.2	427.7
2/6/2019	12:55:15 PM	479.6	423.1
2/6/2019	12:55:16 PM	477.0	420.5
2/6/2019	12:55:17 PM	474.4	417.9
2/6/2019	12:55:18 PM	472.3	415.8
2/6/2019	12:55:19 PM	471.5	415.0
2/6/2019	12:55:20 PM	470.5	414.0
2/6/2019	12:55:21 PM	469.3	412.8

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:55:22 PM	468.2	411.7
2/6/2019	12:55:23 PM	467.9	411.4
2/6/2019	12:55:24 PM	467.4	410.9
2/6/2019	12:55:25 PM	466.8	410.3
2/6/2019	12:55:26 PM	465.8	409.3
2/6/2019	12:55:27 PM	463.2	406.7
2/6/2019	12:55:28 PM	459.7	403.2
2/6/2019	12:55:29 PM	456.2	399.7
2/6/2019	12:55:30 PM	452.0	395.5
2/6/2019	12:55:31 PM	448.3	391.8
2/6/2019	12:55:32 PM	443.6	387.1
2/6/2019	12:55:33 PM	439.1	382.6
2/6/2019	12:55:34 PM	433.9	377.4
2/6/2019	12:55:35 PM	429.7	373.2
2/6/2019	12:55:36 PM	424.3	367.8
2/6/2019	12:55:37 PM	419.4	362.9
2/6/2019	12:55:38 PM	414.2	357.7
2/6/2019	12:55:39 PM	409.3	352.8
2/6/2019	12:55:40 PM	405.1	348.6
2/6/2019	12:55:41 PM	400.0	343.5
2/6/2019	12:55:42 PM	395.8	339.3
2/6/2019	12:55:43 PM	391.2	334.7
2/6/2019	12:55:44 PM	387.1	330.6
2/6/2019	12:55:45 PM	382.1	325.6
2/6/2019	12:55:46 PM	377.7	321.2
2/6/2019	12:55:47 PM	372.5	316.0
2/6/2019	12:55:48 PM	367.5	311.0
2/6/2019	12:55:49 PM	361.6	305.1
2/6/2019	12:55:50 PM	356.5	300.0
2/6/2019	12:55:51 PM	350.2	293.7
2/6/2019	12:55:52 PM	344.6	288.1
2/6/2019	12:55:53 PM	338.9	282.4
2/6/2019	12:55:54 PM	334.6	278.1
2/6/2019	12:55:55 PM	329.6	273.1
2/6/2019	12:55:56 PM	325.2	268.7
2/6/2019	12:55:57 PM	320.2	263.7
2/6/2019	12:55:58 PM	316.1	259.6
2/6/2019	12:55:59 PM	311.7	255.2
2/6/2019	12:56:00 PM	308.3	251.8
2/6/2019	12:56:01 PM	304.6	248.1
2/6/2019	12:56:02 PM	301.6	245.1
2/6/2019	12:56:03 PM	298.4	241.9
2/6/2019	12:56:04 PM	295.8	239.3
2/6/2019	12:56:05 PM	292.9	236.4
2/6/2019	12:56:06 PM	290.1	233.6
2/6/2019	12:56:07 PM	287.2	230.7
2/6/2019	12:56:08 PM	284.8	228.3
2/6/2019	12:56:09 PM	282.1	225.6
2/6/2019	12:56:10 PM	279.7	223.2
2/6/2019	12:56:11 PM	276.9	220.4
2/6/2019	12:56:12 PM	274.1	217.6
2/6/2019	12:56:13 PM	270.8	214.3
2/6/2019	12:56:14 PM	268.0	211.5
2/6/2019	12:56:15 PM	264.8	208.3
2/6/2019	12:56:16 PM	261.9	205.4
2/6/2019	12:56:17 PM	258.7	202.2
2/6/2019	12:56:18 PM	256.0	199.5
2/6/2019	12:56:19 PM	253.8	197.3
2/6/2019	12:56:20 PM	251.6	195.1
2/6/2019	12:56:21 PM	249.7	193.2
2/6/2019	12:56:22 PM	247.6	191.1
2/6/2019	12:56:23 PM	245.8	189.3
2/6/2019	12:56:24 PM	244.1	187.6
2/6/2019	12:56:25 PM	242.7	186.2
2/6/2019	12:56:26 PM	240.8	184.3
2/6/2019	12:56:27 PM	238.7	182.2
2/6/2019	12:56:28 PM	236.1	179.6
2/6/2019	12:56:29 PM	233.8	177.3
2/6/2019	12:56:30 PM	231.1	174.6
2/6/2019	12:56:31 PM	228.5	172.0
2/6/2019	12:56:32 PM	225.4	168.9
2/6/2019	12:56:33 PM	222.7	166.2
2/6/2019	12:56:34 PM	220.0	163.5
2/6/2019	12:56:35 PM	217.9	161.4
2/6/2019	12:56:36 PM	215.7	159.2
2/6/2019	12:56:37 PM	213.8	157.3
2/6/2019	12:56:38 PM	211.9	155.4
2/6/2019	12:56:39 PM	210.5	154.0
2/6/2019	12:56:40 PM	209.1	152.6

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:56:41 PM	208.0	151.5
2/6/2019	12:56:42 PM	206.5	150.0
2/6/2019	12:56:43 PM	205.2	148.7
2/6/2019	12:56:44 PM	203.8	147.3
2/6/2019	12:56:45 PM	202.7	146.2
2/6/2019	12:56:46 PM	201.5	145.0
2/6/2019	12:56:47 PM	200.1	143.6
2/6/2019	12:56:48 PM	198.0	141.5
2/6/2019	12:56:49 PM	196.2	139.7
2/6/2019	12:56:50 PM	194.1	137.6
2/6/2019	12:56:51 PM	192.3	135.8
2/6/2019	12:56:52 PM	190.1	133.6
2/6/2019	12:56:53 PM	188.4	131.9
2/6/2019	12:56:54 PM	186.8	130.3
2/6/2019	12:56:55 PM	185.5	129.0
2/6/2019	12:56:56 PM	184.0	127.5
2/6/2019	12:56:57 PM	182.5	126.0
2/6/2019	12:56:58 PM	181.0	124.5
2/6/2019	12:56:59 PM	179.4	122.9
2/6/2019	12:57:00 PM	178.0	121.5
2/6/2019	12:57:01 PM	176.7	120.2
2/6/2019	12:57:02 PM	175.6	119.1
2/6/2019	12:57:03 PM	174.5	118.0
2/6/2019	12:57:04 PM	173.6	117.1
2/6/2019	12:57:05 PM	172.6	116.1
2/6/2019	12:57:06 PM	171.6	115.1
2/6/2019	12:57:07 PM	170.5	114.0
2/6/2019	12:57:08 PM	169.5	113.0
2/6/2019	12:57:09 PM	168.5	112.0
2/6/2019	12:57:10 PM	167.8	111.3
2/6/2019	12:57:11 PM	166.9	110.4
2/6/2019	12:57:12 PM	166.1	109.6
2/6/2019	12:57:13 PM	165.4	108.9
2/6/2019	12:57:14 PM	164.7	108.2
2/6/2019	12:57:15 PM	163.8	107.3
2/6/2019	12:57:16 PM	162.9	106.4
2/6/2019	12:57:17 PM	161.9	105.4
2/6/2019	12:57:18 PM	161.1	104.6
2/6/2019	12:57:19 PM	160.1	103.6
2/6/2019	12:57:20 PM	159.2	102.7
2/6/2019	12:57:21 PM	158.2	101.7
2/6/2019	12:57:22 PM	157.3	100.8
2/6/2019	12:57:23 PM	156.4	99.9
2/6/2019	12:57:24 PM	155.7	99.2
2/6/2019	12:57:25 PM	155.0	98.5
2/6/2019	12:57:26 PM	154.4	97.9
2/6/2019	12:57:27 PM	153.7	97.2
2/6/2019	12:57:28 PM	153.0	96.5
2/6/2019	12:57:29 PM	152.2	95.7
2/6/2019	12:57:30 PM	151.6	95.1
2/6/2019	12:57:31 PM	150.9	94.4
2/6/2019	12:57:32 PM	150.4	93.9
2/6/2019	12:57:33 PM	149.8	93.3
2/6/2019	12:57:34 PM	149.2	92.7
2/6/2019	12:57:35 PM	148.3	91.8
2/6/2019	12:57:36 PM	147.6	91.1
2/6/2019	12:57:37 PM	146.7	90.2
2/6/2019	12:57:38 PM	145.8	89.3
2/6/2019	12:57:39 PM	145.0	88.5
2/6/2019	12:57:40 PM	144.1	87.6
2/6/2019	12:57:41 PM	143.4	86.9
2/6/2019	12:57:42 PM	142.5	86.0
2/6/2019	12:57:43 PM	141.8	85.3
2/6/2019	12:57:44 PM	141.0	84.5
2/6/2019	12:57:45 PM	140.3	83.8
2/6/2019	12:57:46 PM	139.5	83.0
2/6/2019	12:57:47 PM	138.8	82.3
2/6/2019	12:57:48 PM	138.1	81.6
2/6/2019	12:57:49 PM	137.5	81.0
2/6/2019	12:57:50 PM	136.9	80.4
2/6/2019	12:57:51 PM	136.4	79.9
2/6/2019	12:57:52 PM	136.0	79.5
2/6/2019	12:57:53 PM	135.6	79.1
2/6/2019	12:57:54 PM	135.1	78.6
2/6/2019	12:57:55 PM	134.5	78.0
2/6/2019	12:57:56 PM	133.8	77.3
2/6/2019	12:57:57 PM	133.3	76.8
2/6/2019	12:57:58 PM	132.7	76.2
2/6/2019	12:57:59 PM	132.3	75.8

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:58:00 PM	131.7	75.2
2/6/2019	12:58:01 PM	130.9	74.4
2/6/2019	12:58:02 PM	130.4	73.9
2/6/2019	12:58:03 PM	129.9	73.4
2/6/2019	12:58:04 PM	129.1	72.6
2/6/2019	12:58:05 PM	128.6	72.1
2/6/2019	12:58:06 PM	128.2	71.7
2/6/2019	12:58:07 PM	127.7	71.2
2/6/2019	12:58:08 PM	127.4	70.9
2/6/2019	12:58:09 PM	127.2	70.7
2/6/2019	12:58:10 PM	126.9	70.4
2/6/2019	12:58:11 PM	126.5	70.0
2/6/2019	12:58:12 PM	126.0	69.5
2/6/2019	12:58:13 PM	125.6	69.1
2/6/2019	12:58:14 PM	125.0	68.5
2/6/2019	12:58:15 PM	124.6	68.1
2/6/2019	12:58:16 PM	124.0	67.5
2/6/2019	12:58:17 PM	123.5	67.0
2/6/2019	12:58:18 PM	123.0	66.5
2/6/2019	12:58:19 PM	122.4	65.9
2/6/2019	12:58:20 PM	121.8	65.3
2/6/2019	12:58:21 PM	121.1	64.6
2/6/2019	12:58:22 PM	120.4	63.9
2/6/2019	12:58:23 PM	119.7	63.2
2/6/2019	12:58:24 PM	119.1	62.6
2/6/2019	12:58:25 PM	118.6	62.1
2/6/2019	12:58:26 PM	118.1	61.6
2/6/2019	12:58:27 PM	117.6	61.1
2/6/2019	12:58:28 PM	117.2	60.7
2/6/2019	12:58:29 PM	116.7	60.2
2/6/2019	12:58:30 PM	116.3	59.8
2/6/2019	12:58:31 PM	115.8	59.3
2/6/2019	12:58:32 PM	115.4	58.9
2/6/2019	12:58:33 PM	115.0	58.5
2/6/2019	12:58:34 PM	114.7	58.2
2/6/2019	12:58:35 PM	114.4	57.9
2/6/2019	12:58:36 PM	114.1	57.6
2/6/2019	12:58:37 PM	113.8	57.3
2/6/2019	12:58:38 PM	113.5	57.0
2/6/2019	12:58:39 PM	113.2	56.7
2/6/2019	12:58:40 PM	113.0	56.5
2/6/2019	12:58:41 PM	112.7	56.2
2/6/2019	12:58:42 PM	112.5	56.0
2/6/2019	12:58:43 PM	112.2	55.7
2/6/2019	12:58:44 PM	112.0	55.5
2/6/2019	12:58:45 PM	111.8	55.3
2/6/2019	12:58:46 PM	111.7	55.2
2/6/2019	12:58:47 PM	111.5	55.0
2/6/2019	12:58:48 PM	111.4	54.9
2/6/2019	12:58:49 PM	111.2	54.7
2/6/2019	12:58:50 PM	111.0	54.5
2/6/2019	12:58:51 PM	110.7	54.2
2/6/2019	12:58:52 PM	110.4	53.9
2/6/2019	12:58:53 PM	110.0	53.5
2/6/2019	12:58:54 PM	109.6	53.1
2/6/2019	12:58:55 PM	109.2	52.7
2/6/2019	12:58:56 PM	108.8	52.3
2/6/2019	12:58:57 PM	108.3	51.8
2/6/2019	12:58:58 PM	107.9	51.4
2/6/2019	12:58:59 PM	107.4	50.9
2/6/2019	12:59:00 PM	107.0	50.5
2/6/2019	12:59:01 PM	106.5	50.0
2/6/2019	12:59:02 PM	106.0	49.5
2/6/2019	12:59:03 PM	105.5	49.0
2/6/2019	12:59:04 PM	105.2	48.7
2/6/2019	12:59:05 PM	104.8	48.3
2/6/2019	12:59:06 PM	104.4	47.9
2/6/2019	12:59:07 PM	104.1	47.6
2/6/2019	12:59:08 PM	103.8	47.3
2/6/2019	12:59:09 PM	103.5	47.0
2/6/2019	12:59:10 PM	103.2	46.7
2/6/2019	12:59:11 PM	103.0	46.5
2/6/2019	12:59:12 PM	102.6	46.1
2/6/2019	12:59:13 PM	102.3	45.8
2/6/2019	12:59:14 PM	102.0	45.5
2/6/2019	12:59:15 PM	101.7	45.2
2/6/2019	12:59:16 PM	101.4	44.9
2/6/2019	12:59:17 PM	101.1	44.6
2/6/2019	12:59:18 PM	100.8	44.3

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	12:59:19 PM	100.5	44.0
2/6/2019	12:59:20 PM	100.3	43.8
2/6/2019	12:59:21 PM	100.0	43.5
2/6/2019	12:59:22 PM	99.7	43.2
2/6/2019	12:59:23 PM	99.4	42.9
2/6/2019	12:59:24 PM	99.1	42.6
2/6/2019	12:59:25 PM	98.9	42.4
2/6/2019	12:59:26 PM	98.7	42.2
2/6/2019	12:59:27 PM	98.5	42.0
2/6/2019	12:59:28 PM	98.4	41.9
2/6/2019	12:59:29 PM	98.2	41.7
2/6/2019	12:59:30 PM	98.1	41.6
2/6/2019	12:59:31 PM	98.0	41.5
2/6/2019	12:59:32 PM	97.8	41.3
2/6/2019	12:59:33 PM	97.7	41.2
2/6/2019	12:59:34 PM	97.6	41.1
2/6/2019	12:59:35 PM	97.4	40.9
2/6/2019	12:59:36 PM	97.3	40.8
2/6/2019	12:59:37 PM	97.1	40.6
2/6/2019	12:59:38 PM	97.0	40.5
2/6/2019	12:59:39 PM	96.8	40.3
2/6/2019	12:59:40 PM	96.7	40.2
2/6/2019	12:59:41 PM	96.5	40.0
2/6/2019	12:59:42 PM	96.3	39.8
2/6/2019	12:59:43 PM	96.1	39.6
2/6/2019	12:59:44 PM	95.8	39.3
2/6/2019	12:59:45 PM	95.6	39.1
2/6/2019	12:59:46 PM	95.3	38.8
2/6/2019	12:59:47 PM	95.0	38.5
2/6/2019	12:59:48 PM	94.8	38.3
2/6/2019	12:59:49 PM	94.5	38.0
2/6/2019	12:59:50 PM	94.2	37.7
2/6/2019	12:59:51 PM	94.0	37.5
2/6/2019	12:59:52 PM	93.7	37.2
2/6/2019	12:59:53 PM	93.5	37.0
2/6/2019	12:59:54 PM	93.2	36.7
2/6/2019	12:59:55 PM	93.0	36.5
2/6/2019	12:59:56 PM	92.8	36.3
2/6/2019	12:59:57 PM	92.6	36.1
2/6/2019	12:59:58 PM	92.4	35.9
2/6/2019	12:59:59 PM	92.2	35.7
2/6/2019	1:00:00 PM	92.1	35.6
2/6/2019	1:00:01 PM	91.9	35.4
2/6/2019	1:00:02 PM	91.8	35.3
2/6/2019	1:00:03 PM	91.6	35.1
2/6/2019	1:00:04 PM	91.5	35.0
2/6/2019	1:00:05 PM	91.4	34.9
2/6/2019	1:00:06 PM	91.3	34.8
2/6/2019	1:00:07 PM	91.2	34.7
2/6/2019	1:00:08 PM	91.1	34.6
2/6/2019	1:00:09 PM	91.0	34.5
2/6/2019	1:00:10 PM	90.9	34.4
2/6/2019	1:00:11 PM	90.8	34.3
2/6/2019	1:00:12 PM	90.6	34.1
2/6/2019	1:00:13 PM	90.5	34.0
2/6/2019	1:00:14 PM	90.3	33.8
2/6/2019	1:00:15 PM	90.2	33.7
2/6/2019	1:00:16 PM	90.0	33.5
2/6/2019	1:00:17 PM	89.8	33.3
2/6/2019	1:00:18 PM	89.6	33.1
2/6/2019	1:00:19 PM	89.4	32.9
2/6/2019	1:00:20 PM	89.2	32.7
2/6/2019	1:00:21 PM	89.0	32.5
2/6/2019	1:00:22 PM	88.8	32.3
2/6/2019	1:00:23 PM	88.6	32.1
2/6/2019	1:00:24 PM	88.5	32.0
2/6/2019	1:00:25 PM	88.4	31.9
2/6/2019	1:00:26 PM	88.3	31.8
2/6/2019	1:00:27 PM	88.2	31.7
2/6/2019	1:00:28 PM	88.0	31.5
2/6/2019	1:00:29 PM	87.9	31.4
2/6/2019	1:00:30 PM	87.9	31.4
2/6/2019	1:00:31 PM	87.8	31.3
2/6/2019	1:00:32 PM	87.8	31.3
2/6/2019	1:00:33 PM	87.7	31.2
2/6/2019	1:00:34 PM	87.7	31.2
2/6/2019	1:00:35 PM	87.6	31.1
2/6/2019	1:00:36 PM	87.6	31.1
2/6/2019	1:00:37 PM	87.5	31.0

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:00:38 PM	87.5	31.0
2/6/2019	1:00:39 PM	87.4	30.9
2/6/2019	1:00:40 PM	87.4	30.9
2/6/2019	1:00:41 PM	87.3	30.8
2/6/2019	1:00:42 PM	87.2	30.7
2/6/2019	1:00:43 PM	87.1	30.6
2/6/2019	1:00:44 PM	87.0	30.5
2/6/2019	1:00:45 PM	86.9	30.4
2/6/2019	1:00:46 PM	86.8	30.3
2/6/2019	1:00:47 PM	86.7	30.2
2/6/2019	1:00:48 PM	86.5	30.0
2/6/2019	1:00:49 PM	86.4	29.9
2/6/2019	1:00:50 PM	86.2	29.7
2/6/2019	1:00:51 PM	86.1	29.6
2/6/2019	1:00:52 PM	85.9	29.4
2/6/2019	1:00:53 PM	85.8	29.3
2/6/2019	1:00:54 PM	85.6	29.1
2/6/2019	1:00:55 PM	85.5	29.0
2/6/2019	1:00:56 PM	85.4	28.9
2/6/2019	1:00:57 PM	85.2	28.7
2/6/2019	1:00:58 PM	85.1	28.6
2/6/2019	1:00:59 PM	84.9	28.4
2/6/2019	1:01:00 PM	84.8	28.3
2/6/2019	1:01:01 PM	84.6	28.1
2/6/2019	1:01:02 PM	84.5	28.0
2/6/2019	1:01:03 PM	84.4	27.9
2/6/2019	1:01:04 PM	84.3	27.8
2/6/2019	1:01:05 PM	84.2	27.7
2/6/2019	1:01:06 PM	84.1	27.6
2/6/2019	1:01:07 PM	84.0	27.5
2/6/2019	1:01:08 PM	83.9	27.4
2/6/2019	1:01:09 PM	83.8	27.3
2/6/2019	1:01:10 PM	83.7	27.2
2/6/2019	1:01:11 PM	83.6	27.1
2/6/2019	1:01:12 PM	83.5	27.0
2/6/2019	1:01:13 PM	83.4	26.9
2/6/2019	1:01:14 PM	83.3	26.8
2/6/2019	1:01:14 PM	83.2	0.0
2/6/2019	1:01:15 PM	83.1	26.6
2/6/2019	1:01:16 PM	83.0	26.5
2/6/2019	1:01:17 PM	82.9	26.4
2/6/2019	1:01:18 PM	82.7	26.2
2/6/2019	1:01:19 PM	82.6	26.1
2/6/2019	1:01:20 PM	82.5	26.0
2/6/2019	1:01:21 PM	82.4	25.9
2/6/2019	1:01:22 PM	82.3	25.8
2/6/2019	1:01:23 PM	82.2	25.7
2/6/2019	1:01:24 PM	82.1	25.6
2/6/2019	1:01:25 PM	82.0	25.5
2/6/2019	1:01:26 PM	81.9	25.4
2/6/2019	1:01:27 PM	81.8	25.3
2/6/2019	1:01:28 PM	81.7	25.2
2/6/2019	1:01:29 PM	81.6	25.1
2/6/2019	1:01:30 PM	81.5	25.0
2/6/2019	1:01:31 PM	81.4	24.9
2/6/2019	1:01:32 PM	81.4	24.9
2/6/2019	1:01:33 PM	81.3	24.8
2/6/2019	1:01:34 PM	81.2	24.7
2/6/2019	1:01:35 PM	81.1	24.6
2/6/2019	1:01:36 PM	81.0	24.5
2/6/2019	1:01:37 PM	81.0	24.5
2/6/2019	1:01:38 PM	80.9	24.4
2/6/2019	1:01:39 PM	80.8	24.3
2/6/2019	1:01:40 PM	80.7	24.2
2/6/2019	1:01:41 PM	80.6	24.1
2/6/2019	1:01:42 PM	80.5	24.0
2/6/2019	1:01:43 PM	80.4	23.9
2/6/2019	1:01:44 PM	80.3	23.8
2/6/2019	1:01:45 PM	80.2	23.7
2/6/2019	1:01:46 PM	80.1	23.6
2/6/2019	1:01:47 PM	80.0	23.5
2/6/2019	1:01:48 PM	79.9	23.4
2/6/2019	1:01:49 PM	79.8	23.3
2/6/2019	1:01:50 PM	79.8	23.3
2/6/2019	1:01:51 PM	79.7	23.2
2/6/2019	1:01:52 PM	79.6	23.1
2/6/2019	1:01:53 PM	79.6	23.1
2/6/2019	1:01:54 PM	79.5	23.0
2/6/2019	1:01:55 PM	79.4	22.9

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:01:56 PM	79.4	22.9
2/6/2019	1:01:57 PM	79.4	22.9
2/6/2019	1:01:58 PM	79.3	22.8
2/6/2019	1:01:59 PM	79.3	22.8
2/6/2019	1:02:00 PM	79.3	22.8
2/6/2019	1:02:01 PM	79.2	22.7
2/6/2019	1:02:02 PM	79.2	22.7
2/6/2019	1:02:03 PM	79.2	22.7
2/6/2019	1:02:04 PM	79.1	22.6
2/6/2019	1:02:05 PM	79.1	22.6
2/6/2019	1:02:06 PM	79.1	22.6
2/6/2019	1:02:07 PM	79.0	22.5
2/6/2019	1:02:08 PM	78.9	22.4
2/6/2019	1:02:09 PM	78.9	22.4
2/6/2019	1:02:10 PM	78.8	22.3
2/6/2019	1:02:11 PM	78.7	22.2
2/6/2019	1:02:12 PM	78.6	22.1
2/6/2019	1:02:13 PM	78.5	22.0
2/6/2019	1:02:14 PM	78.5	22.0
2/6/2019	1:02:15 PM	78.4	21.9
2/6/2019	1:02:16 PM	78.3	21.8
2/6/2019	1:02:17 PM	78.2	21.7
2/6/2019	1:02:18 PM	78.1	21.6
2/6/2019	1:02:19 PM	78.0	21.5
2/6/2019	1:02:20 PM	78.0	21.5
2/6/2019	1:02:21 PM	77.9	21.4
2/6/2019	1:02:22 PM	77.8	21.3
2/6/2019	1:02:23 PM	77.7	21.2
2/6/2019	1:02:24 PM	77.6	21.1
2/6/2019	1:02:25 PM	77.5	21.0
2/6/2019	1:02:26 PM	77.4	20.9
2/6/2019	1:02:27 PM	77.3	20.8
2/6/2019	1:02:28 PM	77.2	20.7
2/6/2019	1:02:29 PM	77.1	20.6
2/6/2019	1:02:30 PM	77.1	20.6
2/6/2019	1:02:31 PM	77.0	20.5
2/6/2019	1:02:32 PM	76.9	20.4
2/6/2019	1:02:33 PM	76.9	20.4
2/6/2019	1:02:34 PM	76.8	20.3
2/6/2019	1:02:35 PM	76.8	20.3
2/6/2019	1:02:36 PM	76.7	20.2
2/6/2019	1:02:37 PM	76.7	20.2
2/6/2019	1:02:38 PM	76.7	20.2
2/6/2019	1:02:39 PM	76.6	20.1
2/6/2019	1:02:40 PM	76.6	20.1
2/6/2019	1:02:41 PM	76.5	20.0
2/6/2019	1:02:42 PM	76.5	20.0
2/6/2019	1:02:43 PM	76.4	19.9
2/6/2019	1:02:44 PM	76.4	19.9
2/6/2019	1:02:45 PM	76.3	19.8
2/6/2019	1:02:46 PM	76.3	19.8
2/6/2019	1:02:47 PM	76.2	19.7
2/6/2019	1:02:48 PM	76.1	19.6
2/6/2019	1:02:49 PM	76.1	19.6
2/6/2019	1:02:50 PM	76.0	19.5
2/6/2019	1:02:51 PM	75.9	19.4
2/6/2019	1:02:52 PM	75.9	19.4
2/6/2019	1:02:53 PM	75.8	19.3
2/6/2019	1:02:54 PM	75.7	19.2
2/6/2019	1:02:55 PM	75.7	19.2
2/6/2019	1:02:56 PM	75.6	19.1
2/6/2019	1:02:57 PM	75.6	19.1
2/6/2019	1:02:58 PM	75.5	19.0
2/6/2019	1:02:59 PM	75.5	19.0
2/6/2019	1:03:00 PM	75.5	19.0
2/6/2019	1:03:01 PM	75.4	18.9
2/6/2019	1:03:02 PM	75.4	18.9
2/6/2019	1:03:03 PM	75.4	18.9
2/6/2019	1:03:04 PM	75.3	18.8
2/6/2019	1:03:05 PM	75.3	18.8
2/6/2019	1:03:06 PM	75.2	18.7
2/6/2019	1:03:07 PM	75.1	18.6
2/6/2019	1:03:08 PM	75.1	18.6
2/6/2019	1:03:09 PM	75.0	18.5
2/6/2019	1:03:10 PM	75.0	18.5
2/6/2019	1:03:11 PM	74.9	18.4
2/6/2019	1:03:12 PM	74.8	18.3
2/6/2019	1:03:13 PM	74.8	18.3
2/6/2019	1:03:14 PM	74.7	18.2

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:03:15 PM	74.6	18.1
2/6/2019	1:03:16 PM	74.5	18.0
2/6/2019	1:03:17 PM	74.5	18.0
2/6/2019	1:03:18 PM	74.4	17.9
2/6/2019	1:03:19 PM	74.4	17.9
2/6/2019	1:03:20 PM	74.3	17.8
2/6/2019	1:03:21 PM	74.3	17.8
2/6/2019	1:03:22 PM	74.2	17.7
2/6/2019	1:03:23 PM	74.2	17.7
2/6/2019	1:03:24 PM	74.1	17.6
2/6/2019	1:03:25 PM	74.1	17.6
2/6/2019	1:03:26 PM	74.0	17.5
2/6/2019	1:03:27 PM	74.0	17.5
2/6/2019	1:03:28 PM	74.0	17.5
2/6/2019	1:03:29 PM	73.9	17.4
2/6/2019	1:03:30 PM	73.9	17.4
2/6/2019	1:03:31 PM	73.9	17.4
2/6/2019	1:03:32 PM	73.8	17.3
2/6/2019	1:03:33 PM	73.8	17.3
2/6/2019	1:03:34 PM	73.7	17.2
2/6/2019	1:03:35 PM	73.7	17.2
2/6/2019	1:03:36 PM	73.7	17.2
2/6/2019	1:03:37 PM	73.6	17.1
2/6/2019	1:03:38 PM	73.6	17.1
2/6/2019	1:03:39 PM	73.5	17.0
2/6/2019	1:03:40 PM	73.5	17.0
2/6/2019	1:03:41 PM	73.4	16.9
2/6/2019	1:03:42 PM	73.4	16.9
2/6/2019	1:03:43 PM	73.4	16.9
2/6/2019	1:03:44 PM	73.3	16.8
2/6/2019	1:03:45 PM	73.3	16.8
2/6/2019	1:03:46 PM	73.2	16.7
2/6/2019	1:03:47 PM	73.2	16.7
2/6/2019	1:03:48 PM	73.2	16.7
2/6/2019	1:03:49 PM	73.1	16.6
2/6/2019	1:03:50 PM	73.1	16.6
2/6/2019	1:03:51 PM	73.0	16.5
2/6/2019	1:03:52 PM	73.0	16.5
2/6/2019	1:03:53 PM	72.9	16.4
2/6/2019	1:03:54 PM	72.8	16.3
2/6/2019	1:03:55 PM	72.7	16.2
2/6/2019	1:03:56 PM	72.7	16.2
2/6/2019	1:03:57 PM	72.6	16.1
2/6/2019	1:03:58 PM	72.5	16.0
2/6/2019	1:03:59 PM	72.5	16.0
2/6/2019	1:04:00 PM	72.4	15.9
2/6/2019	1:04:01 PM	72.3	15.8
2/6/2019	1:04:02 PM	72.3	15.8
2/6/2019	1:04:03 PM	72.2	15.7
2/6/2019	1:04:04 PM	72.2	15.7
2/6/2019	1:04:05 PM	72.1	15.6
2/6/2019	1:04:06 PM	72.1	15.6
2/6/2019	1:04:07 PM	72.1	15.6
2/6/2019	1:04:08 PM	72.1	15.6
2/6/2019	1:04:09 PM	72.0	15.5
2/6/2019	1:04:10 PM	72.0	15.5
2/6/2019	1:04:11 PM	72.0	15.5
2/6/2019	1:04:12 PM	72.0	15.5
2/6/2019	1:04:13 PM	71.9	15.4
2/6/2019	1:04:14 PM	71.9	15.4
2/6/2019	1:04:15 PM	71.8	15.3
2/6/2019	1:04:16 PM	71.8	15.3
2/6/2019	1:04:17 PM	71.8	15.3
2/6/2019	1:04:18 PM	71.7	15.2
2/6/2019	1:04:19 PM	71.7	15.2
2/6/2019	1:04:20 PM	71.6	15.1
2/6/2019	1:04:21 PM	71.5	15.0
2/6/2019	1:04:22 PM	71.5	15.0
2/6/2019	1:04:23 PM	71.5	15.0
2/6/2019	1:04:24 PM	71.4	14.9
2/6/2019	1:04:25 PM	71.4	14.9
2/6/2019	1:04:26 PM	71.4	14.9
2/6/2019	1:04:27 PM	71.4	14.9
2/6/2019	1:04:28 PM	71.3	14.8
2/6/2019	1:04:29 PM	71.3	14.8
2/6/2019	1:04:30 PM	71.3	14.8
2/6/2019	1:04:31 PM	71.2	14.7
2/6/2019	1:04:32 PM	71.2	14.7
2/6/2019	1:04:33 PM	71.2	14.7

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:04:34 PM	71.1	14.6
2/6/2019	1:04:35 PM	71.1	14.6
2/6/2019	1:04:36 PM	71.0	14.5
2/6/2019	1:04:37 PM	71.0	14.5
2/6/2019	1:04:38 PM	70.9	14.4
2/6/2019	1:04:39 PM	70.9	14.4
2/6/2019	1:04:40 PM	70.8	14.3
2/6/2019	1:04:41 PM	70.8	14.3
2/6/2019	1:04:42 PM	70.7	14.2
2/6/2019	1:04:43 PM	70.7	14.2
2/6/2019	1:04:44 PM	70.6	14.1
2/6/2019	1:04:45 PM	70.6	14.1
2/6/2019	1:04:46 PM	70.5	14.0
2/6/2019	1:04:47 PM	70.5	14.0
2/6/2019	1:04:48 PM	70.4	13.9
2/6/2019	1:04:49 PM	70.4	13.9
2/6/2019	1:04:50 PM	70.3	13.8
2/6/2019	1:04:51 PM	70.3	13.8
2/6/2019	1:04:52 PM	70.2	13.7
2/6/2019	1:04:53 PM	70.2	13.7
2/6/2019	1:04:54 PM	70.2	13.7
2/6/2019	1:04:55 PM	70.2	13.7
2/6/2019	1:04:56 PM	70.2	13.7
2/6/2019	1:04:57 PM	70.1	13.6
2/6/2019	1:04:58 PM	70.1	13.6
2/6/2019	1:04:59 PM	70.1	13.6
2/6/2019	1:05:00 PM	70.1	13.6
2/6/2019	1:05:01 PM	70.1	13.6
2/6/2019	1:05:02 PM	70.1	13.6
2/6/2019	1:05:03 PM	70.1	13.6
2/6/2019	1:05:04 PM	70.1	13.6
2/6/2019	1:05:05 PM	70.0	13.5
2/6/2019	1:05:06 PM	70.0	13.5
2/6/2019	1:05:07 PM	70.0	13.5
2/6/2019	1:05:08 PM	70.0	13.5
2/6/2019	1:05:09 PM	69.9	13.4
2/6/2019	1:05:10 PM	69.9	13.4
2/6/2019	1:05:11 PM	69.9	13.4
2/6/2019	1:05:12 PM	69.9	13.4
2/6/2019	1:05:13 PM	69.9	13.4
2/6/2019	1:05:14 PM	69.8	13.3
2/6/2019	1:05:15 PM	69.8	13.3
2/6/2019	1:05:16 PM	69.7	13.2
2/6/2019	1:05:17 PM	69.7	13.2
2/6/2019	1:05:18 PM	69.6	13.1
2/6/2019	1:05:19 PM	69.6	13.1
2/6/2019	1:05:20 PM	69.6	13.1
2/6/2019	1:05:21 PM	69.5	13.0
2/6/2019	1:05:22 PM	69.5	13.0
2/6/2019	1:05:23 PM	69.4	12.9
2/6/2019	1:05:24 PM	69.4	12.9
2/6/2019	1:05:25 PM	69.3	12.8
2/6/2019	1:05:26 PM	69.3	12.8
2/6/2019	1:05:27 PM	69.3	12.8
2/6/2019	1:05:28 PM	69.2	12.7
2/6/2019	1:05:29 PM	69.2	12.7
2/6/2019	1:05:30 PM	69.2	12.7
2/6/2019	1:05:31 PM	69.1	12.6
2/6/2019	1:05:32 PM	69.1	12.6
2/6/2019	1:05:33 PM	69.1	12.6
2/6/2019	1:05:34 PM	69.0	12.5
2/6/2019	1:05:35 PM	69.0	12.5
2/6/2019	1:05:36 PM	69.0	12.5
2/6/2019	1:05:37 PM	68.9	12.4
2/6/2019	1:05:38 PM	68.9	12.4
2/6/2019	1:05:39 PM	68.9	12.4
2/6/2019	1:05:40 PM	68.9	12.4
2/6/2019	1:05:41 PM	68.8	12.3
2/6/2019	1:05:42 PM	68.8	12.3
2/6/2019	1:05:43 PM	68.8	12.3
2/6/2019	1:05:44 PM	68.7	12.2
2/6/2019	1:05:45 PM	68.7	12.2
2/6/2019	1:05:46 PM	68.7	12.2
2/6/2019	1:05:47 PM	68.6	12.1
2/6/2019	1:05:48 PM	68.6	12.1
2/6/2019	1:05:49 PM	68.6	12.1
2/6/2019	1:05:50 PM	68.6	12.1
2/6/2019	1:05:51 PM	68.5	12.0
2/6/2019	1:05:52 PM	68.5	12.0

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:05:53 PM	68.5	12.0
2/6/2019	1:05:54 PM	68.5	12.0
2/6/2019	1:05:55 PM	68.5	12.0
2/6/2019	1:05:56 PM	68.4	11.9
2/6/2019	1:05:57 PM	68.4	11.9
2/6/2019	1:05:58 PM	68.4	11.9
2/6/2019	1:05:59 PM	68.4	11.9
2/6/2019	1:06:00 PM	68.3	11.8
2/6/2019	1:06:01 PM	68.3	11.8
2/6/2019	1:06:02 PM	68.3	11.8
2/6/2019	1:06:03 PM	68.3	11.8
2/6/2019	1:06:04 PM	68.2	11.7
2/6/2019	1:06:05 PM	68.2	11.7
2/6/2019	1:06:06 PM	68.2	11.7
2/6/2019	1:06:07 PM	68.1	11.6
2/6/2019	1:06:08 PM	68.1	11.6
2/6/2019	1:06:09 PM	68.1	11.6
2/6/2019	1:06:10 PM	68.1	11.6
2/6/2019	1:06:11 PM	68.1	11.6
2/6/2019	1:06:12 PM	68.0	11.5
2/6/2019	1:06:13 PM	68.0	11.5
2/6/2019	1:06:14 PM	68.0	11.5
2/6/2019	1:06:15 PM	68.0	11.5
2/6/2019	1:06:16 PM	68.0	11.5
2/6/2019	1:06:17 PM	68.0	11.5
2/6/2019	1:06:18 PM	68.0	11.5
2/6/2019	1:06:19 PM	68.0	11.5
2/6/2019	1:06:20 PM	67.9	11.4
2/6/2019	1:06:21 PM	67.9	11.4
2/6/2019	1:06:22 PM	67.9	11.4
2/6/2019	1:06:23 PM	67.8	11.3
2/6/2019	1:06:24 PM	67.8	11.3
2/6/2019	1:06:25 PM	67.8	11.3
2/6/2019	1:06:26 PM	67.7	11.2
2/6/2019	1:06:27 PM	67.7	11.2
2/6/2019	1:06:28 PM	67.7	11.2
2/6/2019	1:06:29 PM	67.6	11.1
2/6/2019	1:06:30 PM	67.6	11.1
2/6/2019	1:06:31 PM	67.6	11.1
2/6/2019	1:06:32 PM	67.6	11.1
2/6/2019	1:06:33 PM	67.5	11.0
2/6/2019	1:06:34 PM	67.5	11.0
2/6/2019	1:06:35 PM	67.5	11.0
2/6/2019	1:06:36 PM	67.4	10.9
2/6/2019	1:06:37 PM	67.4	10.9
2/6/2019	1:06:38 PM	67.4	10.9
2/6/2019	1:06:39 PM	67.4	10.9
2/6/2019	1:06:40 PM	67.3	10.8
2/6/2019	1:06:41 PM	67.3	10.8
2/6/2019	1:06:42 PM	67.3	10.8
2/6/2019	1:06:43 PM	67.3	10.8
2/6/2019	1:06:44 PM	67.3	10.8
2/6/2019	1:06:45 PM	67.2	10.7
2/6/2019	1:06:46 PM	67.2	10.7
2/6/2019	1:06:47 PM	67.2	10.7
2/6/2019	1:06:48 PM	67.2	10.7
2/6/2019	1:06:49 PM	67.2	10.7
2/6/2019	1:06:50 PM	67.2	10.7
2/6/2019	1:06:51 PM	67.2	10.7
2/6/2019	1:06:52 PM	67.1	10.6
2/6/2019	1:06:53 PM	67.1	10.6
2/6/2019	1:06:54 PM	67.1	10.6
2/6/2019	1:06:55 PM	67.1	10.6
2/6/2019	1:06:56 PM	67.1	10.6
2/6/2019	1:06:57 PM	67.1	10.6
2/6/2019	1:06:58 PM	67.1	10.6
2/6/2019	1:06:59 PM	67.1	10.6
2/6/2019	1:07:00 PM	67.0	10.5
2/6/2019	1:07:01 PM	67.0	10.5
2/6/2019	1:07:02 PM	67.0	10.5
2/6/2019	1:07:03 PM	67.0	10.5
2/6/2019	1:07:04 PM	67.0	10.5
2/6/2019	1:07:05 PM	66.9	10.4
2/6/2019	1:07:06 PM	66.9	10.4
2/6/2019	1:07:07 PM	66.9	10.4
2/6/2019	1:07:08 PM	66.9	10.4
2/6/2019	1:07:09 PM	66.9	10.4
2/6/2019	1:07:10 PM	66.9	10.4
2/6/2019	1:07:11 PM	66.8	10.3

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:07:12 PM	66.8	10.3
2/6/2019	1:07:13 PM	66.8	10.3
2/6/2019	1:07:14 PM	66.8	10.3
2/6/2019	1:07:15 PM	66.7	10.2
2/6/2019	1:07:16 PM	66.7	10.2
2/6/2019	1:07:17 PM	66.7	10.2
2/6/2019	1:07:18 PM	66.7	10.2
2/6/2019	1:07:19 PM	66.6	10.1
2/6/2019	1:07:20 PM	66.6	10.1
2/6/2019	1:07:21 PM	66.6	10.1
2/6/2019	1:07:22 PM	66.6	10.1
2/6/2019	1:07:23 PM	66.5	10.0
2/6/2019	1:07:24 PM	66.5	10.0
2/6/2019	1:07:25 PM	66.5	10.0
2/6/2019	1:07:26 PM	66.5	10.0
2/6/2019	1:07:27 PM	66.4	9.9
2/6/2019	1:07:28 PM	66.4	9.9
2/6/2019	1:07:29 PM	66.4	9.9
2/6/2019	1:07:30 PM	66.4	9.9
2/6/2019	1:07:31 PM	66.3	9.8
2/6/2019	1:07:32 PM	66.3	9.8
2/6/2019	1:07:33 PM	66.3	9.8
2/6/2019	1:07:34 PM	66.3	9.8
2/6/2019	1:07:35 PM	66.2	9.7
2/6/2019	1:07:36 PM	66.2	9.7
2/6/2019	1:07:37 PM	66.2	9.7
2/6/2019	1:07:38 PM	66.2	9.7
2/6/2019	1:07:39 PM	66.1	9.6
2/6/2019	1:07:40 PM	66.1	9.6
2/6/2019	1:07:41 PM	66.1	9.6
2/6/2019	1:07:42 PM	66.1	9.6
2/6/2019	1:07:43 PM	66.1	9.6
2/6/2019	1:07:44 PM	66.1	9.6
2/6/2019	1:07:45 PM	66.0	9.5
2/6/2019	1:07:46 PM	66.0	9.5
2/6/2019	1:07:47 PM	66.0	9.5
2/6/2019	1:07:48 PM	66.0	9.5
2/6/2019	1:07:49 PM	66.0	9.5
2/6/2019	1:07:50 PM	66.0	9.5
2/6/2019	1:07:51 PM	66.0	9.5
2/6/2019	1:07:52 PM	65.9	9.4
2/6/2019	1:07:53 PM	65.9	9.4
2/6/2019	1:07:54 PM	65.9	9.4
2/6/2019	1:07:55 PM	65.9	9.4
2/6/2019	1:07:56 PM	65.9	9.4
2/6/2019	1:07:57 PM	65.9	9.4
2/6/2019	1:07:58 PM	65.9	9.4
2/6/2019	1:07:59 PM	65.9	9.4
2/6/2019	1:08:00 PM	65.9	9.4
2/6/2019	1:08:01 PM	65.8	9.3
2/6/2019	1:08:02 PM	65.8	9.3
2/6/2019	1:08:03 PM	65.8	9.3
2/6/2019	1:08:04 PM	65.8	9.3
2/6/2019	1:08:05 PM	65.8	9.3
2/6/2019	1:08:06 PM	65.8	9.3
2/6/2019	1:08:07 PM	65.7	9.2
2/6/2019	1:08:08 PM	65.7	9.2
2/6/2019	1:08:09 PM	65.7	9.2
2/6/2019	1:08:10 PM	65.7	9.2
2/6/2019	1:08:11 PM	65.7	9.2
2/6/2019	1:08:12 PM	65.7	9.2
2/6/2019	1:08:13 PM	65.6	9.1
2/6/2019	1:08:14 PM	65.6	9.1
2/6/2019	1:08:15 PM	65.6	9.1
2/6/2019	1:08:16 PM	65.6	9.1
2/6/2019	1:08:17 PM	65.6	9.1
2/6/2019	1:08:18 PM	65.6	9.1
2/6/2019	1:08:19 PM	65.5	9.0
2/6/2019	1:08:20 PM	65.5	9.0
2/6/2019	1:08:21 PM	65.5	9.0
2/6/2019	1:08:22 PM	65.5	9.0
2/6/2019	1:08:23 PM	65.5	9.0
2/6/2019	1:08:24 PM	65.5	9.0
2/6/2019	1:08:25 PM	65.5	9.0
2/6/2019	1:08:26 PM	65.4	8.9
2/6/2019	1:08:27 PM	65.4	8.9
2/6/2019	1:08:28 PM	65.4	8.9
2/6/2019	1:08:29 PM	65.4	8.9
2/6/2019	1:08:30 PM	65.4	8.9

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:08:31 PM	65.4	8.9
2/6/2019	1:08:32 PM	65.4	8.9
2/6/2019	1:08:33 PM	65.3	8.8
2/6/2019	1:08:34 PM	65.3	8.8
2/6/2019	1:08:35 PM	65.3	8.8
2/6/2019	1:08:36 PM	65.3	8.8
2/6/2019	1:08:37 PM	65.3	8.8
2/6/2019	1:08:38 PM	65.2	8.7
2/6/2019	1:08:39 PM	65.2	8.7
2/6/2019	1:08:40 PM	65.2	8.7
2/6/2019	1:08:41 PM	65.2	8.7
2/6/2019	1:08:42 PM	65.2	8.7
2/6/2019	1:08:43 PM	65.2	8.7
2/6/2019	1:08:44 PM	65.1	8.6
2/6/2019	1:08:45 PM	65.1	8.6
2/6/2019	1:08:46 PM	65.1	8.6
2/6/2019	1:08:47 PM	65.1	8.6
2/6/2019	1:08:48 PM	65.1	8.6
2/6/2019	1:08:49 PM	65.1	8.6
2/6/2019	1:08:50 PM	65.1	8.6
2/6/2019	1:08:51 PM	65.0	8.5
2/6/2019	1:08:52 PM	65.0	8.5
2/6/2019	1:08:53 PM	65.0	8.5
2/6/2019	1:08:54 PM	65.0	8.5
2/6/2019	1:08:55 PM	65.0	8.5
2/6/2019	1:08:56 PM	65.0	8.5
2/6/2019	1:08:57 PM	64.9	8.4
2/6/2019	1:08:58 PM	64.9	8.4
2/6/2019	1:08:59 PM	64.9	8.4
2/6/2019	1:09:00 PM	64.9	8.4
2/6/2019	1:09:01 PM	64.9	8.4
2/6/2019	1:09:02 PM	64.8	8.3
2/6/2019	1:09:03 PM	64.8	8.3
2/6/2019	1:09:04 PM	64.8	8.3
2/6/2019	1:09:05 PM	64.8	8.3
2/6/2019	1:09:06 PM	64.8	8.3
2/6/2019	1:09:07 PM	64.7	8.2
2/6/2019	1:09:08 PM	64.7	8.2
2/6/2019	1:09:09 PM	64.7	8.2
2/6/2019	1:09:10 PM	64.7	8.2
2/6/2019	1:09:11 PM	64.7	8.2
2/6/2019	1:09:12 PM	64.6	8.1
2/6/2019	1:09:13 PM	64.6	8.1
2/6/2019	1:09:14 PM	64.6	8.1
2/6/2019	1:09:15 PM	64.6	8.1
2/6/2019	1:09:16 PM	64.5	8.0
2/6/2019	1:09:17 PM	64.5	8.0
2/6/2019	1:09:18 PM	64.5	8.0
2/6/2019	1:09:19 PM	64.5	8.0
2/6/2019	1:09:20 PM	64.5	8.0
2/6/2019	1:09:21 PM	64.4	7.9
2/6/2019	1:09:22 PM	64.4	7.9
2/6/2019	1:09:23 PM	64.4	7.9
2/6/2019	1:09:24 PM	64.4	7.9
2/6/2019	1:09:25 PM	64.4	7.9
2/6/2019	1:09:26 PM	64.4	7.9
2/6/2019	1:09:27 PM	64.4	7.9
2/6/2019	1:09:28 PM	64.3	7.8
2/6/2019	1:09:29 PM	64.3	7.8
2/6/2019	1:09:30 PM	64.3	7.8
2/6/2019	1:09:31 PM	64.3	7.8
2/6/2019	1:09:32 PM	64.3	7.8
2/6/2019	1:09:33 PM	64.3	7.8
2/6/2019	1:09:34 PM	64.3	7.8
2/6/2019	1:09:35 PM	64.3	7.8
2/6/2019	1:09:36 PM	64.2	7.7
2/6/2019	1:09:37 PM	64.2	7.7
2/6/2019	1:09:38 PM	64.2	7.7
2/6/2019	1:09:39 PM	64.2	7.7
2/6/2019	1:09:40 PM	64.2	7.7
2/6/2019	1:09:41 PM	64.2	7.7
2/6/2019	1:09:42 PM	64.1	7.6
2/6/2019	1:09:43 PM	64.1	7.6
2/6/2019	1:09:44 PM	64.1	7.6
2/6/2019	1:09:45 PM	64.1	7.6
2/6/2019	1:09:46 PM	64.1	7.6
2/6/2019	1:09:47 PM	64.1	7.6
2/6/2019	1:09:48 PM	64.0	7.5
2/6/2019	1:09:49 PM	64.0	7.5

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:09:50 PM	64.0	7.5
2/6/2019	1:09:51 PM	64.0	7.5
2/6/2019	1:09:52 PM	64.0	7.5
2/6/2019	1:09:53 PM	64.0	7.5
2/6/2019	1:09:54 PM	64.0	7.5
2/6/2019	1:09:55 PM	63.9	7.4
2/6/2019	1:09:56 PM	63.9	7.4
2/6/2019	1:09:57 PM	63.9	7.4
2/6/2019	1:09:58 PM	63.9	7.4
2/6/2019	1:09:59 PM	63.9	7.4
2/6/2019	1:10:00 PM	63.9	7.4
2/6/2019	1:10:01 PM	63.9	7.4
2/6/2019	1:10:02 PM	63.8	7.3
2/6/2019	1:10:03 PM	63.8	7.3
2/6/2019	1:10:04 PM	63.8	7.3
2/6/2019	1:10:05 PM	63.8	7.3
2/6/2019	1:10:06 PM	63.8	7.3
2/6/2019	1:10:07 PM	63.8	7.3
2/6/2019	1:10:08 PM	63.8	7.3
2/6/2019	1:10:09 PM	63.8	7.3
2/6/2019	1:10:10 PM	63.8	7.3
2/6/2019	1:10:11 PM	63.7	7.2
2/6/2019	1:10:12 PM	63.7	7.2
2/6/2019	1:10:13 PM	63.7	7.2
2/6/2019	1:10:14 PM	63.7	7.2
2/6/2019	1:10:15 PM	63.7	7.2
2/6/2019	1:10:16 PM	63.7	7.2
2/6/2019	1:10:17 PM	63.7	7.2
2/6/2019	1:10:18 PM	63.7	7.2
2/6/2019	1:10:19 PM	63.7	7.2
2/6/2019	1:10:20 PM	63.6	7.1
2/6/2019	1:10:21 PM	63.6	7.1
2/6/2019	1:10:22 PM	63.6	7.1
2/6/2019	1:10:23 PM	63.6	7.1
2/6/2019	1:10:24 PM	63.6	7.1
2/6/2019	1:10:25 PM	63.6	7.1
2/6/2019	1:10:26 PM	63.5	7.0
2/6/2019	1:10:27 PM	63.5	7.0
2/6/2019	1:10:28 PM	63.5	7.0
2/6/2019	1:10:29 PM	63.5	7.0
2/6/2019	1:10:30 PM	63.5	7.0
2/6/2019	1:10:31 PM	63.5	7.0
2/6/2019	1:10:32 PM	63.5	7.0
2/6/2019	1:10:33 PM	63.5	7.0
2/6/2019	1:10:34 PM	63.5	7.0
2/6/2019	1:10:35 PM	63.5	7.0
2/6/2019	1:10:36 PM	63.5	7.0
2/6/2019	1:10:37 PM	63.4	6.9
2/6/2019	1:10:38 PM	63.4	6.9
2/6/2019	1:10:39 PM	63.4	6.9
2/6/2019	1:10:40 PM	63.4	6.9
2/6/2019	1:10:41 PM	63.4	6.9
2/6/2019	1:10:42 PM	63.4	6.9
2/6/2019	1:10:43 PM	63.4	6.9
2/6/2019	1:10:44 PM	63.3	6.8
2/6/2019	1:10:45 PM	63.3	6.8
2/6/2019	1:10:46 PM	63.3	6.8
2/6/2019	1:10:47 PM	63.3	6.8
2/6/2019	1:10:48 PM	63.3	6.8
2/6/2019	1:10:49 PM	63.3	6.8
2/6/2019	1:10:50 PM	63.3	6.8
2/6/2019	1:10:51 PM	63.3	6.8
2/6/2019	1:10:52 PM	63.2	6.7
2/6/2019	1:10:53 PM	63.2	6.7
2/6/2019	1:10:54 PM	63.2	6.7
2/6/2019	1:10:55 PM	63.2	6.7
2/6/2019	1:10:56 PM	63.2	6.7
2/6/2019	1:10:57 PM	63.2	6.7
2/6/2019	1:10:58 PM	63.2	6.7
2/6/2019	1:10:59 PM	63.2	6.7
2/6/2019	1:11:00 PM	63.2	6.7
2/6/2019	1:11:01 PM	63.2	6.7
2/6/2019	1:11:02 PM	63.2	6.7
2/6/2019	1:11:03 PM	63.2	6.7
2/6/2019	1:11:04 PM	63.2	6.7
2/6/2019	1:11:05 PM	63.1	6.6
2/6/2019	1:11:06 PM	63.1	6.6
2/6/2019	1:11:07 PM	63.1	6.6
2/6/2019	1:11:08 PM	63.1	6.6

APPENDIX E50: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-1 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:11:09 PM	63.1	6.6
2/6/2019	1:11:10 PM	63.1	6.6
2/6/2019	1:11:11 PM	63.1	6.6
2/6/2019	1:11:12 PM	63.1	6.6
2/6/2019	1:11:13 PM	63.1	6.6
2/6/2019	1:11:14 PM	63.1	6.6
2/6/2019	1:11:15 PM	63.1	6.6
2/6/2019	1:11:16 PM	63.0	6.5
2/6/2019	1:11:17 PM	63.0	6.5
2/6/2019	1:11:18 PM	63.0	6.5
2/6/2019	1:11:19 PM	63.0	6.5
2/6/2019	1:11:20 PM	63.0	6.5
2/6/2019	1:11:21 PM	63.0	6.5
2/6/2019	1:11:22 PM	63.0	6.5
2/6/2019	1:11:23 PM	63.0	6.5
2/6/2019	1:11:24 PM	63.0	6.5
2/6/2019	1:11:25 PM	63.0	6.5
2/6/2019	1:11:26 PM	62.9	6.4
2/6/2019	1:11:27 PM	62.9	6.4
2/6/2019	1:11:28 PM	62.9	6.4
2/6/2019	1:11:29 PM	62.9	6.4
2/6/2019	1:11:30 PM	62.9	6.4
2/6/2019	1:11:31 PM	62.9	6.4
2/6/2019	1:11:32 PM	62.9	6.4
2/6/2019	1:11:33 PM	62.9	6.4
2/6/2019	1:11:34 PM	62.9	6.4
2/6/2019	1:11:35 PM	62.9	6.4
2/6/2019	1:11:36 PM	62.9	6.4
2/6/2019	1:11:37 PM	62.9	6.4
2/6/2019	1:11:38 PM	62.8	6.3
2/6/2019	1:11:39 PM	62.8	6.3
2/6/2019	1:11:40 PM	62.8	6.3
2/6/2019	1:11:41 PM	62.8	6.3
2/6/2019	1:11:42 PM	62.8	6.3
2/6/2019	1:11:43 PM	62.8	6.3
2/6/2019	1:11:44 PM	62.8	6.3
2/6/2019	1:11:45 PM	62.8	6.3
2/6/2019	1:11:46 PM	62.8	6.3
2/6/2019	1:11:47 PM	62.8	6.3
2/6/2019	1:11:48 PM	62.8	6.3
2/6/2019	1:11:49 PM	62.8	6.3
2/6/2019	1:11:50 PM	62.8	6.3
2/6/2019	1:11:51 PM	62.8	6.3
2/6/2019	1:11:52 PM	62.8	6.3
2/6/2019	1:11:53 PM	62.8	6.3
2/6/2019	1:11:54 PM	62.8	6.3
2/6/2019	1:11:55 PM	62.8	6.3
2/6/2019	1:11:56 PM	62.8	6.3
2/6/2019	1:11:57 PM	62.8	6.3
2/6/2019	1:11:58 PM	62.7	6.2
2/6/2019	1:11:59 PM	62.7	6.2
2/6/2019	1:12:00 PM	62.7	6.2
2/6/2019	1:12:01 PM	62.7	6.2
2/6/2019	1:12:02 PM	62.7	6.2
2/6/2019	1:12:03 PM	62.7	6.2
2/6/2019	1:12:04 PM	62.7	6.2
2/6/2019	1:12:05 PM	62.7	6.2
2/6/2019	1:12:06 PM	62.7	6.2
2/6/2019	1:12:07 PM	62.7	6.2
2/6/2019	1:12:08 PM	62.6	6.1
2/6/2019	1:12:09 PM	62.6	6.1
2/6/2019	1:12:10 PM	62.6	6.1
2/6/2019	1:12:11 PM	62.6	6.1
2/6/2019	1:12:12 PM	62.6	6.1
2/6/2019	1:12:13 PM	62.6	6.1
2/6/2019	1:12:14 PM	62.5	6.0
2/6/2019	1:12:15 PM	62.5	6.0
2/6/2019	1:12:16 PM	62.5	6.0
2/6/2019	1:12:17 PM	62.5	6.0
2/6/2019	1:12:18 PM	62.5	6.0
2/6/2019	1:12:19 PM	62.5	6.0

Table E2 SEEP-B3 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B3 TEST-1	1210	53.7	12.5
SEEP-B3 TEST-1	1211	53.5	12.6
SEEP-B3 TEST-1	1213	53.6	12.6
SEEP-B3 TEST-1	1215	53.3	12.9
Average		53.5	(µS/cms)
Geometric Mean		53.5	(µS/cms)
Average (pre-test)		59.1	(µS/cms)

Table E3 SEEP-B3 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B3 TEST-1	10	40.2	20.9
SEEP-B3 TEST-1	100	193	21.3
SEEP-B3 TEST-1	1,000	1,593	21.6
SEEP-B3 TEST-1	10,000	13,094	21.9
SEEP-B3 TEST-1	100,000	103,212	21.9

Table E4 SEEP-B3 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.0349	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	278,172.1	(s) . (µS/cms)
Calculated Flow Rate	Q	1.1	L/s
		17.7	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:26:12 PM	60.2	-
2/6/2019	1:26:13 PM	60.1	-
2/6/2019	1:26:14 PM	60.1	-
2/6/2019	1:26:15 PM	60.1	-
2/6/2019	1:26:16 PM	60.0	-
2/6/2019	1:26:17 PM	60.0	-
2/6/2019	1:26:18 PM	60.0	-
2/6/2019	1:26:19 PM	60.0	-
2/6/2019	1:26:20 PM	59.9	-
2/6/2019	1:26:21 PM	59.9	-
2/6/2019	1:26:22 PM	59.9	-
2/6/2019	1:26:23 PM	59.9	-
2/6/2019	1:26:24 PM	59.8	-
2/6/2019	1:26:25 PM	59.7	-
2/6/2019	1:26:26 PM	59.7	-
2/6/2019	1:26:27 PM	59.6	-
2/6/2019	1:26:28 PM	59.6	-
2/6/2019	1:26:29 PM	59.5	-
2/6/2019	1:26:30 PM	59.5	-
2/6/2019	1:26:31 PM	59.4	-
2/6/2019	1:26:32 PM	59.4	-
2/6/2019	1:26:33 PM	59.3	-
2/6/2019	1:26:34 PM	59.3	-
2/6/2019	1:26:35 PM	59.2	-
2/6/2019	1:26:36 PM	59.1	-
2/6/2019	1:26:37 PM	59.1	-
2/6/2019	1:26:38 PM	59.1	-
2/6/2019	1:26:39 PM	59.1	-
2/6/2019	1:26:40 PM	59.0	-
2/6/2019	1:26:41 PM	59.0	-
2/6/2019	1:26:42 PM	59.0	-
2/6/2019	1:26:43 PM	59.0	-
2/6/2019	1:26:44 PM	59.0	-
2/6/2019	1:26:45 PM	58.9	-
2/6/2019	1:26:46 PM	58.9	-
2/6/2019	1:26:47 PM	58.9	-
2/6/2019	1:26:48 PM	58.9	-
2/6/2019	1:26:49 PM	58.9	-
2/6/2019	1:26:50 PM	58.9	-
2/6/2019	1:26:51 PM	58.9	-
2/6/2019	1:26:52 PM	58.8	-
2/6/2019	1:26:53 PM	58.8	-
2/6/2019	1:26:54 PM	58.8	-
2/6/2019	1:26:55 PM	58.8	-
2/6/2019	1:26:56 PM	58.8	-
2/6/2019	1:26:57 PM	58.8	-
2/6/2019	1:26:58 PM	58.7	-
2/6/2019	1:26:59 PM	58.7	-
2/6/2019	1:27:00 PM	58.7	-
2/6/2019	1:27:01 PM	58.7	-
2/6/2019	1:27:02 PM	58.7	-
2/6/2019	1:27:03 PM	58.7	-
2/6/2019	1:27:04 PM	58.7	-
2/6/2019	1:27:05 PM	58.6	-
2/6/2019	1:27:06 PM	58.6	-
2/6/2019	1:27:07 PM	58.6	-
2/6/2019	1:27:08 PM	58.6	-
2/6/2019	1:27:09 PM	58.6	-
2/6/2019	1:27:10 PM	58.6	-
2/6/2019	1:27:11 PM	58.5	-
2/6/2019	1:27:12 PM	58.5	-
2/6/2019	1:27:13 PM	58.5	-
2/6/2019	1:27:14 PM	58.5	-
2/6/2019	1:27:15 PM	58.5	-
2/6/2019	1:27:16 PM	58.5	-
2/6/2019	1:27:17 PM	58.5	-
2/6/2019	1:27:18 PM	58.5	-
2/6/2019	1:27:19 PM	58.5	-
2/6/2019	1:27:20 PM	58.5	-
2/6/2019	1:27:21 PM	58.6	-

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:27:22 PM	58.7	-
2/6/2019	1:27:23 PM	58.8	-
2/6/2019	1:27:24 PM	59.0	-
2/6/2019	1:27:25 PM	59.3	-
2/6/2019	1:27:26 PM	59.8	-
2/6/2019	1:27:27 PM	60.4	1.3
2/6/2019	1:27:28 PM	61.3	2.2
2/6/2019	1:27:29 PM	62.5	3.4
2/6/2019	1:27:30 PM	64.2	5.1
2/6/2019	1:27:31 PM	65.9	6.8
2/6/2019	1:27:32 PM	68.8	9.7
2/6/2019	1:27:33 PM	71.9	12.8
2/6/2019	1:27:34 PM	76.3	17.2
2/6/2019	1:27:35 PM	135.0	75.9
2/6/2019	1:27:36 PM	148.1	89.0
2/6/2019	1:27:37 PM	167.5	108.4
2/6/2019	1:27:38 PM	181.9	122.8
2/6/2019	1:27:39 PM	196.3	137.2
2/6/2019	1:27:40 PM	206.6	147.5
2/6/2019	1:27:41 PM	267.1	208.0
2/6/2019	1:27:42 PM	305.2	246.1
2/6/2019	1:27:43 PM	347.1	288.0
2/6/2019	1:27:44 PM	375.7	316.6
2/6/2019	1:27:45 PM	384.5	325.4
2/6/2019	1:27:46 PM	407.5	348.4
2/6/2019	1:27:47 PM	502.4	443.3
2/6/2019	1:27:48 PM	543.4	484.3
2/6/2019	1:27:49 PM	605.3	546.2
2/6/2019	1:27:50 PM	624.2	565.1
2/6/2019	1:27:51 PM	639.9	580.8
2/6/2019	1:27:52 PM	726.8	667.7
2/6/2019	1:27:53 PM	785.9	726.8
2/6/2019	1:27:54 PM	862.8	803.7
2/6/2019	1:27:55 PM	898.0	838.9
2/6/2019	1:27:56 PM	925.2	866.1
2/6/2019	1:27:57 PM	1016.1	957.0
2/6/2019	1:27:58 PM	1077.7	1018.6
2/6/2019	1:27:59 PM	1163.2	1104.1
2/6/2019	1:28:00 PM	1180.4	1121.3
2/6/2019	1:28:01 PM	1288.4	1229.3
2/6/2019	1:28:02 PM	1339.2	1280.1
2/6/2019	1:28:03 PM	1395.0	1335.9
2/6/2019	1:28:04 PM	1441.2	1382.1
2/6/2019	1:28:05 PM	1477.5	1418.4
2/6/2019	1:28:06 PM	1586.5	1527.4
2/6/2019	1:28:07 PM	1637.6	1578.5
2/6/2019	1:28:08 PM	1698.9	1639.8
2/6/2019	1:28:09 PM	1743.8	1684.7
2/6/2019	1:28:10 PM	1769.4	1710.3
2/6/2019	1:28:11 PM	1809.0	1749.9
2/6/2019	1:28:12 PM	1833.0	1773.9
2/6/2019	1:28:13 PM	1854.5	1795.4
2/6/2019	1:28:14 PM	1988.1	1929.0
2/6/2019	1:28:15 PM	2033.6	1974.5
2/6/2019	1:28:16 PM	2076.4	2017.3
2/6/2019	1:28:17 PM	2093.4	2034.3
2/6/2019	1:28:18 PM	2114.6	2055.5
2/6/2019	1:28:19 PM	2131.5	2072.4
2/6/2019	1:28:20 PM	2146.2	2087.1
2/6/2019	1:28:21 PM	2161.5	2102.4
2/6/2019	1:28:22 PM	2179.9	2120.8
2/6/2019	1:28:23 PM	2194.2	2135.1
2/6/2019	1:28:24 PM	2208.6	2149.5
2/6/2019	1:28:25 PM	2220.2	2161.1
2/6/2019	1:28:26 PM	2231.7	2172.6
2/6/2019	1:28:27 PM	2240.6	2181.5
2/6/2019	1:28:28 PM	2250.9	2191.8
2/6/2019	1:28:29 PM	2259.4	2200.3
2/6/2019	1:28:30 PM	2270.0	2210.9
2/6/2019	1:28:31 PM	2287.3	2228.2
2/6/2019	1:28:32 PM	2306.1	2247.0
2/6/2019	1:28:33 PM	2319.9	2260.8
2/6/2019	1:28:34 PM	2332.7	2273.6
2/6/2019	1:28:35 PM	2341.0	2281.9
2/6/2019	1:28:36 PM	2348.5	2289.4
2/6/2019	1:28:37 PM	2353.3	2294.2
2/6/2019	1:28:38 PM	2357.0	2297.9

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:28:39 PM	2359.0	2299.9
2/6/2019	1:28:40 PM	2359.7	2300.6
2/6/2019	1:28:41 PM	2358.2	2299.1
2/6/2019	1:28:42 PM	2354.4	2295.3
2/6/2019	1:28:43 PM	2349.6	2290.5
2/6/2019	1:28:44 PM	2343.2	2284.1
2/6/2019	1:28:45 PM	2335.7	2276.6
2/6/2019	1:28:46 PM	2325.7	2266.6
2/6/2019	1:28:47 PM	2315.8	2256.7
2/6/2019	1:28:48 PM	2303.1	2244.0
2/6/2019	1:28:49 PM	2291.0	2231.9
2/6/2019	1:28:50 PM	2155.0	2095.9
2/6/2019	1:28:51 PM	2139.7	2080.6
2/6/2019	1:28:52 PM	2113.8	2054.7
2/6/2019	1:28:53 PM	2090.5	2031.4
2/6/2019	1:28:54 PM	2080.7	2021.6
2/6/2019	1:28:55 PM	2069.8	2010.7
2/6/2019	1:28:56 PM	2061.0	2001.9
2/6/2019	1:28:57 PM	2052.8	1993.7
2/6/2019	1:28:58 PM	2039.1	1980.0
2/6/2019	1:28:59 PM	2027.4	1968.3
2/6/2019	1:29:00 PM	2014.6	1955.5
2/6/2019	1:29:01 PM	2001.5	1942.4
2/6/2019	1:29:02 PM	1990.8	1931.7
2/6/2019	1:29:03 PM	1873.4	1814.3
2/6/2019	1:29:04 PM	1848.6	1789.5
2/6/2019	1:29:05 PM	1808.7	1749.6
2/6/2019	1:29:06 PM	1800.6	1741.5
2/6/2019	1:29:07 PM	1790.6	1731.5
2/6/2019	1:29:08 PM	1777.1	1718.0
2/6/2019	1:29:09 PM	1764.1	1705.0
2/6/2019	1:29:10 PM	1751.7	1692.6
2/6/2019	1:29:11 PM	1736.2	1677.1
2/6/2019	1:29:12 PM	1631.0	1571.9
2/6/2019	1:29:13 PM	1618.6	1559.5
2/6/2019	1:29:14 PM	1593.5	1534.4
2/6/2019	1:29:15 PM	1570.6	1511.5
2/6/2019	1:29:16 PM	1563.7	1504.6
2/6/2019	1:29:17 PM	1546.1	1487.0
2/6/2019	1:29:18 PM	1527.5	1468.4
2/6/2019	1:29:19 PM	1509.6	1450.5
2/6/2019	1:29:20 PM	1498.5	1439.4
2/6/2019	1:29:21 PM	1487.7	1428.6
2/6/2019	1:29:22 PM	1384.1	1325.0
2/6/2019	1:29:23 PM	1378.0	1318.9
2/6/2019	1:29:24 PM	1350.8	1291.7
2/6/2019	1:29:25 PM	1333.0	1273.9
2/6/2019	1:29:26 PM	1315.6	1256.5
2/6/2019	1:29:27 PM	1307.8	1248.7
2/6/2019	1:29:28 PM	1300.6	1241.5
2/6/2019	1:29:29 PM	1288.0	1228.9
2/6/2019	1:29:30 PM	1210.0	1150.9
2/6/2019	1:29:31 PM	1191.3	1132.2
2/6/2019	1:29:32 PM	1172.0	1112.9
2/6/2019	1:29:33 PM	1151.4	1092.3
2/6/2019	1:29:34 PM	1142.3	1083.2
2/6/2019	1:29:35 PM	1132.7	1073.6
2/6/2019	1:29:36 PM	1125.2	1066.1
2/6/2019	1:29:37 PM	1114.9	1055.8
2/6/2019	1:29:38 PM	1105.2	1046.1
2/6/2019	1:29:39 PM	1096.0	1036.9
2/6/2019	1:29:40 PM	1015.4	956.3
2/6/2019	1:29:41 PM	1003.3	944.2
2/6/2019	1:29:42 PM	977.5	918.4
2/6/2019	1:29:43 PM	968.7	909.6
2/6/2019	1:29:44 PM	956.5	897.4
2/6/2019	1:29:45 PM	947.2	888.1
2/6/2019	1:29:46 PM	939.5	880.4
2/6/2019	1:29:47 PM	933.1	874.0
2/6/2019	1:29:48 PM	925.6	866.5
2/6/2019	1:29:49 PM	870.5	811.4
2/6/2019	1:29:50 PM	854.9	795.8
2/6/2019	1:29:51 PM	839.1	780.0
2/6/2019	1:29:52 PM	828.6	769.5
2/6/2019	1:29:53 PM	817.9	758.8
2/6/2019	1:29:54 PM	806.8	747.7
2/6/2019	1:29:55 PM	800.0	740.9
2/6/2019	1:29:56 PM	793.5	734.4
2/6/2019	1:29:57 PM	788.6	729.5

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:29:58 PM	781.3	722.2
2/6/2019	1:29:59 PM	728.9	669.8
2/6/2019	1:30:00 PM	715.3	656.2
2/6/2019	1:30:01 PM	705.1	646.0
2/6/2019	1:30:02 PM	707.3	648.2
2/6/2019	1:30:03 PM	697.9	638.8
2/6/2019	1:30:04 PM	687.5	628.4
2/6/2019	1:30:05 PM	681.4	622.3
2/6/2019	1:30:06 PM	675.1	616.0
2/6/2019	1:30:07 PM	670.1	611.0
2/6/2019	1:30:08 PM	666.8	607.7
2/6/2019	1:30:09 PM	590.5	531.4
2/6/2019	1:30:10 PM	605.6	546.5
2/6/2019	1:30:11 PM	600.9	541.8
2/6/2019	1:30:12 PM	596.1	537.0
2/6/2019	1:30:13 PM	591.4	532.3
2/6/2019	1:30:14 PM	585.6	526.5
2/6/2019	1:30:15 PM	581.5	522.4
2/6/2019	1:30:16 PM	576.4	517.3
2/6/2019	1:30:17 PM	571.9	512.8
2/6/2019	1:30:18 PM	566.8	507.7
2/6/2019	1:30:19 PM	562.5	503.4
2/6/2019	1:30:20 PM	557.2	498.1
2/6/2019	1:30:21 PM	552.9	493.8
2/6/2019	1:30:22 PM	504.1	445.0
2/6/2019	1:30:23 PM	498.9	439.8
2/6/2019	1:30:24 PM	492.5	433.4
2/6/2019	1:30:25 PM	489.0	429.9
2/6/2019	1:30:26 PM	481.8	422.7
2/6/2019	1:30:27 PM	477.3	418.2
2/6/2019	1:30:28 PM	473.4	414.3
2/6/2019	1:30:29 PM	470.5	411.4
2/6/2019	1:30:30 PM	466.7	407.6
2/6/2019	1:30:31 PM	463.6	404.5
2/6/2019	1:30:32 PM	459.7	400.6
2/6/2019	1:30:33 PM	456.2	397.1
2/6/2019	1:30:34 PM	452.4	393.3
2/6/2019	1:30:35 PM	449.3	390.2
2/6/2019	1:30:36 PM	446.1	387.0
2/6/2019	1:30:37 PM	444.0	384.9
2/6/2019	1:30:38 PM	440.3	381.2
2/6/2019	1:30:39 PM	433.7	374.6
2/6/2019	1:30:40 PM	426.6	367.5
2/6/2019	1:30:41 PM	421.9	362.8
2/6/2019	1:30:42 PM	414.9	355.8
2/6/2019	1:30:43 PM	408.8	349.7
2/6/2019	1:30:44 PM	403.6	344.5
2/6/2019	1:30:45 PM	397.9	338.8
2/6/2019	1:30:46 PM	393.1	334.0
2/6/2019	1:30:47 PM	387.5	328.4
2/6/2019	1:30:48 PM	382.7	323.6
2/6/2019	1:30:49 PM	377.0	317.9
2/6/2019	1:30:50 PM	372.0	312.9
2/6/2019	1:30:51 PM	366.5	307.4
2/6/2019	1:30:52 PM	361.9	302.8
2/6/2019	1:30:53 PM	356.7	297.6
2/6/2019	1:30:54 PM	352.3	293.2
2/6/2019	1:30:55 PM	347.4	288.3
2/6/2019	1:30:56 PM	343.2	284.1
2/6/2019	1:30:57 PM	338.4	279.3
2/6/2019	1:30:58 PM	334.4	275.3
2/6/2019	1:30:59 PM	330.2	271.1
2/6/2019	1:31:00 PM	326.5	267.4
2/6/2019	1:31:01 PM	322.4	263.3
2/6/2019	1:31:02 PM	318.9	259.8
2/6/2019	1:31:03 PM	315.2	256.1
2/6/2019	1:31:04 PM	312.0	252.9
2/6/2019	1:31:05 PM	308.5	249.4
2/6/2019	1:31:06 PM	305.4	246.3
2/6/2019	1:31:07 PM	302.0	242.9
2/6/2019	1:31:08 PM	299.0	239.9
2/6/2019	1:31:09 PM	295.6	236.5
2/6/2019	1:31:10 PM	292.7	233.6
2/6/2019	1:31:11 PM	289.3	230.2
2/6/2019	1:31:12 PM	286.5	227.4
2/6/2019	1:31:13 PM	283.3	224.2
2/6/2019	1:31:14 PM	280.6	221.5
2/6/2019	1:31:15 PM	277.5	218.4
2/6/2019	1:31:16 PM	274.7	215.6

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:31:17 PM	271.5	212.4
2/6/2019	1:31:18 PM	268.3	209.2
2/6/2019	1:31:19 PM	265.5	206.4
2/6/2019	1:31:20 PM	262.2	203.1
2/6/2019	1:31:21 PM	259.5	200.4
2/6/2019	1:31:22 PM	256.8	197.7
2/6/2019	1:31:23 PM	254.3	195.2
2/6/2019	1:31:24 PM	251.6	192.5
2/6/2019	1:31:25 PM	249.3	190.2
2/6/2019	1:31:26 PM	246.7	187.6
2/6/2019	1:31:27 PM	244.3	185.2
2/6/2019	1:31:28 PM	241.9	182.8
2/6/2019	1:31:29 PM	239.9	180.8
2/6/2019	1:31:30 PM	237.4	178.3
2/6/2019	1:31:31 PM	235.4	176.3
2/6/2019	1:31:32 PM	233.3	174.2
2/6/2019	1:31:33 PM	231.5	172.4
2/6/2019	1:31:34 PM	229.5	170.4
2/6/2019	1:31:35 PM	227.6	168.5
2/6/2019	1:31:36 PM	225.5	166.4
2/6/2019	1:31:37 PM	223.8	164.7
2/6/2019	1:31:38 PM	221.7	162.6
2/6/2019	1:31:39 PM	219.8	160.7
2/6/2019	1:31:40 PM	217.9	158.8
2/6/2019	1:31:41 PM	216.1	157.0
2/6/2019	1:31:42 PM	214.2	155.1
2/6/2019	1:31:43 PM	212.6	153.5
2/6/2019	1:31:44 PM	210.7	151.6
2/6/2019	1:31:45 PM	209.1	150.0
2/6/2019	1:31:46 PM	207.2	148.1
2/6/2019	1:31:47 PM	205.6	146.5
2/6/2019	1:31:48 PM	203.9	144.8
2/6/2019	1:31:49 PM	202.4	143.3
2/6/2019	1:31:50 PM	200.8	141.7
2/6/2019	1:31:51 PM	199.4	140.3
2/6/2019	1:31:52 PM	198.0	138.9
2/6/2019	1:31:53 PM	196.6	137.5
2/6/2019	1:31:54 PM	195.1	136.0
2/6/2019	1:31:55 PM	193.7	134.6
2/6/2019	1:31:56 PM	192.3	133.2
2/6/2019	1:31:57 PM	191.0	131.9
2/6/2019	1:31:58 PM	189.6	130.5
2/6/2019	1:31:59 PM	188.4	129.3
2/6/2019	1:32:00 PM	187.1	128.0
2/6/2019	1:32:01 PM	185.7	126.6
2/6/2019	1:32:02 PM	184.6	125.5
2/6/2019	1:32:03 PM	183.3	124.2
2/6/2019	1:32:04 PM	182.1	123.0
2/6/2019	1:32:05 PM	180.8	121.7
2/6/2019	1:32:06 PM	179.7	120.6
2/6/2019	1:32:07 PM	178.5	119.4
2/6/2019	1:32:08 PM	177.4	118.3
2/6/2019	1:32:09 PM	176.1	117.0
2/6/2019	1:32:10 PM	175.1	116.0
2/6/2019	1:32:11 PM	173.9	114.8
2/6/2019	1:32:12 PM	172.9	113.8
2/6/2019	1:32:13 PM	171.8	112.7
2/6/2019	1:32:14 PM	170.8	111.7
2/6/2019	1:32:15 PM	169.7	110.6
2/6/2019	1:32:16 PM	168.8	109.7
2/6/2019	1:32:17 PM	167.7	108.6
2/6/2019	1:32:18 PM	166.8	107.7
2/6/2019	1:32:19 PM	165.8	106.7
2/6/2019	1:32:20 PM	164.9	105.8
2/6/2019	1:32:21 PM	164.0	104.9
2/6/2019	1:32:22 PM	163.2	104.1
2/6/2019	1:32:23 PM	162.2	103.1
2/6/2019	1:32:24 PM	161.4	102.3
2/6/2019	1:32:25 PM	160.4	101.3
2/6/2019	1:32:26 PM	159.6	100.5
2/6/2019	1:32:27 PM	158.6	99.5
2/6/2019	1:32:28 PM	157.8	98.7
2/6/2019	1:32:29 PM	156.9	97.8
2/6/2019	1:32:30 PM	156.2	97.1
2/6/2019	1:32:31 PM	155.4	96.3
2/6/2019	1:32:32 PM	154.6	95.5
2/6/2019	1:32:33 PM	153.8	94.7
2/6/2019	1:32:34 PM	153.0	93.9
2/6/2019	1:32:35 PM	152.3	93.2

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:32:36 PM	151.6	92.5
2/6/2019	1:32:37 PM	150.8	91.7
2/6/2019	1:32:38 PM	150.2	91.1
2/6/2019	1:32:39 PM	149.5	90.4
2/6/2019	1:32:40 PM	148.8	89.7
2/6/2019	1:32:41 PM	148.1	89.0
2/6/2019	1:32:42 PM	147.4	88.3
2/6/2019	1:32:43 PM	146.8	87.7
2/6/2019	1:32:44 PM	146.2	87.1
2/6/2019	1:32:45 PM	145.6	86.5
2/6/2019	1:32:46 PM	145.0	85.9
2/6/2019	1:32:47 PM	144.5	85.4
2/6/2019	1:32:48 PM	143.9	84.8
2/6/2019	1:32:49 PM	143.4	84.3
2/6/2019	1:32:50 PM	142.7	83.6
2/6/2019	1:32:51 PM	142.2	83.1
2/6/2019	1:32:52 PM	141.7	82.6
2/6/2019	1:32:53 PM	141.2	82.1
2/6/2019	1:32:54 PM	140.6	81.5
2/6/2019	1:32:55 PM	140.2	81.1
2/6/2019	1:32:56 PM	139.6	80.5
2/6/2019	1:32:57 PM	139.2	80.1
2/6/2019	1:32:58 PM	138.6	79.5
2/6/2019	1:32:59 PM	138.1	79.0
2/6/2019	1:33:00 PM	137.5	78.4
2/6/2019	1:33:01 PM	137.0	77.9
2/6/2019	1:33:02 PM	136.5	77.4
2/6/2019	1:33:03 PM	136.0	76.9
2/6/2019	1:33:04 PM	135.6	76.5
2/6/2019	1:33:05 PM	135.2	76.1
2/6/2019	1:33:06 PM	134.7	75.6
2/6/2019	1:33:07 PM	134.3	75.2
2/6/2019	1:33:08 PM	133.9	74.8
2/6/2019	1:33:09 PM	133.5	74.4
2/6/2019	1:33:10 PM	133.0	73.9
2/6/2019	1:33:11 PM	132.7	73.6
2/6/2019	1:33:12 PM	132.4	73.3
2/6/2019	1:33:13 PM	132.1	73.0
2/6/2019	1:33:14 PM	131.7	72.6
2/6/2019	1:33:15 PM	131.4	72.3
2/6/2019	1:33:16 PM	131.0	71.9
2/6/2019	1:33:17 PM	130.7	71.6
2/6/2019	1:33:18 PM	130.3	71.2
2/6/2019	1:33:19 PM	130.0	70.9
2/6/2019	1:33:20 PM	129.6	70.5
2/6/2019	1:33:21 PM	129.3	70.2
2/6/2019	1:33:22 PM	129.0	69.9
2/6/2019	1:33:23 PM	128.7	69.6
2/6/2019	1:33:24 PM	128.4	69.3
2/6/2019	1:33:25 PM	128.0	68.9
2/6/2019	1:33:26 PM	127.7	68.6
2/6/2019	1:33:27 PM	127.4	68.3
2/6/2019	1:33:28 PM	127.1	68.0
2/6/2019	1:33:29 PM	126.7	67.6
2/6/2019	1:33:30 PM	126.4	67.3
2/6/2019	1:33:31 PM	126.0	66.9
2/6/2019	1:33:32 PM	125.7	66.6
2/6/2019	1:33:33 PM	125.3	66.2
2/6/2019	1:33:34 PM	125.1	66.0
2/6/2019	1:33:35 PM	124.8	65.7
2/6/2019	1:33:36 PM	124.5	65.4
2/6/2019	1:33:37 PM	124.2	65.1
2/6/2019	1:33:38 PM	123.9	64.8
2/6/2019	1:33:39 PM	123.5	64.4
2/6/2019	1:33:40 PM	123.2	64.1
2/6/2019	1:33:41 PM	122.9	63.8
2/6/2019	1:33:42 PM	122.5	63.4
2/6/2019	1:33:43 PM	122.3	63.2
2/6/2019	1:33:44 PM	121.9	62.8
2/6/2019	1:33:45 PM	121.6	62.5
2/6/2019	1:33:46 PM	121.3	62.2
2/6/2019	1:33:47 PM	120.9	61.8
2/6/2019	1:33:48 PM	120.6	61.5
2/6/2019	1:33:49 PM	120.2	61.1
2/6/2019	1:33:50 PM	119.9	60.8
2/6/2019	1:33:51 PM	119.6	60.5
2/6/2019	1:33:52 PM	119.3	60.2
2/6/2019	1:33:53 PM	119.0	59.9
2/6/2019	1:33:54 PM	118.7	59.6

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:33:55 PM	118.4	59.3
2/6/2019	1:33:56 PM	118.1	59.0
2/6/2019	1:33:57 PM	117.8	58.7
2/6/2019	1:33:58 PM	117.5	58.4
2/6/2019	1:33:59 PM	117.2	58.1
2/6/2019	1:34:00 PM	116.9	57.8
2/6/2019	1:34:01 PM	116.5	57.4
2/6/2019	1:34:02 PM	116.2	57.1
2/6/2019	1:34:03 PM	115.9	56.8
2/6/2019	1:34:04 PM	115.5	56.4
2/6/2019	1:34:05 PM	115.2	56.1
2/6/2019	1:34:06 PM	114.9	55.8
2/6/2019	1:34:07 PM	114.5	55.4
2/6/2019	1:34:08 PM	114.2	55.1
2/6/2019	1:34:09 PM	113.8	54.7
2/6/2019	1:34:10 PM	113.5	54.4
2/6/2019	1:34:11 PM	113.2	54.1
2/6/2019	1:34:12 PM	112.9	53.8
2/6/2019	1:34:13 PM	112.5	53.4
2/6/2019	1:34:14 PM	112.2	53.1
2/6/2019	1:34:15 PM	111.9	52.8
2/6/2019	1:34:16 PM	111.6	52.5
2/6/2019	1:34:17 PM	111.3	52.2
2/6/2019	1:34:18 PM	111.0	51.9
2/6/2019	1:34:19 PM	110.7	51.6
2/6/2019	1:34:20 PM	110.3	51.2
2/6/2019	1:34:21 PM	110.0	50.9
2/6/2019	1:34:22 PM	109.7	50.6
2/6/2019	1:34:23 PM	109.4	50.3
2/6/2019	1:34:24 PM	109.1	50.0
2/6/2019	1:34:25 PM	108.8	49.7
2/6/2019	1:34:26 PM	108.4	49.3
2/6/2019	1:34:27 PM	108.1	49.0
2/6/2019	1:34:28 PM	107.8	48.7
2/6/2019	1:34:29 PM	107.5	48.4
2/6/2019	1:34:30 PM	107.2	48.1
2/6/2019	1:34:31 PM	106.9	47.8
2/6/2019	1:34:32 PM	106.7	47.6
2/6/2019	1:34:33 PM	106.4	47.3
2/6/2019	1:34:34 PM	106.1	47.0
2/6/2019	1:34:35 PM	105.9	46.8
2/6/2019	1:34:36 PM	105.6	46.5
2/6/2019	1:34:37 PM	105.4	46.3
2/6/2019	1:34:38 PM	105.1	46.0
2/6/2019	1:34:39 PM	104.9	45.8
2/6/2019	1:34:40 PM	104.7	45.6
2/6/2019	1:34:41 PM	104.4	45.3
2/6/2019	1:34:42 PM	104.2	45.1
2/6/2019	1:34:43 PM	103.9	44.8
2/6/2019	1:34:44 PM	103.7	44.6
2/6/2019	1:34:45 PM	103.5	44.4
2/6/2019	1:34:46 PM	103.2	44.1
2/6/2019	1:34:47 PM	103.0	43.9
2/6/2019	1:34:48 PM	102.8	43.7
2/6/2019	1:34:49 PM	102.6	43.5
2/6/2019	1:34:50 PM	102.4	43.3
2/6/2019	1:34:51 PM	102.2	43.1
2/6/2019	1:34:52 PM	102.0	42.9
2/6/2019	1:34:53 PM	101.8	42.7
2/6/2019	1:34:54 PM	101.6	42.5
2/6/2019	1:34:55 PM	101.4	42.3
2/6/2019	1:34:56 PM	101.2	42.1
2/6/2019	1:34:57 PM	101.0	41.9
2/6/2019	1:34:58 PM	100.8	41.7
2/6/2019	1:34:59 PM	100.6	41.5
2/6/2019	1:35:00 PM	100.4	41.3
2/6/2019	1:35:01 PM	100.2	41.1
2/6/2019	1:35:02 PM	100.0	40.9
2/6/2019	1:35:03 PM	99.8	40.7
2/6/2019	1:35:04 PM	99.6	40.5
2/6/2019	1:35:05 PM	99.4	40.3
2/6/2019	1:35:06 PM	99.3	40.2
2/6/2019	1:35:07 PM	99.1	40.0
2/6/2019	1:35:08 PM	98.9	39.8
2/6/2019	1:35:09 PM	98.7	39.6
2/6/2019	1:35:10 PM	98.6	39.5
2/6/2019	1:35:11 PM	98.4	39.3
2/6/2019	1:35:12 PM	98.2	39.1
2/6/2019	1:35:13 PM	98.0	38.9

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:35:14 PM	97.9	38.8
2/6/2019	1:35:15 PM	97.7	38.6
2/6/2019	1:35:16 PM	97.6	38.5
2/6/2019	1:35:17 PM	97.4	38.3
2/6/2019	1:35:18 PM	97.2	38.1
2/6/2019	1:35:19 PM	97.0	37.9
2/6/2019	1:35:20 PM	96.9	37.8
2/6/2019	1:35:21 PM	96.7	37.6
2/6/2019	1:35:22 PM	96.5	37.4
2/6/2019	1:35:23 PM	96.4	37.3
2/6/2019	1:35:24 PM	96.2	37.1
2/6/2019	1:35:25 PM	96.1	37.0
2/6/2019	1:35:26 PM	96.0	36.9
2/6/2019	1:35:27 PM	95.8	36.7
2/6/2019	1:35:28 PM	95.7	36.6
2/6/2019	1:35:29 PM	95.5	36.4
2/6/2019	1:35:30 PM	95.4	36.3
2/6/2019	1:35:31 PM	95.2	36.1
2/6/2019	1:35:32 PM	95.1	36.0
2/6/2019	1:35:33 PM	95.0	35.9
2/6/2019	1:35:34 PM	94.9	35.8
2/6/2019	1:35:35 PM	94.7	35.6
2/6/2019	1:35:36 PM	94.6	35.5
2/6/2019	1:35:37 PM	94.4	35.3
2/6/2019	1:35:38 PM	94.2	35.1
2/6/2019	1:35:39 PM	94.1	35.0
2/6/2019	1:35:40 PM	93.9	34.8
2/6/2019	1:35:41 PM	93.8	34.7
2/6/2019	1:35:42 PM	93.6	34.5
2/6/2019	1:35:43 PM	93.5	34.4
2/6/2019	1:35:44 PM	93.3	34.2
2/6/2019	1:35:45 PM	93.1	34.0
2/6/2019	1:35:46 PM	93.0	33.9
2/6/2019	1:35:47 PM	92.8	33.7
2/6/2019	1:35:48 PM	92.7	33.6
2/6/2019	1:35:49 PM	92.5	33.4
2/6/2019	1:35:50 PM	92.4	33.3
2/6/2019	1:35:51 PM	92.2	33.1
2/6/2019	1:35:52 PM	92.1	33.0
2/6/2019	1:35:53 PM	92.0	32.9
2/6/2019	1:35:54 PM	91.8	32.7
2/6/2019	1:35:55 PM	91.7	32.6
2/6/2019	1:35:56 PM	91.6	32.5
2/6/2019	1:35:57 PM	91.5	32.4
2/6/2019	1:35:58 PM	91.3	32.2
2/6/2019	1:35:59 PM	91.2	32.1
2/6/2019	1:36:00 PM	91.1	32.0
2/6/2019	1:36:01 PM	90.9	31.8
2/6/2019	1:36:02 PM	90.8	31.7
2/6/2019	1:36:03 PM	90.7	31.6
2/6/2019	1:36:04 PM	90.6	31.5
2/6/2019	1:36:05 PM	90.5	31.4
2/6/2019	1:36:06 PM	90.3	31.2
2/6/2019	1:36:07 PM	90.2	31.1
2/6/2019	1:36:08 PM	90.1	31.0
2/6/2019	1:36:09 PM	89.9	30.8
2/6/2019	1:36:10 PM	89.8	30.7
2/6/2019	1:36:11 PM	89.7	30.6
2/6/2019	1:36:12 PM	89.5	30.4
2/6/2019	1:36:13 PM	89.4	30.3
2/6/2019	1:36:14 PM	89.3	30.2
2/6/2019	1:36:15 PM	89.1	30.0
2/6/2019	1:36:16 PM	89.0	29.9
2/6/2019	1:36:17 PM	88.9	29.8
2/6/2019	1:36:18 PM	88.7	29.6
2/6/2019	1:36:19 PM	88.6	29.5
2/6/2019	1:36:20 PM	88.5	29.4
2/6/2019	1:36:21 PM	88.4	29.3
2/6/2019	1:36:22 PM	88.3	29.2
2/6/2019	1:36:23 PM	88.2	29.1
2/6/2019	1:36:24 PM	88.1	29.0
2/6/2019	1:36:25 PM	87.9	28.8
2/6/2019	1:36:26 PM	87.8	28.7
2/6/2019	1:36:27 PM	87.7	28.6
2/6/2019	1:36:28 PM	87.6	28.5
2/6/2019	1:36:29 PM	87.5	28.4
2/6/2019	1:36:30 PM	87.4	28.3
2/6/2019	1:36:31 PM	87.2	28.1
2/6/2019	1:36:32 PM	87.1	28.0

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:36:33 PM	87.0	27.9
2/6/2019	1:36:34 PM	86.9	27.8
2/6/2019	1:36:35 PM	86.7	27.6
2/6/2019	1:36:36 PM	86.6	27.5
2/6/2019	1:36:37 PM	86.5	27.4
2/6/2019	1:36:38 PM	86.3	27.2
2/6/2019	1:36:39 PM	86.2	27.1
2/6/2019	1:36:40 PM	86.1	27.0
2/6/2019	1:36:41 PM	85.9	26.8
2/6/2019	1:36:42 PM	85.8	26.7
2/6/2019	1:36:43 PM	85.7	26.6
2/6/2019	1:36:44 PM	85.5	26.4
2/6/2019	1:36:45 PM	85.4	26.3
2/6/2019	1:36:46 PM	85.3	26.2
2/6/2019	1:36:47 PM	85.2	26.1
2/6/2019	1:36:48 PM	85.1	26.0
2/6/2019	1:36:49 PM	85.0	25.9
2/6/2019	1:36:50 PM	84.9	25.8
2/6/2019	1:36:51 PM	84.8	25.7
2/6/2019	1:36:52 PM	84.7	25.6
2/6/2019	1:36:53 PM	84.5	25.4
2/6/2019	1:36:54 PM	84.4	25.3
2/6/2019	1:36:55 PM	84.3	25.2
2/6/2019	1:36:56 PM	84.2	25.1
2/6/2019	1:36:57 PM	84.1	25.0
2/6/2019	1:36:58 PM	84.0	24.9
2/6/2019	1:36:59 PM	83.9	24.8
2/6/2019	1:37:00 PM	83.9	24.8
2/6/2019	1:37:01 PM	83.7	24.6
2/6/2019	1:37:02 PM	83.7	24.6
2/6/2019	1:37:03 PM	83.6	24.5
2/6/2019	1:37:04 PM	83.5	24.4
2/6/2019	1:37:05 PM	83.4	24.3
2/6/2019	1:37:06 PM	83.3	24.2
2/6/2019	1:37:07 PM	83.2	24.1
2/6/2019	1:37:08 PM	83.2	24.1
2/6/2019	1:37:09 PM	83.1	24.0
2/6/2019	1:37:10 PM	83.0	23.9
2/6/2019	1:37:11 PM	82.9	23.8
2/6/2019	1:37:12 PM	82.8	23.7
2/6/2019	1:37:13 PM	82.8	23.7
2/6/2019	1:37:14 PM	82.7	23.6
2/6/2019	1:37:15 PM	82.6	23.5
2/6/2019	1:37:16 PM	82.5	23.4
2/6/2019	1:37:17 PM	82.4	23.3
2/6/2019	1:37:18 PM	82.3	23.2
2/6/2019	1:37:19 PM	82.2	23.1
2/6/2019	1:37:20 PM	82.1	23.0
2/6/2019	1:37:21 PM	82.1	23.0
2/6/2019	1:37:22 PM	82.0	22.9
2/6/2019	1:37:23 PM	81.9	22.8
2/6/2019	1:37:24 PM	81.8	22.7
2/6/2019	1:37:25 PM	81.7	22.6
2/6/2019	1:37:26 PM	81.7	22.6
2/6/2019	1:37:27 PM	81.6	22.5
2/6/2019	1:37:28 PM	81.5	22.4
2/6/2019	1:37:29 PM	81.4	22.3
2/6/2019	1:37:30 PM	81.4	22.3
2/6/2019	1:37:31 PM	81.3	22.2
2/6/2019	1:37:32 PM	81.2	22.1
2/6/2019	1:37:33 PM	81.2	22.1
2/6/2019	1:37:34 PM	81.1	22.0
2/6/2019	1:37:35 PM	81.0	21.9
2/6/2019	1:37:36 PM	80.9	21.8
2/6/2019	1:37:37 PM	80.9	21.8
2/6/2019	1:37:38 PM	80.8	21.7
2/6/2019	1:37:39 PM	80.8	21.7
2/6/2019	1:37:40 PM	80.7	21.6
2/6/2019	1:37:41 PM	80.7	21.6
2/6/2019	1:37:42 PM	80.6	21.5
2/6/2019	1:37:43 PM	80.6	21.5
2/6/2019	1:37:44 PM	80.5	21.4
2/6/2019	1:37:45 PM	80.5	21.4
2/6/2019	1:37:46 PM	80.4	21.3
2/6/2019	1:37:47 PM	80.4	21.3
2/6/2019	1:37:48 PM	80.3	21.2
2/6/2019	1:37:49 PM	80.3	21.2
2/6/2019	1:37:50 PM	80.2	21.1
2/6/2019	1:37:51 PM	80.1	21.0

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:37:52 PM	80.1	21.0
2/6/2019	1:37:53 PM	80.0	20.9
2/6/2019	1:37:54 PM	80.0	20.9
2/6/2019	1:37:55 PM	79.9	20.8
2/6/2019	1:37:56 PM	79.9	20.8
2/6/2019	1:37:57 PM	79.8	20.7
2/6/2019	1:37:58 PM	79.7	20.6
2/6/2019	1:37:59 PM	79.7	20.6
2/6/2019	1:38:00 PM	79.6	20.5
2/6/2019	1:38:01 PM	79.6	20.5
2/6/2019	1:38:02 PM	79.5	20.4
2/6/2019	1:38:03 PM	79.5	20.4
2/6/2019	1:38:04 PM	79.4	20.3
2/6/2019	1:38:05 PM	79.4	20.3
2/6/2019	1:38:06 PM	79.3	20.2
2/6/2019	1:38:07 PM	79.2	20.1
2/6/2019	1:38:08 PM	79.2	20.1
2/6/2019	1:38:09 PM	79.1	20.0
2/6/2019	1:38:10 PM	79.1	20.0
2/6/2019	1:38:11 PM	79.0	19.9
2/6/2019	1:38:12 PM	79.0	19.9
2/6/2019	1:38:13 PM	78.9	19.8
2/6/2019	1:38:14 PM	78.9	19.8
2/6/2019	1:38:15 PM	78.8	19.7
2/6/2019	1:38:16 PM	78.8	19.7
2/6/2019	1:38:17 PM	78.7	19.6
2/6/2019	1:38:18 PM	78.7	19.6
2/6/2019	1:38:19 PM	78.6	19.5
2/6/2019	1:38:20 PM	78.6	19.5
2/6/2019	1:38:21 PM	78.5	19.4
2/6/2019	1:38:22 PM	78.5	19.4
2/6/2019	1:38:23 PM	78.4	19.3
2/6/2019	1:38:24 PM	78.3	19.2
2/6/2019	1:38:25 PM	78.3	19.2
2/6/2019	1:38:26 PM	78.2	19.1
2/6/2019	1:38:27 PM	78.1	19.0
2/6/2019	1:38:28 PM	78.1	19.0
2/6/2019	1:38:29 PM	78.0	18.9
2/6/2019	1:38:30 PM	77.9	18.8
2/6/2019	1:38:31 PM	77.9	18.8
2/6/2019	1:38:32 PM	77.8	18.7
2/6/2019	1:38:33 PM	77.7	18.6
2/6/2019	1:38:34 PM	77.7	18.6
2/6/2019	1:38:35 PM	77.6	18.5
2/6/2019	1:38:36 PM	77.6	18.5
2/6/2019	1:38:37 PM	77.5	18.4
2/6/2019	1:38:38 PM	77.4	18.3
2/6/2019	1:38:39 PM	77.4	18.3
2/6/2019	1:38:40 PM	77.3	18.2
2/6/2019	1:38:41 PM	77.3	18.2
2/6/2019	1:38:42 PM	77.2	18.1
2/6/2019	1:38:43 PM	77.2	18.1
2/6/2019	1:38:44 PM	77.1	18.0
2/6/2019	1:38:45 PM	77.0	17.9
2/6/2019	1:38:46 PM	77.0	17.9
2/6/2019	1:38:47 PM	76.9	17.8
2/6/2019	1:38:48 PM	76.8	17.7
2/6/2019	1:38:49 PM	76.8	17.7
2/6/2019	1:38:50 PM	76.7	17.6
2/6/2019	1:38:51 PM	76.7	17.6
2/6/2019	1:38:52 PM	76.6	17.5
2/6/2019	1:38:53 PM	76.6	17.5
2/6/2019	1:38:54 PM	76.5	17.4
2/6/2019	1:38:55 PM	76.4	17.3
2/6/2019	1:38:56 PM	76.4	17.3
2/6/2019	1:38:57 PM	76.3	17.2
2/6/2019	1:38:58 PM	76.3	17.2
2/6/2019	1:38:59 PM	76.2	17.1
2/6/2019	1:39:00 PM	76.2	17.1
2/6/2019	1:39:01 PM	76.2	17.1
2/6/2019	1:39:02 PM	76.1	17.0
2/6/2019	1:39:03 PM	76.1	17.0
2/6/2019	1:39:04 PM	76.0	16.9
2/6/2019	1:39:05 PM	76.0	16.9
2/6/2019	1:39:06 PM	75.9	16.8
2/6/2019	1:39:07 PM	75.9	16.8
2/6/2019	1:39:08 PM	75.8	16.7
2/6/2019	1:39:09 PM	75.8	16.7
2/6/2019	1:39:10 PM	75.7	16.6

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:39:11 PM	75.7	16.6
2/6/2019	1:39:12 PM	75.6	16.5
2/6/2019	1:39:13 PM	75.6	16.5
2/6/2019	1:39:14 PM	75.5	16.4
2/6/2019	1:39:15 PM	75.5	16.4
2/6/2019	1:39:16 PM	75.4	16.3
2/6/2019	1:39:17 PM	75.4	16.3
2/6/2019	1:39:18 PM	75.4	16.3
2/6/2019	1:39:19 PM	75.3	16.2
2/6/2019	1:39:20 PM	75.3	16.2
2/6/2019	1:39:21 PM	75.3	16.2
2/6/2019	1:39:22 PM	75.2	16.1
2/6/2019	1:39:23 PM	75.2	16.1
2/6/2019	1:39:24 PM	75.1	16.0
2/6/2019	1:39:25 PM	75.1	16.0
2/6/2019	1:39:26 PM	75.1	16.0
2/6/2019	1:39:27 PM	75.0	15.9
2/6/2019	1:39:28 PM	75.0	15.9
2/6/2019	1:39:29 PM	74.9	15.8
2/6/2019	1:39:30 PM	74.9	15.8
2/6/2019	1:39:31 PM	74.8	15.7
2/6/2019	1:39:32 PM	74.8	15.7
2/6/2019	1:39:33 PM	74.8	15.7
2/6/2019	1:39:34 PM	74.8	15.7
2/6/2019	1:39:35 PM	74.7	15.6
2/6/2019	1:39:36 PM	74.7	15.6
2/6/2019	1:39:37 PM	74.7	15.6
2/6/2019	1:39:38 PM	74.6	15.5
2/6/2019	1:39:39 PM	74.6	15.5
2/6/2019	1:39:40 PM	74.6	15.5
2/6/2019	1:39:41 PM	74.6	15.5
2/6/2019	1:39:42 PM	74.5	15.4
2/6/2019	1:39:43 PM	74.5	15.4
2/6/2019	1:39:44 PM	74.5	15.4
2/6/2019	1:39:45 PM	74.4	15.3
2/6/2019	1:39:46 PM	74.4	15.3
2/6/2019	1:39:47 PM	74.3	15.2
2/6/2019	1:39:48 PM	74.3	15.2
2/6/2019	1:39:49 PM	74.2	15.1
2/6/2019	1:39:50 PM	74.2	15.1
2/6/2019	1:39:51 PM	74.1	15.0
2/6/2019	1:39:52 PM	74.1	15.0
2/6/2019	1:39:53 PM	74.1	15.0
2/6/2019	1:39:54 PM	74.0	14.9
2/6/2019	1:39:55 PM	74.0	14.9
2/6/2019	1:39:56 PM	73.9	14.8
2/6/2019	1:39:57 PM	73.9	14.8
2/6/2019	1:39:58 PM	73.8	14.7
2/6/2019	1:39:59 PM	73.8	14.7
2/6/2019	1:40:00 PM	73.7	14.6
2/6/2019	1:40:01 PM	73.7	14.6
2/6/2019	1:40:02 PM	73.7	14.6
2/6/2019	1:40:03 PM	73.6	14.5
2/6/2019	1:40:04 PM	73.6	14.5
2/6/2019	1:40:05 PM	73.5	14.4
2/6/2019	1:40:06 PM	73.5	14.4
2/6/2019	1:40:07 PM	73.4	14.3
2/6/2019	1:40:08 PM	73.4	14.3
2/6/2019	1:40:09 PM	73.4	14.3
2/6/2019	1:40:10 PM	73.3	14.2
2/6/2019	1:40:11 PM	73.3	14.2
2/6/2019	1:40:12 PM	73.2	14.1
2/6/2019	1:40:13 PM	73.2	14.1
2/6/2019	1:40:14 PM	73.2	14.1
2/6/2019	1:40:15 PM	73.1	14.0
2/6/2019	1:40:16 PM	73.1	14.0
2/6/2019	1:40:17 PM	73.0	13.9
2/6/2019	1:40:18 PM	73.0	13.9
2/6/2019	1:40:19 PM	72.9	13.8
2/6/2019	1:40:20 PM	72.9	13.8
2/6/2019	1:40:21 PM	72.9	13.8
2/6/2019	1:40:22 PM	72.8	13.7
2/6/2019	1:40:23 PM	72.8	13.7
2/6/2019	1:40:24 PM	72.7	13.6
2/6/2019	1:40:25 PM	72.7	13.6
2/6/2019	1:40:26 PM	72.7	13.6
2/6/2019	1:40:27 PM	72.6	13.5
2/6/2019	1:40:28 PM	72.6	13.5
2/6/2019	1:40:29 PM	72.6	13.5

APPENDIX E51: SALT DILUTION GAUGING SUMMARY
SEEP-B3 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B3 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/6/2019	1:40:30 PM	72.5	13.4
2/6/2019	1:40:31 PM	72.5	13.4
2/6/2019	1:40:32 PM	72.4	13.3
2/6/2019	1:40:33 PM	72.4	13.3
2/6/2019	1:40:34 PM	72.4	13.3
2/6/2019	1:40:35 PM	72.3	13.2
2/6/2019	1:40:36 PM	72.3	13.2
2/6/2019	1:40:37 PM	72.2	13.1
2/6/2019	1:40:38 PM	72.2	13.1
2/6/2019	1:40:39 PM	72.2	13.1
2/6/2019	1:40:40 PM	72.1	13.0
2/6/2019	1:40:41 PM	72.1	13.0
2/6/2019	1:40:42 PM	72.1	13.0
2/6/2019	1:40:43 PM	72.0	12.9
2/6/2019	1:40:44 PM	72.0	12.9
2/6/2019	1:40:45 PM	72.0	12.9
2/6/2019	1:40:46 PM	71.9	12.8
2/6/2019	1:40:47 PM	71.9	12.8
2/6/2019	1:40:48 PM	71.9	12.8
2/6/2019	1:40:49 PM	71.8	12.7
2/6/2019	1:40:50 PM	71.8	12.7
2/6/2019	1:40:51 PM	71.7	12.6
2/6/2019	1:40:52 PM	71.7	12.6
2/6/2019	1:40:53 PM	71.7	12.6
2/6/2019	1:40:54 PM	71.6	12.5
2/6/2019	1:40:55 PM	71.6	12.5
2/6/2019	1:40:56 PM	71.6	12.5
2/6/2019	1:40:57 PM	71.5	12.4
2/6/2019	1:40:58 PM	71.5	12.4
2/6/2019	1:40:59 PM	71.5	12.4
2/6/2019	1:41:00 PM	71.4	12.3
2/6/2019	1:41:01 PM	71.4	12.3
2/6/2019	1:41:02 PM	71.4	12.3
2/6/2019	1:41:03 PM	71.3	12.2
2/6/2019	1:41:04 PM	71.3	12.2
2/6/2019	1:41:05 PM	71.3	12.2
2/6/2019	1:41:06 PM	71.2	12.1
2/6/2019	1:41:07 PM	71.2	12.1
2/6/2019	1:41:08 PM	71.1	12.0
2/6/2019	1:41:09 PM	71.1	12.0
2/6/2019	1:41:10 PM	71.1	12.0
2/6/2019	1:41:11 PM	71.0	11.9
2/6/2019	1:41:12 PM	71.0	11.9
2/6/2019	1:41:13 PM	70.9	11.8
2/6/2019	1:41:14 PM	70.9	11.8
2/6/2019	1:41:15 PM	70.9	11.8
2/6/2019	1:41:16 PM	70.8	11.7
2/6/2019	1:41:17 PM	70.8	11.7
2/6/2019	1:41:18 PM	70.8	11.7
2/6/2019	1:41:19 PM	70.7	11.6
2/6/2019	1:41:20 PM	70.7	11.6
2/6/2019	1:41:21 PM	70.7	11.6
2/6/2019	1:41:22 PM	70.7	11.6
2/6/2019	1:41:23 PM	70.6	11.5
2/6/2019	1:41:24 PM	70.6	11.5
2/6/2019	1:41:25 PM	70.6	11.5
2/6/2019	1:41:26 PM	70.5	11.4
2/6/2019	1:41:27 PM	70.5	11.4
2/6/2019	1:41:28 PM	70.5	11.4
2/6/2019	1:41:29 PM	70.5	11.4
2/6/2019	1:41:30 PM	70.4	11.3
2/6/2019	1:41:31 PM	70.4	11.3
2/6/2019	1:41:32 PM	70.4	11.3

Table E2 SEEP-B3 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B3 TEST-2	1210	53.7	12.5
SEEP-B3 TEST-2	1211	53.5	12.6
SEEP-B3 TEST-2	1213	53.6	12.6
SEEP-B3 TEST-2	1215	53.3	12.9
Average		53.5	(µS/cms)
Geometric Mean		53.5	(µS/cms)
Average (pre-test)		59.1	(µS/cms)

Table E3 SEEP-B3 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B3 TEST-2	10	40.2	20.9
SEEP-B3 TEST-2	100	193	21.3
SEEP-B3 TEST-2	1,000	1,593	21.6
SEEP-B3 TEST-2	10,000	13,094	21.9
SEEP-B3 TEST-2	100,000	103,212	21.9

Table E4 SEEP-B3 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	1.0349	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	265,173.5	(s) . (µS/cms)
Calculated Flow Rate	Q	1.2	L/s
		18.6	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E52: SALT DILUTION GAUGING SUMMARY
SEEP-B-TR-2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:09:30 PM	170.0	-
6/7/2019	3:09:31 PM	170.0	-
6/7/2019	3:09:32 PM	169.9	-
6/7/2019	3:09:33 PM	169.9	-
6/7/2019	3:09:34 PM	169.8	-
6/7/2019	3:09:35 PM	169.8	-
6/7/2019	3:09:36 PM	169.7	-
6/7/2019	3:09:37 PM	169.6	-
6/7/2019	3:09:38 PM	169.6	-
6/7/2019	3:09:39 PM	169.5	-
6/7/2019	3:09:40 PM	169.5	-
6/7/2019	3:09:41 PM	169.4	-
6/7/2019	3:09:42 PM	169.4	-
6/7/2019	3:09:43 PM	169.3	-
6/7/2019	3:09:44 PM	169.2	-
6/7/2019	3:09:45 PM	169.2	-
6/7/2019	3:09:46 PM	169.1	-
6/7/2019	3:09:47 PM	169.1	-
6/7/2019	3:09:48 PM	169.0	-
6/7/2019	3:09:49 PM	169.0	-
6/7/2019	3:09:50 PM	168.9	-
6/7/2019	3:09:51 PM	168.9	-
6/7/2019	3:09:52 PM	168.8	-
6/7/2019	3:09:53 PM	168.8	-
6/7/2019	3:09:54 PM	168.8	-
6/7/2019	3:09:55 PM	168.7	-
6/7/2019	3:09:56 PM	168.7	-
6/7/2019	3:09:57 PM	168.6	-
6/7/2019	3:09:58 PM	168.6	-
6/7/2019	3:09:59 PM	168.6	-
6/7/2019	3:10:00 PM	168.6	-
6/7/2019	3:10:01 PM	168.6	-
6/7/2019	3:10:02 PM	168.6	-
6/7/2019	3:10:03 PM	168.5	-
6/7/2019	3:10:04 PM	168.5	-
6/7/2019	3:10:05 PM	168.5	-
6/7/2019	3:10:06 PM	168.5	-
6/7/2019	3:10:07 PM	168.5	-
6/7/2019	3:10:08 PM	168.5	-
6/7/2019	3:10:09 PM	168.5	-
6/7/2019	3:10:10 PM	168.4	-
6/7/2019	3:10:11 PM	168.4	-
6/7/2019	3:10:12 PM	168.4	-
6/7/2019	3:10:13 PM	168.4	-
6/7/2019	3:10:14 PM	168.4	-
6/7/2019	3:10:15 PM	168.3	-
6/7/2019	3:10:16 PM	168.3	-
6/7/2019	3:10:17 PM	168.3	-
6/7/2019	3:10:18 PM	168.3	-
6/7/2019	3:10:19 PM	168.3	-
6/7/2019	3:10:20 PM	168.2	-
6/7/2019	3:10:21 PM	168.2	-
6/7/2019	3:10:22 PM	168.2	-
6/7/2019	3:10:23 PM	168.2	-
6/7/2019	3:10:24 PM	168.1	-
6/7/2019	3:10:25 PM	168.1	-
6/7/2019	3:10:26 PM	168.1	-
6/7/2019	3:10:27 PM	168.1	-
6/7/2019	3:10:28 PM	168.1	-
6/7/2019	3:10:29 PM	168.1	-
6/7/2019	3:10:30 PM	168.1	-
6/7/2019	3:10:31 PM	168.1	-
6/7/2019	3:10:32 PM	168.1	-
6/7/2019	3:10:33 PM	168.0	-
6/7/2019	3:10:34 PM	168.0	-
6/7/2019	3:10:35 PM	168.0	-
6/7/2019	3:10:36 PM	168.0	-
6/7/2019	3:10:37 PM	168.0	-
6/7/2019	3:10:38 PM	168.1	-
6/7/2019	3:10:39 PM	168.3	-
6/7/2019	3:10:40 PM	168.7	-
6/7/2019	3:10:41 PM	169.4	-
6/7/2019	3:10:42 PM	170.6	-
6/7/2019	3:10:43 PM	172.8	-
6/7/2019	3:10:44 PM	224.5	55.7
6/7/2019	3:10:45 PM	249.2	80.4
6/7/2019	3:10:46 PM	288.3	119.5
6/7/2019	3:10:47 PM	323.3	154.5
6/7/2019	3:10:48 PM	347.1	178.3
6/7/2019	3:10:49 PM	457.1	288.3
6/7/2019	3:10:50 PM	524.1	355.3
6/7/2019	3:10:51 PM	655.7	486.9

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:10:52 PM	749.9	581.1
6/7/2019	3:10:53 PM	971.0	802.2
6/7/2019	3:10:54 PM	1094.7	925.9
6/7/2019	3:10:55 PM	1279.3	1110.5
6/7/2019	3:10:56 PM	1485.3	1316.5
6/7/2019	3:10:57 PM	1681.4	1512.6
6/7/2019	3:10:58 PM	1866.0	1697.2
6/7/2019	3:10:59 PM	2144.3	1975.5
6/7/2019	3:11:00 PM	2448.2	2279.4
6/7/2019	3:11:01 PM	2762.5	2593.7
6/7/2019	3:11:02 PM	3068.2	2899.4
6/7/2019	3:11:03 PM	3451.9	3283.1
6/7/2019	3:11:04 PM	3799.2	3630.4
6/7/2019	3:11:05 PM	4110.7	3941.9
6/7/2019	3:11:06 PM	4313.8	4145.0
6/7/2019	3:11:07 PM	4823.8	4655.0
6/7/2019	3:11:08 PM	5256.4	5087.6
6/7/2019	3:11:09 PM	5726.8	5558.0
6/7/2019	3:11:10 PM	6014.7	5845.9
6/7/2019	3:11:11 PM	6167.4	5998.6
6/7/2019	3:11:12 PM	6960.4	6791.6
6/7/2019	3:11:13 PM	7561.9	7393.1
6/7/2019	3:11:14 PM	8032.9	7864.1
6/7/2019	3:11:15 PM	8335.6	8166.8
6/7/2019	3:11:16 PM	8579.8	8411.0
6/7/2019	3:11:17 PM	9317.5	9148.7
6/7/2019	3:11:18 PM	9819.7	9650.9
6/7/2019	3:11:19 PM	10219.7	10050.9
6/7/2019	3:11:20 PM	10441.5	10272.7
6/7/2019	3:11:21 PM	10694.7	10525.9
6/7/2019	3:11:22 PM	10951.9	10783.1
6/7/2019	3:11:23 PM	11776.6	11607.8
6/7/2019	3:11:24 PM	12087.9	11919.1
6/7/2019	3:11:25 PM	12474.2	12305.4
6/7/2019	3:11:26 PM	12582.5	12413.7
6/7/2019	3:11:27 PM	12724.8	12556.0
6/7/2019	3:11:28 PM	12835.3	12666.5
6/7/2019	3:11:29 PM	12970.7	12801.9
6/7/2019	3:11:30 PM	13078.9	12910.1
6/7/2019	3:11:31 PM	13193.2	13024.4
6/7/2019	3:11:32 PM	13286.7	13117.9
6/7/2019	3:11:33 PM	13382.4	13213.6
6/7/2019	3:11:34 PM	14130.2	13961.4
6/7/2019	3:11:35 PM	14209.3	14040.5
6/7/2019	3:11:36 PM	14244.7	14075.9
6/7/2019	3:11:37 PM	14264.4	14095.6
6/7/2019	3:11:38 PM	14270.7	14101.9
6/7/2019	3:11:39 PM	14281.8	14113.0
6/7/2019	3:11:40 PM	14283.8	14115.0
6/7/2019	3:11:41 PM	14277.9	14109.1
6/7/2019	3:11:42 PM	14264.9	14096.1
6/7/2019	3:11:43 PM	14245.8	14077.0
6/7/2019	3:11:44 PM	14218.8	14050.0
6/7/2019	3:11:45 PM	14192.3	14023.5
6/7/2019	3:11:46 PM	14156.8	13988.0
6/7/2019	3:11:47 PM	14122.5	13953.7
6/7/2019	3:11:48 PM	14080.1	13911.3
6/7/2019	3:11:49 PM	14040.3	13871.5
6/7/2019	3:11:50 PM	13991.0	13822.2
6/7/2019	3:11:51 PM	13217.4	13048.6
6/7/2019	3:11:52 PM	13088.2	12919.4
6/7/2019	3:11:53 PM	12930.6	12761.8
6/7/2019	3:11:54 PM	12797.1	12628.3
6/7/2019	3:11:55 PM	12749.4	12580.6
6/7/2019	3:11:56 PM	12663.8	12495.0
6/7/2019	3:11:57 PM	12598.5	12429.7
6/7/2019	3:11:58 PM	12520.1	12351.3
6/7/2019	3:11:59 PM	12442.8	12274.0
6/7/2019	3:12:00 PM	12355.4	12186.6
6/7/2019	3:12:01 PM	11644.9	11476.1
6/7/2019	3:12:02 PM	11458.7	11289.9
6/7/2019	3:12:03 PM	11257.6	11088.8
6/7/2019	3:12:04 PM	11143.8	10975.0
6/7/2019	3:12:05 PM	11059.8	10891.0
6/7/2019	3:12:06 PM	10971.2	10802.4
6/7/2019	3:12:07 PM	10891.4	10722.6
6/7/2019	3:12:08 PM	10817.1	10648.3
6/7/2019	3:12:09 PM	10722.4	10553.6
6/7/2019	3:12:10 PM	10644.5	10475.7
6/7/2019	3:12:11 PM	10005.6	9836.8
6/7/2019	3:12:12 PM	9881.4	9712.6
6/7/2019	3:12:13 PM	9680.0	9511.2
6/7/2019	3:12:14 PM	9551.3	9382.5
6/7/2019	3:12:15 PM	9484.5	9315.7
6/7/2019	3:12:16 PM	9405.0	9236.2
6/7/2019	3:12:17 PM	9322.9	9154.1
6/7/2019	3:12:18 PM	9258.9	9090.1
6/7/2019	3:12:19 PM	9187.4	9018.6
6/7/2019	3:12:20 PM	9121.6	8952.8
6/7/2019	3:12:21 PM	9046.3	8877.5
6/7/2019	3:12:22 PM	8424.2	8255.4
6/7/2019	3:12:23 PM	8281.4	8112.6

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:12:24 PM	8146.9	7978.1
6/7/2019	3:12:25 PM	8100.0	7931.2
6/7/2019	3:12:26 PM	8022.8	7854.0
6/7/2019	3:12:27 PM	7966.0	7797.2
6/7/2019	3:12:28 PM	7900.1	7731.3
6/7/2019	3:12:29 PM	7840.4	7671.6
6/7/2019	3:12:30 PM	7782.7	7613.9
6/7/2019	3:12:31 PM	7733.8	7565.0
6/7/2019	3:12:32 PM	7216.0	7047.2
6/7/2019	3:12:33 PM	7107.0	6938.2
6/7/2019	3:12:34 PM	6986.2	6817.4
6/7/2019	3:12:35 PM	6930.1	6761.3
6/7/2019	3:12:36 PM	6860.8	6692.0
6/7/2019	3:12:37 PM	6804.4	6635.6
6/7/2019	3:12:38 PM	6752.7	6583.9
6/7/2019	3:12:39 PM	6708.3	6539.5
6/7/2019	3:12:40 PM	6657.1	6488.3
6/7/2019	3:12:41 PM	6612.6	6443.8
6/7/2019	3:12:42 PM	6163.6	5994.8
6/7/2019	3:12:43 PM	6000.6	5831.8
6/7/2019	3:12:44 PM	6021.4	5852.6
6/7/2019	3:12:45 PM	5951.7	5782.9
6/7/2019	3:12:46 PM	5926.0	5757.2
6/7/2019	3:12:47 PM	5864.5	5695.7
6/7/2019	3:12:48 PM	5810.4	5641.6
6/7/2019	3:12:49 PM	5759.8	5591.0
6/7/2019	3:12:50 PM	5722.3	5553.5
6/7/2019	3:12:51 PM	5679.8	5511.0
6/7/2019	3:12:52 PM	5641.0	5472.2
6/7/2019	3:12:53 PM	5268.9	5100.1
6/7/2019	3:12:54 PM	5188.8	5020.0
6/7/2019	3:12:55 PM	5096.5	4927.7
6/7/2019	3:12:56 PM	5076.8	4908.0
6/7/2019	3:12:57 PM	5042.9	4874.1
6/7/2019	3:12:58 PM	5011.9	4843.1
6/7/2019	3:12:59 PM	4967.9	4799.1
6/7/2019	3:13:00 PM	4932.9	4764.1
6/7/2019	3:13:01 PM	4893.0	4724.2
6/7/2019	3:13:02 PM	4858.7	4689.9
6/7/2019	3:13:03 PM	4551.9	4383.1
6/7/2019	3:13:04 PM	4489.4	4320.6
6/7/2019	3:13:05 PM	4437.4	4268.6
6/7/2019	3:13:06 PM	4417.8	4249.0
6/7/2019	3:13:07 PM	4378.6	4209.8
6/7/2019	3:13:08 PM	4339.1	4170.3
6/7/2019	3:13:09 PM	4307.1	4138.3
6/7/2019	3:13:10 PM	4271.4	4102.6
6/7/2019	3:13:11 PM	4243.4	4074.6
6/7/2019	3:13:12 PM	4213.8	4045.0
6/7/2019	3:13:13 PM	3962.5	3793.7
6/7/2019	3:13:14 PM	3902.3	3733.5
6/7/2019	3:13:15 PM	3856.4	3687.6
6/7/2019	3:13:16 PM	3818.1	3649.3
6/7/2019	3:13:17 PM	3777.0	3608.2
6/7/2019	3:13:18 PM	3740.1	3571.3
6/7/2019	3:13:19 PM	3716.6	3547.8
6/7/2019	3:13:20 PM	3688.9	3520.1
6/7/2019	3:13:21 PM	3665.3	3496.5
6/7/2019	3:13:22 PM	3638.7	3469.9
6/7/2019	3:13:23 PM	3616.6	3447.8
6/7/2019	3:13:24 PM	3409.0	3240.2
6/7/2019	3:13:25 PM	3368.1	3199.3
6/7/2019	3:13:26 PM	3320.6	3151.8
6/7/2019	3:13:27 PM	3281.6	3112.8
6/7/2019	3:13:28 PM	3260.1	3091.3
6/7/2019	3:13:29 PM	3230.3	3061.5
6/7/2019	3:13:30 PM	3208.2	3039.4
6/7/2019	3:13:31 PM	3183.8	3015.0
6/7/2019	3:13:32 PM	3164.8	2996.0
6/7/2019	3:13:33 PM	3144.0	2975.2
6/7/2019	3:13:34 PM	3125.0	2956.2
6/7/2019	3:13:35 PM	2948.9	2780.1
6/7/2019	3:13:36 PM	2907.7	2738.9
6/7/2019	3:13:37 PM	2865.8	2697.0
6/7/2019	3:13:38 PM	2839.8	2671.0
6/7/2019	3:13:39 PM	2819.5	2650.7
6/7/2019	3:13:40 PM	2797.5	2628.7
6/7/2019	3:13:41 PM	2778.7	2609.9
6/7/2019	3:13:42 PM	2762.6	2593.8
6/7/2019	3:13:43 PM	2745.1	2576.3
6/7/2019	3:13:44 PM	2729.9	2561.1
6/7/2019	3:13:45 PM	2712.6	2543.8
6/7/2019	3:13:46 PM	2556.8	2388.0
6/7/2019	3:13:47 PM	2522.7	2353.9
6/7/2019	3:13:48 PM	2493.4	2324.6
6/7/2019	3:13:49 PM	2469.5	2300.7
6/7/2019	3:13:50 PM	2455.6	2286.8
6/7/2019	3:13:51 PM	2438.3	2269.5
6/7/2019	3:13:52 PM	2423.7	2254.9
6/7/2019	3:13:53 PM	2411.0	2242.2
6/7/2019	3:13:54 PM	2397.2	2228.4
6/7/2019	3:13:55 PM	2384.7	2215.9

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:13:56 PM	2370.7	2201.9
6/7/2019	3:13:57 PM	2358.2	2189.4
6/7/2019	3:13:58 PM	2344.5	2175.7
6/7/2019	3:13:59 PM	2207.7	2038.9
6/7/2019	3:14:00 PM	2178.7	2009.9
6/7/2019	3:14:01 PM	2160.3	1991.5
6/7/2019	3:14:02 PM	2151.6	1982.8
6/7/2019	3:14:03 PM	2132.7	1963.9
6/7/2019	3:14:04 PM	2116.8	1948.0
6/7/2019	3:14:05 PM	2107.3	1938.5
6/7/2019	3:14:06 PM	2094.9	1926.1
6/7/2019	3:14:07 PM	2084.8	1916.0
6/7/2019	3:14:08 PM	2074.2	1905.4
6/7/2019	3:14:09 PM	2063.8	1895.0
6/7/2019	3:14:10 PM	2054.0	1885.2
6/7/2019	3:14:11 PM	2043.0	1874.2
6/7/2019	3:14:12 PM	1930.8	1762.0
6/7/2019	3:14:13 PM	1909.4	1740.6
6/7/2019	3:14:14 PM	1893.7	1724.9
6/7/2019	3:14:15 PM	1874.3	1705.5
6/7/2019	3:14:16 PM	1866.9	1698.1
6/7/2019	3:14:17 PM	1856.6	1687.8
6/7/2019	3:14:18 PM	1848.9	1680.1
6/7/2019	3:14:19 PM	1840.8	1672.0
6/7/2019	3:14:20 PM	1834.2	1665.4
6/7/2019	3:14:21 PM	1825.4	1656.6
6/7/2019	3:14:22 PM	1817.7	1648.9
6/7/2019	3:14:23 PM	1809.3	1640.5
6/7/2019	3:14:24 PM	1802.6	1633.8
6/7/2019	3:14:25 PM	1794.3	1625.5
6/7/2019	3:14:26 PM	1787.0	1618.2
6/7/2019	3:14:27 PM	1687.0	1518.2
6/7/2019	3:14:28 PM	1676.7	1507.9
6/7/2019	3:14:29 PM	1659.1	1490.3
6/7/2019	3:14:30 PM	1647.3	1478.5
6/7/2019	3:14:31 PM	1639.2	1470.4
6/7/2019	3:14:32 PM	1629.2	1460.4
6/7/2019	3:14:33 PM	1621.8	1453.0
6/7/2019	3:14:34 PM	1613.7	1444.9
6/7/2019	3:14:35 PM	1606.9	1438.1
6/7/2019	3:14:36 PM	1598.9	1430.1
6/7/2019	3:14:37 PM	1593.0	1424.2
6/7/2019	3:14:38 PM	1586.1	1417.3
6/7/2019	3:14:39 PM	1580.4	1411.6
6/7/2019	3:14:40 PM	1573.4	1404.6
6/7/2019	3:14:41 PM	1567.4	1398.6
6/7/2019	3:14:42 PM	1560.7	1391.9
6/7/2019	3:14:43 PM	1468.7	1299.9
6/7/2019	3:14:44 PM	1461.8	1293.0
6/7/2019	3:14:45 PM	1451.8	1283.0
6/7/2019	3:14:46 PM	1447.8	1279.0
6/7/2019	3:14:47 PM	1439.5	1270.7
6/7/2019	3:14:48 PM	1431.5	1262.7
6/7/2019	3:14:49 PM	1425.5	1256.7
6/7/2019	3:14:50 PM	1419.1	1250.3
6/7/2019	3:14:51 PM	1413.2	1244.4
6/7/2019	3:14:52 PM	1407.9	1239.1
6/7/2019	3:14:53 PM	1401.8	1233.0
6/7/2019	3:14:54 PM	1396.6	1227.8
6/7/2019	3:14:55 PM	1390.8	1222.0
6/7/2019	3:14:56 PM	1385.8	1217.0
6/7/2019	3:14:57 PM	1380.2	1211.4
6/7/2019	3:14:58 PM	1375.3	1206.5
6/7/2019	3:14:59 PM	1300.3	1131.5
6/7/2019	3:15:00 PM	1290.8	1122.0
6/7/2019	3:15:01 PM	1280.0	1111.2
6/7/2019	3:15:02 PM	1274.8	1106.0
6/7/2019	3:15:03 PM	1268.0	1099.2
6/7/2019	3:15:04 PM	1262.6	1093.8
6/7/2019	3:15:05 PM	1256.8	1088.0
6/7/2019	3:15:06 PM	1252.7	1083.9
6/7/2019	3:15:07 PM	1248.3	1079.5
6/7/2019	3:15:08 PM	1244.5	1075.7
6/7/2019	3:15:09 PM	1239.8	1071.0
6/7/2019	3:15:10 PM	1235.0	1066.2
6/7/2019	3:15:11 PM	1230.9	1062.1
6/7/2019	3:15:12 PM	1226.4	1057.6
6/7/2019	3:15:13 PM	1222.7	1053.9
6/7/2019	3:15:14 PM	1218.4	1049.6
6/7/2019	3:15:15 PM	1214.0	1045.2
6/7/2019	3:15:16 PM	1205.2	1036.4
6/7/2019	3:15:17 PM	1197.5	1028.7
6/7/2019	3:15:18 PM	1188.7	1019.9
6/7/2019	3:15:19 PM	1180.9	1012.1
6/7/2019	3:15:20 PM	1172.2	1003.4
6/7/2019	3:15:21 PM	1164.7	995.9
6/7/2019	3:15:22 PM	1156.2	987.4
6/7/2019	3:15:23 PM	1148.9	980.1
6/7/2019	3:15:24 PM	1140.5	971.7
6/7/2019	3:15:25 PM	1133.0	964.2
6/7/2019	3:15:26 PM	1124.3	955.5
6/7/2019	3:15:27 PM	1116.7	947.9

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:15:28 PM	1108.3	939.5
6/7/2019	3:15:29 PM	1100.9	932.1
6/7/2019	3:15:30 PM	1092.8	924.0
6/7/2019	3:15:31 PM	1085.0	916.2
6/7/2019	3:15:32 PM	1078.2	909.4
6/7/2019	3:15:33 PM	1070.4	901.6
6/7/2019	3:15:34 PM	1063.7	894.9
6/7/2019	3:15:35 PM	1056.1	887.3
6/7/2019	3:15:36 PM	1049.6	880.8
6/7/2019	3:15:37 PM	1042.5	873.7
6/7/2019	3:15:38 PM	1036.3	867.5
6/7/2019	3:15:39 PM	1029.4	860.6
6/7/2019	3:15:40 PM	1023.5	854.7
6/7/2019	3:15:41 PM	1016.6	847.8
6/7/2019	3:15:42 PM	1010.5	841.7
6/7/2019	3:15:43 PM	1003.8	835.0
6/7/2019	3:15:44 PM	997.9	829.1
6/7/2019	3:15:45 PM	991.0	822.2
6/7/2019	3:15:46 PM	985.1	816.3
6/7/2019	3:15:47 PM	978.5	809.7
6/7/2019	3:15:48 PM	972.9	804.1
6/7/2019	3:15:49 PM	966.5	797.7
6/7/2019	3:15:50 PM	960.7	791.9
6/7/2019	3:15:51 PM	954.3	785.5
6/7/2019	3:15:52 PM	948.0	779.2
6/7/2019	3:15:53 PM	942.6	773.8
6/7/2019	3:15:54 PM	936.5	767.7
6/7/2019	3:15:55 PM	931.2	762.4
6/7/2019	3:15:56 PM	925.1	756.3
6/7/2019	3:15:57 PM	920.0	751.2
6/7/2019	3:15:58 PM	914.3	745.5
6/7/2019	3:15:59 PM	909.2	740.4
6/7/2019	3:16:00 PM	903.5	734.7
6/7/2019	3:16:01 PM	898.5	729.7
6/7/2019	3:16:02 PM	893.0	724.2
6/7/2019	3:16:03 PM	888.2	719.4
6/7/2019	3:16:04 PM	882.8	714.0
6/7/2019	3:16:05 PM	878.1	709.3
6/7/2019	3:16:06 PM	872.7	703.9
6/7/2019	3:16:07 PM	868.0	699.2
6/7/2019	3:16:08 PM	862.8	694.0
6/7/2019	3:16:09 PM	858.3	689.5
6/7/2019	3:16:10 PM	853.3	684.5
6/7/2019	3:16:11 PM	848.9	680.1
6/7/2019	3:16:12 PM	844.0	675.2
6/7/2019	3:16:13 PM	839.1	670.3
6/7/2019	3:16:14 PM	834.8	666.0
6/7/2019	3:16:15 PM	830.0	661.2
6/7/2019	3:16:16 PM	825.8	657.0
6/7/2019	3:16:17 PM	821.2	652.4
6/7/2019	3:16:18 PM	817.1	648.3
6/7/2019	3:16:19 PM	812.7	643.9
6/7/2019	3:16:20 PM	808.8	640.0
6/7/2019	3:16:21 PM	804.4	635.6
6/7/2019	3:16:22 PM	800.5	631.7
6/7/2019	3:16:23 PM	796.1	627.3
6/7/2019	3:16:24 PM	792.2	623.4
6/7/2019	3:16:25 PM	787.9	619.1
6/7/2019	3:16:26 PM	784.1	615.3
6/7/2019	3:16:27 PM	779.9	611.1
6/7/2019	3:16:28 PM	776.2	607.4
6/7/2019	3:16:29 PM	772.0	603.2
6/7/2019	3:16:30 PM	768.4	599.6
6/7/2019	3:16:31 PM	764.2	595.4
6/7/2019	3:16:32 PM	760.5	591.7
6/7/2019	3:16:33 PM	756.4	587.6
6/7/2019	3:16:34 PM	752.5	583.7
6/7/2019	3:16:35 PM	749.0	580.2
6/7/2019	3:16:36 PM	745.0	576.2
6/7/2019	3:16:37 PM	741.6	572.8
6/7/2019	3:16:38 PM	737.7	568.9
6/7/2019	3:16:39 PM	734.3	565.5
6/7/2019	3:16:40 PM	730.5	561.7
6/7/2019	3:16:41 PM	727.2	558.4
6/7/2019	3:16:42 PM	723.4	554.6
6/7/2019	3:16:43 PM	720.2	551.4
6/7/2019	3:16:44 PM	716.6	547.8
6/7/2019	3:16:45 PM	713.5	544.7
6/7/2019	3:16:46 PM	709.9	541.1
6/7/2019	3:16:47 PM	706.7	537.9
6/7/2019	3:16:48 PM	703.2	534.4
6/7/2019	3:16:49 PM	700.3	531.5
6/7/2019	3:16:50 PM	696.9	528.1
6/7/2019	3:16:51 PM	694.1	525.3
6/7/2019	3:16:52 PM	690.9	522.1
6/7/2019	3:16:53 PM	688.1	519.3
6/7/2019	3:16:54 PM	685.8	517.0
6/7/2019	3:16:55 PM	682.1	513.3
6/7/2019	3:16:56 PM	679.4	510.6
6/7/2019	3:16:57 PM	676.5	507.7
6/7/2019	3:16:58 PM	674.0	505.2
6/7/2019	3:16:59 PM	671.2	502.4

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:17:00 PM	668.9	500.1
6/7/2019	3:17:01 PM	666.2	497.4
6/7/2019	3:17:02 PM	663.8	495.0
6/7/2019	3:17:03 PM	661.1	492.3
6/7/2019	3:17:04 PM	658.7	489.9
6/7/2019	3:17:05 PM	656.0	487.2
6/7/2019	3:17:06 PM	653.6	484.8
6/7/2019	3:17:07 PM	650.8	482.0
6/7/2019	3:17:08 PM	648.5	479.7
6/7/2019	3:17:09 PM	645.8	477.0
6/7/2019	3:17:10 PM	643.5	474.7
6/7/2019	3:17:11 PM	640.7	471.9
6/7/2019	3:17:12 PM	638.3	469.5
6/7/2019	3:17:13 PM	635.6	466.8
6/7/2019	3:17:14 PM	633.3	464.5
6/7/2019	3:17:15 PM	631.3	462.5
6/7/2019	3:17:16 PM	564.3	395.5
6/7/2019	3:17:17 PM	603.8	435.0
6/7/2019	3:17:18 PM	606.4	437.6
6/7/2019	3:17:19 PM	605.8	437.0
6/7/2019	3:17:20 PM	604.8	436.0
6/7/2019	3:17:21 PM	604.1	435.3
6/7/2019	3:17:22 PM	603.2	434.4
6/7/2019	3:17:23 PM	602.6	433.8
6/7/2019	3:17:24 PM	601.8	433.0
6/7/2019	3:17:25 PM	601.2	432.4
6/7/2019	3:17:26 PM	600.5	431.7
6/7/2019	3:17:27 PM	600.0	431.2
6/7/2019	3:17:28 PM	599.5	430.7
6/7/2019	3:17:29 PM	599.1	430.3
6/7/2019	3:17:30 PM	598.7	429.9
6/7/2019	3:17:31 PM	598.4	429.6
6/7/2019	3:17:32 PM	597.8	429.0
6/7/2019	3:17:33 PM	597.3	428.5
6/7/2019	3:17:34 PM	596.9	428.1
6/7/2019	3:17:35 PM	596.7	427.9
6/7/2019	3:17:36 PM	596.6	427.8
6/7/2019	3:17:37 PM	596.7	427.9
6/7/2019	3:17:38 PM	597.0	428.2
6/7/2019	3:17:39 PM	597.4	428.6
6/7/2019	3:17:40 PM	598.2	429.4
6/7/2019	3:17:41 PM	598.8	430.0
6/7/2019	3:17:42 PM	600.0	431.2
6/7/2019	3:17:43 PM	601.2	432.4
6/7/2019	3:17:44 PM	602.4	433.6
6/7/2019	3:17:45 PM	603.9	435.1
6/7/2019	3:17:46 PM	604.9	436.1
6/7/2019	3:17:47 PM	607.0	438.2
6/7/2019	3:17:48 PM	608.6	439.8
6/7/2019	3:17:49 PM	610.4	441.6
6/7/2019	3:17:50 PM	612.0	443.2
6/7/2019	3:17:51 PM	613.9	445.1
6/7/2019	3:17:52 PM	615.4	446.6
6/7/2019	3:17:53 PM	617.6	448.8
6/7/2019	3:17:54 PM	619.1	450.3
6/7/2019	3:17:55 PM	620.7	451.9
6/7/2019	3:17:56 PM	622.5	453.7
6/7/2019	3:17:57 PM	624.1	455.3
6/7/2019	3:17:58 PM	625.7	456.9
6/7/2019	3:17:59 PM	627.1	458.3
6/7/2019	3:18:00 PM	628.6	459.8
6/7/2019	3:18:01 PM	629.8	461.0
6/7/2019	3:18:02 PM	631.0	462.2
6/7/2019	3:18:03 PM	632.3	463.5
6/7/2019	3:18:04 PM	633.0	464.2
6/7/2019	3:18:05 PM	633.9	465.1
6/7/2019	3:18:06 PM	634.4	465.6
6/7/2019	3:18:07 PM	634.8	466.0
6/7/2019	3:18:08 PM	635.3	466.5
6/7/2019	3:18:09 PM	635.4	466.6
6/7/2019	3:18:10 PM	635.5	466.7
6/7/2019	3:18:11 PM	635.5	466.7
6/7/2019	3:18:12 PM	635.3	466.5
6/7/2019	3:18:13 PM	635.0	466.2
6/7/2019	3:18:14 PM	634.6	465.8
6/7/2019	3:18:15 PM	633.8	465.0
6/7/2019	3:18:16 PM	633.3	464.5
6/7/2019	3:18:17 PM	632.4	463.6
6/7/2019	3:18:18 PM	631.5	462.7
6/7/2019	3:18:19 PM	630.4	461.6
6/7/2019	3:18:20 PM	629.3	460.5
6/7/2019	3:18:21 PM	628.0	459.2
6/7/2019	3:18:22 PM	626.7	457.9
6/7/2019	3:18:23 PM	625.3	456.5
6/7/2019	3:18:24 PM	623.9	455.1
6/7/2019	3:18:25 PM	622.2	453.4
6/7/2019	3:18:26 PM	620.7	451.9
6/7/2019	3:18:27 PM	618.9	450.1
6/7/2019	3:18:28 PM	617.3	448.5
6/7/2019	3:18:29 PM	615.5	446.7
6/7/2019	3:18:30 PM	613.8	445.0
6/7/2019	3:18:31 PM	612.0	443.2

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:18:32 PM	610.0	441.2
6/7/2019	3:18:33 PM	608.3	439.5
6/7/2019	3:18:34 PM	606.3	437.5
6/7/2019	3:18:35 PM	604.5	435.7
6/7/2019	3:18:36 PM	602.4	433.6
6/7/2019	3:18:37 PM	600.6	431.8
6/7/2019	3:18:38 PM	598.6	429.8
6/7/2019	3:18:39 PM	596.8	428.0
6/7/2019	3:18:40 PM	594.7	425.9
6/7/2019	3:18:41 PM	592.8	424.0
6/7/2019	3:18:42 PM	590.7	421.9
6/7/2019	3:18:43 PM	588.8	420.0
6/7/2019	3:18:44 PM	586.7	417.9
6/7/2019	3:18:45 PM	584.8	416.0
6/7/2019	3:18:46 PM	582.7	413.9
6/7/2019	3:18:47 PM	580.9	412.1
6/7/2019	3:18:48 PM	578.8	410.0
6/7/2019	3:18:49 PM	576.9	408.1
6/7/2019	3:18:50 PM	574.8	406.0
6/7/2019	3:18:51 PM	573.0	404.2
6/7/2019	3:18:52 PM	570.9	402.1
6/7/2019	3:18:53 PM	568.8	400.0
6/7/2019	3:18:54 PM	567.0	398.2
6/7/2019	3:18:55 PM	564.9	396.1
6/7/2019	3:18:56 PM	563.1	394.3
6/7/2019	3:18:57 PM	561.0	392.2
6/7/2019	3:18:58 PM	559.2	390.4
6/7/2019	3:18:59 PM	557.1	388.3
6/7/2019	3:19:00 PM	555.3	386.5
6/7/2019	3:19:01 PM	553.2	384.4
6/7/2019	3:19:02 PM	551.4	382.6
6/7/2019	3:19:03 PM	549.3	380.5
6/7/2019	3:19:04 PM	547.5	378.7
6/7/2019	3:19:05 PM	545.4	376.6
6/7/2019	3:19:06 PM	543.6	374.8
6/7/2019	3:19:07 PM	541.5	372.7
6/7/2019	3:19:08 PM	539.7	370.9
6/7/2019	3:19:09 PM	537.6	368.8
6/7/2019	3:19:10 PM	535.9	367.1
6/7/2019	3:19:11 PM	533.8	365.0
6/7/2019	3:19:12 PM	531.8	363.0
6/7/2019	3:19:13 PM	530.1	361.3
6/7/2019	3:19:14 PM	528.0	359.2
6/7/2019	3:19:15 PM	526.3	357.5
6/7/2019	3:19:16 PM	524.4	355.6
6/7/2019	3:19:17 PM	522.7	353.9
6/7/2019	3:19:18 PM	520.7	351.9
6/7/2019	3:19:19 PM	519.0	350.2
6/7/2019	3:19:20 PM	517.1	348.3
6/7/2019	3:19:21 PM	515.4	346.6
6/7/2019	3:19:22 PM	513.4	344.6
6/7/2019	3:19:23 PM	511.7	342.9
6/7/2019	3:19:24 PM	509.8	341.0
6/7/2019	3:19:25 PM	508.2	339.4
6/7/2019	3:19:26 PM	506.3	337.5
6/7/2019	3:19:27 PM	504.6	335.8
6/7/2019	3:19:28 PM	502.7	333.9
6/7/2019	3:19:29 PM	501.0	332.2
6/7/2019	3:19:30 PM	499.1	330.3
6/7/2019	3:19:31 PM	497.4	328.6
6/7/2019	3:19:32 PM	495.6	326.8
6/7/2019	3:19:33 PM	493.7	324.9
6/7/2019	3:19:34 PM	492.1	323.3
6/7/2019	3:19:35 PM	490.2	321.4
6/7/2019	3:19:36 PM	488.6	319.8
6/7/2019	3:19:37 PM	486.8	318.0
6/7/2019	3:19:38 PM	485.2	316.4
6/7/2019	3:19:39 PM	483.4	314.6
6/7/2019	3:19:40 PM	481.8	313.0
6/7/2019	3:19:41 PM	480.1	311.3
6/7/2019	3:19:42 PM	478.6	309.8
6/7/2019	3:19:43 PM	476.9	308.1
6/7/2019	3:19:44 PM	475.4	306.6
6/7/2019	3:19:45 PM	473.7	304.9
6/7/2019	3:19:46 PM	472.2	303.4
6/7/2019	3:19:47 PM	470.5	301.7
6/7/2019	3:19:48 PM	469.1	300.3
6/7/2019	3:19:49 PM	467.5	298.7
6/7/2019	3:19:50 PM	466.0	297.2
6/7/2019	3:19:51 PM	464.4	295.6
6/7/2019	3:19:52 PM	463.0	294.2
6/7/2019	3:19:53 PM	461.4	292.6
6/7/2019	3:19:54 PM	459.8	291.0
6/7/2019	3:19:55 PM	458.4	289.6
6/7/2019	3:19:56 PM	456.9	288.1
6/7/2019	3:19:57 PM	455.5	286.7
6/7/2019	3:19:58 PM	454.0	285.2
6/7/2019	3:19:59 PM	452.7	283.9
6/7/2019	3:20:00 PM	451.2	282.4
6/7/2019	3:20:01 PM	450.0	281.2
6/7/2019	3:20:02 PM	448.6	279.8
6/7/2019	3:20:03 PM	447.3	278.5

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:20:04 PM	446.0	277.2
6/7/2019	3:20:05 PM	444.8	276.0
6/7/2019	3:20:06 PM	443.4	274.6
6/7/2019	3:20:07 PM	442.2	273.4
6/7/2019	3:20:08 PM	440.8	272.0
6/7/2019	3:20:09 PM	439.7	270.9
6/7/2019	3:20:10 PM	438.3	269.5
6/7/2019	3:20:11 PM	437.2	268.4
6/7/2019	3:20:12 PM	435.8	267.0
6/7/2019	3:20:13 PM	434.5	265.7
6/7/2019	3:20:14 PM	433.4	264.6
6/7/2019	3:20:15 PM	432.1	263.3
6/7/2019	3:20:16 PM	430.9	262.1
6/7/2019	3:20:17 PM	429.7	260.9
6/7/2019	3:20:18 PM	428.6	259.8
6/7/2019	3:20:19 PM	427.3	258.5
6/7/2019	3:20:20 PM	426.3	257.5
6/7/2019	3:20:21 PM	425.0	256.2
6/7/2019	3:20:22 PM	424.0	255.2
6/7/2019	3:20:23 PM	422.9	254.1
6/7/2019	3:20:24 PM	421.9	253.1
6/7/2019	3:20:25 PM	420.7	251.9
6/7/2019	3:20:26 PM	419.7	250.9
6/7/2019	3:20:27 PM	418.6	249.8
6/7/2019	3:20:28 PM	417.6	248.8
6/7/2019	3:20:29 PM	416.5	247.7
6/7/2019	3:20:30 PM	415.5	246.7
6/7/2019	3:20:31 PM	414.4	245.6
6/7/2019	3:20:32 PM	413.5	244.7
6/7/2019	3:20:33 PM	412.4	243.6
6/7/2019	3:20:34 PM	411.2	242.4
6/7/2019	3:20:35 PM	410.3	241.5
6/7/2019	3:20:36 PM	409.2	240.4
6/7/2019	3:20:37 PM	408.2	239.4
6/7/2019	3:20:38 PM	407.1	238.3
6/7/2019	3:20:39 PM	406.2	237.4
6/7/2019	3:20:40 PM	405.1	236.3
6/7/2019	3:20:41 PM	404.2	235.4
6/7/2019	3:20:42 PM	403.1	234.3
6/7/2019	3:20:43 PM	402.2	233.4
6/7/2019	3:20:44 PM	401.2	232.4
6/7/2019	3:20:45 PM	400.3	231.5
6/7/2019	3:20:46 PM	399.2	230.4
6/7/2019	3:20:47 PM	398.3	229.5
6/7/2019	3:20:48 PM	397.3	228.5
6/7/2019	3:20:49 PM	396.4	227.6
6/7/2019	3:20:50 PM	395.4	226.6
6/7/2019	3:20:51 PM	394.5	225.7
6/7/2019	3:20:52 PM	393.5	224.7
6/7/2019	3:20:53 PM	392.6	223.8
6/7/2019	3:20:54 PM	391.6	222.8
6/7/2019	3:20:55 PM	390.6	221.8
6/7/2019	3:20:56 PM	389.8	221.0
6/7/2019	3:20:57 PM	388.8	220.0
6/7/2019	3:20:58 PM	387.9	219.1
6/7/2019	3:20:59 PM	386.9	218.1
6/7/2019	3:21:00 PM	386.1	217.3
6/7/2019	3:21:01 PM	385.1	216.3
6/7/2019	3:21:02 PM	384.2	215.4
6/7/2019	3:21:03 PM	383.3	214.5
6/7/2019	3:21:04 PM	382.4	213.6
6/7/2019	3:21:05 PM	381.5	212.7
6/7/2019	3:21:06 PM	380.6	211.8
6/7/2019	3:21:07 PM	379.7	210.9
6/7/2019	3:21:08 PM	378.8	210.0
6/7/2019	3:21:09 PM	377.8	209.0
6/7/2019	3:21:10 PM	377.0	208.2
6/7/2019	3:21:11 PM	376.0	207.2
6/7/2019	3:21:12 PM	375.2	206.4
6/7/2019	3:21:13 PM	374.2	205.4
6/7/2019	3:21:14 PM	373.3	204.5
6/7/2019	3:21:15 PM	372.5	203.7
6/7/2019	3:21:16 PM	371.6	202.8
6/7/2019	3:21:17 PM	370.8	202.0
6/7/2019	3:21:18 PM	369.9	201.1
6/7/2019	3:21:19 PM	369.1	200.3
6/7/2019	3:21:20 PM	368.2	199.4
6/7/2019	3:21:21 PM	367.5	198.7
6/7/2019	3:21:22 PM	366.6	197.8
6/7/2019	3:21:23 PM	365.9	197.1
6/7/2019	3:21:24 PM	365.0	196.2
6/7/2019	3:21:25 PM	364.3	195.5
6/7/2019	3:21:26 PM	363.5	194.7
6/7/2019	3:21:27 PM	362.7	193.9
6/7/2019	3:21:28 PM	361.9	193.1
6/7/2019	3:21:29 PM	361.2	192.4
6/7/2019	3:21:30 PM	360.4	191.6
6/7/2019	3:21:31 PM	359.7	190.9
6/7/2019	3:21:32 PM	358.9	190.1
6/7/2019	3:21:33 PM	358.1	189.3
6/7/2019	3:21:34 PM	357.3	188.5
6/7/2019	3:21:35 PM	356.5	187.7

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:21:36 PM	355.8	187.0
6/7/2019	3:21:37 PM	355.0	186.2
6/7/2019	3:21:38 PM	354.3	185.5
6/7/2019	3:21:39 PM	353.5	184.7
6/7/2019	3:21:40 PM	352.8	184.0
6/7/2019	3:21:41 PM	352.1	183.3
6/7/2019	3:21:42 PM	351.4	182.6
6/7/2019	3:21:43 PM	350.6	181.8
6/7/2019	3:21:44 PM	349.9	181.1
6/7/2019	3:21:45 PM	349.2	180.4
6/7/2019	3:21:46 PM	348.5	179.7
6/7/2019	3:21:47 PM	347.8	179.0
6/7/2019	3:21:48 PM	347.2	178.4
6/7/2019	3:21:49 PM	346.4	177.6
6/7/2019	3:21:50 PM	345.8	177.0
6/7/2019	3:21:51 PM	345.1	176.3
6/7/2019	3:21:52 PM	344.5	175.7
6/7/2019	3:21:53 PM	343.8	175.0
6/7/2019	3:21:54 PM	343.2	174.4
6/7/2019	3:21:55 PM	342.5	173.7
6/7/2019	3:21:56 PM	341.8	173.0
6/7/2019	3:21:57 PM	341.3	172.5
6/7/2019	3:21:58 PM	340.6	171.8
6/7/2019	3:21:59 PM	340.1	171.3
6/7/2019	3:22:00 PM	339.4	170.6
6/7/2019	3:22:01 PM	338.9	170.1
6/7/2019	3:22:02 PM	338.3	169.5
6/7/2019	3:22:03 PM	337.8	169.0
6/7/2019	3:22:04 PM	337.2	168.4
6/7/2019	3:22:05 PM	336.7	167.9
6/7/2019	3:22:06 PM	336.1	167.3
6/7/2019	3:22:07 PM	335.6	166.8
6/7/2019	3:22:08 PM	335.1	166.3
6/7/2019	3:22:09 PM	334.6	165.8
6/7/2019	3:22:10 PM	334.1	165.3
6/7/2019	3:22:11 PM	333.6	164.8
6/7/2019	3:22:12 PM	333.1	164.3
6/7/2019	3:22:13 PM	332.7	163.9
6/7/2019	3:22:14 PM	332.2	163.4
6/7/2019	3:22:15 PM	331.7	162.9
6/7/2019	3:22:16 PM	331.3	162.5
6/7/2019	3:22:17 PM	330.8	162.0
6/7/2019	3:22:18 PM	330.4	161.6
6/7/2019	3:22:19 PM	329.9	161.1
6/7/2019	3:22:20 PM	329.5	160.7
6/7/2019	3:22:21 PM	329.0	160.2
6/7/2019	3:22:22 PM	328.6	159.8
6/7/2019	3:22:23 PM	328.2	159.4
6/7/2019	3:22:24 PM	327.8	159.0
6/7/2019	3:22:25 PM	327.3	158.5
6/7/2019	3:22:26 PM	326.9	158.1
6/7/2019	3:22:27 PM	326.5	157.7
6/7/2019	3:22:28 PM	326.1	157.3
6/7/2019	3:22:29 PM	325.6	156.8
6/7/2019	3:22:30 PM	325.2	156.4
6/7/2019	3:22:31 PM	324.8	156.0
6/7/2019	3:22:32 PM	324.4	155.6
6/7/2019	3:22:33 PM	324.0	155.2
6/7/2019	3:22:34 PM	323.6	154.8
6/7/2019	3:22:35 PM	323.1	154.3
6/7/2019	3:22:36 PM	322.7	153.9
6/7/2019	3:22:37 PM	322.3	153.5
6/7/2019	3:22:38 PM	321.9	153.1
6/7/2019	3:22:39 PM	321.5	152.7
6/7/2019	3:22:40 PM	321.1	152.3
6/7/2019	3:22:41 PM	320.7	151.9
6/7/2019	3:22:42 PM	320.3	151.5
6/7/2019	3:22:43 PM	319.9	151.1
6/7/2019	3:22:44 PM	319.5	150.7
6/7/2019	3:22:45 PM	319.1	150.3
6/7/2019	3:22:46 PM	318.7	149.9
6/7/2019	3:22:47 PM	318.3	149.5
6/7/2019	3:22:48 PM	317.9	149.1
6/7/2019	3:22:49 PM	317.5	148.7
6/7/2019	3:22:50 PM	317.1	148.3
6/7/2019	3:22:51 PM	316.7	147.9
6/7/2019	3:22:52 PM	316.3	147.5
6/7/2019	3:22:53 PM	316.0	147.2
6/7/2019	3:22:54 PM	315.6	146.8
6/7/2019	3:22:55 PM	315.3	146.5
6/7/2019	3:22:56 PM	314.9	146.1
6/7/2019	3:22:57 PM	314.5	145.7
6/7/2019	3:22:58 PM	314.2	145.4
6/7/2019	3:22:59 PM	313.8	145.0
6/7/2019	3:23:00 PM	313.5	144.7
6/7/2019	3:23:01 PM	313.2	144.4
6/7/2019	3:23:02 PM	312.9	144.1
6/7/2019	3:23:03 PM	312.5	143.7
6/7/2019	3:23:04 PM	312.2	143.4
6/7/2019	3:23:05 PM	311.8	143.0
6/7/2019	3:23:06 PM	311.5	142.7
6/7/2019	3:23:07 PM	311.1	142.3

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:23:08 PM	310.7	141.9
6/7/2019	3:23:09 PM	310.4	141.6
6/7/2019	3:23:10 PM	310.1	141.3
6/7/2019	3:23:11 PM	309.7	140.9
6/7/2019	3:23:12 PM	309.4	140.6
6/7/2019	3:23:13 PM	309.0	140.2
6/7/2019	3:23:14 PM	308.7	139.9
6/7/2019	3:23:15 PM	308.4	139.6
6/7/2019	3:23:16 PM	308.0	139.2
6/7/2019	3:23:17 PM	307.7	138.9
6/7/2019	3:23:18 PM	307.4	138.6
6/7/2019	3:23:19 PM	307.1	138.3
6/7/2019	3:23:20 PM	306.8	138.0
6/7/2019	3:23:21 PM	306.5	137.7
6/7/2019	3:23:22 PM	306.2	137.4
6/7/2019	3:23:23 PM	305.9	137.1
6/7/2019	3:23:24 PM	305.6	136.8
6/7/2019	3:23:25 PM	305.3	136.5
6/7/2019	3:23:26 PM	305.0	136.2
6/7/2019	3:23:27 PM	304.7	135.9
6/7/2019	3:23:28 PM	304.4	135.6
6/7/2019	3:23:29 PM	304.2	135.4
6/7/2019	3:23:30 PM	303.9	135.1
6/7/2019	3:23:31 PM	303.6	134.8
6/7/2019	3:23:32 PM	303.3	134.5
6/7/2019	3:23:33 PM	303.0	134.2
6/7/2019	3:23:34 PM	302.7	133.9
6/7/2019	3:23:35 PM	302.4	133.6
6/7/2019	3:23:36 PM	302.1	133.3
6/7/2019	3:23:37 PM	301.8	133.0
6/7/2019	3:23:38 PM	301.5	132.7
6/7/2019	3:23:39 PM	301.1	132.3
6/7/2019	3:23:40 PM	300.8	132.0
6/7/2019	3:23:41 PM	300.4	131.6
6/7/2019	3:23:42 PM	300.1	131.3
6/7/2019	3:23:43 PM	299.7	130.9
6/7/2019	3:23:44 PM	299.4	130.6
6/7/2019	3:23:45 PM	299.1	130.3
6/7/2019	3:23:46 PM	298.7	129.9
6/7/2019	3:23:47 PM	298.4	129.6
6/7/2019	3:23:48 PM	298.0	129.2
6/7/2019	3:23:49 PM	297.6	128.8
6/7/2019	3:23:50 PM	297.3	128.5
6/7/2019	3:23:51 PM	296.9	128.1
6/7/2019	3:23:52 PM	296.6	127.8
6/7/2019	3:23:53 PM	296.2	127.4
6/7/2019	3:23:54 PM	295.9	127.1
6/7/2019	3:23:55 PM	295.6	126.8
6/7/2019	3:23:56 PM	295.2	126.4
6/7/2019	3:23:57 PM	294.8	126.0
6/7/2019	3:23:58 PM	294.5	125.7
6/7/2019	3:23:59 PM	294.1	125.3
6/7/2019	3:24:00 PM	293.8	125.0
6/7/2019	3:24:01 PM	293.4	124.6
6/7/2019	3:24:02 PM	293.1	124.3
6/7/2019	3:24:03 PM	292.8	124.0
6/7/2019	3:24:04 PM	292.4	123.6
6/7/2019	3:24:05 PM	292.1	123.3
6/7/2019	3:24:06 PM	291.7	122.9
6/7/2019	3:24:07 PM	291.4	122.6
6/7/2019	3:24:08 PM	291.0	122.2
6/7/2019	3:24:09 PM	290.7	121.9
6/7/2019	3:24:10 PM	290.4	121.6
6/7/2019	3:24:11 PM	290.1	121.3
6/7/2019	3:24:12 PM	289.7	120.9
6/7/2019	3:24:13 PM	289.4	120.6
6/7/2019	3:24:14 PM	289.1	120.3
6/7/2019	3:24:15 PM	288.8	120.0
6/7/2019	3:24:16 PM	288.4	119.6
6/7/2019	3:24:17 PM	288.2	119.4
6/7/2019	3:24:18 PM	287.8	119.0
6/7/2019	3:24:19 PM	287.5	118.7
6/7/2019	3:24:20 PM	287.3	118.5
6/7/2019	3:24:21 PM	287.0	118.2
6/7/2019	3:24:22 PM	286.7	117.9
6/7/2019	3:24:23 PM	286.4	117.6
6/7/2019	3:24:24 PM	286.2	117.4
6/7/2019	3:24:25 PM	285.9	117.1
6/7/2019	3:24:26 PM	285.7	116.9
6/7/2019	3:24:27 PM	285.5	116.7
6/7/2019	3:24:28 PM	285.2	116.4
6/7/2019	3:24:29 PM	285.0	116.2
6/7/2019	3:24:30 PM	284.8	116.0
6/7/2019	3:24:31 PM	284.6	115.8
6/7/2019	3:24:32 PM	284.4	115.6
6/7/2019	3:24:33 PM	284.2	115.4
6/7/2019	3:24:34 PM	284.0	115.2
6/7/2019	3:24:35 PM	283.7	114.9
6/7/2019	3:24:36 PM	283.6	114.8
6/7/2019	3:24:37 PM	283.3	114.5
6/7/2019	3:24:38 PM	283.1	114.3
6/7/2019	3:24:39 PM	282.9	114.1

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:24:40 PM	282.7	113.9
6/7/2019	3:24:41 PM	282.5	113.7
6/7/2019	3:24:42 PM	282.2	113.4
6/7/2019	3:24:43 PM	282.0	113.2
6/7/2019	3:24:44 PM	281.8	113.0
6/7/2019	3:24:45 PM	281.6	112.8
6/7/2019	3:24:46 PM	281.3	112.5
6/7/2019	3:24:47 PM	281.1	112.3
6/7/2019	3:24:48 PM	280.9	112.1
6/7/2019	3:24:49 PM	280.6	111.8
6/7/2019	3:24:50 PM	280.4	111.6
6/7/2019	3:24:51 PM	280.1	111.3
6/7/2019	3:24:52 PM	279.9	111.1
6/7/2019	3:24:53 PM	279.6	110.8
6/7/2019	3:24:54 PM	279.4	110.6
6/7/2019	3:24:55 PM	279.2	110.4
6/7/2019	3:24:56 PM	278.9	110.1
6/7/2019	3:24:57 PM	278.7	109.9
6/7/2019	3:24:58 PM	278.4	109.6
6/7/2019	3:24:59 PM	278.1	109.3
6/7/2019	3:25:00 PM	277.9	109.1
6/7/2019	3:25:01 PM	277.6	108.8
6/7/2019	3:25:02 PM	277.4	108.6
6/7/2019	3:25:03 PM	277.1	108.3
6/7/2019	3:25:04 PM	276.9	108.1
6/7/2019	3:25:05 PM	276.6	107.8
6/7/2019	3:25:06 PM	276.4	107.6
6/7/2019	3:25:07 PM	276.1	107.3
6/7/2019	3:25:08 PM	275.8	107.0
6/7/2019	3:25:09 PM	275.6	106.8
6/7/2019	3:25:10 PM	275.3	106.5
6/7/2019	3:25:11 PM	275.0	106.2
6/7/2019	3:25:12 PM	274.8	106.0
6/7/2019	3:25:13 PM	274.5	105.7
6/7/2019	3:25:14 PM	274.2	105.4
6/7/2019	3:25:15 PM	274.0	105.2
6/7/2019	3:25:16 PM	273.7	104.9
6/7/2019	3:25:17 PM	273.4	104.6
6/7/2019	3:25:18 PM	273.2	104.4
6/7/2019	3:25:19 PM	273.0	104.2
6/7/2019	3:25:20 PM	272.7	103.9
6/7/2019	3:25:21 PM	272.5	103.7
6/7/2019	3:25:22 PM	272.3	103.5
6/7/2019	3:25:23 PM	272.1	103.3
6/7/2019	3:25:24 PM	271.9	103.1
6/7/2019	3:25:25 PM	271.7	102.9
6/7/2019	3:25:26 PM	271.5	102.7
6/7/2019	3:25:27 PM	271.3	102.5
6/7/2019	3:25:28 PM	271.2	102.4
6/7/2019	3:25:29 PM	271.0	102.2
6/7/2019	3:25:30 PM	270.9	102.1
6/7/2019	3:25:31 PM	270.7	101.9
6/7/2019	3:25:32 PM	270.6	101.8
6/7/2019	3:25:33 PM	270.4	101.6
6/7/2019	3:25:34 PM	270.3	101.5
6/7/2019	3:25:35 PM	270.2	101.4
6/7/2019	3:25:36 PM	270.1	101.3
6/7/2019	3:25:37 PM	269.9	101.1
6/7/2019	3:25:38 PM	269.8	101.0
6/7/2019	3:25:39 PM	269.7	100.9
6/7/2019	3:25:40 PM	269.5	100.7
6/7/2019	3:25:41 PM	269.4	100.6
6/7/2019	3:25:42 PM	269.3	100.5
6/7/2019	3:25:43 PM	269.1	100.3
6/7/2019	3:25:44 PM	269.0	100.2
6/7/2019	3:25:45 PM	268.8	100.0
6/7/2019	3:25:46 PM	268.7	99.9
6/7/2019	3:25:47 PM	268.5	99.7
6/7/2019	3:25:48 PM	268.4	99.6
6/7/2019	3:25:49 PM	268.2	99.4
6/7/2019	3:25:50 PM	268.1	99.3
6/7/2019	3:25:51 PM	267.9	99.1
6/7/2019	3:25:52 PM	267.7	98.9
6/7/2019	3:25:53 PM	267.5	98.7
6/7/2019	3:25:54 PM	267.4	98.6
6/7/2019	3:25:55 PM	267.2	98.4
6/7/2019	3:25:56 PM	267.0	98.2
6/7/2019	3:25:57 PM	266.8	98.0
6/7/2019	3:25:58 PM	266.6	97.8
6/7/2019	3:25:59 PM	266.4	97.6
6/7/2019	3:26:00 PM	266.1	97.3
6/7/2019	3:26:01 PM	265.9	97.1
6/7/2019	3:26:02 PM	265.7	96.9
6/7/2019	3:26:03 PM	265.5	96.7
6/7/2019	3:26:04 PM	265.2	96.4
6/7/2019	3:26:05 PM	265.0	96.2
6/7/2019	3:26:06 PM	264.8	96.0
6/7/2019	3:26:07 PM	264.5	95.7
6/7/2019	3:26:08 PM	264.2	95.4
6/7/2019	3:26:09 PM	264.0	95.2
6/7/2019	3:26:10 PM	263.7	94.9
6/7/2019	3:26:11 PM	263.5	94.7

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:26:12 PM	263.2	94.4
6/7/2019	3:26:13 PM	263.0	94.2
6/7/2019	3:26:14 PM	262.7	93.9
6/7/2019	3:26:15 PM	262.4	93.6
6/7/2019	3:26:16 PM	262.2	93.4
6/7/2019	3:26:17 PM	261.9	93.1
6/7/2019	3:26:18 PM	261.7	92.9
6/7/2019	3:26:19 PM	261.4	92.6
6/7/2019	3:26:20 PM	261.2	92.4
6/7/2019	3:26:21 PM	260.9	92.1
6/7/2019	3:26:22 PM	260.7	91.9
6/7/2019	3:26:23 PM	260.5	91.7
6/7/2019	3:26:24 PM	260.3	91.5
6/7/2019	3:26:25 PM	260.1	91.3
6/7/2019	3:26:26 PM	259.9	91.1
6/7/2019	3:26:27 PM	259.6	90.8
6/7/2019	3:26:28 PM	259.5	90.7
6/7/2019	3:26:29 PM	259.3	90.5
6/7/2019	3:26:30 PM	259.1	90.3
6/7/2019	3:26:31 PM	258.9	90.1
6/7/2019	3:26:32 PM	258.7	89.9
6/7/2019	3:26:33 PM	258.5	89.7
6/7/2019	3:26:34 PM	258.4	89.6
6/7/2019	3:26:35 PM	258.2	89.4
6/7/2019	3:26:36 PM	258.1	89.3
6/7/2019	3:26:37 PM	257.9	89.1
6/7/2019	3:26:38 PM	257.7	88.9
6/7/2019	3:26:39 PM	257.6	88.8
6/7/2019	3:26:40 PM	257.4	88.6
6/7/2019	3:26:41 PM	257.3	88.5
6/7/2019	3:26:42 PM	257.1	88.3
6/7/2019	3:26:43 PM	257.0	88.2
6/7/2019	3:26:44 PM	256.8	88.0
6/7/2019	3:26:45 PM	256.6	87.8
6/7/2019	3:26:46 PM	256.5	87.7
6/7/2019	3:26:47 PM	256.3	87.5
6/7/2019	3:26:48 PM	256.1	87.3
6/7/2019	3:26:49 PM	256.0	87.2
6/7/2019	3:26:50 PM	255.8	87.0
6/7/2019	3:26:51 PM	255.7	86.9
6/7/2019	3:26:52 PM	255.5	86.7
6/7/2019	3:26:53 PM	255.4	86.6
6/7/2019	3:26:54 PM	255.2	86.4
6/7/2019	3:26:55 PM	255.1	86.3
6/7/2019	3:26:56 PM	254.9	86.1
6/7/2019	3:26:57 PM	254.7	85.9
6/7/2019	3:26:58 PM	254.6	85.8
6/7/2019	3:26:59 PM	254.4	85.6
6/7/2019	3:27:00 PM	254.3	85.5
6/7/2019	3:27:01 PM	254.1	85.3
6/7/2019	3:27:02 PM	254.0	85.2
6/7/2019	3:27:03 PM	253.9	85.1
6/7/2019	3:27:04 PM	253.7	84.9
6/7/2019	3:27:05 PM	253.5	84.7
6/7/2019	3:27:06 PM	253.4	84.6
6/7/2019	3:27:07 PM	253.2	84.4
6/7/2019	3:27:08 PM	253.1	84.3
6/7/2019	3:27:09 PM	252.9	84.1
6/7/2019	3:27:10 PM	252.8	84.0
6/7/2019	3:27:11 PM	252.6	83.8
6/7/2019	3:27:12 PM	252.4	83.6
6/7/2019	3:27:13 PM	252.3	83.5
6/7/2019	3:27:14 PM	252.1	83.3
6/7/2019	3:27:15 PM	251.9	83.1
6/7/2019	3:27:16 PM	251.8	83.0
6/7/2019	3:27:17 PM	251.6	82.8
6/7/2019	3:27:18 PM	251.5	82.7
6/7/2019	3:27:19 PM	251.3	82.5
6/7/2019	3:27:20 PM	251.2	82.4
6/7/2019	3:27:21 PM	251.0	82.2
6/7/2019	3:27:22 PM	250.8	82.0
6/7/2019	3:27:23 PM	250.7	81.9
6/7/2019	3:27:24 PM	250.5	81.7
6/7/2019	3:27:25 PM	250.4	81.6
6/7/2019	3:27:26 PM	250.2	81.4
6/7/2019	3:27:27 PM	250.1	81.3
6/7/2019	3:27:28 PM	249.9	81.1
6/7/2019	3:27:29 PM	249.8	81.0
6/7/2019	3:27:30 PM	249.6	80.8
6/7/2019	3:27:31 PM	249.5	80.7
6/7/2019	3:27:32 PM	249.3	80.5
6/7/2019	3:27:33 PM	249.2	80.4
6/7/2019	3:27:34 PM	249.0	80.2
6/7/2019	3:27:35 PM	248.8	80.0
6/7/2019	3:27:36 PM	248.7	79.9
6/7/2019	3:27:37 PM	248.5	79.7
6/7/2019	3:27:38 PM	248.4	79.6
6/7/2019	3:27:39 PM	248.2	79.4
6/7/2019	3:27:40 PM	248.0	79.2
6/7/2019	3:27:41 PM	247.9	79.1
6/7/2019	3:27:42 PM	247.7	78.9
6/7/2019	3:27:43 PM	247.5	78.7

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:27:44 PM	247.4	78.6
6/7/2019	3:27:45 PM	247.2	78.4
6/7/2019	3:27:46 PM	247.0	78.2
6/7/2019	3:27:47 PM	246.8	78.0
6/7/2019	3:27:48 PM	246.7	77.9
6/7/2019	3:27:49 PM	246.5	77.7
6/7/2019	3:27:50 PM	246.3	77.5
6/7/2019	3:27:51 PM	246.1	77.3
6/7/2019	3:27:52 PM	246.0	77.2
6/7/2019	3:27:53 PM	245.8	77.0
6/7/2019	3:27:54 PM	245.6	76.8
6/7/2019	3:27:55 PM	245.5	76.7
6/7/2019	3:27:56 PM	245.3	76.5
6/7/2019	3:27:57 PM	245.2	76.4
6/7/2019	3:27:58 PM	245.0	76.2
6/7/2019	3:27:59 PM	244.9	76.1
6/7/2019	3:28:00 PM	244.7	75.9
6/7/2019	3:28:01 PM	244.6	75.8
6/7/2019	3:28:02 PM	244.5	75.7
6/7/2019	3:28:03 PM	244.3	75.5
6/7/2019	3:28:04 PM	244.2	75.4
6/7/2019	3:28:05 PM	244.1	75.3
6/7/2019	3:28:06 PM	244.0	75.2
6/7/2019	3:28:07 PM	243.8	75.0
6/7/2019	3:28:08 PM	243.7	74.9
6/7/2019	3:28:09 PM	243.6	74.8
6/7/2019	3:28:10 PM	243.5	74.7
6/7/2019	3:28:11 PM	243.4	74.6
6/7/2019	3:28:12 PM	243.3	74.5
6/7/2019	3:28:13 PM	243.2	74.4
6/7/2019	3:28:14 PM	243.1	74.3
6/7/2019	3:28:15 PM	243.0	74.2
6/7/2019	3:28:16 PM	242.9	74.1
6/7/2019	3:28:17 PM	242.8	74.0
6/7/2019	3:28:18 PM	242.7	73.9
6/7/2019	3:28:19 PM	242.6	73.8
6/7/2019	3:28:20 PM	242.5	73.7
6/7/2019	3:28:21 PM	242.4	73.6
6/7/2019	3:28:22 PM	242.3	73.5
6/7/2019	3:28:23 PM	242.2	73.4
6/7/2019	3:28:24 PM	242.1	73.3
6/7/2019	3:28:25 PM	242.0	73.2
6/7/2019	3:28:26 PM	241.9	73.1
6/7/2019	3:28:27 PM	241.8	73.0
6/7/2019	3:28:28 PM	241.8	73.0
6/7/2019	3:28:29 PM	241.7	72.9
6/7/2019	3:28:30 PM	241.6	72.8
6/7/2019	3:28:31 PM	241.5	72.7
6/7/2019	3:28:32 PM	241.4	72.6
6/7/2019	3:28:33 PM	241.3	72.5
6/7/2019	3:28:34 PM	241.2	72.4
6/7/2019	3:28:35 PM	241.0	72.2
6/7/2019	3:28:36 PM	240.9	72.1
6/7/2019	3:28:37 PM	240.8	72.0
6/7/2019	3:28:38 PM	240.7	71.9
6/7/2019	3:28:39 PM	240.6	71.8
6/7/2019	3:28:40 PM	240.4	71.6
6/7/2019	3:28:41 PM	240.3	71.5
6/7/2019	3:28:42 PM	240.2	71.4
6/7/2019	3:28:43 PM	240.0	71.2
6/7/2019	3:28:44 PM	239.9	71.1
6/7/2019	3:28:45 PM	239.7	70.9
6/7/2019	3:28:46 PM	239.6	70.8
6/7/2019	3:28:47 PM	239.5	70.7
6/7/2019	3:28:48 PM	239.3	70.5
6/7/2019	3:28:49 PM	239.2	70.4
6/7/2019	3:28:50 PM	239.0	70.2
6/7/2019	3:28:51 PM	238.9	70.1
6/7/2019	3:28:52 PM	238.7	69.9
6/7/2019	3:28:53 PM	238.6	69.8
6/7/2019	3:28:54 PM	238.4	69.6
6/7/2019	3:28:55 PM	238.3	69.5
6/7/2019	3:28:56 PM	238.1	69.3
6/7/2019	3:28:57 PM	238.0	69.2
6/7/2019	3:28:58 PM	237.8	69.0
6/7/2019	3:28:59 PM	237.6	68.8
6/7/2019	3:29:00 PM	237.4	68.6
6/7/2019	3:29:01 PM	237.3	68.5
6/7/2019	3:29:02 PM	237.1	68.3
6/7/2019	3:29:03 PM	236.9	68.1
6/7/2019	3:29:04 PM	236.8	68.0
6/7/2019	3:29:05 PM	236.6	67.8
6/7/2019	3:29:06 PM	236.4	67.6
6/7/2019	3:29:07 PM	236.2	67.4
6/7/2019	3:29:08 PM	236.1	67.3
6/7/2019	3:29:09 PM	235.9	67.1
6/7/2019	3:29:10 PM	235.7	66.9
6/7/2019	3:29:11 PM	235.5	66.7
6/7/2019	3:29:12 PM	235.3	66.5
6/7/2019	3:29:13 PM	235.1	66.3
6/7/2019	3:29:14 PM	235.0	66.2
6/7/2019	3:29:15 PM	234.8	66.0

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:29:16 PM	234.6	65.8
6/7/2019	3:29:17 PM	234.4	65.6
6/7/2019	3:29:18 PM	234.2	65.4
6/7/2019	3:29:19 PM	234.0	65.2
6/7/2019	3:29:20 PM	233.9	65.1
6/7/2019	3:29:21 PM	233.7	64.9
6/7/2019	3:29:22 PM	233.5	64.7
6/7/2019	3:29:23 PM	233.3	64.5
6/7/2019	3:29:24 PM	233.1	64.3
6/7/2019	3:29:25 PM	233.0	64.2
6/7/2019	3:29:26 PM	232.8	64.0
6/7/2019	3:29:27 PM	232.7	63.9
6/7/2019	3:29:28 PM	232.5	63.7
6/7/2019	3:29:29 PM	232.3	63.5
6/7/2019	3:29:30 PM	232.2	63.4
6/7/2019	3:29:31 PM	232.0	63.2
6/7/2019	3:29:32 PM	231.9	63.1
6/7/2019	3:29:33 PM	231.7	62.9
6/7/2019	3:29:34 PM	231.6	62.8
6/7/2019	3:29:35 PM	231.4	62.6
6/7/2019	3:29:36 PM	231.2	62.4
6/7/2019	3:29:37 PM	231.1	62.3
6/7/2019	3:29:38 PM	231.0	62.2
6/7/2019	3:29:39 PM	230.8	62.0
6/7/2019	3:29:40 PM	230.7	61.9
6/7/2019	3:29:41 PM	230.5	61.7
6/7/2019	3:29:42 PM	230.4	61.6
6/7/2019	3:29:43 PM	230.2	61.4
6/7/2019	3:29:44 PM	230.1	61.3
6/7/2019	3:29:45 PM	229.9	61.1
6/7/2019	3:29:46 PM	229.8	61.0
6/7/2019	3:29:47 PM	229.6	60.8
6/7/2019	3:29:48 PM	229.5	60.7
6/7/2019	3:29:49 PM	229.4	60.6
6/7/2019	3:29:50 PM	229.3	60.5
6/7/2019	3:29:51 PM	229.1	60.3
6/7/2019	3:29:52 PM	229.0	60.2
6/7/2019	3:29:53 PM	228.9	60.1
6/7/2019	3:29:54 PM	228.8	60.0
6/7/2019	3:29:55 PM	228.6	59.8
6/7/2019	3:29:56 PM	228.5	59.7
6/7/2019	3:29:57 PM	228.4	59.6
6/7/2019	3:29:58 PM	228.2	59.4
6/7/2019	3:29:59 PM	228.1	59.3
6/7/2019	3:30:00 PM	228.0	59.2
6/7/2019	3:30:01 PM	227.8	59.0
6/7/2019	3:30:02 PM	227.7	58.9
6/7/2019	3:30:03 PM	227.5	58.7
6/7/2019	3:30:04 PM	227.4	58.6
6/7/2019	3:30:05 PM	227.3	58.5
6/7/2019	3:30:06 PM	227.1	58.3
6/7/2019	3:30:07 PM	227.0	58.2
6/7/2019	3:30:08 PM	226.8	58.0
6/7/2019	3:30:09 PM	226.7	57.9
6/7/2019	3:30:10 PM	226.5	57.7
6/7/2019	3:30:11 PM	226.4	57.6
6/7/2019	3:30:12 PM	226.3	57.5
6/7/2019	3:30:13 PM	226.1	57.3
6/7/2019	3:30:14 PM	226.0	57.2
6/7/2019	3:30:15 PM	225.8	57.0
6/7/2019	3:30:16 PM	225.7	56.9
6/7/2019	3:30:17 PM	225.6	56.8
6/7/2019	3:30:18 PM	225.4	56.6
6/7/2019	3:30:19 PM	225.3	56.5
6/7/2019	3:30:20 PM	225.2	56.4
6/7/2019	3:30:21 PM	225.0	56.2
6/7/2019	3:30:22 PM	224.9	56.1
6/7/2019	3:30:23 PM	224.7	55.9
6/7/2019	3:30:24 PM	224.6	55.8
6/7/2019	3:30:25 PM	224.5	55.7
6/7/2019	3:30:26 PM	224.3	55.5
6/7/2019	3:30:27 PM	224.2	55.4
6/7/2019	3:30:28 PM	224.1	55.3
6/7/2019	3:30:29 PM	224.0	55.2
6/7/2019	3:30:30 PM	223.9	55.1
6/7/2019	3:30:31 PM	223.8	55.0
6/7/2019	3:30:32 PM	223.7	54.9
6/7/2019	3:30:33 PM	223.5	54.7
6/7/2019	3:30:34 PM	223.5	54.7
6/7/2019	3:30:35 PM	223.4	54.6
6/7/2019	3:30:36 PM	223.3	54.5
6/7/2019	3:30:37 PM	223.2	54.4
6/7/2019	3:30:38 PM	223.1	54.3
6/7/2019	3:30:39 PM	223.1	54.3
6/7/2019	3:30:40 PM	223.0	54.2
6/7/2019	3:30:41 PM	222.9	54.1
6/7/2019	3:30:42 PM	222.9	54.1
6/7/2019	3:30:43 PM	222.8	54.0
6/7/2019	3:30:44 PM	222.8	54.0
6/7/2019	3:30:45 PM	222.8	54.0
6/7/2019	3:30:46 PM	222.7	53.9
6/7/2019	3:30:47 PM	222.7	53.9

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:30:48 PM	222.6	53.8
6/7/2019	3:30:49 PM	222.6	53.8
6/7/2019	3:30:50 PM	222.5	53.7
6/7/2019	3:30:51 PM	222.5	53.7
6/7/2019	3:30:52 PM	222.4	53.6
6/7/2019	3:30:53 PM	222.4	53.6
6/7/2019	3:30:54 PM	222.3	53.5
6/7/2019	3:30:55 PM	222.3	53.5
6/7/2019	3:30:56 PM	222.2	53.4
6/7/2019	3:30:57 PM	222.2	53.4
6/7/2019	3:30:58 PM	222.1	53.3
6/7/2019	3:30:59 PM	222.1	53.3
6/7/2019	3:31:00 PM	222.0	53.2
6/7/2019	3:31:01 PM	222.0	53.2
6/7/2019	3:31:02 PM	221.9	53.1
6/7/2019	3:31:03 PM	221.9	53.1
6/7/2019	3:31:04 PM	221.8	53.0
6/7/2019	3:31:05 PM	221.8	53.0
6/7/2019	3:31:06 PM	221.7	52.9
6/7/2019	3:31:07 PM	221.7	52.9
6/7/2019	3:31:08 PM	221.6	52.8
6/7/2019	3:31:09 PM	221.6	52.8
6/7/2019	3:31:10 PM	221.5	52.7
6/7/2019	3:31:11 PM	221.4	52.6
6/7/2019	3:31:12 PM	221.4	52.6
6/7/2019	3:31:13 PM	221.3	52.5
6/7/2019	3:31:14 PM	221.3	52.5
6/7/2019	3:31:15 PM	221.2	52.4
6/7/2019	3:31:16 PM	221.2	52.4
6/7/2019	3:31:17 PM	221.1	52.3
6/7/2019	3:31:18 PM	221.1	52.3
6/7/2019	3:31:19 PM	221.0	52.2
6/7/2019	3:31:20 PM	220.9	52.1
6/7/2019	3:31:21 PM	220.9	52.1
6/7/2019	3:31:22 PM	220.8	52.0
6/7/2019	3:31:23 PM	220.7	51.9
6/7/2019	3:31:24 PM	220.6	51.8
6/7/2019	3:31:25 PM	220.6	51.8
6/7/2019	3:31:26 PM	220.5	51.7
6/7/2019	3:31:27 PM	220.4	51.6
6/7/2019	3:31:28 PM	220.3	51.5
6/7/2019	3:31:29 PM	220.2	51.4
6/7/2019	3:31:30 PM	220.2	51.4
6/7/2019	3:31:31 PM	220.1	51.3
6/7/2019	3:31:32 PM	220.0	51.2
6/7/2019	3:31:33 PM	219.9	51.1
6/7/2019	3:31:34 PM	219.8	51.0
6/7/2019	3:31:35 PM	219.7	50.9
6/7/2019	3:31:36 PM	219.6	50.8
6/7/2019	3:31:37 PM	219.5	50.7
6/7/2019	3:31:38 PM	219.4	50.6
6/7/2019	3:31:39 PM	219.3	50.5
6/7/2019	3:31:40 PM	219.2	50.4
6/7/2019	3:31:41 PM	219.1	50.3
6/7/2019	3:31:42 PM	219.0	50.2
6/7/2019	3:31:43 PM	218.9	50.1
6/7/2019	3:31:44 PM	218.7	49.9
6/7/2019	3:31:45 PM	218.6	49.8
6/7/2019	3:31:46 PM	218.5	49.7
6/7/2019	3:31:47 PM	218.4	49.6
6/7/2019	3:31:48 PM	218.3	49.5
6/7/2019	3:31:49 PM	218.2	49.4
6/7/2019	3:31:50 PM	218.0	49.2
6/7/2019	3:31:51 PM	217.9	49.1
6/7/2019	3:31:52 PM	217.8	49.0
6/7/2019	3:31:53 PM	217.7	48.9
6/7/2019	3:31:54 PM	217.6	48.8
6/7/2019	3:31:55 PM	217.4	48.6
6/7/2019	3:31:56 PM	217.3	48.5
6/7/2019	3:31:57 PM	217.2	48.4
6/7/2019	3:31:58 PM	217.1	48.3
6/7/2019	3:31:59 PM	217.0	48.2
6/7/2019	3:32:00 PM	216.9	48.1
6/7/2019	3:32:01 PM	216.7	47.9
6/7/2019	3:32:02 PM	216.6	47.8
6/7/2019	3:32:03 PM	216.5	47.7
6/7/2019	3:32:04 PM	216.4	47.6
6/7/2019	3:32:05 PM	216.3	47.5
6/7/2019	3:32:06 PM	216.2	47.4
6/7/2019	3:32:07 PM	216.1	47.3
6/7/2019	3:32:08 PM	216.0	47.2
6/7/2019	3:32:09 PM	215.9	47.1
6/7/2019	3:32:10 PM	215.7	46.9
6/7/2019	3:32:11 PM	215.6	46.8
6/7/2019	3:32:12 PM	215.5	46.7
6/7/2019	3:32:13 PM	215.4	46.6
6/7/2019	3:32:14 PM	215.3	46.5
6/7/2019	3:32:15 PM	215.2	46.4
6/7/2019	3:32:16 PM	215.0	46.2
6/7/2019	3:32:17 PM	214.9	46.1
6/7/2019	3:32:18 PM	214.8	46.0
6/7/2019	3:32:19 PM	214.7	45.9

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:32:20 PM	214.6	45.8
6/7/2019	3:32:21 PM	214.5	45.7
6/7/2019	3:32:22 PM	214.3	45.5
6/7/2019	3:32:23 PM	214.2	45.4
6/7/2019	3:32:24 PM	214.1	45.3
6/7/2019	3:32:25 PM	214.0	45.2
6/7/2019	3:32:26 PM	213.9	45.1
6/7/2019	3:32:27 PM	213.8	45.0
6/7/2019	3:32:28 PM	213.7	44.9
6/7/2019	3:32:29 PM	213.6	44.8
6/7/2019	3:32:30 PM	213.5	44.7
6/7/2019	3:32:31 PM	213.4	44.6
6/7/2019	3:32:32 PM	213.3	44.5
6/7/2019	3:32:33 PM	213.2	44.4
6/7/2019	3:32:34 PM	213.1	44.3
6/7/2019	3:32:35 PM	213.1	44.3
6/7/2019	3:32:36 PM	213.0	44.2
6/7/2019	3:32:37 PM	212.9	44.1
6/7/2019	3:32:38 PM	212.8	44.0
6/7/2019	3:32:39 PM	212.7	43.9
6/7/2019	3:32:40 PM	212.7	43.9
6/7/2019	3:32:41 PM	212.6	43.8
6/7/2019	3:32:42 PM	212.5	43.7
6/7/2019	3:32:43 PM	212.4	43.6
6/7/2019	3:32:44 PM	212.3	43.5
6/7/2019	3:32:45 PM	212.2	43.4
6/7/2019	3:32:46 PM	212.1	43.3
6/7/2019	3:32:47 PM	212.0	43.2
6/7/2019	3:32:48 PM	211.9	43.1
6/7/2019	3:32:49 PM	211.8	43.0
6/7/2019	3:32:50 PM	211.7	42.9
6/7/2019	3:32:51 PM	211.6	42.8
6/7/2019	3:32:52 PM	211.5	42.7
6/7/2019	3:32:53 PM	211.4	42.6
6/7/2019	3:32:54 PM	211.3	42.5
6/7/2019	3:32:55 PM	211.2	42.4
6/7/2019	3:32:56 PM	211.2	42.4
6/7/2019	3:32:57 PM	211.1	42.3
6/7/2019	3:32:58 PM	211.0	42.2
6/7/2019	3:32:59 PM	210.9	42.1
6/7/2019	3:33:00 PM	210.8	42.0
6/7/2019	3:33:01 PM	210.7	41.9
6/7/2019	3:33:02 PM	210.6	41.8
6/7/2019	3:33:03 PM	210.6	41.8
6/7/2019	3:33:04 PM	210.5	41.7
6/7/2019	3:33:05 PM	210.4	41.6
6/7/2019	3:33:06 PM	210.3	41.5
6/7/2019	3:33:07 PM	210.3	41.5
6/7/2019	3:33:08 PM	210.2	41.4
6/7/2019	3:33:09 PM	210.1	41.3
6/7/2019	3:33:10 PM	210.0	41.2
6/7/2019	3:33:11 PM	209.9	41.1
6/7/2019	3:33:12 PM	209.9	41.1
6/7/2019	3:33:13 PM	209.8	41.0
6/7/2019	3:33:14 PM	209.7	40.9
6/7/2019	3:33:15 PM	209.7	40.9
6/7/2019	3:33:16 PM	209.6	40.8
6/7/2019	3:33:17 PM	209.6	40.8
6/7/2019	3:33:18 PM	209.5	40.7
6/7/2019	3:33:19 PM	209.5	40.7
6/7/2019	3:33:20 PM	209.5	40.7
6/7/2019	3:33:21 PM	209.4	40.6
6/7/2019	3:33:22 PM	209.4	40.6
6/7/2019	3:33:23 PM	209.3	40.5
6/7/2019	3:33:24 PM	209.3	40.5
6/7/2019	3:33:25 PM	209.3	40.5
6/7/2019	3:33:26 PM	209.3	40.5
6/7/2019	3:33:27 PM	209.2	40.4
6/7/2019	3:33:28 PM	209.2	40.4
6/7/2019	3:33:29 PM	209.2	40.4
6/7/2019	3:33:30 PM	209.2	40.4
6/7/2019	3:33:31 PM	209.1	40.3
6/7/2019	3:33:32 PM	209.1	40.3
6/7/2019	3:33:33 PM	209.1	40.3
6/7/2019	3:33:34 PM	209.0	40.2
6/7/2019	3:33:35 PM	209.0	40.2
6/7/2019	3:33:36 PM	209.0	40.2
6/7/2019	3:33:37 PM	209.0	40.2
6/7/2019	3:33:38 PM	209.0	40.2
6/7/2019	3:33:39 PM	208.9	40.1
6/7/2019	3:33:40 PM	208.9	40.1
6/7/2019	3:33:41 PM	208.9	40.1
6/7/2019	3:33:42 PM	208.8	40.0
6/7/2019	3:33:43 PM	208.8	40.0
6/7/2019	3:33:44 PM	208.8	40.0
6/7/2019	3:33:45 PM	208.7	39.9
6/7/2019	3:33:46 PM	208.7	39.9
6/7/2019	3:33:47 PM	208.6	39.8
6/7/2019	3:33:48 PM	208.6	39.8
6/7/2019	3:33:49 PM	208.6	39.8
6/7/2019	3:33:50 PM	208.5	39.7
6/7/2019	3:33:51 PM	208.5	39.7

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:33:52 PM	208.4	39.6
6/7/2019	3:33:53 PM	208.4	39.6
6/7/2019	3:33:54 PM	208.3	39.5
6/7/2019	3:33:55 PM	208.3	39.5
6/7/2019	3:33:56 PM	208.2	39.4
6/7/2019	3:33:57 PM	208.2	39.4
6/7/2019	3:33:58 PM	208.1	39.3
6/7/2019	3:33:59 PM	208.1	39.3
6/7/2019	3:34:00 PM	208.0	39.2
6/7/2019	3:34:01 PM	207.9	39.1
6/7/2019	3:34:02 PM	207.9	39.1
6/7/2019	3:34:03 PM	207.8	39.0
6/7/2019	3:34:04 PM	207.8	39.0
6/7/2019	3:34:05 PM	207.7	38.9
6/7/2019	3:34:06 PM	207.6	38.8
6/7/2019	3:34:07 PM	207.6	38.8
6/7/2019	3:34:08 PM	207.5	38.7
6/7/2019	3:34:09 PM	207.4	38.6
6/7/2019	3:34:10 PM	207.4	38.6
6/7/2019	3:34:11 PM	207.3	38.5
6/7/2019	3:34:12 PM	207.3	38.5
6/7/2019	3:34:13 PM	207.2	38.4
6/7/2019	3:34:14 PM	207.1	38.3
6/7/2019	3:34:15 PM	207.1	38.3
6/7/2019	3:34:16 PM	207.0	38.2
6/7/2019	3:34:17 PM	206.9	38.1
6/7/2019	3:34:18 PM	206.8	38.0
6/7/2019	3:34:19 PM	206.8	38.0
6/7/2019	3:34:20 PM	206.7	37.9
6/7/2019	3:34:21 PM	206.6	37.8
6/7/2019	3:34:22 PM	206.5	37.7
6/7/2019	3:34:23 PM	206.4	37.6
6/7/2019	3:34:24 PM	206.4	37.6
6/7/2019	3:34:25 PM	206.3	37.5
6/7/2019	3:34:26 PM	206.2	37.4
6/7/2019	3:34:27 PM	206.1	37.3
6/7/2019	3:34:28 PM	206.1	37.3
6/7/2019	3:34:29 PM	206.0	37.2
6/7/2019	3:34:30 PM	205.9	37.1
6/7/2019	3:34:31 PM	205.8	37.0
6/7/2019	3:34:32 PM	205.8	37.0
6/7/2019	3:34:33 PM	205.7	36.9
6/7/2019	3:34:34 PM	205.6	36.8
6/7/2019	3:34:35 PM	205.5	36.7
6/7/2019	3:34:36 PM	205.5	36.7
6/7/2019	3:34:37 PM	205.4	36.6
6/7/2019	3:34:38 PM	205.3	36.5
6/7/2019	3:34:39 PM	205.2	36.4
6/7/2019	3:34:40 PM	205.2	36.4
6/7/2019	3:34:41 PM	205.1	36.3
6/7/2019	3:34:42 PM	205.0	36.2
6/7/2019	3:34:43 PM	204.9	36.1
6/7/2019	3:34:44 PM	204.8	36.0
6/7/2019	3:34:45 PM	204.7	35.9
6/7/2019	3:34:46 PM	204.6	35.8
6/7/2019	3:34:47 PM	204.5	35.7
6/7/2019	3:34:48 PM	204.4	35.6
6/7/2019	3:34:49 PM	204.4	35.6
6/7/2019	3:34:50 PM	204.2	35.4
6/7/2019	3:34:51 PM	204.2	35.4
6/7/2019	3:34:52 PM	204.1	35.3
6/7/2019	3:34:53 PM	204.0	35.2
6/7/2019	3:34:54 PM	203.9	35.1
6/7/2019	3:34:55 PM	203.8	35.0
6/7/2019	3:34:56 PM	203.7	34.9
6/7/2019	3:34:57 PM	203.6	34.8
6/7/2019	3:34:58 PM	203.5	34.7
6/7/2019	3:34:59 PM	203.5	34.7
6/7/2019	3:35:00 PM	203.4	34.6
6/7/2019	3:35:01 PM	203.3	34.5
6/7/2019	3:35:02 PM	203.2	34.4
6/7/2019	3:35:03 PM	203.1	34.3
6/7/2019	3:35:04 PM	203.0	34.2
6/7/2019	3:35:05 PM	202.9	34.1
6/7/2019	3:35:06 PM	202.8	34.0
6/7/2019	3:35:07 PM	202.7	33.9
6/7/2019	3:35:08 PM	202.6	33.8
6/7/2019	3:35:09 PM	202.5	33.7
6/7/2019	3:35:10 PM	202.4	33.6
6/7/2019	3:35:11 PM	202.3	33.5
6/7/2019	3:35:12 PM	202.3	33.5
6/7/2019	3:35:13 PM	202.2	33.4
6/7/2019	3:35:14 PM	202.1	33.3
6/7/2019	3:35:15 PM	202.0	33.2
6/7/2019	3:35:16 PM	201.9	33.1
6/7/2019	3:35:17 PM	201.9	33.1
6/7/2019	3:35:18 PM	201.8	33.0
6/7/2019	3:35:19 PM	201.7	32.9
6/7/2019	3:35:20 PM	201.6	32.8
6/7/2019	3:35:21 PM	201.5	32.7
6/7/2019	3:35:22 PM	201.5	32.7
6/7/2019	3:35:23 PM	201.4	32.6

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:35:24 PM	201.3	32.5
6/7/2019	3:35:25 PM	201.2	32.4
6/7/2019	3:35:26 PM	201.1	32.3
6/7/2019	3:35:27 PM	201.0	32.2
6/7/2019	3:35:28 PM	200.9	32.1
6/7/2019	3:35:29 PM	200.9	32.1
6/7/2019	3:35:30 PM	200.8	32.0
6/7/2019	3:35:31 PM	200.7	31.9
6/7/2019	3:35:32 PM	200.6	31.8
6/7/2019	3:35:33 PM	200.5	31.7
6/7/2019	3:35:34 PM	200.4	31.6
6/7/2019	3:35:35 PM	200.4	31.6
6/7/2019	3:35:36 PM	200.3	31.5
6/7/2019	3:35:37 PM	200.2	31.4
6/7/2019	3:35:38 PM	200.1	31.3
6/7/2019	3:35:39 PM	200.0	31.2
6/7/2019	3:35:40 PM	200.0	31.2
6/7/2019	3:35:41 PM	199.9	31.1
6/7/2019	3:35:42 PM	199.8	31.0
6/7/2019	3:35:43 PM	199.7	30.9
6/7/2019	3:35:44 PM	199.7	30.9
6/7/2019	3:35:45 PM	199.6	30.8
6/7/2019	3:35:46 PM	199.5	30.7
6/7/2019	3:35:47 PM	199.4	30.6
6/7/2019	3:35:48 PM	199.4	30.6
6/7/2019	3:35:49 PM	199.3	30.5
6/7/2019	3:35:50 PM	199.3	30.5
6/7/2019	3:35:51 PM	199.2	30.4
6/7/2019	3:35:52 PM	199.1	30.3
6/7/2019	3:35:53 PM	199.1	30.3
6/7/2019	3:35:54 PM	199.0	30.2
6/7/2019	3:35:55 PM	199.0	30.2
6/7/2019	3:35:56 PM	198.9	30.1
6/7/2019	3:35:57 PM	198.9	30.1
6/7/2019	3:35:58 PM	198.8	30.0
6/7/2019	3:35:59 PM	198.8	30.0
6/7/2019	3:36:00 PM	198.7	29.9
6/7/2019	3:36:01 PM	198.7	29.9
6/7/2019	3:36:02 PM	198.7	29.9
6/7/2019	3:36:03 PM	198.6	29.8
6/7/2019	3:36:04 PM	198.6	29.8
6/7/2019	3:36:05 PM	198.5	29.7
6/7/2019	3:36:06 PM	198.5	29.7
6/7/2019	3:36:07 PM	198.5	29.7
6/7/2019	3:36:08 PM	198.4	29.6
6/7/2019	3:36:09 PM	198.4	29.6
6/7/2019	3:36:10 PM	198.4	29.6
6/7/2019	3:36:11 PM	198.3	29.5
6/7/2019	3:36:12 PM	198.3	29.5
6/7/2019	3:36:13 PM	198.3	29.5
6/7/2019	3:36:14 PM	198.2	29.4
6/7/2019	3:36:15 PM	198.2	29.4
6/7/2019	3:36:16 PM	198.2	29.4
6/7/2019	3:36:17 PM	198.1	29.3
6/7/2019	3:36:18 PM	198.1	29.3
6/7/2019	3:36:19 PM	198.1	29.3
6/7/2019	3:36:20 PM	198.0	29.2
6/7/2019	3:36:21 PM	198.0	29.2
6/7/2019	3:36:22 PM	197.9	29.1
6/7/2019	3:36:23 PM	197.9	29.1
6/7/2019	3:36:24 PM	197.9	29.1
6/7/2019	3:36:25 PM	197.9	29.1
6/7/2019	3:36:26 PM	197.8	29.0
6/7/2019	3:36:27 PM	197.8	29.0
6/7/2019	3:36:28 PM	197.8	29.0
6/7/2019	3:36:29 PM	197.7	28.9
6/7/2019	3:36:30 PM	197.7	28.9
6/7/2019	3:36:31 PM	197.7	28.9
6/7/2019	3:36:32 PM	197.6	28.8
6/7/2019	3:36:33 PM	197.6	28.8
6/7/2019	3:36:34 PM	197.6	28.8
6/7/2019	3:36:35 PM	197.6	28.8
6/7/2019	3:36:36 PM	197.5	28.7
6/7/2019	3:36:37 PM	197.5	28.7
6/7/2019	3:36:38 PM	197.4	28.6
6/7/2019	3:36:39 PM	197.4	28.6
6/7/2019	3:36:40 PM	197.4	28.6
6/7/2019	3:36:41 PM	197.3	28.5
6/7/2019	3:36:42 PM	197.3	28.5
6/7/2019	3:36:43 PM	197.2	28.4
6/7/2019	3:36:44 PM	197.2	28.4
6/7/2019	3:36:45 PM	197.1	28.3
6/7/2019	3:36:46 PM	197.1	28.3
6/7/2019	3:36:47 PM	197.0	28.2
6/7/2019	3:36:48 PM	197.0	28.2
6/7/2019	3:36:49 PM	196.9	28.1
6/7/2019	3:36:50 PM	196.9	28.1
6/7/2019	3:36:51 PM	196.9	28.1
6/7/2019	3:36:52 PM	196.8	28.0
6/7/2019	3:36:53 PM	196.8	28.0
6/7/2019	3:36:54 PM	196.7	27.9
6/7/2019	3:36:55 PM	196.7	27.9

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:36:56 PM	196.7	27.9
6/7/2019	3:36:57 PM	196.6	27.8
6/7/2019	3:36:58 PM	196.6	27.8
6/7/2019	3:36:59 PM	196.6	27.8
6/7/2019	3:37:00 PM	196.5	27.7
6/7/2019	3:37:01 PM	196.5	27.7
6/7/2019	3:37:02 PM	196.5	27.7
6/7/2019	3:37:03 PM	196.4	27.6
6/7/2019	3:37:04 PM	196.4	27.6
6/7/2019	3:37:05 PM	196.4	27.6
6/7/2019	3:37:06 PM	196.4	27.6
6/7/2019	3:37:07 PM	196.4	27.6
6/7/2019	3:37:08 PM	196.3	27.5
6/7/2019	3:37:09 PM	196.3	27.5
6/7/2019	3:37:10 PM	196.3	27.5
6/7/2019	3:37:11 PM	196.3	27.5
6/7/2019	3:37:12 PM	196.3	27.5
6/7/2019	3:37:13 PM	196.2	27.4
6/7/2019	3:37:14 PM	196.2	27.4
6/7/2019	3:37:15 PM	196.2	27.4
6/7/2019	3:37:16 PM	196.2	27.4
6/7/2019	3:37:17 PM	196.2	27.4
6/7/2019	3:37:18 PM	196.1	27.3
6/7/2019	3:37:19 PM	196.1	27.3
6/7/2019	3:37:20 PM	196.1	27.3
6/7/2019	3:37:21 PM	196.1	27.3
6/7/2019	3:37:22 PM	196.1	27.3
6/7/2019	3:37:23 PM	196.0	27.2
6/7/2019	3:37:24 PM	196.0	27.2
6/7/2019	3:37:25 PM	196.0	27.2
6/7/2019	3:37:26 PM	195.9	27.1
6/7/2019	3:37:27 PM	195.9	27.1
6/7/2019	3:37:28 PM	195.9	27.1
6/7/2019	3:37:29 PM	195.9	27.1
6/7/2019	3:37:30 PM	195.8	27.0
6/7/2019	3:37:31 PM	195.8	27.0
6/7/2019	3:37:32 PM	195.8	27.0
6/7/2019	3:37:33 PM	195.7	26.9
6/7/2019	3:37:34 PM	195.7	26.9
6/7/2019	3:37:35 PM	195.7	26.9
6/7/2019	3:37:36 PM	195.6	26.8
6/7/2019	3:37:37 PM	195.6	26.8
6/7/2019	3:37:38 PM	195.6	26.8
6/7/2019	3:37:39 PM	195.5	26.7
6/7/2019	3:37:40 PM	195.5	26.7
6/7/2019	3:37:41 PM	195.5	26.7
6/7/2019	3:37:42 PM	195.4	26.6
6/7/2019	3:37:43 PM	195.4	26.6
6/7/2019	3:37:44 PM	195.3	26.5
6/7/2019	3:37:45 PM	195.3	26.5
6/7/2019	3:37:46 PM	195.2	26.4
6/7/2019	3:37:47 PM	195.2	26.4
6/7/2019	3:37:48 PM	195.2	26.4
6/7/2019	3:37:49 PM	195.1	26.3
6/7/2019	3:37:50 PM	195.0	26.2
6/7/2019	3:37:51 PM	195.0	26.2
6/7/2019	3:37:52 PM	194.9	26.1
6/7/2019	3:37:53 PM	194.9	26.1
6/7/2019	3:37:54 PM	194.8	26.0
6/7/2019	3:37:55 PM	194.8	26.0
6/7/2019	3:37:56 PM	194.7	25.9
6/7/2019	3:37:57 PM	194.7	25.9
6/7/2019	3:37:58 PM	194.6	25.8
6/7/2019	3:37:59 PM	194.6	25.8
6/7/2019	3:38:00 PM	194.5	25.7
6/7/2019	3:38:01 PM	194.5	25.7
6/7/2019	3:38:02 PM	194.4	25.6
6/7/2019	3:38:03 PM	194.3	25.5
6/7/2019	3:38:04 PM	194.3	25.5
6/7/2019	3:38:05 PM	194.2	25.4
6/7/2019	3:38:06 PM	194.2	25.4
6/7/2019	3:38:07 PM	194.1	25.3
6/7/2019	3:38:08 PM	194.1	25.3
6/7/2019	3:38:09 PM	194.0	25.2
6/7/2019	3:38:10 PM	194.0	25.2
6/7/2019	3:38:11 PM	193.9	25.1
6/7/2019	3:38:12 PM	193.9	25.1
6/7/2019	3:38:13 PM	193.9	25.1
6/7/2019	3:38:14 PM	193.9	25.1
6/7/2019	3:38:15 PM	193.9	25.1
6/7/2019	3:38:16 PM	193.9	25.1
6/7/2019	3:38:17 PM	193.8	25.0
6/7/2019	3:38:18 PM	193.8	25.0
6/7/2019	3:38:19 PM	193.8	25.0
6/7/2019	3:38:20 PM	193.8	25.0
6/7/2019	3:38:21 PM	193.8	25.0
6/7/2019	3:38:22 PM	193.8	25.0
6/7/2019	3:38:23 PM	193.8	25.0
6/7/2019	3:38:24 PM	193.8	25.0
6/7/2019	3:38:25 PM	193.7	24.9
6/7/2019	3:38:26 PM	193.7	24.9
6/7/2019	3:38:27 PM	193.7	24.9

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:38:28 PM	193.7	24.9
6/7/2019	3:38:29 PM	193.7	24.9
6/7/2019	3:38:30 PM	193.7	24.9
6/7/2019	3:38:31 PM	193.6	24.8
6/7/2019	3:38:32 PM	193.6	24.8
6/7/2019	3:38:33 PM	193.6	24.8
6/7/2019	3:38:34 PM	193.6	24.8
6/7/2019	3:38:35 PM	193.6	24.8
6/7/2019	3:38:36 PM	193.6	24.8
6/7/2019	3:38:37 PM	193.5	24.7
6/7/2019	3:38:38 PM	193.5	24.7
6/7/2019	3:38:39 PM	193.5	24.7
6/7/2019	3:38:40 PM	193.5	24.7
6/7/2019	3:38:41 PM	193.4	24.6
6/7/2019	3:38:42 PM	193.4	24.6
6/7/2019	3:38:43 PM	193.3	24.5
6/7/2019	3:38:44 PM	193.3	24.5
6/7/2019	3:38:45 PM	193.3	24.5
6/7/2019	3:38:46 PM	193.2	24.4
6/7/2019	3:38:47 PM	193.2	24.4
6/7/2019	3:38:48 PM	193.1	24.3
6/7/2019	3:38:49 PM	193.1	24.3
6/7/2019	3:38:50 PM	193.0	24.2
6/7/2019	3:38:51 PM	192.9	24.1
6/7/2019	3:38:52 PM	192.9	24.1
6/7/2019	3:38:53 PM	192.8	24.0
6/7/2019	3:38:54 PM	192.8	24.0
6/7/2019	3:38:55 PM	192.7	23.9
6/7/2019	3:38:56 PM	192.7	23.9
6/7/2019	3:38:57 PM	192.6	23.8
6/7/2019	3:38:58 PM	192.5	23.7
6/7/2019	3:38:59 PM	192.5	23.7
6/7/2019	3:39:00 PM	192.4	23.6
6/7/2019	3:39:01 PM	192.4	23.6
6/7/2019	3:39:02 PM	192.3	23.5
6/7/2019	3:39:03 PM	192.2	23.4
6/7/2019	3:39:04 PM	192.2	23.4
6/7/2019	3:39:05 PM	192.1	23.3
6/7/2019	3:39:06 PM	192.0	23.2
6/7/2019	3:39:07 PM	192.0	23.2
6/7/2019	3:39:08 PM	191.9	23.1
6/7/2019	3:39:09 PM	191.8	23.0
6/7/2019	3:39:10 PM	191.8	23.0
6/7/2019	3:39:11 PM	191.7	22.9
6/7/2019	3:39:12 PM	191.6	22.8
6/7/2019	3:39:13 PM	191.6	22.8
6/7/2019	3:39:14 PM	191.5	22.7
6/7/2019	3:39:15 PM	191.4	22.6
6/7/2019	3:39:16 PM	191.4	22.6
6/7/2019	3:39:17 PM	191.3	22.5
6/7/2019	3:39:18 PM	191.3	22.5
6/7/2019	3:39:19 PM	191.2	22.4
6/7/2019	3:39:20 PM	191.1	22.3
6/7/2019	3:39:21 PM	191.1	22.3
6/7/2019	3:39:22 PM	191.0	22.2
6/7/2019	3:39:23 PM	191.0	22.2
6/7/2019	3:39:24 PM	190.9	22.1
6/7/2019	3:39:25 PM	190.9	22.1
6/7/2019	3:39:26 PM	190.8	22.0
6/7/2019	3:39:27 PM	190.8	22.0
6/7/2019	3:39:28 PM	190.7	21.9
6/7/2019	3:39:29 PM	190.7	21.9
6/7/2019	3:39:30 PM	190.6	21.8
6/7/2019	3:39:31 PM	190.6	21.8
6/7/2019	3:39:32 PM	190.5	21.7
6/7/2019	3:39:33 PM	190.5	21.7
6/7/2019	3:39:34 PM	190.4	21.6
6/7/2019	3:39:35 PM	190.4	21.6
6/7/2019	3:39:36 PM	190.4	21.6
6/7/2019	3:39:37 PM	190.3	21.5
6/7/2019	3:39:38 PM	190.3	21.5
6/7/2019	3:39:39 PM	190.2	21.4
6/7/2019	3:39:40 PM	190.2	21.4
6/7/2019	3:39:41 PM	190.2	21.4
6/7/2019	3:39:42 PM	190.1	21.3
6/7/2019	3:39:43 PM	190.1	21.3
6/7/2019	3:39:44 PM	190.1	21.3
6/7/2019	3:39:45 PM	190.0	21.2
6/7/2019	3:39:46 PM	190.0	21.2
6/7/2019	3:39:47 PM	190.0	21.2
6/7/2019	3:39:48 PM	189.9	21.1
6/7/2019	3:39:49 PM	189.9	21.1
6/7/2019	3:39:50 PM	189.8	21.0
6/7/2019	3:39:51 PM	189.8	21.0
6/7/2019	3:39:52 PM	189.8	21.0
6/7/2019	3:39:53 PM	189.7	20.9
6/7/2019	3:39:54 PM	189.7	20.9
6/7/2019	3:39:55 PM	189.7	20.9
6/7/2019	3:39:56 PM	189.6	20.8
6/7/2019	3:39:57 PM	189.6	20.8
6/7/2019	3:39:58 PM	189.6	20.8
6/7/2019	3:39:59 PM	189.6	20.8

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:40:00 PM	189.5	20.7
6/7/2019	3:40:01 PM	189.5	20.7
6/7/2019	3:40:02 PM	189.5	20.7
6/7/2019	3:40:03 PM	189.4	20.6
6/7/2019	3:40:04 PM	189.4	20.6
6/7/2019	3:40:05 PM	189.4	20.6
6/7/2019	3:40:06 PM	189.4	20.6
6/7/2019	3:40:07 PM	189.3	20.5
6/7/2019	3:40:08 PM	189.3	20.5
6/7/2019	3:40:09 PM	189.3	20.5
6/7/2019	3:40:10 PM	189.3	20.5
6/7/2019	3:40:11 PM	189.2	20.4
6/7/2019	3:40:12 PM	189.2	20.4
6/7/2019	3:40:13 PM	189.2	20.4
6/7/2019	3:40:14 PM	189.2	20.4
6/7/2019	3:40:15 PM	189.1	20.3
6/7/2019	3:40:16 PM	189.1	20.3
6/7/2019	3:40:17 PM	189.1	20.3
6/7/2019	3:40:18 PM	189.1	20.3
6/7/2019	3:40:19 PM	189.0	20.2
6/7/2019	3:40:20 PM	189.0	20.2
6/7/2019	3:40:21 PM	189.0	20.2
6/7/2019	3:40:22 PM	188.9	20.1
6/7/2019	3:40:23 PM	188.9	20.1
6/7/2019	3:40:24 PM	188.9	20.1
6/7/2019	3:40:25 PM	188.8	20.0
6/7/2019	3:40:26 PM	188.8	20.0
6/7/2019	3:40:27 PM	188.8	20.0
6/7/2019	3:40:28 PM	188.7	19.9
6/7/2019	3:40:29 PM	188.7	19.9
6/7/2019	3:40:30 PM	188.6	19.8
6/7/2019	3:40:31 PM	188.6	19.8
6/7/2019	3:40:32 PM	188.6	19.8
6/7/2019	3:40:33 PM	188.5	19.7
6/7/2019	3:40:34 PM	188.5	19.7
6/7/2019	3:40:35 PM	188.5	19.7
6/7/2019	3:40:36 PM	188.4	19.6
6/7/2019	3:40:37 PM	188.4	19.6
6/7/2019	3:40:38 PM	188.4	19.6
6/7/2019	3:40:39 PM	188.3	19.5
6/7/2019	3:40:40 PM	188.3	19.5
6/7/2019	3:40:41 PM	188.3	19.5
6/7/2019	3:40:42 PM	188.2	19.4
6/7/2019	3:40:43 PM	188.2	19.4
6/7/2019	3:40:44 PM	188.2	19.4
6/7/2019	3:40:45 PM	188.1	19.3
6/7/2019	3:40:46 PM	188.1	19.3
6/7/2019	3:40:47 PM	188.1	19.3
6/7/2019	3:40:48 PM	188.1	19.3
6/7/2019	3:40:49 PM	188.0	19.2
6/7/2019	3:40:50 PM	188.0	19.2
6/7/2019	3:40:51 PM	188.0	19.2
6/7/2019	3:40:52 PM	188.0	19.2
6/7/2019	3:40:53 PM	188.0	19.2
6/7/2019	3:40:54 PM	188.0	19.2
6/7/2019	3:40:55 PM	187.9	19.1
6/7/2019	3:40:56 PM	187.9	19.1
6/7/2019	3:40:57 PM	187.9	19.1
6/7/2019	3:40:58 PM	187.9	19.1
6/7/2019	3:40:59 PM	187.9	19.1
6/7/2019	3:41:00 PM	187.9	19.1
6/7/2019	3:41:01 PM	187.9	19.1
6/7/2019	3:41:02 PM	187.9	19.1
6/7/2019	3:41:03 PM	187.9	19.1
6/7/2019	3:41:04 PM	187.9	19.1
6/7/2019	3:41:05 PM	187.9	19.1
6/7/2019	3:41:06 PM	188.0	19.2
6/7/2019	3:41:07 PM	188.0	19.2
6/7/2019	3:41:08 PM	188.0	19.2
6/7/2019	3:41:09 PM	188.0	19.2
6/7/2019	3:41:10 PM	188.0	19.2
6/7/2019	3:41:11 PM	188.0	19.2
6/7/2019	3:41:12 PM	188.0	19.2
6/7/2019	3:41:13 PM	188.0	19.2
6/7/2019	3:41:14 PM	188.0	19.2
6/7/2019	3:41:15 PM	188.0	19.2
6/7/2019	3:41:16 PM	188.0	19.2
6/7/2019	3:41:17 PM	188.1	19.3
6/7/2019	3:41:18 PM	188.1	19.3
6/7/2019	3:41:19 PM	188.1	19.3
6/7/2019	3:41:20 PM	188.1	19.3
6/7/2019	3:41:21 PM	188.1	19.3
6/7/2019	3:41:22 PM	188.1	19.3
6/7/2019	3:41:23 PM	188.1	19.3
6/7/2019	3:41:24 PM	188.0	19.2
6/7/2019	3:41:25 PM	188.0	19.2
6/7/2019	3:41:26 PM	188.0	19.2
6/7/2019	3:41:27 PM	188.0	19.2
6/7/2019	3:41:28 PM	188.0	19.2
6/7/2019	3:41:29 PM	188.0	19.2
6/7/2019	3:41:30 PM	188.0	19.2
6/7/2019	3:41:31 PM	188.0	19.2

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:41:32 PM	188.0	19.2
6/7/2019	3:41:33 PM	187.9	19.1
6/7/2019	3:41:34 PM	187.9	19.1
6/7/2019	3:41:35 PM	187.9	19.1
6/7/2019	3:41:36 PM	187.9	19.1
6/7/2019	3:41:37 PM	187.8	19.0
6/7/2019	3:41:38 PM	187.8	19.0
6/7/2019	3:41:39 PM	187.8	19.0
6/7/2019	3:41:40 PM	187.7	18.9
6/7/2019	3:41:41 PM	187.7	18.9
6/7/2019	3:41:42 PM	187.6	18.8
6/7/2019	3:41:43 PM	187.6	18.8
6/7/2019	3:41:44 PM	187.5	18.7
6/7/2019	3:41:45 PM	187.5	18.7
6/7/2019	3:41:46 PM	187.4	18.6
6/7/2019	3:41:47 PM	187.3	18.5
6/7/2019	3:41:48 PM	187.3	18.5
6/7/2019	3:41:49 PM	187.2	18.4
6/7/2019	3:41:50 PM	187.1	18.3
6/7/2019	3:41:51 PM	187.1	18.3
6/7/2019	3:41:52 PM	187.0	18.2
6/7/2019	3:41:53 PM	186.9	18.1
6/7/2019	3:41:54 PM	186.9	18.1
6/7/2019	3:41:55 PM	186.8	18.0
6/7/2019	3:41:56 PM	186.7	17.9
6/7/2019	3:41:57 PM	186.7	17.9
6/7/2019	3:41:58 PM	186.6	17.8
6/7/2019	3:41:59 PM	186.5	17.7
6/7/2019	3:42:00 PM	186.5	17.7
6/7/2019	3:42:01 PM	186.4	17.6
6/7/2019	3:42:02 PM	186.4	17.6
6/7/2019	3:42:03 PM	186.4	17.6
6/7/2019	3:42:04 PM	186.3	17.5
6/7/2019	3:42:05 PM	186.3	17.5
6/7/2019	3:42:06 PM	186.2	17.4
6/7/2019	3:42:07 PM	186.2	17.4
6/7/2019	3:42:08 PM	186.2	17.4
6/7/2019	3:42:09 PM	186.1	17.3
6/7/2019	3:42:10 PM	186.1	17.3
6/7/2019	3:42:11 PM	186.1	17.3
6/7/2019	3:42:12 PM	186.0	17.2
6/7/2019	3:42:13 PM	186.0	17.2
6/7/2019	3:42:14 PM	186.0	17.2
6/7/2019	3:42:15 PM	185.9	17.1
6/7/2019	3:42:16 PM	185.9	17.1
6/7/2019	3:42:17 PM	185.9	17.1
6/7/2019	3:42:18 PM	185.8	17.0
6/7/2019	3:42:19 PM	185.8	17.0
6/7/2019	3:42:20 PM	185.8	17.0
6/7/2019	3:42:21 PM	185.7	16.9
6/7/2019	3:42:22 PM	185.7	16.9
6/7/2019	3:42:23 PM	185.7	16.9
6/7/2019	3:42:24 PM	185.6	16.8
6/7/2019	3:42:25 PM	185.6	16.8
6/7/2019	3:42:26 PM	185.6	16.8
6/7/2019	3:42:27 PM	185.5	16.7
6/7/2019	3:42:28 PM	185.5	16.7
6/7/2019	3:42:29 PM	185.5	16.7
6/7/2019	3:42:30 PM	185.4	16.6
6/7/2019	3:42:31 PM	185.4	16.6
6/7/2019	3:42:32 PM	185.4	16.6
6/7/2019	3:42:33 PM	185.3	16.5
6/7/2019	3:42:34 PM	185.3	16.5
6/7/2019	3:42:35 PM	185.3	16.5
6/7/2019	3:42:36 PM	185.3	16.5
6/7/2019	3:42:37 PM	185.2	16.4
6/7/2019	3:42:38 PM	185.2	16.4
6/7/2019	3:42:39 PM	185.2	16.4
6/7/2019	3:42:40 PM	185.1	16.3
6/7/2019	3:42:41 PM	185.1	16.3
6/7/2019	3:42:42 PM	185.1	16.3
6/7/2019	3:42:43 PM	185.1	16.3
6/7/2019	3:42:44 PM	185.1	16.3
6/7/2019	3:42:45 PM	185.1	16.3
6/7/2019	3:42:46 PM	185.1	16.3
6/7/2019	3:42:47 PM	185.0	16.2
6/7/2019	3:42:48 PM	185.0	16.2
6/7/2019	3:42:49 PM	185.0	16.2
6/7/2019	3:42:50 PM	185.0	16.2
6/7/2019	3:42:51 PM	185.0	16.2
6/7/2019	3:42:52 PM	185.0	16.2
6/7/2019	3:42:53 PM	185.0	16.2
6/7/2019	3:42:54 PM	185.0	16.2
6/7/2019	3:42:55 PM	185.0	16.2
6/7/2019	3:42:56 PM	185.0	16.2
6/7/2019	3:42:57 PM	185.0	16.2
6/7/2019	3:42:58 PM	185.0	16.2
6/7/2019	3:42:59 PM	185.0	16.2
6/7/2019	3:43:00 PM	185.0	16.2
6/7/2019	3:43:01 PM	185.0	16.2
6/7/2019	3:43:02 PM	185.0	16.2
6/7/2019	3:43:03 PM	185.0	16.2

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:43:04 PM	185.0	16.2
6/7/2019	3:43:05 PM	185.0	16.2
6/7/2019	3:43:06 PM	185.0	16.2
6/7/2019	3:43:07 PM	185.0	16.2
6/7/2019	3:43:08 PM	185.0	16.2
6/7/2019	3:43:09 PM	184.9	16.1
6/7/2019	3:43:10 PM	184.9	16.1
6/7/2019	3:43:11 PM	184.9	16.1
6/7/2019	3:43:12 PM	184.9	16.1
6/7/2019	3:43:13 PM	184.8	16.0
6/7/2019	3:43:14 PM	184.8	16.0
6/7/2019	3:43:15 PM	184.8	16.0
6/7/2019	3:43:16 PM	184.8	16.0
6/7/2019	3:43:17 PM	184.7	15.9
6/7/2019	3:43:18 PM	184.7	15.9
6/7/2019	3:43:19 PM	184.7	15.9
6/7/2019	3:43:20 PM	184.6	15.8
6/7/2019	3:43:21 PM	184.6	15.8
6/7/2019	3:43:22 PM	184.6	15.8
6/7/2019	3:43:23 PM	184.5	15.7
6/7/2019	3:43:24 PM	184.5	15.7
6/7/2019	3:43:25 PM	184.4	15.6
6/7/2019	3:43:26 PM	184.4	15.6
6/7/2019	3:43:27 PM	184.4	15.6
6/7/2019	3:43:28 PM	184.3	15.5
6/7/2019	3:43:29 PM	184.3	15.5
6/7/2019	3:43:30 PM	184.2	15.4
6/7/2019	3:43:31 PM	184.2	15.4
6/7/2019	3:43:32 PM	184.1	15.3
6/7/2019	3:43:33 PM	184.1	15.3
6/7/2019	3:43:34 PM	184.0	15.2
6/7/2019	3:43:35 PM	184.0	15.2
6/7/2019	3:43:36 PM	183.9	15.1
6/7/2019	3:43:37 PM	183.9	15.1
6/7/2019	3:43:38 PM	183.9	15.1
6/7/2019	3:43:39 PM	183.8	15.0
6/7/2019	3:43:40 PM	183.8	15.0
6/7/2019	3:43:41 PM	183.7	14.9
6/7/2019	3:43:42 PM	183.7	14.9
6/7/2019	3:43:43 PM	183.7	14.9
6/7/2019	3:43:44 PM	183.6	14.8
6/7/2019	3:43:45 PM	183.6	14.8
6/7/2019	3:43:46 PM	183.5	14.7
6/7/2019	3:43:47 PM	183.5	14.7
6/7/2019	3:43:48 PM	183.5	14.7
6/7/2019	3:43:49 PM	183.4	14.6
6/7/2019	3:43:50 PM	183.4	14.6
6/7/2019	3:43:51 PM	183.4	14.6
6/7/2019	3:43:52 PM	183.4	14.6
6/7/2019	3:43:53 PM	183.3	14.5
6/7/2019	3:43:54 PM	183.3	14.5
6/7/2019	3:43:55 PM	183.3	14.5
6/7/2019	3:43:56 PM	183.3	14.5
6/7/2019	3:43:57 PM	183.3	14.5
6/7/2019	3:43:58 PM	183.3	14.5
6/7/2019	3:43:59 PM	183.3	14.5
6/7/2019	3:44:00 PM	183.3	14.5
6/7/2019	3:44:01 PM	183.3	14.5
6/7/2019	3:44:02 PM	183.3	14.5
6/7/2019	3:44:03 PM	183.3	14.5
6/7/2019	3:44:04 PM	183.3	14.5
6/7/2019	3:44:05 PM	183.3	14.5
6/7/2019	3:44:06 PM	183.3	14.5
6/7/2019	3:44:07 PM	183.4	14.6
6/7/2019	3:44:08 PM	183.4	14.6
6/7/2019	3:44:09 PM	183.4	14.6
6/7/2019	3:44:10 PM	183.4	14.6
6/7/2019	3:44:11 PM	183.4	14.6
6/7/2019	3:44:12 PM	183.4	14.6
6/7/2019	3:44:13 PM	183.4	14.6
6/7/2019	3:44:14 PM	183.4	14.6
6/7/2019	3:44:15 PM	183.4	14.6
6/7/2019	3:44:16 PM	183.4	14.6
6/7/2019	3:44:17 PM	183.5	14.7
6/7/2019	3:44:18 PM	183.5	14.7
6/7/2019	3:44:19 PM	183.5	14.7
6/7/2019	3:44:20 PM	183.5	14.7
6/7/2019	3:44:21 PM	183.5	14.7
6/7/2019	3:44:22 PM	183.5	14.7
6/7/2019	3:44:23 PM	183.5	14.7
6/7/2019	3:44:24 PM	183.5	14.7
6/7/2019	3:44:25 PM	183.4	14.6
6/7/2019	3:44:26 PM	183.4	14.6
6/7/2019	3:44:27 PM	183.4	14.6
6/7/2019	3:44:28 PM	183.4	14.6
6/7/2019	3:44:29 PM	183.4	14.6
6/7/2019	3:44:30 PM	183.4	14.6
6/7/2019	3:44:31 PM	183.3	14.5
6/7/2019	3:44:32 PM	183.3	14.5
6/7/2019	3:44:33 PM	183.3	14.5
6/7/2019	3:44:34 PM	183.2	14.4
6/7/2019	3:44:35 PM	183.2	14.4

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:44:36 PM	183.2	14.4
6/7/2019	3:44:37 PM	183.1	14.3
6/7/2019	3:44:38 PM	183.1	14.3
6/7/2019	3:44:39 PM	183.1	14.3
6/7/2019	3:44:40 PM	183.0	14.2
6/7/2019	3:44:41 PM	183.0	14.2
6/7/2019	3:44:42 PM	182.9	14.1
6/7/2019	3:44:43 PM	182.9	14.1
6/7/2019	3:44:44 PM	182.9	14.1
6/7/2019	3:44:45 PM	182.8	14.0
6/7/2019	3:44:46 PM	182.8	14.0
6/7/2019	3:44:47 PM	182.7	13.9
6/7/2019	3:44:48 PM	182.7	13.9
6/7/2019	3:44:49 PM	182.6	13.8
6/7/2019	3:44:50 PM	182.6	13.8
6/7/2019	3:44:51 PM	182.5	13.7
6/7/2019	3:44:52 PM	182.4	13.6
6/7/2019	3:44:53 PM	182.4	13.6
6/7/2019	3:44:54 PM	182.3	13.5
6/7/2019	3:44:55 PM	182.3	13.5
6/7/2019	3:44:56 PM	182.2	13.4
6/7/2019	3:44:57 PM	182.2	13.4
6/7/2019	3:44:58 PM	182.1	13.3
6/7/2019	3:44:59 PM	182.0	13.2
6/7/2019	3:45:00 PM	182.0	13.2
6/7/2019	3:45:01 PM	181.9	13.1
6/7/2019	3:45:02 PM	181.9	13.1
6/7/2019	3:45:03 PM	181.8	13.0
6/7/2019	3:45:04 PM	181.8	13.0
6/7/2019	3:45:05 PM	181.7	12.9
6/7/2019	3:45:06 PM	181.7	12.9
6/7/2019	3:45:07 PM	181.6	12.8
6/7/2019	3:45:08 PM	181.5	12.7
6/7/2019	3:45:09 PM	181.5	12.7
6/7/2019	3:45:10 PM	181.4	12.6
6/7/2019	3:45:11 PM	181.4	12.6
6/7/2019	3:45:12 PM	181.3	12.5
6/7/2019	3:45:13 PM	181.3	12.5
6/7/2019	3:45:14 PM	181.2	12.4
6/7/2019	3:45:15 PM	181.2	12.4
6/7/2019	3:45:16 PM	181.1	12.3
6/7/2019	3:45:17 PM	181.1	12.3
6/7/2019	3:45:18 PM	181.0	12.2
6/7/2019	3:45:19 PM	181.0	12.2
6/7/2019	3:45:20 PM	180.9	12.1
6/7/2019	3:45:21 PM	180.9	12.1
6/7/2019	3:45:22 PM	180.8	12.0
6/7/2019	3:45:23 PM	180.8	12.0
6/7/2019	3:45:24 PM	180.8	12.0
6/7/2019	3:45:25 PM	180.7	11.9
6/7/2019	3:45:26 PM	180.7	11.9
6/7/2019	3:45:27 PM	180.7	11.9
6/7/2019	3:45:28 PM	180.6	11.8
6/7/2019	3:45:29 PM	180.6	11.8
6/7/2019	3:45:30 PM	180.6	11.8
6/7/2019	3:45:31 PM	180.5	11.7
6/7/2019	3:45:32 PM	180.5	11.7
6/7/2019	3:45:33 PM	180.5	11.7
6/7/2019	3:45:34 PM	180.5	11.7
6/7/2019	3:45:35 PM	180.5	11.7
6/7/2019	3:45:36 PM	180.4	11.6
6/7/2019	3:45:37 PM	180.4	11.6
6/7/2019	3:45:38 PM	180.4	11.6
6/7/2019	3:45:39 PM	180.4	11.6
6/7/2019	3:45:40 PM	180.4	11.6
6/7/2019	3:45:41 PM	180.4	11.6
6/7/2019	3:45:42 PM	180.4	11.6
6/7/2019	3:45:43 PM	180.4	11.6
6/7/2019	3:45:44 PM	180.3	11.5
6/7/2019	3:45:45 PM	180.3	11.5
6/7/2019	3:45:46 PM	180.3	11.5
6/7/2019	3:45:47 PM	180.3	11.5
6/7/2019	3:45:48 PM	180.3	11.5
6/7/2019	3:45:49 PM	180.3	11.5
6/7/2019	3:45:50 PM	180.3	11.5
6/7/2019	3:45:51 PM	180.3	11.5
6/7/2019	3:45:52 PM	180.2	11.4
6/7/2019	3:45:53 PM	180.2	11.4
6/7/2019	3:45:54 PM	180.2	11.4
6/7/2019	3:45:55 PM	180.2	11.4
6/7/2019	3:45:56 PM	180.2	11.4
6/7/2019	3:45:57 PM	180.2	11.4
6/7/2019	3:45:58 PM	180.2	11.4
6/7/2019	3:45:59 PM	180.1	11.3
6/7/2019	3:46:00 PM	180.1	11.3
6/7/2019	3:46:01 PM	180.1	11.3
6/7/2019	3:46:02 PM	180.1	11.3
6/7/2019	3:46:03 PM	180.1	11.3
6/7/2019	3:46:04 PM	180.1	11.3
6/7/2019	3:46:05 PM	180.1	11.3
6/7/2019	3:46:06 PM	180.1	11.3
6/7/2019	3:46:07 PM	180.0	11.2

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:46:08 PM	180.0	11.2
6/7/2019	3:46:09 PM	180.0	11.2
6/7/2019	3:46:10 PM	180.0	11.2
6/7/2019	3:46:11 PM	179.9	11.1
6/7/2019	3:46:12 PM	179.9	11.1
6/7/2019	3:46:13 PM	179.9	11.1
6/7/2019	3:46:14 PM	179.9	11.1
6/7/2019	3:46:15 PM	179.9	11.1
6/7/2019	3:46:16 PM	179.9	11.1
6/7/2019	3:46:17 PM	179.8	11.0
6/7/2019	3:46:18 PM	179.8	11.0
6/7/2019	3:46:19 PM	179.8	11.0
6/7/2019	3:46:20 PM	179.8	11.0
6/7/2019	3:46:21 PM	179.8	11.0
6/7/2019	3:46:22 PM	179.8	11.0
6/7/2019	3:46:23 PM	179.8	11.0
6/7/2019	3:46:24 PM	179.8	11.0
6/7/2019	3:46:25 PM	179.7	10.9
6/7/2019	3:46:26 PM	179.7	10.9
6/7/2019	3:46:27 PM	179.7	10.9
6/7/2019	3:46:28 PM	179.7	10.9
6/7/2019	3:46:29 PM	179.7	10.9
6/7/2019	3:46:30 PM	179.7	10.9
6/7/2019	3:46:31 PM	179.7	10.9
6/7/2019	3:46:32 PM	179.7	10.9
6/7/2019	3:46:33 PM	179.6	10.8
6/7/2019	3:46:34 PM	179.6	10.8
6/7/2019	3:46:35 PM	179.6	10.8
6/7/2019	3:46:36 PM	179.6	10.8
6/7/2019	3:46:37 PM	179.6	10.8
6/7/2019	3:46:38 PM	179.6	10.8
6/7/2019	3:46:39 PM	179.6	10.8
6/7/2019	3:46:40 PM	179.6	10.8
6/7/2019	3:46:41 PM	179.5	10.7
6/7/2019	3:46:42 PM	179.5	10.7
6/7/2019	3:46:43 PM	179.5	10.7
6/7/2019	3:46:44 PM	179.5	10.7
6/7/2019	3:46:45 PM	179.5	10.7
6/7/2019	3:46:46 PM	179.5	10.7
6/7/2019	3:46:47 PM	179.5	10.7
6/7/2019	3:46:48 PM	179.5	10.7
6/7/2019	3:46:49 PM	179.5	10.7
6/7/2019	3:46:50 PM	179.5	10.7
6/7/2019	3:46:51 PM	179.5	10.7
6/7/2019	3:46:52 PM	179.5	10.7
6/7/2019	3:46:53 PM	179.5	10.7
6/7/2019	3:46:54 PM	179.5	10.7
6/7/2019	3:46:55 PM	179.5	10.7
6/7/2019	3:46:56 PM	179.5	10.7
6/7/2019	3:46:57 PM	179.5	10.7
6/7/2019	3:46:58 PM	179.5	10.7
6/7/2019	3:46:59 PM	179.5	10.7
6/7/2019	3:47:00 PM	179.5	10.7
6/7/2019	3:47:01 PM	179.5	10.7
6/7/2019	3:47:02 PM	179.5	10.7
6/7/2019	3:47:03 PM	179.5	10.7
6/7/2019	3:47:04 PM	179.5	10.7
6/7/2019	3:47:05 PM	179.5	10.7
6/7/2019	3:47:06 PM	179.5	10.7
6/7/2019	3:47:07 PM	179.5	10.7
6/7/2019	3:47:08 PM	179.5	10.7
6/7/2019	3:47:09 PM	179.5	10.7
6/7/2019	3:47:10 PM	179.5	10.7
6/7/2019	3:47:11 PM	179.5	10.7
6/7/2019	3:47:12 PM	179.5	10.7
6/7/2019	3:47:13 PM	179.5	10.7
6/7/2019	3:47:14 PM	179.5	10.7
6/7/2019	3:47:15 PM	179.5	10.7
6/7/2019	3:47:16 PM	179.5	10.7
6/7/2019	3:47:17 PM	179.5	10.7
6/7/2019	3:47:18 PM	179.5	10.7
6/7/2019	3:47:19 PM	179.5	10.7
6/7/2019	3:47:20 PM	179.5	10.7
6/7/2019	3:47:21 PM	179.4	10.6
6/7/2019	3:47:22 PM	179.4	10.6
6/7/2019	3:47:23 PM	179.4	10.6
6/7/2019	3:47:24 PM	179.4	10.6
6/7/2019	3:47:25 PM	179.4	10.6
6/7/2019	3:47:26 PM	179.4	10.6
6/7/2019	3:47:27 PM	179.4	10.6
6/7/2019	3:47:28 PM	179.4	10.6
6/7/2019	3:47:29 PM	179.4	10.6
6/7/2019	3:47:30 PM	179.3	10.5
6/7/2019	3:47:31 PM	179.3	10.5
6/7/2019	3:47:32 PM	179.3	10.5
6/7/2019	3:47:33 PM	179.3	10.5
6/7/2019	3:47:34 PM	179.3	10.5
6/7/2019	3:47:35 PM	179.3	10.5
6/7/2019	3:47:36 PM	179.3	10.5
6/7/2019	3:47:37 PM	179.2	10.4
6/7/2019	3:47:38 PM	179.2	10.4
6/7/2019	3:47:39 PM	179.2	10.4

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:47:40 PM	179.2	10.4
6/7/2019	3:47:41 PM	179.2	10.4
6/7/2019	3:47:42 PM	179.2	10.4
6/7/2019	3:47:43 PM	179.2	10.4
6/7/2019	3:47:44 PM	179.1	10.3
6/7/2019	3:47:45 PM	179.1	10.3
6/7/2019	3:47:46 PM	179.1	10.3
6/7/2019	3:47:47 PM	179.1	10.3
6/7/2019	3:47:48 PM	179.1	10.3
6/7/2019	3:47:49 PM	179.1	10.3
6/7/2019	3:47:50 PM	179.1	10.3
6/7/2019	3:47:51 PM	179.0	10.2
6/7/2019	3:47:52 PM	179.0	10.2
6/7/2019	3:47:53 PM	179.0	10.2
6/7/2019	3:47:54 PM	179.0	10.2
6/7/2019	3:47:55 PM	179.0	10.2
6/7/2019	3:47:56 PM	179.0	10.2
6/7/2019	3:47:57 PM	179.0	10.2
6/7/2019	3:47:58 PM	179.0	10.2
6/7/2019	3:47:59 PM	179.0	10.2
6/7/2019	3:48:00 PM	178.9	10.1
6/7/2019	3:48:01 PM	178.9	10.1
6/7/2019	3:48:02 PM	178.9	10.1
6/7/2019	3:48:03 PM	178.9	10.1
6/7/2019	3:48:04 PM	178.9	10.1
6/7/2019	3:48:05 PM	178.9	10.1
6/7/2019	3:48:06 PM	178.8	10.0
6/7/2019	3:48:07 PM	178.8	10.0
6/7/2019	3:48:08 PM	178.8	10.0
6/7/2019	3:48:09 PM	178.8	10.0
6/7/2019	3:48:10 PM	178.8	10.0
6/7/2019	3:48:11 PM	178.7	9.9
6/7/2019	3:48:12 PM	178.7	9.9
6/7/2019	3:48:13 PM	178.7	9.9
6/7/2019	3:48:14 PM	178.7	9.9
6/7/2019	3:48:15 PM	178.6	9.8
6/7/2019	3:48:16 PM	178.6	9.8
6/7/2019	3:48:17 PM	178.6	9.8
6/7/2019	3:48:18 PM	178.6	9.8
6/7/2019	3:48:19 PM	178.6	9.8
6/7/2019	3:48:20 PM	178.5	9.7
6/7/2019	3:48:21 PM	178.5	9.7
6/7/2019	3:48:22 PM	178.5	9.7
6/7/2019	3:48:23 PM	178.5	9.7
6/7/2019	3:48:24 PM	178.5	9.7
6/7/2019	3:48:25 PM	178.4	9.6
6/7/2019	3:48:26 PM	178.4	9.6
6/7/2019	3:48:27 PM	178.4	9.6
6/7/2019	3:48:28 PM	178.4	9.6
6/7/2019	3:48:29 PM	178.4	9.6
6/7/2019	3:48:30 PM	178.4	9.6
6/7/2019	3:48:31 PM	178.4	9.6
6/7/2019	3:48:32 PM	178.3	9.5
6/7/2019	3:48:33 PM	178.3	9.5
6/7/2019	3:48:34 PM	178.3	9.5
6/7/2019	3:48:35 PM	178.3	9.5
6/7/2019	3:48:36 PM	178.3	9.5
6/7/2019	3:48:37 PM	178.3	9.5
6/7/2019	3:48:38 PM	178.3	9.5
6/7/2019	3:48:39 PM	178.3	9.5
6/7/2019	3:48:40 PM	178.3	9.5
6/7/2019	3:48:41 PM	178.3	9.5
6/7/2019	3:48:42 PM	178.3	9.5
6/7/2019	3:48:43 PM	178.3	9.5
6/7/2019	3:48:44 PM	178.3	9.5
6/7/2019	3:48:45 PM	178.3	9.5
6/7/2019	3:48:46 PM	178.3	9.5
6/7/2019	3:48:47 PM	178.3	9.5
6/7/2019	3:48:48 PM	178.3	9.5
6/7/2019	3:48:49 PM	178.3	9.5
6/7/2019	3:48:50 PM	178.3	9.5
6/7/2019	3:48:51 PM	178.3	9.5
6/7/2019	3:48:52 PM	178.3	9.5
6/7/2019	3:48:53 PM	178.3	9.5
6/7/2019	3:48:54 PM	178.3	9.5
6/7/2019	3:48:55 PM	178.3	9.5
6/7/2019	3:48:56 PM	178.3	9.5
6/7/2019	3:48:57 PM	178.3	9.5
6/7/2019	3:48:58 PM	178.3	9.5
6/7/2019	3:48:59 PM	178.3	9.5
6/7/2019	3:49:00 PM	178.3	9.5
6/7/2019	3:49:01 PM	178.3	9.5
6/7/2019	3:49:02 PM	178.3	9.5
6/7/2019	3:49:03 PM	178.4	9.6
6/7/2019	3:49:04 PM	178.4	9.6
6/7/2019	3:49:05 PM	178.4	9.6
6/7/2019	3:49:06 PM	178.4	9.6
6/7/2019	3:49:07 PM	178.4	9.6
6/7/2019	3:49:08 PM	178.4	9.6
6/7/2019	3:49:09 PM	178.4	9.6
6/7/2019	3:49:10 PM	178.4	9.6
6/7/2019	3:49:11 PM	178.4	9.6

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:49:12 PM	178.4	9.6
6/7/2019	3:49:13 PM	178.4	9.6
6/7/2019	3:49:14 PM	178.5	9.7
6/7/2019	3:49:15 PM	178.5	9.7
6/7/2019	3:49:16 PM	178.5	9.7
6/7/2019	3:49:17 PM	178.5	9.7
6/7/2019	3:49:18 PM	178.5	9.7
6/7/2019	3:49:19 PM	178.5	9.7
6/7/2019	3:49:20 PM	178.5	9.7
6/7/2019	3:49:21 PM	178.5	9.7
6/7/2019	3:49:22 PM	178.5	9.7
6/7/2019	3:49:23 PM	178.5	9.7
6/7/2019	3:49:24 PM	178.5	9.7
6/7/2019	3:49:25 PM	178.5	9.7
6/7/2019	3:49:26 PM	178.5	9.7
6/7/2019	3:49:27 PM	178.5	9.7
6/7/2019	3:49:28 PM	178.5	9.7
6/7/2019	3:49:29 PM	178.5	9.7
6/7/2019	3:49:30 PM	178.5	9.7
6/7/2019	3:49:31 PM	178.5	9.7
6/7/2019	3:49:32 PM	178.4	9.6
6/7/2019	3:49:33 PM	178.4	9.6
6/7/2019	3:49:34 PM	178.4	9.6
6/7/2019	3:49:35 PM	178.4	9.6
6/7/2019	3:49:36 PM	178.3	9.5
6/7/2019	3:49:37 PM	178.3	9.5
6/7/2019	3:49:38 PM	178.3	9.5
6/7/2019	3:49:39 PM	178.3	9.5
6/7/2019	3:49:40 PM	178.2	9.4
6/7/2019	3:49:41 PM	178.2	9.4
6/7/2019	3:49:42 PM	178.2	9.4
6/7/2019	3:49:43 PM	178.1	9.3
6/7/2019	3:49:44 PM	178.1	9.3
6/7/2019	3:49:45 PM	178.0	9.2
6/7/2019	3:49:46 PM	178.0	9.2
6/7/2019	3:49:47 PM	177.9	9.1
6/7/2019	3:49:48 PM	177.9	9.1
6/7/2019	3:49:49 PM	177.9	9.1
6/7/2019	3:49:50 PM	177.8	9.0
6/7/2019	3:49:51 PM	177.8	9.0
6/7/2019	3:49:52 PM	177.8	9.0
6/7/2019	3:49:53 PM	177.7	8.9
6/7/2019	3:49:54 PM	177.7	8.9
6/7/2019	3:49:55 PM	177.6	8.8
6/7/2019	3:49:56 PM	177.6	8.8
6/7/2019	3:49:57 PM	177.6	8.8
6/7/2019	3:49:58 PM	177.6	8.8
6/7/2019	3:49:59 PM	177.6	8.8
6/7/2019	3:50:00 PM	177.5	8.7
6/7/2019	3:50:01 PM	177.5	8.7
6/7/2019	3:50:02 PM	177.5	8.7
6/7/2019	3:50:03 PM	177.6	8.8
6/7/2019	3:50:04 PM	177.6	8.8
6/7/2019	3:50:05 PM	177.6	8.8
6/7/2019	3:50:06 PM	177.6	8.8
6/7/2019	3:50:07 PM	177.7	8.9
6/7/2019	3:50:08 PM	177.7	8.9
6/7/2019	3:50:09 PM	177.8	9.0
6/7/2019	3:50:10 PM	177.9	9.1
6/7/2019	3:50:11 PM	178.0	9.2
6/7/2019	3:50:12 PM	178.0	9.2
6/7/2019	3:50:13 PM	178.1	9.3
6/7/2019	3:50:14 PM	178.2	9.4
6/7/2019	3:50:15 PM	178.4	9.6
6/7/2019	3:50:16 PM	178.5	9.7
6/7/2019	3:50:17 PM	178.6	9.8
6/7/2019	3:50:18 PM	178.8	10.0
6/7/2019	3:50:19 PM	178.9	10.1
6/7/2019	3:50:20 PM	179.1	10.3
6/7/2019	3:50:21 PM	179.2	10.4
6/7/2019	3:50:22 PM	179.4	10.6
6/7/2019	3:50:23 PM	179.6	10.8
6/7/2019	3:50:24 PM	179.7	10.9
6/7/2019	3:50:25 PM	179.9	11.1
6/7/2019	3:50:26 PM	180.1	11.3
6/7/2019	3:50:27 PM	180.3	11.5
6/7/2019	3:50:28 PM	180.5	11.7
6/7/2019	3:50:29 PM	180.7	11.9
6/7/2019	3:50:30 PM	180.9	12.1
6/7/2019	3:50:31 PM	181.1	12.3
6/7/2019	3:50:32 PM	181.3	12.5
6/7/2019	3:50:33 PM	181.5	12.7
6/7/2019	3:50:34 PM	181.7	12.9
6/7/2019	3:50:35 PM	181.8	13.0
6/7/2019	3:50:36 PM	182.1	13.3
6/7/2019	3:50:37 PM	182.3	13.5
6/7/2019	3:50:38 PM	182.4	13.6
6/7/2019	3:50:39 PM	182.6	13.8
6/7/2019	3:50:40 PM	182.8	14.0
6/7/2019	3:50:41 PM	183.0	14.2
6/7/2019	3:50:42 PM	183.2	14.4
6/7/2019	3:50:43 PM	183.4	14.6

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:50:44 PM	183.6	14.8
6/7/2019	3:50:45 PM	183.8	15.0
6/7/2019	3:50:46 PM	184.0	15.2
6/7/2019	3:50:47 PM	184.2	15.4
6/7/2019	3:50:48 PM	184.3	15.5
6/7/2019	3:50:49 PM	184.5	15.7
6/7/2019	3:50:50 PM	184.7	15.9
6/7/2019	3:50:51 PM	184.9	16.1
6/7/2019	3:50:52 PM	185.0	16.2
6/7/2019	3:50:53 PM	185.2	16.4
6/7/2019	3:50:54 PM	185.3	16.5
6/7/2019	3:50:55 PM	185.5	16.7
6/7/2019	3:50:56 PM	185.7	16.9
6/7/2019	3:50:57 PM	185.8	17.0
6/7/2019	3:50:58 PM	185.9	17.1
6/7/2019	3:50:59 PM	186.1	17.3
6/7/2019	3:51:00 PM	186.2	17.4
6/7/2019	3:51:01 PM	186.3	17.5
6/7/2019	3:51:02 PM	186.4	17.6
6/7/2019	3:51:03 PM	186.5	17.7
6/7/2019	3:51:04 PM	186.6	17.8
6/7/2019	3:51:05 PM	186.7	17.9
6/7/2019	3:51:06 PM	186.8	18.0
6/7/2019	3:51:07 PM	186.9	18.1
6/7/2019	3:51:08 PM	187.0	18.2
6/7/2019	3:51:09 PM	187.1	18.3
6/7/2019	3:51:10 PM	187.1	18.3
6/7/2019	3:51:11 PM	187.2	18.4
6/7/2019	3:51:12 PM	187.3	18.5
6/7/2019	3:51:13 PM	187.3	18.5
6/7/2019	3:51:14 PM	187.4	18.6
6/7/2019	3:51:15 PM	187.4	18.6
6/7/2019	3:51:16 PM	187.4	18.6
6/7/2019	3:51:17 PM	187.5	18.7
6/7/2019	3:51:18 PM	187.5	18.7
6/7/2019	3:51:19 PM	187.5	18.7
6/7/2019	3:51:20 PM	187.6	18.8
6/7/2019	3:51:21 PM	187.6	18.8
6/7/2019	3:51:22 PM	187.6	18.8
6/7/2019	3:51:23 PM	187.6	18.8
6/7/2019	3:51:24 PM	187.6	18.8
6/7/2019	3:51:25 PM	187.6	18.8
6/7/2019	3:51:26 PM	187.6	18.8
6/7/2019	3:51:27 PM	187.5	18.7
6/7/2019	3:51:28 PM	187.5	18.7
6/7/2019	3:51:29 PM	187.5	18.7
6/7/2019	3:51:30 PM	187.5	18.7
6/7/2019	3:51:31 PM	187.4	18.6
6/7/2019	3:51:32 PM	187.4	18.6
6/7/2019	3:51:33 PM	187.4	18.6
6/7/2019	3:51:34 PM	187.3	18.5
6/7/2019	3:51:35 PM	187.3	18.5
6/7/2019	3:51:36 PM	187.2	18.4
6/7/2019	3:51:37 PM	187.2	18.4
6/7/2019	3:51:38 PM	187.1	18.3
6/7/2019	3:51:39 PM	187.1	18.3
6/7/2019	3:51:40 PM	187.0	18.2
6/7/2019	3:51:41 PM	186.9	18.1
6/7/2019	3:51:42 PM	186.9	18.1
6/7/2019	3:51:43 PM	186.8	18.0
6/7/2019	3:51:44 PM	186.8	18.0
6/7/2019	3:51:45 PM	186.7	17.9
6/7/2019	3:51:46 PM	186.7	17.9
6/7/2019	3:51:47 PM	186.6	17.8
6/7/2019	3:51:48 PM	186.6	17.8
6/7/2019	3:51:49 PM	186.5	17.7
6/7/2019	3:51:50 PM	186.5	17.7
6/7/2019	3:51:51 PM	186.4	17.6
6/7/2019	3:51:52 PM	186.4	17.6
6/7/2019	3:51:53 PM	186.3	17.5
6/7/2019	3:51:54 PM	186.3	17.5
6/7/2019	3:51:55 PM	186.2	17.4
6/7/2019	3:51:56 PM	186.2	17.4
6/7/2019	3:51:57 PM	186.2	17.4
6/7/2019	3:51:58 PM	186.1	17.3
6/7/2019	3:51:59 PM	186.1	17.3
6/7/2019	3:52:00 PM	186.0	17.2
6/7/2019	3:52:01 PM	186.0	17.2
6/7/2019	3:52:02 PM	185.9	17.1
6/7/2019	3:52:03 PM	185.9	17.1
6/7/2019	3:52:04 PM	185.9	17.1
6/7/2019	3:52:05 PM	185.8	17.0
6/7/2019	3:52:06 PM	185.8	17.0
6/7/2019	3:52:07 PM	185.7	16.9
6/7/2019	3:52:08 PM	185.7	16.9
6/7/2019	3:52:09 PM	185.7	16.9
6/7/2019	3:52:10 PM	185.6	16.8
6/7/2019	3:52:11 PM	185.6	16.8
6/7/2019	3:52:12 PM	185.6	16.8
6/7/2019	3:52:13 PM	185.5	16.7
6/7/2019	3:52:14 PM	185.5	16.7
6/7/2019	3:52:15 PM	185.4	16.6

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:52:16 PM	185.4	16.6
6/7/2019	3:52:17 PM	185.4	16.6
6/7/2019	3:52:18 PM	185.3	16.5
6/7/2019	3:52:19 PM	185.3	16.5
6/7/2019	3:52:20 PM	185.2	16.4
6/7/2019	3:52:21 PM	185.2	16.4
6/7/2019	3:52:22 PM	185.2	16.4
6/7/2019	3:52:23 PM	185.1	16.3
6/7/2019	3:52:24 PM	185.1	16.3
6/7/2019	3:52:25 PM	185.0	16.2
6/7/2019	3:52:26 PM	185.0	16.2
6/7/2019	3:52:27 PM	185.0	16.2
6/7/2019	3:52:28 PM	184.9	16.1
6/7/2019	3:52:29 PM	184.9	16.1
6/7/2019	3:52:30 PM	184.8	16.0
6/7/2019	3:52:31 PM	184.8	16.0
6/7/2019	3:52:32 PM	184.8	16.0
6/7/2019	3:52:33 PM	184.7	15.9
6/7/2019	3:52:34 PM	184.7	15.9
6/7/2019	3:52:35 PM	184.7	15.9
6/7/2019	3:52:36 PM	184.6	15.8
6/7/2019	3:52:37 PM	184.6	15.8
6/7/2019	3:52:38 PM	184.6	15.8
6/7/2019	3:52:39 PM	184.6	15.8
6/7/2019	3:52:40 PM	184.5	15.7
6/7/2019	3:52:41 PM	184.5	15.7
6/7/2019	3:52:42 PM	184.5	15.7
6/7/2019	3:52:43 PM	184.5	15.7
6/7/2019	3:52:44 PM	184.4	15.6
6/7/2019	3:52:45 PM	184.4	15.6
6/7/2019	3:52:46 PM	184.4	15.6
6/7/2019	3:52:47 PM	184.4	15.6
6/7/2019	3:52:48 PM	184.4	15.6
6/7/2019	3:52:49 PM	184.3	15.5
6/7/2019	3:52:50 PM	184.3	15.5
6/7/2019	3:52:51 PM	184.3	15.5
6/7/2019	3:52:52 PM	184.2	15.4
6/7/2019	3:52:53 PM	184.2	15.4
6/7/2019	3:52:54 PM	184.2	15.4
6/7/2019	3:52:55 PM	184.2	15.4
6/7/2019	3:52:56 PM	184.1	15.3
6/7/2019	3:52:57 PM	184.1	15.3
6/7/2019	3:52:58 PM	184.1	15.3
6/7/2019	3:52:59 PM	184.0	15.2
6/7/2019	3:53:00 PM	184.0	15.2
6/7/2019	3:53:01 PM	183.9	15.1
6/7/2019	3:53:02 PM	183.9	15.1
6/7/2019	3:53:03 PM	183.8	15.0
6/7/2019	3:53:04 PM	183.8	15.0
6/7/2019	3:53:05 PM	183.8	15.0
6/7/2019	3:53:06 PM	183.7	14.9
6/7/2019	3:53:07 PM	183.6	14.8
6/7/2019	3:53:08 PM	183.6	14.8
6/7/2019	3:53:09 PM	183.5	14.7
6/7/2019	3:53:10 PM	183.4	14.6
6/7/2019	3:53:11 PM	183.4	14.6
6/7/2019	3:53:12 PM	183.3	14.5
6/7/2019	3:53:13 PM	183.2	14.4
6/7/2019	3:53:14 PM	183.2	14.4
6/7/2019	3:53:15 PM	183.1	14.3
6/7/2019	3:53:16 PM	183.0	14.2
6/7/2019	3:53:17 PM	183.0	14.2
6/7/2019	3:53:18 PM	182.9	14.1
6/7/2019	3:53:19 PM	182.8	14.0
6/7/2019	3:53:20 PM	182.7	13.9
6/7/2019	3:53:21 PM	182.7	13.9
6/7/2019	3:53:22 PM	182.6	13.8
6/7/2019	3:53:23 PM	182.5	13.7
6/7/2019	3:53:24 PM	182.5	13.7
6/7/2019	3:53:25 PM	182.4	13.6
6/7/2019	3:53:26 PM	182.3	13.5
6/7/2019	3:53:27 PM	182.2	13.4
6/7/2019	3:53:28 PM	182.2	13.4
6/7/2019	3:53:29 PM	182.1	13.3
6/7/2019	3:53:30 PM	182.0	13.2
6/7/2019	3:53:31 PM	181.9	13.1
6/7/2019	3:53:32 PM	181.9	13.1
6/7/2019	3:53:33 PM	181.8	13.0
6/7/2019	3:53:34 PM	181.8	13.0
6/7/2019	3:53:35 PM	181.7	12.9
6/7/2019	3:53:36 PM	181.6	12.8
6/7/2019	3:53:37 PM	181.6	12.8
6/7/2019	3:53:38 PM	181.5	12.7
6/7/2019	3:53:39 PM	181.5	12.7
6/7/2019	3:53:40 PM	181.4	12.6
6/7/2019	3:53:41 PM	181.4	12.6
6/7/2019	3:53:42 PM	181.3	12.5
6/7/2019	3:53:43 PM	181.3	12.5
6/7/2019	3:53:44 PM	181.2	12.4
6/7/2019	3:53:45 PM	181.2	12.4
6/7/2019	3:53:46 PM	181.2	12.4
6/7/2019	3:53:47 PM	181.1	12.3

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:53:48 PM	181.1	12.3
6/7/2019	3:53:49 PM	181.1	12.3
6/7/2019	3:53:50 PM	181.0	12.2
6/7/2019	3:53:51 PM	181.0	12.2
6/7/2019	3:53:52 PM	181.0	12.2
6/7/2019	3:53:53 PM	181.0	12.2
6/7/2019	3:53:54 PM	180.9	12.1
6/7/2019	3:53:55 PM	180.9	12.1
6/7/2019	3:53:56 PM	180.9	12.1
6/7/2019	3:53:57 PM	180.9	12.1
6/7/2019	3:53:58 PM	180.9	12.1
6/7/2019	3:53:59 PM	180.8	12.0
6/7/2019	3:54:00 PM	180.8	12.0
6/7/2019	3:54:01 PM	180.8	12.0
6/7/2019	3:54:02 PM	180.8	12.0
6/7/2019	3:54:03 PM	180.8	12.0
6/7/2019	3:54:04 PM	180.8	12.0
6/7/2019	3:54:05 PM	180.8	12.0
6/7/2019	3:54:06 PM	180.7	11.9
6/7/2019	3:54:07 PM	180.7	11.9
6/7/2019	3:54:08 PM	180.7	11.9
6/7/2019	3:54:09 PM	180.7	11.9
6/7/2019	3:54:10 PM	180.7	11.9
6/7/2019	3:54:11 PM	180.6	11.8
6/7/2019	3:54:12 PM	180.6	11.8
6/7/2019	3:54:13 PM	180.6	11.8
6/7/2019	3:54:14 PM	180.6	11.8
6/7/2019	3:54:15 PM	180.5	11.7
6/7/2019	3:54:16 PM	180.5	11.7
6/7/2019	3:54:17 PM	180.5	11.7
6/7/2019	3:54:18 PM	180.5	11.7
6/7/2019	3:54:19 PM	180.5	11.7
6/7/2019	3:54:20 PM	180.4	11.6
6/7/2019	3:54:21 PM	180.4	11.6
6/7/2019	3:54:22 PM	180.4	11.6
6/7/2019	3:54:23 PM	180.4	11.6
6/7/2019	3:54:24 PM	180.4	11.6
6/7/2019	3:54:25 PM	180.3	11.5
6/7/2019	3:54:26 PM	180.3	11.5
6/7/2019	3:54:27 PM	180.3	11.5
6/7/2019	3:54:28 PM	180.3	11.5
6/7/2019	3:54:29 PM	180.3	11.5
6/7/2019	3:54:30 PM	180.2	11.4
6/7/2019	3:54:31 PM	180.2	11.4
6/7/2019	3:54:32 PM	180.2	11.4
6/7/2019	3:54:33 PM	180.2	11.4
6/7/2019	3:54:34 PM	180.1	11.3
6/7/2019	3:54:35 PM	180.1	11.3
6/7/2019	3:54:36 PM	180.1	11.3
6/7/2019	3:54:37 PM	180.1	11.3
6/7/2019	3:54:38 PM	180.0	11.2
6/7/2019	3:54:39 PM	180.0	11.2
6/7/2019	3:54:40 PM	180.0	11.2
6/7/2019	3:54:41 PM	180.0	11.2
6/7/2019	3:54:42 PM	179.9	11.1
6/7/2019	3:54:43 PM	179.9	11.1
6/7/2019	3:54:44 PM	179.9	11.1
6/7/2019	3:54:45 PM	179.9	11.1
6/7/2019	3:54:46 PM	179.9	11.1
6/7/2019	3:54:47 PM	179.8	11.0
6/7/2019	3:54:48 PM	179.8	11.0
6/7/2019	3:54:49 PM	179.8	11.0
6/7/2019	3:54:50 PM	179.8	11.0
6/7/2019	3:54:51 PM	179.8	11.0
6/7/2019	3:54:52 PM	179.8	11.0
6/7/2019	3:54:53 PM	179.7	10.9
6/7/2019	3:54:54 PM	179.7	10.9
6/7/2019	3:54:55 PM	179.7	10.9
6/7/2019	3:54:56 PM	179.7	10.9
6/7/2019	3:54:57 PM	179.7	10.9
6/7/2019	3:54:58 PM	179.7	10.9
6/7/2019	3:54:59 PM	179.7	10.9
6/7/2019	3:55:00 PM	179.7	10.9
6/7/2019	3:55:01 PM	179.7	10.9
6/7/2019	3:55:02 PM	179.6	10.8
6/7/2019	3:55:03 PM	179.6	10.8
6/7/2019	3:55:04 PM	179.6	10.8
6/7/2019	3:55:05 PM	179.6	10.8
6/7/2019	3:55:06 PM	179.6	10.8
6/7/2019	3:55:07 PM	179.6	10.8
6/7/2019	3:55:08 PM	179.6	10.8
6/7/2019	3:55:09 PM	179.5	10.7
6/7/2019	3:55:10 PM	179.5	10.7
6/7/2019	3:55:11 PM	179.5	10.7
6/7/2019	3:55:12 PM	179.5	10.7
6/7/2019	3:55:13 PM	179.5	10.7
6/7/2019	3:55:14 PM	179.5	10.7
6/7/2019	3:55:15 PM	179.5	10.7
6/7/2019	3:55:16 PM	179.5	10.7
6/7/2019	3:55:17 PM	179.5	10.7
6/7/2019	3:55:18 PM	179.5	10.7
6/7/2019	3:55:19 PM	179.4	10.6

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:55:20 PM	179.4	10.6
6/7/2019	3:55:21 PM	179.4	10.6
6/7/2019	3:55:22 PM	179.4	10.6
6/7/2019	3:55:23 PM	179.4	10.6
6/7/2019	3:55:24 PM	179.4	10.6
6/7/2019	3:55:25 PM	179.4	10.6
6/7/2019	3:55:26 PM	179.4	10.6
6/7/2019	3:55:27 PM	179.3	10.5
6/7/2019	3:55:28 PM	179.3	10.5
6/7/2019	3:55:29 PM	179.3	10.5
6/7/2019	3:55:30 PM	179.3	10.5
6/7/2019	3:55:31 PM	179.2	10.4
6/7/2019	3:55:32 PM	179.2	10.4
6/7/2019	3:55:33 PM	179.2	10.4
6/7/2019	3:55:34 PM	179.1	10.3
6/7/2019	3:55:35 PM	179.1	10.3
6/7/2019	3:55:36 PM	179.1	10.3
6/7/2019	3:55:37 PM	179.0	10.2
6/7/2019	3:55:38 PM	179.0	10.2
6/7/2019	3:55:39 PM	179.0	10.2
6/7/2019	3:55:40 PM	179.0	10.2
6/7/2019	3:55:41 PM	179.0	10.2
6/7/2019	3:55:42 PM	178.9	10.1
6/7/2019	3:55:43 PM	178.9	10.1
6/7/2019	3:55:44 PM	178.9	10.1
6/7/2019	3:55:45 PM	178.9	10.1
6/7/2019	3:55:46 PM	178.9	10.1
6/7/2019	3:55:47 PM	178.9	10.1
6/7/2019	3:55:48 PM	178.8	10.0
6/7/2019	3:55:49 PM	178.8	10.0
6/7/2019	3:55:50 PM	178.8	10.0
6/7/2019	3:55:51 PM	178.8	10.0
6/7/2019	3:55:52 PM	178.8	10.0
6/7/2019	3:55:53 PM	178.8	10.0
6/7/2019	3:55:54 PM	178.8	10.0
6/7/2019	3:55:55 PM	178.7	9.9
6/7/2019	3:55:56 PM	178.7	9.9
6/7/2019	3:55:57 PM	178.7	9.9
6/7/2019	3:55:58 PM	178.7	9.9
6/7/2019	3:55:59 PM	178.7	9.9
6/7/2019	3:56:00 PM	178.7	9.9
6/7/2019	3:56:01 PM	178.6	9.8
6/7/2019	3:56:02 PM	178.6	9.8
6/7/2019	3:56:03 PM	178.6	9.8
6/7/2019	3:56:04 PM	178.6	9.8
6/7/2019	3:56:05 PM	178.6	9.8
6/7/2019	3:56:06 PM	178.5	9.7
6/7/2019	3:56:07 PM	178.5	9.7
6/7/2019	3:56:08 PM	178.5	9.7
6/7/2019	3:56:09 PM	178.5	9.7
6/7/2019	3:56:10 PM	178.4	9.6
6/7/2019	3:56:11 PM	178.4	9.6
6/7/2019	3:56:12 PM	178.4	9.6
6/7/2019	3:56:13 PM	178.4	9.6
6/7/2019	3:56:14 PM	178.4	9.6
6/7/2019	3:56:15 PM	178.4	9.6
6/7/2019	3:56:16 PM	178.3	9.5
6/7/2019	3:56:17 PM	178.3	9.5
6/7/2019	3:56:18 PM	178.3	9.5
6/7/2019	3:56:19 PM	178.3	9.5
6/7/2019	3:56:20 PM	178.3	9.5
6/7/2019	3:56:21 PM	178.2	9.4
6/7/2019	3:56:22 PM	178.2	9.4
6/7/2019	3:56:23 PM	178.2	9.4
6/7/2019	3:56:24 PM	178.1	9.3
6/7/2019	3:56:25 PM	178.1	9.3
6/7/2019	3:56:26 PM	178.1	9.3
6/7/2019	3:56:27 PM	178.0	9.2
6/7/2019	3:56:28 PM	178.0	9.2
6/7/2019	3:56:29 PM	178.0	9.2
6/7/2019	3:56:30 PM	177.9	9.1
6/7/2019	3:56:31 PM	177.9	9.1
6/7/2019	3:56:32 PM	177.9	9.1
6/7/2019	3:56:33 PM	177.8	9.0
6/7/2019	3:56:34 PM	177.8	9.0
6/7/2019	3:56:35 PM	177.7	8.9
6/7/2019	3:56:36 PM	177.7	8.9
6/7/2019	3:56:37 PM	177.7	8.9
6/7/2019	3:56:38 PM	177.6	8.8
6/7/2019	3:56:39 PM	177.6	8.8
6/7/2019	3:56:40 PM	177.6	8.8
6/7/2019	3:56:41 PM	177.5	8.7
6/7/2019	3:56:42 PM	177.5	8.7
6/7/2019	3:56:43 PM	177.5	8.7
6/7/2019	3:56:44 PM	177.4	8.6
6/7/2019	3:56:45 PM	177.4	8.6
6/7/2019	3:56:46 PM	177.4	8.6
6/7/2019	3:56:47 PM	177.3	8.5
6/7/2019	3:56:48 PM	177.3	8.5
6/7/2019	3:56:49 PM	177.3	8.5
6/7/2019	3:56:50 PM	177.2	8.4
6/7/2019	3:56:51 PM	177.2	8.4

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:56:52 PM	177.2	8.4
6/7/2019	3:56:53 PM	177.1	8.3
6/7/2019	3:56:54 PM	177.1	8.3
6/7/2019	3:56:55 PM	177.0	8.2
6/7/2019	3:56:56 PM	177.0	8.2
6/7/2019	3:56:57 PM	176.9	8.1
6/7/2019	3:56:58 PM	176.9	8.1
6/7/2019	3:56:59 PM	176.8	8.0
6/7/2019	3:57:00 PM	176.8	8.0
6/7/2019	3:57:01 PM	176.7	7.9
6/7/2019	3:57:02 PM	176.7	7.9
6/7/2019	3:57:03 PM	176.7	7.9
6/7/2019	3:57:04 PM	176.6	7.8
6/7/2019	3:57:05 PM	176.6	7.8
6/7/2019	3:57:06 PM	176.5	7.7
6/7/2019	3:57:07 PM	176.5	7.7
6/7/2019	3:57:08 PM	176.5	7.7
6/7/2019	3:57:09 PM	176.4	7.6
6/7/2019	3:57:10 PM	176.4	7.6
6/7/2019	3:57:11 PM	176.4	7.6
6/7/2019	3:57:12 PM	176.3	7.5
6/7/2019	3:57:13 PM	176.3	7.5
6/7/2019	3:57:14 PM	176.3	7.5
6/7/2019	3:57:15 PM	176.2	7.4
6/7/2019	3:57:16 PM	176.2	7.4
6/7/2019	3:57:17 PM	176.2	7.4
6/7/2019	3:57:18 PM	176.2	7.4
6/7/2019	3:57:19 PM	176.1	7.3
6/7/2019	3:57:20 PM	176.1	7.3
6/7/2019	3:57:21 PM	176.1	7.3
6/7/2019	3:57:22 PM	176.1	7.3
6/7/2019	3:57:23 PM	176.0	7.2
6/7/2019	3:57:24 PM	176.0	7.2
6/7/2019	3:57:25 PM	176.0	7.2
6/7/2019	3:57:26 PM	176.0	7.2
6/7/2019	3:57:27 PM	176.0	7.2
6/7/2019	3:57:28 PM	176.0	7.2
6/7/2019	3:57:29 PM	176.0	7.2
6/7/2019	3:57:30 PM	175.9	7.1
6/7/2019	3:57:31 PM	175.9	7.1
6/7/2019	3:57:32 PM	175.9	7.1
6/7/2019	3:57:33 PM	175.9	7.1
6/7/2019	3:57:34 PM	175.9	7.1
6/7/2019	3:57:35 PM	175.9	7.1
6/7/2019	3:57:36 PM	175.8	7.0
6/7/2019	3:57:37 PM	175.8	7.0
6/7/2019	3:57:38 PM	175.8	7.0
6/7/2019	3:57:39 PM	175.8	7.0
6/7/2019	3:57:40 PM	175.8	7.0
6/7/2019	3:57:41 PM	175.7	6.9
6/7/2019	3:57:42 PM	175.7	6.9
6/7/2019	3:57:43 PM	175.7	6.9
6/7/2019	3:57:44 PM	175.7	6.9
6/7/2019	3:57:45 PM	175.6	6.8
6/7/2019	3:57:46 PM	175.6	6.8
6/7/2019	3:57:47 PM	175.6	6.8
6/7/2019	3:57:48 PM	175.5	6.7
6/7/2019	3:57:49 PM	175.5	6.7
6/7/2019	3:57:50 PM	175.4	6.6
6/7/2019	3:57:51 PM	175.4	6.6
6/7/2019	3:57:52 PM	175.4	6.6
6/7/2019	3:57:53 PM	175.3	6.5
6/7/2019	3:57:54 PM	175.3	6.5
6/7/2019	3:57:55 PM	175.2	6.4
6/7/2019	3:57:56 PM	175.2	6.4
6/7/2019	3:57:57 PM	175.2	6.4
6/7/2019	3:57:58 PM	175.1	6.3
6/7/2019	3:57:59 PM	175.1	6.3
6/7/2019	3:58:00 PM	175.1	6.3
6/7/2019	3:58:01 PM	175.0	6.2
6/7/2019	3:58:02 PM	175.0	6.2
6/7/2019	3:58:03 PM	175.0	6.2
6/7/2019	3:58:04 PM	174.9	6.1
6/7/2019	3:58:05 PM	174.9	6.1
6/7/2019	3:58:06 PM	174.9	6.1
6/7/2019	3:58:07 PM	174.8	6.0
6/7/2019	3:58:08 PM	174.8	6.0
6/7/2019	3:58:09 PM	174.8	6.0
6/7/2019	3:58:10 PM	174.7	5.9
6/7/2019	3:58:11 PM	174.7	5.9
6/7/2019	3:58:12 PM	174.7	5.9
6/7/2019	3:58:13 PM	174.7	5.9
6/7/2019	3:58:14 PM	174.7	5.9
6/7/2019	3:58:15 PM	174.6	5.8
6/7/2019	3:58:16 PM	174.6	5.8
6/7/2019	3:58:17 PM	174.6	5.8
6/7/2019	3:58:18 PM	174.6	5.8
6/7/2019	3:58:19 PM	174.5	5.7
6/7/2019	3:58:20 PM	174.5	5.7
6/7/2019	3:58:21 PM	174.5	5.7
6/7/2019	3:58:22 PM	174.5	5.7
6/7/2019	3:58:23 PM	174.5	5.7

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:58:24 PM	174.4	5.6
6/7/2019	3:58:25 PM	174.4	5.6
6/7/2019	3:58:26 PM	174.4	5.6
6/7/2019	3:58:27 PM	174.4	5.6
6/7/2019	3:58:28 PM	174.3	5.5
6/7/2019	3:58:29 PM	174.3	5.5
6/7/2019	3:58:30 PM	174.3	5.5
6/7/2019	3:58:31 PM	174.3	5.5
6/7/2019	3:58:32 PM	174.2	5.4
6/7/2019	3:58:33 PM	174.2	5.4
6/7/2019	3:58:34 PM	174.2	5.4
6/7/2019	3:58:35 PM	174.2	5.4
6/7/2019	3:58:36 PM	174.1	5.3
6/7/2019	3:58:37 PM	174.1	5.3
6/7/2019	3:58:38 PM	174.1	5.3
6/7/2019	3:58:39 PM	174.1	5.3
6/7/2019	3:58:40 PM	174.1	5.3
6/7/2019	3:58:41 PM	174.0	5.2
6/7/2019	3:58:42 PM	174.0	5.2
6/7/2019	3:58:43 PM	174.0	5.2
6/7/2019	3:58:44 PM	174.0	5.2
6/7/2019	3:58:45 PM	174.0	5.2
6/7/2019	3:58:46 PM	173.9	5.1
6/7/2019	3:58:47 PM	173.9	5.1
6/7/2019	3:58:48 PM	173.9	5.1
6/7/2019	3:58:49 PM	173.9	5.1
6/7/2019	3:58:50 PM	173.9	5.1
6/7/2019	3:58:51 PM	173.9	5.1
6/7/2019	3:58:52 PM	173.9	5.1
6/7/2019	3:58:53 PM	173.8	5.0
6/7/2019	3:58:54 PM	173.8	5.0
6/7/2019	3:58:55 PM	173.8	5.0
6/7/2019	3:58:56 PM	173.8	5.0
6/7/2019	3:58:57 PM	173.8	5.0
6/7/2019	3:58:58 PM	173.8	5.0
6/7/2019	3:58:59 PM	173.8	5.0
6/7/2019	3:59:00 PM	173.8	5.0
6/7/2019	3:59:01 PM	173.7	4.9
6/7/2019	3:59:02 PM	173.7	4.9
6/7/2019	3:59:03 PM	173.7	4.9
6/7/2019	3:59:04 PM	173.7	4.9
6/7/2019	3:59:05 PM	173.7	4.9
6/7/2019	3:59:06 PM	173.7	4.9
6/7/2019	3:59:07 PM	173.7	4.9
6/7/2019	3:59:08 PM	173.7	4.9
6/7/2019	3:59:09 PM	173.7	4.9
6/7/2019	3:59:10 PM	173.7	4.9
6/7/2019	3:59:11 PM	173.7	4.9
6/7/2019	3:59:12 PM	173.6	4.8
6/7/2019	3:59:13 PM	173.6	4.8
6/7/2019	3:59:14 PM	173.6	4.8
6/7/2019	3:59:15 PM	173.6	4.8
6/7/2019	3:59:16 PM	173.6	4.8
6/7/2019	3:59:17 PM	173.6	4.8
6/7/2019	3:59:18 PM	173.5	4.7
6/7/2019	3:59:19 PM	173.5	4.7
6/7/2019	3:59:20 PM	173.5	4.7
6/7/2019	3:59:21 PM	173.5	4.7
6/7/2019	3:59:22 PM	173.4	4.6
6/7/2019	3:59:23 PM	173.4	4.6
6/7/2019	3:59:24 PM	173.4	4.6
6/7/2019	3:59:25 PM	173.4	4.6
6/7/2019	3:59:26 PM	173.3	4.5
6/7/2019	3:59:27 PM	173.3	4.5
6/7/2019	3:59:28 PM	173.3	4.5
6/7/2019	3:59:29 PM	173.3	4.5
6/7/2019	3:59:30 PM	173.3	4.5
6/7/2019	3:59:31 PM	173.2	4.4
6/7/2019	3:59:32 PM	173.2	4.4
6/7/2019	3:59:33 PM	173.2	4.4
6/7/2019	3:59:34 PM	173.2	4.4
6/7/2019	3:59:35 PM	173.2	4.4
6/7/2019	3:59:36 PM	173.2	4.4
6/7/2019	3:59:37 PM	173.2	4.4
6/7/2019	3:59:38 PM	173.1	4.3
6/7/2019	3:59:39 PM	173.1	4.3
6/7/2019	3:59:40 PM	173.1	4.3
6/7/2019	3:59:41 PM	173.1	4.3
6/7/2019	3:59:42 PM	173.1	4.3
6/7/2019	3:59:43 PM	173.1	4.3
6/7/2019	3:59:44 PM	173.1	4.3
6/7/2019	3:59:45 PM	173.1	4.3
6/7/2019	3:59:46 PM	173.1	4.3
6/7/2019	3:59:47 PM	173.1	4.3
6/7/2019	3:59:48 PM	173.1	4.3
6/7/2019	3:59:49 PM	173.1	4.3
6/7/2019	3:59:50 PM	173.1	4.3
6/7/2019	3:59:51 PM	173.1	4.3
6/7/2019	3:59:52 PM	173.1	4.3
6/7/2019	3:59:53 PM	173.1	4.3
6/7/2019	3:59:54 PM	173.1	4.3
6/7/2019	3:59:55 PM	173.1	4.3

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:59:56 PM	173.0	4.2
6/7/2019	3:59:57 PM	173.0	4.2
6/7/2019	3:59:58 PM	173.0	4.2
6/7/2019	3:59:59 PM	173.0	4.2
6/7/2019	4:00:00 PM	173.0	4.2
6/7/2019	4:00:01 PM	173.0	4.2
6/7/2019	4:00:02 PM	173.0	4.2
6/7/2019	4:00:03 PM	173.0	4.2
6/7/2019	4:00:04 PM	173.0	4.2
6/7/2019	4:00:05 PM	172.9	4.1
6/7/2019	4:00:06 PM	172.9	4.1
6/7/2019	4:00:07 PM	172.9	4.1
6/7/2019	4:00:08 PM	172.9	4.1
6/7/2019	4:00:09 PM	172.9	4.1
6/7/2019	4:00:10 PM	172.8	4.0
6/7/2019	4:00:11 PM	172.8	4.0
6/7/2019	4:00:12 PM	172.8	4.0
6/7/2019	4:00:13 PM	172.8	4.0
6/7/2019	4:00:14 PM	172.7	3.9
6/7/2019	4:00:15 PM	172.7	3.9
6/7/2019	4:00:16 PM	172.7	3.9
6/7/2019	4:00:17 PM	172.7	3.9
6/7/2019	4:00:18 PM	172.6	3.8
6/7/2019	4:00:19 PM	172.6	3.8
6/7/2019	4:00:20 PM	172.6	3.8
6/7/2019	4:00:21 PM	172.6	3.8
6/7/2019	4:00:22 PM	172.5	3.7
6/7/2019	4:00:23 PM	172.5	3.7
6/7/2019	4:00:24 PM	172.5	3.7
6/7/2019	4:00:25 PM	172.5	3.7
6/7/2019	4:00:26 PM	172.4	3.6
6/7/2019	4:00:27 PM	172.4	3.6
6/7/2019	4:00:28 PM	172.4	3.6
6/7/2019	4:00:29 PM	172.4	3.6
6/7/2019	4:00:30 PM	172.4	3.6
6/7/2019	4:00:31 PM	172.3	3.5
6/7/2019	4:00:32 PM	172.3	3.5
6/7/2019	4:00:33 PM	172.3	3.5
6/7/2019	4:00:34 PM	172.3	3.5
6/7/2019	4:00:35 PM	172.3	3.5
6/7/2019	4:00:36 PM	172.3	3.5
6/7/2019	4:00:37 PM	172.2	3.4
6/7/2019	4:00:38 PM	172.2	3.4
6/7/2019	4:00:39 PM	172.2	3.4
6/7/2019	4:00:40 PM	172.2	3.4
6/7/2019	4:00:41 PM	172.2	3.4
6/7/2019	4:00:42 PM	172.2	3.4
6/7/2019	4:00:43 PM	172.2	3.4
6/7/2019	4:00:44 PM	172.2	3.4
6/7/2019	4:00:45 PM	172.1	3.3
6/7/2019	4:00:46 PM	172.1	3.3
6/7/2019	4:00:47 PM	172.1	3.3
6/7/2019	4:00:48 PM	172.1	3.3
6/7/2019	4:00:49 PM	172.1	3.3
6/7/2019	4:00:50 PM	172.1	3.3
6/7/2019	4:00:51 PM	172.1	3.3
6/7/2019	4:00:52 PM	172.1	3.3
6/7/2019	4:00:53 PM	172.0	3.2
6/7/2019	4:00:54 PM	172.0	3.2
6/7/2019	4:00:55 PM	172.0	3.2
6/7/2019	4:00:56 PM	172.0	3.2
6/7/2019	4:00:57 PM	172.0	3.2
6/7/2019	4:00:58 PM	172.0	3.2
6/7/2019	4:00:59 PM	172.0	3.2
6/7/2019	4:01:00 PM	172.0	3.2
6/7/2019	4:01:01 PM	172.0	3.2
6/7/2019	4:01:02 PM	171.9	3.1
6/7/2019	4:01:03 PM	171.9	3.1
6/7/2019	4:01:04 PM	171.9	3.1
6/7/2019	4:01:05 PM	171.9	3.1
6/7/2019	4:01:06 PM	171.9	3.1
6/7/2019	4:01:07 PM	171.9	3.1
6/7/2019	4:01:08 PM	171.9	3.1
6/7/2019	4:01:09 PM	171.8	3.0
6/7/2019	4:01:10 PM	171.8	3.0
6/7/2019	4:01:11 PM	171.8	3.0
6/7/2019	4:01:12 PM	171.8	3.0
6/7/2019	4:01:13 PM	171.8	3.0
6/7/2019	4:01:14 PM	171.8	3.0
6/7/2019	4:01:15 PM	171.8	3.0
6/7/2019	4:01:16 PM	171.8	3.0
6/7/2019	4:01:17 PM	171.7	2.9
6/7/2019	4:01:18 PM	171.7	2.9
6/7/2019	4:01:19 PM	171.7	2.9
6/7/2019	4:01:20 PM	171.7	2.9
6/7/2019	4:01:21 PM	171.7	2.9
6/7/2019	4:01:22 PM	171.7	2.9
6/7/2019	4:01:23 PM	171.7	2.9
6/7/2019	4:01:24 PM	171.7	2.9
6/7/2019	4:01:25 PM	171.7	2.9
6/7/2019	4:01:26 PM	171.6	2.8
6/7/2019	4:01:27 PM	171.6	2.8

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:01:28 PM	171.6	2.8
6/7/2019	4:01:29 PM	171.6	2.8
6/7/2019	4:01:30 PM	171.6	2.8
6/7/2019	4:01:31 PM	171.6	2.8
6/7/2019	4:01:32 PM	171.6	2.8
6/7/2019	4:01:33 PM	171.5	2.7
6/7/2019	4:01:34 PM	171.5	2.7
6/7/2019	4:01:35 PM	171.5	2.7
6/7/2019	4:01:36 PM	171.5	2.7
6/7/2019	4:01:37 PM	171.5	2.7
6/7/2019	4:01:38 PM	171.5	2.7
6/7/2019	4:01:38 PM	171.4	0.0
6/7/2019	4:01:39 PM	171.4	2.6
6/7/2019	4:01:40 PM	171.4	2.6
6/7/2019	4:01:41 PM	171.4	2.6
6/7/2019	4:01:42 PM	171.4	2.6
6/7/2019	4:01:43 PM	171.4	2.6
6/7/2019	4:01:44 PM	171.3	2.5
6/7/2019	4:01:45 PM	171.3	2.5
6/7/2019	4:01:46 PM	171.3	2.5
6/7/2019	4:01:47 PM	171.3	2.5
6/7/2019	4:01:48 PM	171.3	2.5
6/7/2019	4:01:49 PM	171.3	2.5
6/7/2019	4:01:50 PM	171.2	2.4
6/7/2019	4:01:51 PM	171.2	2.4
6/7/2019	4:01:52 PM	171.2	2.4
6/7/2019	4:01:53 PM	171.2	2.4
6/7/2019	4:01:54 PM	171.2	2.4
6/7/2019	4:01:55 PM	171.2	2.4
6/7/2019	4:01:56 PM	171.2	2.4
6/7/2019	4:01:57 PM	171.1	2.3
6/7/2019	4:01:58 PM	171.1	2.3
6/7/2019	4:01:59 PM	171.1	2.3
6/7/2019	4:02:00 PM	171.1	2.3
6/7/2019	4:02:01 PM	171.1	2.3
6/7/2019	4:02:02 PM	171.1	2.3
6/7/2019	4:02:03 PM	171.1	2.3
6/7/2019	4:02:04 PM	171.1	2.3
6/7/2019	4:02:05 PM	171.1	2.3
6/7/2019	4:02:06 PM	171.1	2.3
6/7/2019	4:02:07 PM	171.1	2.3
6/7/2019	4:02:08 PM	171.1	2.3
6/7/2019	4:02:09 PM	171.2	2.4
6/7/2019	4:02:10 PM	171.2	2.4
6/7/2019	4:02:11 PM	171.2	2.4
6/7/2019	4:02:12 PM	171.2	2.4
6/7/2019	4:02:13 PM	171.2	2.4
6/7/2019	4:02:14 PM	171.2	2.4
6/7/2019	4:02:15 PM	171.2	2.4
6/7/2019	4:02:16 PM	171.2	2.4
6/7/2019	4:02:17 PM	171.2	2.4
6/7/2019	4:02:18 PM	171.2	2.4
6/7/2019	4:02:19 PM	171.2	2.4
6/7/2019	4:02:20 PM	171.2	2.4
6/7/2019	4:02:21 PM	171.2	2.4
6/7/2019	4:02:22 PM	171.2	2.4
6/7/2019	4:02:23 PM	171.2	2.4
6/7/2019	4:02:24 PM	171.2	2.4
6/7/2019	4:02:25 PM	171.2	2.4
6/7/2019	4:02:26 PM	171.2	2.4
6/7/2019	4:02:27 PM	171.2	2.4
6/7/2019	4:02:28 PM	171.2	2.4
6/7/2019	4:02:29 PM	171.2	2.4
6/7/2019	4:02:30 PM	171.2	2.4
6/7/2019	4:02:31 PM	171.2	2.4
6/7/2019	4:02:32 PM	171.2	2.4
6/7/2019	4:02:33 PM	171.2	2.4
6/7/2019	4:02:34 PM	171.1	2.3
6/7/2019	4:02:35 PM	171.2	2.4
6/7/2019	4:02:36 PM	171.1	2.3
6/7/2019	4:02:37 PM	171.1	2.3
6/7/2019	4:02:38 PM	171.1	2.3
6/7/2019	4:02:39 PM	171.1	2.3
6/7/2019	4:02:40 PM	171.1	2.3
6/7/2019	4:02:41 PM	171.1	2.3
6/7/2019	4:02:42 PM	171.1	2.3
6/7/2019	4:02:43 PM	171.1	2.3
6/7/2019	4:02:44 PM	171.1	2.3
6/7/2019	4:02:45 PM	171.1	2.3
6/7/2019	4:02:46 PM	171.1	2.3
6/7/2019	4:02:47 PM	171.1	2.3
6/7/2019	4:02:48 PM	171.1	2.3
6/7/2019	4:02:49 PM	171.1	2.3
6/7/2019	4:02:50 PM	171.1	2.3
6/7/2019	4:02:51 PM	171.1	2.3
6/7/2019	4:02:52 PM	171.0	2.2
6/7/2019	4:02:53 PM	171.0	2.2
6/7/2019	4:02:54 PM	171.0	2.2
6/7/2019	4:02:55 PM	171.0	2.2
6/7/2019	4:02:56 PM	171.0	2.2
6/7/2019	4:02:57 PM	171.0	2.2
6/7/2019	4:02:58 PM	171.0	2.2

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:02:59 PM	171.0	2.2
6/7/2019	4:03:00 PM	171.0	2.2
6/7/2019	4:03:01 PM	171.0	2.2
6/7/2019	4:03:02 PM	171.0	2.2
6/7/2019	4:03:03 PM	171.0	2.2
6/7/2019	4:03:04 PM	171.0	2.2
6/7/2019	4:03:05 PM	171.0	2.2
6/7/2019	4:03:06 PM	171.0	2.2
6/7/2019	4:03:07 PM	171.0	2.2
6/7/2019	4:03:08 PM	171.1	2.3
6/7/2019	4:03:09 PM	171.1	2.3
6/7/2019	4:03:10 PM	171.1	2.3
6/7/2019	4:03:11 PM	171.1	2.3
6/7/2019	4:03:12 PM	171.1	2.3
6/7/2019	4:03:13 PM	171.1	2.3
6/7/2019	4:03:14 PM	171.1	2.3
6/7/2019	4:03:15 PM	171.1	2.3
6/7/2019	4:03:16 PM	171.2	2.4
6/7/2019	4:03:17 PM	171.2	2.4
6/7/2019	4:03:18 PM	171.2	2.4
6/7/2019	4:03:19 PM	171.2	2.4
6/7/2019	4:03:20 PM	171.2	2.4
6/7/2019	4:03:21 PM	171.2	2.4
6/7/2019	4:03:22 PM	171.3	2.5
6/7/2019	4:03:23 PM	171.3	2.5
6/7/2019	4:03:24 PM	171.3	2.5
6/7/2019	4:03:25 PM	171.3	2.5
6/7/2019	4:03:26 PM	171.3	2.5
6/7/2019	4:03:27 PM	171.3	2.5
6/7/2019	4:03:28 PM	171.3	2.5
6/7/2019	4:03:29 PM	171.3	2.5
6/7/2019	4:03:30 PM	171.3	2.5
6/7/2019	4:03:31 PM	171.3	2.5
6/7/2019	4:03:32 PM	171.3	2.5
6/7/2019	4:03:33 PM	171.3	2.5
6/7/2019	4:03:34 PM	171.3	2.5
6/7/2019	4:03:35 PM	171.3	2.5
6/7/2019	4:03:36 PM	171.3	2.5
6/7/2019	4:03:37 PM	171.3	2.5
6/7/2019	4:03:38 PM	171.3	2.5
6/7/2019	4:03:39 PM	171.2	2.4
6/7/2019	4:03:40 PM	171.2	2.4
6/7/2019	4:03:41 PM	171.2	2.4
6/7/2019	4:03:42 PM	171.2	2.4
6/7/2019	4:03:43 PM	171.2	2.4
6/7/2019	4:03:44 PM	171.1	2.3
6/7/2019	4:03:45 PM	171.1	2.3
6/7/2019	4:03:46 PM	171.1	2.3
6/7/2019	4:03:47 PM	171.1	2.3
6/7/2019	4:03:48 PM	171.0	2.2
6/7/2019	4:03:49 PM	171.0	2.2
6/7/2019	4:03:50 PM	171.0	2.2
6/7/2019	4:03:51 PM	170.9	2.1
6/7/2019	4:03:52 PM	170.9	2.1
6/7/2019	4:03:53 PM	170.8	2.0
6/7/2019	4:03:54 PM	170.8	2.0
6/7/2019	4:03:55 PM	170.8	2.0
6/7/2019	4:03:56 PM	170.7	1.9
6/7/2019	4:03:57 PM	170.7	1.9
6/7/2019	4:03:58 PM	170.6	1.8
6/7/2019	4:03:59 PM	170.6	1.8
6/7/2019	4:04:00 PM	170.5	1.7
6/7/2019	4:04:01 PM	170.5	1.7
6/7/2019	4:04:02 PM	170.4	1.6
6/7/2019	4:04:03 PM	170.4	1.6
6/7/2019	4:04:04 PM	170.3	1.5
6/7/2019	4:04:05 PM	170.3	1.5
6/7/2019	4:04:06 PM	170.2	1.4
6/7/2019	4:04:07 PM	170.2	1.4
6/7/2019	4:04:08 PM	170.1	1.3
6/7/2019	4:04:09 PM	170.1	1.3
6/7/2019	4:04:10 PM	170.1	1.3
6/7/2019	4:04:11 PM	170.0	1.2
6/7/2019	4:04:12 PM	170.0	1.2
6/7/2019	4:04:13 PM	169.9	1.1
6/7/2019	4:04:14 PM	169.9	1.1
6/7/2019	4:04:15 PM	169.8	1.0
6/7/2019	4:04:16 PM	169.8	1.0
6/7/2019	4:04:17 PM	169.8	1.0
6/7/2019	4:04:18 PM	169.7	0.9
6/7/2019	4:04:19 PM	169.7	0.9
6/7/2019	4:04:20 PM	169.7	0.9
6/7/2019	4:04:21 PM	169.6	0.8
6/7/2019	4:04:22 PM	169.6	0.8
6/7/2019	4:04:23 PM	169.6	0.8
6/7/2019	4:04:24 PM	169.6	0.8
6/7/2019	4:04:25 PM	169.5	0.7
6/7/2019	4:04:26 PM	169.5	0.7
6/7/2019	4:04:27 PM	169.5	0.7
6/7/2019	4:04:28 PM	169.5	0.7
6/7/2019	4:04:29 PM	169.5	0.7
6/7/2019	4:04:30 PM	169.5	0.7

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:04:31 PM	169.4	0.6
6/7/2019	4:04:32 PM	169.4	0.6
6/7/2019	4:04:33 PM	169.4	0.6
6/7/2019	4:04:34 PM	169.4	0.6
6/7/2019	4:04:35 PM	169.4	0.6
6/7/2019	4:04:36 PM	169.4	0.6
6/7/2019	4:04:37 PM	169.4	0.6
6/7/2019	4:04:38 PM	169.4	0.6
6/7/2019	4:04:39 PM	169.4	0.6
6/7/2019	4:04:40 PM	169.4	0.6
6/7/2019	4:04:41 PM	169.4	0.6
6/7/2019	4:04:42 PM	169.4	0.6
6/7/2019	4:04:43 PM	169.4	0.6
6/7/2019	4:04:44 PM	169.4	0.6
6/7/2019	4:04:45 PM	169.4	0.6
6/7/2019	4:04:46 PM	169.4	0.6
6/7/2019	4:04:47 PM	169.4	0.6
6/7/2019	4:04:48 PM	169.4	0.6
6/7/2019	4:04:49 PM	169.5	0.7
6/7/2019	4:04:50 PM	169.5	0.7
6/7/2019	4:04:51 PM	169.5	0.7
6/7/2019	4:04:52 PM	169.5	0.7
6/7/2019	4:04:53 PM	169.5	0.7
6/7/2019	4:04:54 PM	169.5	0.7
6/7/2019	4:04:55 PM	169.5	0.7
6/7/2019	4:04:56 PM	169.5	0.7
6/7/2019	4:04:57 PM	169.5	0.7
6/7/2019	4:04:58 PM	169.5	0.7
6/7/2019	4:04:59 PM	169.5	0.7
6/7/2019	4:05:00 PM	169.5	0.7
6/7/2019	4:05:01 PM	169.5	0.7
6/7/2019	4:05:02 PM	169.5	0.7
6/7/2019	4:05:03 PM	169.5	0.7
6/7/2019	4:05:04 PM	169.4	0.6
6/7/2019	4:05:05 PM	169.4	0.6
6/7/2019	4:05:06 PM	169.4	0.6
6/7/2019	4:05:07 PM	169.4	0.6
6/7/2019	4:05:08 PM	169.4	0.6
6/7/2019	4:05:09 PM	169.4	0.6
6/7/2019	4:05:10 PM	169.4	0.6
6/7/2019	4:05:11 PM	169.4	0.6
6/7/2019	4:05:12 PM	169.4	0.6
6/7/2019	4:05:13 PM	169.4	0.6
6/7/2019	4:05:14 PM	169.4	0.6
6/7/2019	4:05:15 PM	169.4	0.6
6/7/2019	4:05:16 PM	169.4	0.6
6/7/2019	4:05:17 PM	169.4	0.6
6/7/2019	4:05:18 PM	169.4	0.6
6/7/2019	4:05:19 PM	169.4	0.6
6/7/2019	4:05:20 PM	169.4	0.6
6/7/2019	4:05:21 PM	169.4	0.6
6/7/2019	4:05:22 PM	169.4	0.6
6/7/2019	4:05:23 PM	169.4	0.6
6/7/2019	4:05:24 PM	169.4	0.6
6/7/2019	4:05:25 PM	169.4	0.6
6/7/2019	4:05:26 PM	169.4	0.6
6/7/2019	4:05:27 PM	169.4	0.6
6/7/2019	4:05:28 PM	169.4	0.6
6/7/2019	4:05:29 PM	169.4	0.6
6/7/2019	4:05:30 PM	169.4	0.6
6/7/2019	4:05:31 PM	169.3	0.5
6/7/2019	4:05:32 PM	169.3	0.5
6/7/2019	4:05:33 PM	169.3	0.5
6/7/2019	4:05:34 PM	169.3	0.5
6/7/2019	4:05:35 PM	169.2	0.4
6/7/2019	4:05:36 PM	169.2	0.4
6/7/2019	4:05:37 PM	169.2	0.4
6/7/2019	4:05:38 PM	169.1	0.3
6/7/2019	4:05:39 PM	169.1	0.3
6/7/2019	4:05:40 PM	169.1	0.3
6/7/2019	4:05:41 PM	169.0	0.2
6/7/2019	4:05:42 PM	169.0	0.2
6/7/2019	4:05:43 PM	168.9	0.1
6/7/2019	4:05:44 PM	168.9	0.1
6/7/2019	4:05:45 PM	168.9	0.1
6/7/2019	4:05:46 PM	168.8	0.0
6/7/2019	4:05:47 PM	168.8	0.0
6/7/2019	4:05:48 PM	168.7	-0.1
6/7/2019	4:05:49 PM	168.7	-0.1
6/7/2019	4:05:50 PM	168.6	-0.2
6/7/2019	4:05:51 PM	168.6	-0.2
6/7/2019	4:05:52 PM	168.6	-0.2
6/7/2019	4:05:53 PM	168.5	-0.3
6/7/2019	4:05:54 PM	168.5	-0.3
6/7/2019	4:05:55 PM	168.4	-0.4
6/7/2019	4:05:56 PM	168.4	-0.4
6/7/2019	4:05:57 PM	168.3	-0.5
6/7/2019	4:05:58 PM	168.3	-0.5
6/7/2019	4:05:59 PM	168.2	-0.6
6/7/2019	4:06:00 PM	168.2	-0.6
6/7/2019	4:06:01 PM	168.2	-0.6
6/7/2019	4:06:02 PM	168.1	-0.7

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:06:03 PM	168.1	-0.7
6/7/2019	4:06:04 PM	168.1	-0.7
6/7/2019	4:06:05 PM	168.0	-0.8
6/7/2019	4:06:06 PM	168.0	-0.8
6/7/2019	4:06:07 PM	168.0	-0.8
6/7/2019	4:06:08 PM	167.9	-0.9
6/7/2019	4:06:09 PM	167.9	-0.9
6/7/2019	4:06:10 PM	167.9	-0.9
6/7/2019	4:06:11 PM	167.8	-1.0
6/7/2019	4:06:12 PM	167.8	-1.0
6/7/2019	4:06:13 PM	167.8	-1.0
6/7/2019	4:06:14 PM	167.8	-1.0
6/7/2019	4:06:15 PM	167.8	-1.0
6/7/2019	4:06:16 PM	167.8	-1.0
6/7/2019	4:06:17 PM	167.8	-1.0
6/7/2019	4:06:18 PM	167.8	-1.0
6/7/2019	4:06:19 PM	167.8	-1.0
6/7/2019	4:06:20 PM	167.7	-1.1
6/7/2019	4:06:21 PM	167.7	-1.1
6/7/2019	4:06:22 PM	167.8	-1.0
6/7/2019	4:06:23 PM	167.8	-1.0
6/7/2019	4:06:24 PM	167.8	-1.0
6/7/2019	4:06:25 PM	167.8	-1.0
6/7/2019	4:06:26 PM	167.8	-1.0
6/7/2019	4:06:27 PM	167.8	-1.0
6/7/2019	4:06:28 PM	167.8	-1.0
6/7/2019	4:06:29 PM	167.8	-1.0
6/7/2019	4:06:30 PM	167.8	-1.0
6/7/2019	4:06:31 PM	167.9	-0.9
6/7/2019	4:06:32 PM	167.9	-0.9
6/7/2019	4:06:33 PM	167.9	-0.9
6/7/2019	4:06:34 PM	167.9	-0.9
6/7/2019	4:06:35 PM	167.9	-0.9
6/7/2019	4:06:36 PM	167.9	-0.9
6/7/2019	4:06:37 PM	168.0	-0.8
6/7/2019	4:06:38 PM	168.0	-0.8
6/7/2019	4:06:39 PM	168.0	-0.8
6/7/2019	4:06:40 PM	168.0	-0.8
6/7/2019	4:06:41 PM	168.1	-0.7
6/7/2019	4:06:42 PM	168.1	-0.7
6/7/2019	4:06:43 PM	168.1	-0.7
6/7/2019	4:06:44 PM	168.1	-0.7
6/7/2019	4:06:45 PM	168.1	-0.7
6/7/2019	4:06:46 PM	168.1	-0.7
6/7/2019	4:06:47 PM	168.2	-0.6
6/7/2019	4:06:48 PM	168.2	-0.6
6/7/2019	4:06:49 PM	168.2	-0.6
6/7/2019	4:06:50 PM	168.2	-0.6
6/7/2019	4:06:51 PM	168.2	-0.6
6/7/2019	4:06:52 PM	168.2	-0.6
6/7/2019	4:06:53 PM	168.2	-0.6
6/7/2019	4:06:54 PM	168.2	-0.6
6/7/2019	4:06:55 PM	168.2	-0.6
6/7/2019	4:06:56 PM	168.3	-0.5
6/7/2019	4:06:57 PM	168.3	-0.5
6/7/2019	4:06:58 PM	168.3	-0.5
6/7/2019	4:06:59 PM	168.3	-0.5
6/7/2019	4:07:00 PM	168.3	-0.5
6/7/2019	4:07:01 PM	168.3	-0.5
6/7/2019	4:07:02 PM	168.3	-0.5
6/7/2019	4:07:03 PM	168.4	-0.4
6/7/2019	4:07:04 PM	168.4	-0.4
6/7/2019	4:07:05 PM	168.4	-0.4
6/7/2019	4:07:06 PM	168.4	-0.4
6/7/2019	4:07:07 PM	168.4	-0.4
6/7/2019	4:07:08 PM	168.4	-0.4
6/7/2019	4:07:09 PM	168.4	-0.4
6/7/2019	4:07:10 PM	168.4	-0.4
6/7/2019	4:07:11 PM	168.4	-0.4
6/7/2019	4:07:12 PM	168.5	-0.3
6/7/2019	4:07:13 PM	168.5	-0.3
6/7/2019	4:07:14 PM	168.5	-0.3
6/7/2019	4:07:15 PM	168.5	-0.3
6/7/2019	4:07:16 PM	168.5	-0.3
6/7/2019	4:07:17 PM	168.5	-0.3
6/7/2019	4:07:18 PM	168.5	-0.3
6/7/2019	4:07:19 PM	168.5	-0.3
6/7/2019	4:07:20 PM	168.5	-0.3
6/7/2019	4:07:21 PM	168.5	-0.3
6/7/2019	4:07:22 PM	168.5	-0.3
6/7/2019	4:07:23 PM	168.5	-0.3
6/7/2019	4:07:24 PM	168.4	-0.4
6/7/2019	4:07:25 PM	168.4	-0.4
6/7/2019	4:07:26 PM	168.4	-0.4
6/7/2019	4:07:27 PM	168.4	-0.4
6/7/2019	4:07:28 PM	168.4	-0.4
6/7/2019	4:07:29 PM	168.4	-0.4
6/7/2019	4:07:30 PM	168.4	-0.4
6/7/2019	4:07:31 PM	168.4	-0.4
6/7/2019	4:07:32 PM	168.4	-0.4
6/7/2019	4:07:33 PM	168.4	-0.4
6/7/2019	4:07:34 PM	168.4	-0.4

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:07:35 PM	168.4	-0.4
6/7/2019	4:07:36 PM	168.4	-0.4
6/7/2019	4:07:37 PM	168.4	-0.4
6/7/2019	4:07:38 PM	168.3	-0.5
6/7/2019	4:07:39 PM	168.3	-0.5
6/7/2019	4:07:40 PM	168.3	-0.5
6/7/2019	4:07:41 PM	168.3	-0.5
6/7/2019	4:07:42 PM	168.3	-0.5
6/7/2019	4:07:43 PM	168.3	-0.5
6/7/2019	4:07:44 PM	168.3	-0.5
6/7/2019	4:07:45 PM	168.3	-0.5
6/7/2019	4:07:46 PM	168.2	-0.6
6/7/2019	4:07:47 PM	168.2	-0.6
6/7/2019	4:07:48 PM	168.2	-0.6
6/7/2019	4:07:49 PM	168.2	-0.6
6/7/2019	4:07:50 PM	168.2	-0.6
6/7/2019	4:07:51 PM	168.2	-0.6
6/7/2019	4:07:52 PM	168.1	-0.7
6/7/2019	4:07:53 PM	168.1	-0.7
6/7/2019	4:07:54 PM	168.1	-0.7
6/7/2019	4:07:55 PM	168.1	-0.7
6/7/2019	4:07:56 PM	168.1	-0.7
6/7/2019	4:07:57 PM	168.1	-0.7
6/7/2019	4:07:58 PM	168.1	-0.7
6/7/2019	4:07:59 PM	168.0	-0.8
6/7/2019	4:08:00 PM	168.0	-0.8
6/7/2019	4:08:01 PM	168.0	-0.8
6/7/2019	4:08:02 PM	168.0	-0.8
6/7/2019	4:08:03 PM	168.0	-0.8
6/7/2019	4:08:04 PM	168.0	-0.8
6/7/2019	4:08:05 PM	168.0	-0.8
6/7/2019	4:08:06 PM	168.0	-0.8
6/7/2019	4:08:07 PM	168.0	-0.8
6/7/2019	4:08:08 PM	168.0	-0.8
6/7/2019	4:08:09 PM	168.0	-0.8
6/7/2019	4:08:10 PM	168.0	-0.8
6/7/2019	4:08:11 PM	168.0	-0.8
6/7/2019	4:08:12 PM	168.0	-0.8
6/7/2019	4:08:13 PM	168.0	-0.8
6/7/2019	4:08:14 PM	168.0	-0.8
6/7/2019	4:08:15 PM	168.0	-0.8
6/7/2019	4:08:16 PM	168.0	-0.8
6/7/2019	4:08:17 PM	168.0	-0.8
6/7/2019	4:08:18 PM	168.1	-0.7
6/7/2019	4:08:19 PM	168.1	-0.7
6/7/2019	4:08:20 PM	168.1	-0.7
6/7/2019	4:08:21 PM	168.1	-0.7
6/7/2019	4:08:22 PM	168.1	-0.7
6/7/2019	4:08:23 PM	168.1	-0.7
6/7/2019	4:08:24 PM	168.1	-0.7
6/7/2019	4:08:25 PM	168.1	-0.7
6/7/2019	4:08:26 PM	168.2	-0.6
6/7/2019	4:08:27 PM	168.2	-0.6
6/7/2019	4:08:28 PM	168.2	-0.6
6/7/2019	4:08:29 PM	168.2	-0.6
6/7/2019	4:08:30 PM	168.2	-0.6
6/7/2019	4:08:31 PM	168.2	-0.6
6/7/2019	4:08:32 PM	168.2	-0.6
6/7/2019	4:08:33 PM	168.2	-0.6
6/7/2019	4:08:34 PM	168.2	-0.6
6/7/2019	4:08:35 PM	168.2	-0.6
6/7/2019	4:08:36 PM	168.2	-0.6
6/7/2019	4:08:37 PM	168.2	-0.6
6/7/2019	4:08:38 PM	168.2	-0.6
6/7/2019	4:08:39 PM	168.2	-0.6
6/7/2019	4:08:40 PM	168.2	-0.6
6/7/2019	4:08:41 PM	168.3	-0.5
6/7/2019	4:08:42 PM	168.3	-0.5
6/7/2019	4:08:43 PM	168.3	-0.5
6/7/2019	4:08:44 PM	168.3	-0.5
6/7/2019	4:08:45 PM	168.3	-0.5
6/7/2019	4:08:46 PM	168.3	-0.5
6/7/2019	4:08:47 PM	168.3	-0.5
6/7/2019	4:08:48 PM	168.2	-0.6
6/7/2019	4:08:49 PM	168.2	-0.6
6/7/2019	4:08:50 PM	168.2	-0.6
6/7/2019	4:08:51 PM	168.2	-0.6
6/7/2019	4:08:52 PM	168.2	-0.6
6/7/2019	4:08:53 PM	168.2	-0.6
6/7/2019	4:08:54 PM	168.2	-0.6
6/7/2019	4:08:55 PM	168.1	-0.7
6/7/2019	4:08:56 PM	168.1	-0.7
6/7/2019	4:08:57 PM	168.1	-0.7
6/7/2019	4:08:58 PM	168.1	-0.7
6/7/2019	4:08:59 PM	168.0	-0.8
6/7/2019	4:09:00 PM	168.0	-0.8
6/7/2019	4:09:01 PM	168.0	-0.8
6/7/2019	4:09:02 PM	167.9	-0.9
6/7/2019	4:09:03 PM	167.9	-0.9
6/7/2019	4:09:04 PM	167.8	-1.0
6/7/2019	4:09:05 PM	167.8	-1.0
6/7/2019	4:09:06 PM	167.8	-1.0

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:09:07 PM	167.7	-1.1
6/7/2019	4:09:08 PM	167.7	-1.1
6/7/2019	4:09:09 PM	167.7	-1.1
6/7/2019	4:09:10 PM	167.6	-1.2
6/7/2019	4:09:11 PM	167.6	-1.2
6/7/2019	4:09:12 PM	167.6	-1.2
6/7/2019	4:09:13 PM	167.5	-1.3
6/7/2019	4:09:14 PM	167.5	-1.3
6/7/2019	4:09:15 PM	167.5	-1.3
6/7/2019	4:09:16 PM	167.4	-1.4
6/7/2019	4:09:17 PM	167.4	-1.4
6/7/2019	4:09:18 PM	167.4	-1.4
6/7/2019	4:09:19 PM	167.3	-1.5
6/7/2019	4:09:20 PM	167.3	-1.5
6/7/2019	4:09:21 PM	167.2	-1.6
6/7/2019	4:09:22 PM	167.2	-1.6
6/7/2019	4:09:23 PM	167.2	-1.6
6/7/2019	4:09:24 PM	167.1	-1.7
6/7/2019	4:09:25 PM	167.1	-1.7
6/7/2019	4:09:26 PM	167.1	-1.7
6/7/2019	4:09:27 PM	167.1	-1.7
6/7/2019	4:09:28 PM	167.0	-1.8
6/7/2019	4:09:29 PM	167.0	-1.8
6/7/2019	4:09:30 PM	167.0	-1.8
6/7/2019	4:09:31 PM	167.0	-1.8
6/7/2019	4:09:32 PM	166.9	-1.9
6/7/2019	4:09:33 PM	166.9	-1.9
6/7/2019	4:09:34 PM	166.9	-1.9
6/7/2019	4:09:35 PM	166.9	-1.9
6/7/2019	4:09:36 PM	166.8	-2.0
6/7/2019	4:09:37 PM	166.8	-2.0
6/7/2019	4:09:38 PM	166.8	-2.0
6/7/2019	4:09:39 PM	166.8	-2.0
6/7/2019	4:09:40 PM	166.8	-2.0
6/7/2019	4:09:41 PM	166.8	-2.0
6/7/2019	4:09:42 PM	166.8	-2.0
6/7/2019	4:09:43 PM	166.8	-2.0
6/7/2019	4:09:44 PM	166.8	-2.0
6/7/2019	4:09:45 PM	166.8	-2.0
6/7/2019	4:09:46 PM	166.8	-2.0
6/7/2019	4:09:47 PM	166.8	-2.0
6/7/2019	4:09:48 PM	166.8	-2.0
6/7/2019	4:09:49 PM	166.8	-2.0
6/7/2019	4:09:50 PM	166.8	-2.0
6/7/2019	4:09:51 PM	166.8	-2.0
6/7/2019	4:09:52 PM	166.8	-2.0
6/7/2019	4:09:53 PM	166.8	-2.0
6/7/2019	4:09:54 PM	166.8	-2.0
6/7/2019	4:09:55 PM	166.8	-2.0
6/7/2019	4:09:56 PM	166.8	-2.0
6/7/2019	4:09:57 PM	166.8	-2.0
6/7/2019	4:09:58 PM	166.8	-2.0
6/7/2019	4:09:59 PM	166.8	-2.0
6/7/2019	4:10:00 PM	166.8	-2.0
6/7/2019	4:10:01 PM	166.8	-2.0
6/7/2019	4:10:02 PM	166.8	-2.0
6/7/2019	4:10:03 PM	166.8	-2.0
6/7/2019	4:10:04 PM	166.8	-2.0
6/7/2019	4:10:05 PM	166.8	-2.0
6/7/2019	4:10:06 PM	166.8	-2.0
6/7/2019	4:10:07 PM	166.8	-2.0
6/7/2019	4:10:08 PM	166.8	-2.0
6/7/2019	4:10:09 PM	166.8	-2.0
6/7/2019	4:10:10 PM	166.8	-2.0
6/7/2019	4:10:11 PM	166.8	-2.0
6/7/2019	4:10:12 PM	166.8	-2.0
6/7/2019	4:10:13 PM	166.8	-2.0
6/7/2019	4:10:14 PM	166.8	-2.0
6/7/2019	4:10:15 PM	166.8	-2.0
6/7/2019	4:10:16 PM	166.8	-2.0
6/7/2019	4:10:17 PM	166.8	-2.0
6/7/2019	4:10:18 PM	166.8	-2.0
6/7/2019	4:10:19 PM	166.8	-2.0
6/7/2019	4:10:20 PM	166.8	-2.0
6/7/2019	4:10:21 PM	166.8	-2.0
6/7/2019	4:10:22 PM	166.8	-2.0
6/7/2019	4:10:23 PM	166.8	-2.0
6/7/2019	4:10:24 PM	166.8	-2.0
6/7/2019	4:10:25 PM	166.8	-2.0
6/7/2019	4:10:26 PM	166.8	-2.0
6/7/2019	4:10:27 PM	166.8	-2.0
6/7/2019	4:10:28 PM	166.8	-2.0
6/7/2019	4:10:29 PM	166.7	-2.1
6/7/2019	4:10:30 PM	166.7	-2.1
6/7/2019	4:10:31 PM	166.7	-2.1
6/7/2019	4:10:32 PM	166.7	-2.1
6/7/2019	4:10:33 PM	166.7	-2.1
6/7/2019	4:10:34 PM	166.7	-2.1
6/7/2019	4:10:35 PM	166.6	-2.2
6/7/2019	4:10:36 PM	166.6	-2.2
6/7/2019	4:10:37 PM	166.6	-2.2
6/7/2019	4:10:38 PM	166.6	-2.2

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:10:39 PM	166.6	-2.2
6/7/2019	4:10:40 PM	166.5	-2.3
6/7/2019	4:10:41 PM	166.5	-2.3
6/7/2019	4:10:42 PM	166.5	-2.3
6/7/2019	4:10:43 PM	166.5	-2.3
6/7/2019	4:10:44 PM	166.5	-2.3
6/7/2019	4:10:45 PM	166.5	-2.3
6/7/2019	4:10:46 PM	166.5	-2.3
6/7/2019	4:10:47 PM	166.5	-2.3
6/7/2019	4:10:48 PM	166.5	-2.3
6/7/2019	4:10:49 PM	166.4	-2.4
6/7/2019	4:10:50 PM	166.4	-2.4
6/7/2019	4:10:51 PM	166.4	-2.4
6/7/2019	4:10:52 PM	166.4	-2.4
6/7/2019	4:10:53 PM	166.4	-2.4
6/7/2019	4:10:54 PM	166.4	-2.4
6/7/2019	4:10:55 PM	166.4	-2.4
6/7/2019	4:10:56 PM	166.4	-2.4
6/7/2019	4:10:57 PM	166.4	-2.4
6/7/2019	4:10:58 PM	166.4	-2.4
6/7/2019	4:10:59 PM	166.4	-2.4
6/7/2019	4:11:00 PM	166.4	-2.4
6/7/2019	4:11:01 PM	166.4	-2.4
6/7/2019	4:11:02 PM	166.4	-2.4
6/7/2019	4:11:03 PM	166.4	-2.4
6/7/2019	4:11:04 PM	166.4	-2.4
6/7/2019	4:11:05 PM	166.4	-2.4
6/7/2019	4:11:06 PM	166.5	-2.3
6/7/2019	4:11:07 PM	166.5	-2.3
6/7/2019	4:11:08 PM	166.5	-2.3
6/7/2019	4:11:09 PM	166.5	-2.3
6/7/2019	4:11:10 PM	166.5	-2.3
6/7/2019	4:11:11 PM	166.5	-2.3
6/7/2019	4:11:12 PM	166.5	-2.3
6/7/2019	4:11:13 PM	166.5	-2.3
6/7/2019	4:11:14 PM	166.5	-2.3
6/7/2019	4:11:15 PM	166.5	-2.3
6/7/2019	4:11:16 PM	166.5	-2.3
6/7/2019	4:11:17 PM	166.5	-2.3
6/7/2019	4:11:18 PM	166.5	-2.3
6/7/2019	4:11:19 PM	166.5	-2.3
6/7/2019	4:11:20 PM	166.5	-2.3
6/7/2019	4:11:21 PM	166.5	-2.3
6/7/2019	4:11:22 PM	166.5	-2.3
6/7/2019	4:11:23 PM	166.5	-2.3
6/7/2019	4:11:24 PM	166.5	-2.3
6/7/2019	4:11:25 PM	166.5	-2.3
6/7/2019	4:11:26 PM	166.5	-2.3
6/7/2019	4:11:27 PM	166.5	-2.3
6/7/2019	4:11:28 PM	166.5	-2.3
6/7/2019	4:11:29 PM	166.5	-2.3
6/7/2019	4:11:30 PM	166.5	-2.3
6/7/2019	4:11:31 PM	166.5	-2.3
6/7/2019	4:11:32 PM	166.5	-2.3
6/7/2019	4:11:33 PM	166.5	-2.3
6/7/2019	4:11:34 PM	166.5	-2.3
6/7/2019	4:11:35 PM	166.5	-2.3
6/7/2019	4:11:36 PM	166.5	-2.3
6/7/2019	4:11:37 PM	166.5	-2.3
6/7/2019	4:11:38 PM	166.5	-2.3
6/7/2019	4:11:39 PM	166.5	-2.3
6/7/2019	4:11:40 PM	166.5	-2.3
6/7/2019	4:11:41 PM	166.5	-2.3
6/7/2019	4:11:42 PM	166.5	-2.3
6/7/2019	4:11:43 PM	166.5	-2.3
6/7/2019	4:11:44 PM	166.5	-2.3
6/7/2019	4:11:45 PM	166.5	-2.3
6/7/2019	4:11:46 PM	166.6	-2.2
6/7/2019	4:11:47 PM	166.6	-2.2
6/7/2019	4:11:48 PM	166.6	-2.2
6/7/2019	4:11:49 PM	166.6	-2.2
6/7/2019	4:11:50 PM	166.5	-2.3
6/7/2019	4:11:51 PM	166.5	-2.3
6/7/2019	4:11:52 PM	166.5	-2.3
6/7/2019	4:11:53 PM	166.5	-2.3
6/7/2019	4:11:54 PM	166.5	-2.3
6/7/2019	4:11:55 PM	166.5	-2.3
6/7/2019	4:11:56 PM	166.5	-2.3
6/7/2019	4:11:57 PM	166.5	-2.3
6/7/2019	4:11:58 PM	166.5	-2.3
6/7/2019	4:11:59 PM	166.5	-2.3
6/7/2019	4:12:00 PM	166.5	-2.3
6/7/2019	4:12:01 PM	166.5	-2.3
6/7/2019	4:12:02 PM	166.5	-2.3
6/7/2019	4:12:03 PM	166.5	-2.3
6/7/2019	4:12:04 PM	166.5	-2.3
6/7/2019	4:12:05 PM	166.5	-2.3
6/7/2019	4:12:06 PM	166.5	-2.3
6/7/2019	4:12:07 PM	166.5	-2.3
6/7/2019	4:12:08 PM	166.5	-2.3
6/7/2019	4:12:09 PM	166.4	-2.4
6/7/2019	4:12:10 PM	166.4	-2.4

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:12:11 PM	166.4	-2.4
6/7/2019	4:12:12 PM	166.4	-2.4
6/7/2019	4:12:13 PM	166.4	-2.4
6/7/2019	4:12:14 PM	166.4	-2.4
6/7/2019	4:12:15 PM	166.4	-2.4
6/7/2019	4:12:16 PM	166.4	-2.4
6/7/2019	4:12:17 PM	166.3	-2.5
6/7/2019	4:12:18 PM	166.3	-2.5
6/7/2019	4:12:19 PM	166.3	-2.5
6/7/2019	4:12:20 PM	166.3	-2.5
6/7/2019	4:12:21 PM	166.3	-2.5
6/7/2019	4:12:22 PM	166.3	-2.5
6/7/2019	4:12:23 PM	166.3	-2.5
6/7/2019	4:12:24 PM	166.3	-2.5
6/7/2019	4:12:25 PM	166.2	-2.6
6/7/2019	4:12:26 PM	166.2	-2.6
6/7/2019	4:12:27 PM	166.2	-2.6
6/7/2019	4:12:28 PM	166.2	-2.6
6/7/2019	4:12:29 PM	166.2	-2.6
6/7/2019	4:12:30 PM	166.2	-2.6
6/7/2019	4:12:31 PM	166.2	-2.6
6/7/2019	4:12:32 PM	166.1	-2.7
6/7/2019	4:12:33 PM	166.1	-2.7
6/7/2019	4:12:34 PM	166.1	-2.7
6/7/2019	4:12:35 PM	166.1	-2.7
6/7/2019	4:12:36 PM	166.1	-2.7
6/7/2019	4:12:37 PM	166.0	-2.8
6/7/2019	4:12:38 PM	166.0	-2.8
6/7/2019	4:12:39 PM	166.0	-2.8
6/7/2019	4:12:40 PM	166.0	-2.8
6/7/2019	4:12:41 PM	165.9	-2.9
6/7/2019	4:12:42 PM	165.9	-2.9
6/7/2019	4:12:43 PM	165.9	-2.9
6/7/2019	4:12:44 PM	165.9	-2.9
6/7/2019	4:12:45 PM	165.8	-3.0
6/7/2019	4:12:46 PM	165.8	-3.0
6/7/2019	4:12:47 PM	165.8	-3.0
6/7/2019	4:12:48 PM	165.8	-3.0
6/7/2019	4:12:49 PM	165.7	-3.1
6/7/2019	4:12:50 PM	165.7	-3.1
6/7/2019	4:12:51 PM	165.7	-3.1
6/7/2019	4:12:52 PM	165.7	-3.1
6/7/2019	4:12:53 PM	165.7	-3.1
6/7/2019	4:12:54 PM	165.6	-3.2
6/7/2019	4:12:55 PM	165.6	-3.2
6/7/2019	4:12:56 PM	165.6	-3.2
6/7/2019	4:12:57 PM	165.6	-3.2
6/7/2019	4:12:58 PM	165.6	-3.2
6/7/2019	4:12:59 PM	165.6	-3.2
6/7/2019	4:13:00 PM	165.5	-3.3
6/7/2019	4:13:01 PM	165.5	-3.3
6/7/2019	4:13:02 PM	165.5	-3.3
6/7/2019	4:13:03 PM	165.5	-3.3
6/7/2019	4:13:04 PM	165.5	-3.3
6/7/2019	4:13:05 PM	165.4	-3.4
6/7/2019	4:13:06 PM	165.4	-3.4
6/7/2019	4:13:07 PM	165.4	-3.4
6/7/2019	4:13:08 PM	165.4	-3.4
6/7/2019	4:13:09 PM	165.4	-3.4
6/7/2019	4:13:10 PM	165.3	-3.5
6/7/2019	4:13:11 PM	165.3	-3.5
6/7/2019	4:13:12 PM	165.3	-3.5
6/7/2019	4:13:13 PM	165.3	-3.5
6/7/2019	4:13:14 PM	165.3	-3.5
6/7/2019	4:13:15 PM	165.3	-3.5
6/7/2019	4:13:16 PM	165.2	-3.6
6/7/2019	4:13:17 PM	165.2	-3.6
6/7/2019	4:13:18 PM	165.2	-3.6
6/7/2019	4:13:19 PM	165.2	-3.6
6/7/2019	4:13:20 PM	165.2	-3.6
6/7/2019	4:13:21 PM	165.1	-3.7
6/7/2019	4:13:22 PM	165.1	-3.7
6/7/2019	4:13:23 PM	165.1	-3.7
6/7/2019	4:13:24 PM	165.1	-3.7
6/7/2019	4:13:25 PM	165.0	-3.8
6/7/2019	4:13:26 PM	165.0	-3.8
6/7/2019	4:13:27 PM	165.0	-3.8
6/7/2019	4:13:28 PM	164.9	-3.9
6/7/2019	4:13:29 PM	164.9	-3.9
6/7/2019	4:13:30 PM	164.9	-3.9
6/7/2019	4:13:31 PM	164.9	-3.9
6/7/2019	4:13:32 PM	164.8	-4.0
6/7/2019	4:13:33 PM	164.8	-4.0
6/7/2019	4:13:34 PM	164.8	-4.0
6/7/2019	4:13:35 PM	164.8	-4.0
6/7/2019	4:13:36 PM	164.7	-4.1
6/7/2019	4:13:37 PM	164.7	-4.1
6/7/2019	4:13:38 PM	164.7	-4.1
6/7/2019	4:13:39 PM	164.7	-4.1
6/7/2019	4:13:40 PM	164.7	-4.1
6/7/2019	4:13:41 PM	164.6	-4.2
6/7/2019	4:13:42 PM	164.6	-4.2

APPENDIX E52: SALT DILUTION GAUGING SUMMARY
SEEP-B-TR-2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-B-TR-2 Test-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:13:43 PM	164.6	-4.2
6/7/2019	4:13:44 PM	164.6	-4.2
6/7/2019	4:13:45 PM	164.6	-4.2
6/7/2019	4:13:46 PM	164.6	-4.2
6/7/2019	4:13:47 PM	164.6	-4.2
6/7/2019	4:13:48 PM	164.5	-4.3
6/7/2019	4:13:49 PM	164.5	-4.3
6/7/2019	4:13:50 PM	164.5	-4.3
6/7/2019	4:13:51 PM	164.5	-4.3
6/7/2019	4:13:52 PM	164.5	-4.3
6/7/2019	4:13:53 PM	164.5	-4.3
6/7/2019	4:13:54 PM	164.5	-4.3
6/7/2019	4:13:55 PM	164.5	-4.3
6/7/2019	4:13:56 PM	164.5	-4.3
6/7/2019	4:13:57 PM	164.5	-4.3
6/7/2019	4:13:58 PM	164.5	-4.3
6/7/2019	4:13:59 PM	164.5	-4.3
6/7/2019	4:14:00 PM	164.5	-4.3
6/7/2019	4:14:01 PM	164.6	-4.2

APPENDIX E52: SALT DILUTION GAUGING SUMMARY
SEEP-B-TR-2 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-B-TR-2 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-B-TR-2	1445	151	18.7
SEEP-B-TR-2	1452	142.4	18.5
SEEP-B-TR-2	1454	167	18.5
Average		153.5	(µS/cms)
Geometric Mean		153.1	(µS/cms)
Average (pre-test)		168.8	(µS/cms)
Average (post-test)		172.8	(µS/cms)

Table E3 SEEP-B-TR-2 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-B-TR-2	100	256	24.6
SEEP-B-TR-2	1,000	2,107	24.7
SEEP-B-TR-2	10,000	17,409	25.1
SEEP-B-TR-2	100,000	128,835	25

Table E4 SEEP-B-TR-2 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})*\Delta t\}}{K}}$$

Mass of Salt injected	q	300,300	mg
Slope of Calibration Curve	K	1.2919	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	1,677,106.1	(s) . (µS/cms)
Calculated Flow Rate	Q	0.2	L/s
		3.7	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:33:32 PM	185.9	-
6/7/2019	4:33:33 PM	182.8	-
6/7/2019	4:33:34 PM	180.7	-
6/7/2019	4:33:35 PM	179.0	-
6/7/2019	4:33:36 PM	177.3	-
6/7/2019	4:33:37 PM	176.4	-
6/7/2019	4:33:38 PM	175.0	-
6/7/2019	4:33:39 PM	173.9	-
6/7/2019	4:33:40 PM	172.6	-
6/7/2019	4:33:41 PM	171.7	-
6/7/2019	4:33:42 PM	170.0	-
6/7/2019	4:33:43 PM	167.9	-
6/7/2019	4:33:44 PM	166.5	-
6/7/2019	4:33:45 PM	165.2	-
6/7/2019	4:33:46 PM	163.8	-
6/7/2019	4:33:47 PM	162.5	-
6/7/2019	4:33:48 PM	161.6	-
6/7/2019	4:33:49 PM	161.1	-
6/7/2019	4:33:50 PM	160.4	-
6/7/2019	4:33:51 PM	159.7	-
6/7/2019	4:33:52 PM	159.2	-
6/7/2019	4:33:53 PM	158.9	-
6/7/2019	4:33:54 PM	158.4	-
6/7/2019	4:33:55 PM	158.1	-
6/7/2019	4:33:56 PM	157.7	-
6/7/2019	4:33:57 PM	157.4	-
6/7/2019	4:33:58 PM	157.1	-
6/7/2019	4:33:59 PM	156.8	-
6/7/2019	4:34:00 PM	156.6	-
6/7/2019	4:34:01 PM	156.4	-
6/7/2019	4:34:02 PM	156.2	-
6/7/2019	4:34:03 PM	156.0	-
6/7/2019	4:34:04 PM	155.8	-
6/7/2019	4:34:05 PM	155.7	-
6/7/2019	4:34:06 PM	155.5	-
6/7/2019	4:34:07 PM	155.3	-
6/7/2019	4:34:08 PM	155.1	-
6/7/2019	4:34:09 PM	155.0	-
6/7/2019	4:34:10 PM	154.8	-
6/7/2019	4:34:11 PM	154.7	-
6/7/2019	4:34:12 PM	154.6	-
6/7/2019	4:34:13 PM	154.5	-
6/7/2019	4:34:14 PM	154.3	-
6/7/2019	4:34:15 PM	154.2	-
6/7/2019	4:34:16 PM	154.1	-
6/7/2019	4:34:17 PM	153.9	-
6/7/2019	4:34:18 PM	153.8	-
6/7/2019	4:34:19 PM	153.6	-
6/7/2019	4:34:20 PM	153.5	-
6/7/2019	4:34:21 PM	153.4	-
6/7/2019	4:34:22 PM	153.3	-
6/7/2019	4:34:23 PM	153.2	-
6/7/2019	4:34:24 PM	153.2	-
6/7/2019	4:34:25 PM	153.2	-
6/7/2019	4:34:26 PM	153.4	-
6/7/2019	4:34:27 PM	154.2	-
6/7/2019	4:34:28 PM	155.4	-
6/7/2019	4:34:29 PM	157.3	-
6/7/2019	4:34:30 PM	236.3	75.6
6/7/2019	4:34:31 PM	293.4	132.7
6/7/2019	4:34:32 PM	371.2	210.5
6/7/2019	4:34:33 PM	473.2	312.5
6/7/2019	4:34:34 PM	559.7	399.0
6/7/2019	4:34:35 PM	716.1	555.4
6/7/2019	4:34:36 PM	997.9	837.2
6/7/2019	4:34:37 PM	1279.3	1118.6
6/7/2019	4:34:38 PM	1566.0	1405.3
6/7/2019	4:34:39 PM	2024.8	1864.1
6/7/2019	4:34:40 PM	2317.8	2157.1
6/7/2019	4:34:41 PM	2672.2	2511.5

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:34:42 PM	2981.2	2820.5
6/7/2019	4:34:43 PM	3312.8	3152.1
6/7/2019	4:34:44 PM	3924.2	3763.5
6/7/2019	4:34:45 PM	4334.2	4173.5
6/7/2019	4:34:46 PM	4694.9	4534.2
6/7/2019	4:34:47 PM	5136.8	4976.1
6/7/2019	4:34:48 PM	5576.2	5415.5
6/7/2019	4:34:49 PM	5910.9	5750.2
6/7/2019	4:34:50 PM	6270.7	6110.0
6/7/2019	4:34:51 PM	6424.2	6263.5
6/7/2019	4:34:52 PM	6569.4	6408.7
6/7/2019	4:34:53 PM	7061.0	6900.3
6/7/2019	4:34:54 PM	7287.0	7126.3
6/7/2019	4:34:55 PM	7484.4	7323.7
6/7/2019	4:34:56 PM	7616.0	7455.3
6/7/2019	4:34:57 PM	7683.0	7522.3
6/7/2019	4:34:58 PM	7715.0	7554.3
6/7/2019	4:34:59 PM	7722.6	7561.9
6/7/2019	4:35:00 PM	7717.5	7556.8
6/7/2019	4:35:01 PM	7696.8	7536.1
6/7/2019	4:35:02 PM	7669.1	7508.4
6/7/2019	4:35:03 PM	7642.5	7481.8
6/7/2019	4:35:04 PM	7607.0	7446.3
6/7/2019	4:35:05 PM	7161.2	7000.5
6/7/2019	4:35:06 PM	7033.0	6872.3
6/7/2019	4:35:07 PM	6898.3	6737.6
6/7/2019	4:35:08 PM	6772.0	6611.3
6/7/2019	4:35:09 PM	6701.8	6541.1
6/7/2019	4:35:10 PM	6553.4	6392.7
6/7/2019	4:35:11 PM	6456.1	6295.4
6/7/2019	4:35:12 PM	5964.9	5804.2
6/7/2019	4:35:13 PM	5769.9	5609.2
6/7/2019	4:35:14 PM	5631.0	5470.3
6/7/2019	4:35:15 PM	5499.4	5338.7
6/7/2019	4:35:16 PM	5403.3	5242.6
6/7/2019	4:35:17 PM	5309.3	5148.6
6/7/2019	4:35:18 PM	5209.3	5048.6
6/7/2019	4:35:19 PM	4844.5	4683.8
6/7/2019	4:35:20 PM	4685.2	4524.5
6/7/2019	4:35:21 PM	4514.8	4354.1
6/7/2019	4:35:22 PM	4395.3	4234.6
6/7/2019	4:35:23 PM	4315.1	4154.4
6/7/2019	4:35:24 PM	4223.2	4062.5
6/7/2019	4:35:25 PM	3901.4	3740.7
6/7/2019	4:35:26 PM	3784.0	3623.3
6/7/2019	4:35:27 PM	3660.2	3499.5
6/7/2019	4:35:28 PM	3566.0	3405.3
6/7/2019	4:35:29 PM	3512.8	3352.1
6/7/2019	4:35:30 PM	3451.4	3290.7
6/7/2019	4:35:31 PM	3407.1	3246.4
6/7/2019	4:35:32 PM	3103.7	2943.0
6/7/2019	4:35:33 PM	3027.1	2866.4
6/7/2019	4:35:34 PM	2935.0	2774.3
6/7/2019	4:35:35 PM	2906.5	2745.8
6/7/2019	4:35:36 PM	2861.5	2700.8
6/7/2019	4:35:37 PM	2829.0	2668.3
6/7/2019	4:35:38 PM	2790.8	2630.1
6/7/2019	4:35:39 PM	2603.9	2443.2
6/7/2019	4:35:40 PM	2524.9	2364.2
6/7/2019	4:35:41 PM	2461.1	2300.4
6/7/2019	4:35:42 PM	2421.9	2261.2
6/7/2019	4:35:43 PM	2393.0	2232.3
6/7/2019	4:35:44 PM	2363.3	2202.6
6/7/2019	4:35:45 PM	2330.8	2170.1
6/7/2019	4:35:46 PM	2164.1	2003.4
6/7/2019	4:35:47 PM	2093.7	1933.0
6/7/2019	4:35:48 PM	2052.0	1891.3
6/7/2019	4:35:49 PM	2028.6	1867.9
6/7/2019	4:35:50 PM	2001.3	1840.6
6/7/2019	4:35:51 PM	1976.3	1815.6
6/7/2019	4:35:52 PM	1954.5	1793.8
6/7/2019	4:35:53 PM	1931.1	1770.4
6/7/2019	4:35:54 PM	1810.4	1649.7
6/7/2019	4:35:55 PM	1756.7	1596.0
6/7/2019	4:35:56 PM	1720.3	1559.6
6/7/2019	4:35:57 PM	1696.2	1535.5
6/7/2019	4:35:58 PM	1681.5	1520.8

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:35:59 PM	1663.4	1502.7
6/7/2019	4:36:00 PM	1651.0	1490.3
6/7/2019	4:36:01 PM	1637.3	1476.6
6/7/2019	4:36:02 PM	1623.2	1462.5
6/7/2019	4:36:03 PM	1507.6	1346.9
6/7/2019	4:36:04 PM	1482.2	1321.5
6/7/2019	4:36:05 PM	1453.7	1293.0
6/7/2019	4:36:06 PM	1447.2	1286.5
6/7/2019	4:36:07 PM	1432.3	1271.6
6/7/2019	4:36:08 PM	1420.2	1259.5
6/7/2019	4:36:09 PM	1406.1	1245.4
6/7/2019	4:36:10 PM	1394.5	1233.8
6/7/2019	4:36:11 PM	1301.9	1141.2
6/7/2019	4:36:12 PM	1288.6	1127.9
6/7/2019	4:36:13 PM	1259.7	1099.0
6/7/2019	4:36:14 PM	1242.9	1082.2
6/7/2019	4:36:15 PM	1227.2	1066.5
6/7/2019	4:36:16 PM	1217.6	1056.9
6/7/2019	4:36:17 PM	1208.4	1047.7
6/7/2019	4:36:18 PM	1199.5	1038.8
6/7/2019	4:36:19 PM	1127.5	966.8
6/7/2019	4:36:20 PM	1110.6	949.9
6/7/2019	4:36:21 PM	1093.1	932.4
6/7/2019	4:36:22 PM	1079.8	919.1
6/7/2019	4:36:23 PM	1074.6	913.9
6/7/2019	4:36:24 PM	1064.3	903.6
6/7/2019	4:36:25 PM	1055.3	894.6
6/7/2019	4:36:26 PM	1045.3	884.6
6/7/2019	4:36:27 PM	1036.3	875.6
6/7/2019	4:36:28 PM	1026.5	865.8
6/7/2019	4:36:29 PM	967.5	806.8
6/7/2019	4:36:30 PM	954.7	794.0
6/7/2019	4:36:31 PM	936.5	775.8
6/7/2019	4:36:32 PM	925.5	764.8
6/7/2019	4:36:33 PM	920.2	759.5
6/7/2019	4:36:34 PM	911.4	750.7
6/7/2019	4:36:35 PM	905.0	744.3
6/7/2019	4:36:36 PM	897.3	736.6
6/7/2019	4:36:37 PM	892.0	731.3
6/7/2019	4:36:38 PM	885.3	724.6
6/7/2019	4:36:39 PM	879.9	719.2
6/7/2019	4:36:40 PM	825.3	664.6
6/7/2019	4:36:41 PM	820.9	660.2
6/7/2019	4:36:42 PM	812.1	651.4
6/7/2019	4:36:43 PM	806.1	645.4
6/7/2019	4:36:44 PM	801.4	640.7
6/7/2019	4:36:45 PM	797.2	636.5
6/7/2019	4:36:46 PM	792.2	631.5
6/7/2019	4:36:47 PM	786.1	625.4
6/7/2019	4:36:48 PM	780.2	619.5
6/7/2019	4:36:49 PM	775.6	614.9
6/7/2019	4:36:50 PM	770.2	609.5
6/7/2019	4:36:51 PM	765.8	605.1
6/7/2019	4:36:52 PM	715.5	554.8
6/7/2019	4:36:53 PM	709.3	548.6
6/7/2019	4:36:54 PM	700.1	539.4
6/7/2019	4:36:55 PM	695.2	534.5
6/7/2019	4:36:56 PM	689.9	529.2
6/7/2019	4:36:57 PM	684.3	523.6
6/7/2019	4:36:58 PM	680.4	519.7
6/7/2019	4:36:59 PM	677.7	517.0
6/7/2019	4:37:00 PM	674.4	513.7
6/7/2019	4:37:01 PM	671.5	510.8
6/7/2019	4:37:02 PM	668.8	508.1
6/7/2019	4:37:03 PM	664.7	504.0
6/7/2019	4:37:04 PM	661.4	500.7
6/7/2019	4:37:05 PM	658.9	498.2
6/7/2019	4:37:06 PM	655.6	494.9
6/7/2019	4:37:07 PM	611.7	451.0
6/7/2019	4:37:08 PM	607.6	446.9
6/7/2019	4:37:09 PM	605.2	444.5
6/7/2019	4:37:10 PM	597.4	436.7
6/7/2019	4:37:11 PM	515.1	354.4
6/7/2019	4:37:12 PM	579.2	418.5
6/7/2019	4:37:13 PM	577.5	416.8
6/7/2019	4:37:14 PM	570.7	410.0
6/7/2019	4:37:15 PM	568.6	407.9
6/7/2019	4:37:16 PM	566.3	405.6
6/7/2019	4:37:17 PM	564.3	403.6

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:37:18 PM	562.2	401.5
6/7/2019	4:37:19 PM	560.0	399.3
6/7/2019	4:37:20 PM	558.1	397.4
6/7/2019	4:37:21 PM	555.7	395.0
6/7/2019	4:37:22 PM	553.8	393.1
6/7/2019	4:37:23 PM	551.7	391.0
6/7/2019	4:37:24 PM	549.9	389.2
6/7/2019	4:37:25 PM	547.9	387.2
6/7/2019	4:37:26 PM	546.2	385.5
6/7/2019	4:37:27 PM	544.3	383.6
6/7/2019	4:37:28 PM	541.8	381.1
6/7/2019	4:37:29 PM	537.9	377.2
6/7/2019	4:37:30 PM	534.7	374.0
6/7/2019	4:37:31 PM	530.8	370.1
6/7/2019	4:37:32 PM	527.5	366.8
6/7/2019	4:37:33 PM	523.7	363.0
6/7/2019	4:37:34 PM	520.5	359.8
6/7/2019	4:37:35 PM	516.6	355.9
6/7/2019	4:37:36 PM	513.1	352.4
6/7/2019	4:37:37 PM	509.1	348.4
6/7/2019	4:37:38 PM	505.6	344.9
6/7/2019	4:37:39 PM	501.7	341.0
6/7/2019	4:37:40 PM	498.1	337.4
6/7/2019	4:37:41 PM	494.0	333.3
6/7/2019	4:37:42 PM	490.3	329.6
6/7/2019	4:37:43 PM	485.9	325.2
6/7/2019	4:37:44 PM	482.1	321.4
6/7/2019	4:37:45 PM	477.9	317.2
6/7/2019	4:37:46 PM	474.2	313.5
6/7/2019	4:37:47 PM	470.0	309.3
6/7/2019	4:37:48 PM	466.5	305.8
6/7/2019	4:37:49 PM	462.5	301.8
6/7/2019	4:37:50 PM	459.0	298.3
6/7/2019	4:37:51 PM	455.1	294.4
6/7/2019	4:37:52 PM	451.7	291.0
6/7/2019	4:37:53 PM	448.0	287.3
6/7/2019	4:37:54 PM	444.8	284.1
6/7/2019	4:37:55 PM	441.3	280.6
6/7/2019	4:37:56 PM	438.3	277.6
6/7/2019	4:37:57 PM	435.1	274.4
6/7/2019	4:37:58 PM	432.3	271.6
6/7/2019	4:37:59 PM	429.2	268.5
6/7/2019	4:38:00 PM	426.2	265.5
6/7/2019	4:38:01 PM	423.6	262.9
6/7/2019	4:38:02 PM	420.8	260.1
6/7/2019	4:38:03 PM	418.5	257.8
6/7/2019	4:38:04 PM	415.8	255.1
6/7/2019	4:38:05 PM	413.6	252.9
6/7/2019	4:38:06 PM	411.1	250.4
6/7/2019	4:38:07 PM	409.0	248.3
6/7/2019	4:38:08 PM	406.5	245.8
6/7/2019	4:38:09 PM	404.4	243.7
6/7/2019	4:38:10 PM	402.1	241.4
6/7/2019	4:38:11 PM	400.2	239.5
6/7/2019	4:38:12 PM	397.9	237.2
6/7/2019	4:38:13 PM	396.0	235.3
6/7/2019	4:38:14 PM	394.0	233.3
6/7/2019	4:38:15 PM	392.1	231.4
6/7/2019	4:38:16 PM	390.0	229.3
6/7/2019	4:38:17 PM	388.2	227.5
6/7/2019	4:38:18 PM	386.1	225.4
6/7/2019	4:38:19 PM	384.4	223.7
6/7/2019	4:38:20 PM	382.4	221.7
6/7/2019	4:38:21 PM	380.7	220.0
6/7/2019	4:38:22 PM	378.8	218.1
6/7/2019	4:38:23 PM	377.1	216.4
6/7/2019	4:38:24 PM	375.2	214.5
6/7/2019	4:38:25 PM	373.6	212.9
6/7/2019	4:38:26 PM	371.6	210.9
6/7/2019	4:38:27 PM	369.9	209.2
6/7/2019	4:38:28 PM	368.0	207.3
6/7/2019	4:38:29 PM	366.3	205.6
6/7/2019	4:38:30 PM	364.3	203.6
6/7/2019	4:38:31 PM	362.6	201.9
6/7/2019	4:38:32 PM	360.7	200.0
6/7/2019	4:38:33 PM	359.0	198.3
6/7/2019	4:38:34 PM	357.1	196.4
6/7/2019	4:38:35 PM	355.4	194.7
6/7/2019	4:38:36 PM	353.4	192.7

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:38:37 PM	351.6	190.9
6/7/2019	4:38:38 PM	349.6	188.9
6/7/2019	4:38:39 PM	348.0	187.3
6/7/2019	4:38:40 PM	346.1	185.4
6/7/2019	4:38:41 PM	344.3	183.6
6/7/2019	4:38:42 PM	342.8	182.1
6/7/2019	4:38:43 PM	341.1	180.4
6/7/2019	4:38:44 PM	339.6	178.9
6/7/2019	4:38:45 PM	337.9	177.2
6/7/2019	4:38:46 PM	336.5	175.8
6/7/2019	4:38:47 PM	334.9	174.2
6/7/2019	4:38:48 PM	333.6	172.9
6/7/2019	4:38:49 PM	332.2	171.5
6/7/2019	4:38:50 PM	330.9	170.2
6/7/2019	4:38:51 PM	329.5	168.8
6/7/2019	4:38:52 PM	328.3	167.6
6/7/2019	4:38:53 PM	326.9	166.2
6/7/2019	4:38:54 PM	325.8	165.1
6/7/2019	4:38:55 PM	324.5	163.8
6/7/2019	4:38:56 PM	323.4	162.7
6/7/2019	4:38:57 PM	322.1	161.4
6/7/2019	4:38:58 PM	321.0	160.3
6/7/2019	4:38:59 PM	319.7	159.0
6/7/2019	4:39:00 PM	318.6	157.9
6/7/2019	4:39:01 PM	317.5	156.8
6/7/2019	4:39:02 PM	316.4	155.7
6/7/2019	4:39:03 PM	315.2	154.5
6/7/2019	4:39:04 PM	314.3	153.6
6/7/2019	4:39:05 PM	313.1	152.4
6/7/2019	4:39:06 PM	312.1	151.4
6/7/2019	4:39:07 PM	310.9	150.2
6/7/2019	4:39:08 PM	309.9	149.2
6/7/2019	4:39:09 PM	308.8	148.1
6/7/2019	4:39:10 PM	307.9	147.2
6/7/2019	4:39:11 PM	306.9	146.2
6/7/2019	4:39:12 PM	306.0	145.3
6/7/2019	4:39:13 PM	304.9	144.2
6/7/2019	4:39:14 PM	303.9	143.2
6/7/2019	4:39:15 PM	302.9	142.2
6/7/2019	4:39:16 PM	302.0	141.3
6/7/2019	4:39:17 PM	301.0	140.3
6/7/2019	4:39:18 PM	300.2	139.5
6/7/2019	4:39:19 PM	299.2	138.5
6/7/2019	4:39:20 PM	298.5	137.8
6/7/2019	4:39:21 PM	297.6	136.9
6/7/2019	4:39:22 PM	296.8	136.1
6/7/2019	4:39:23 PM	295.9	135.2
6/7/2019	4:39:24 PM	295.0	134.3
6/7/2019	4:39:25 PM	294.3	133.6
6/7/2019	4:39:26 PM	293.5	132.8
6/7/2019	4:39:27 PM	292.7	132.0
6/7/2019	4:39:28 PM	291.9	131.2
6/7/2019	4:39:29 PM	291.2	130.5
6/7/2019	4:39:30 PM	290.4	129.7
6/7/2019	4:39:31 PM	289.7	129.0
6/7/2019	4:39:32 PM	288.9	128.2
6/7/2019	4:39:33 PM	288.1	127.4
6/7/2019	4:39:34 PM	287.3	126.6
6/7/2019	4:39:35 PM	286.5	125.8
6/7/2019	4:39:36 PM	285.6	124.9
6/7/2019	4:39:37 PM	284.8	124.1
6/7/2019	4:39:38 PM	283.9	123.2
6/7/2019	4:39:39 PM	283.2	122.5
6/7/2019	4:39:40 PM	282.3	121.6
6/7/2019	4:39:41 PM	281.6	120.9
6/7/2019	4:39:42 PM	280.7	120.0
6/7/2019	4:39:43 PM	280.0	119.3
6/7/2019	4:39:44 PM	279.2	118.5
6/7/2019	4:39:45 PM	278.5	117.8
6/7/2019	4:39:46 PM	277.7	117.0
6/7/2019	4:39:47 PM	277.0	116.3
6/7/2019	4:39:48 PM	276.3	115.6
6/7/2019	4:39:49 PM	275.6	114.9
6/7/2019	4:39:50 PM	275.0	114.3
6/7/2019	4:39:51 PM	274.5	113.8
6/7/2019	4:39:52 PM	273.8	113.1
6/7/2019	4:39:53 PM	273.3	112.6
6/7/2019	4:39:54 PM	272.8	112.1
6/7/2019	4:39:55 PM	272.3	111.6

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:39:56 PM	271.7	111.0
6/7/2019	4:39:57 PM	271.2	110.5
6/7/2019	4:39:58 PM	270.4	109.7
6/7/2019	4:39:59 PM	270.0	109.3
6/7/2019	4:40:00 PM	269.2	108.5
6/7/2019	4:40:01 PM	268.7	108.0
6/7/2019	4:40:02 PM	268.2	107.5
6/7/2019	4:40:03 PM	267.6	106.9
6/7/2019	4:40:04 PM	267.0	106.3
6/7/2019	4:40:05 PM	266.5	105.8
6/7/2019	4:40:06 PM	265.9	105.2
6/7/2019	4:40:07 PM	265.4	104.7
6/7/2019	4:40:08 PM	264.9	104.2
6/7/2019	4:40:09 PM	264.4	103.7
6/7/2019	4:40:10 PM	263.9	103.2
6/7/2019	4:40:11 PM	263.4	102.7
6/7/2019	4:40:12 PM	262.9	102.2
6/7/2019	4:40:13 PM	262.5	101.8
6/7/2019	4:40:14 PM	262.0	101.3
6/7/2019	4:40:15 PM	261.5	100.8
6/7/2019	4:40:16 PM	261.1	100.4
6/7/2019	4:40:17 PM	260.7	100.0
6/7/2019	4:40:18 PM	260.1	99.4
6/7/2019	4:40:19 PM	259.7	99.0
6/7/2019	4:40:20 PM	259.2	98.5
6/7/2019	4:40:21 PM	258.7	98.0
6/7/2019	4:40:22 PM	258.3	97.6
6/7/2019	4:40:23 PM	257.8	97.1
6/7/2019	4:40:24 PM	257.3	96.6
6/7/2019	4:40:25 PM	256.8	96.1
6/7/2019	4:40:26 PM	256.3	95.6
6/7/2019	4:40:27 PM	255.7	95.0
6/7/2019	4:40:28 PM	255.3	94.6
6/7/2019	4:40:29 PM	254.7	94.0
6/7/2019	4:40:30 PM	254.3	93.6
6/7/2019	4:40:31 PM	253.8	93.1
6/7/2019	4:40:32 PM	253.3	92.6
6/7/2019	4:40:33 PM	252.9	92.2
6/7/2019	4:40:34 PM	252.4	91.7
6/7/2019	4:40:35 PM	252.0	91.3
6/7/2019	4:40:36 PM	251.6	90.9
6/7/2019	4:40:37 PM	251.1	90.4
6/7/2019	4:40:38 PM	250.8	90.1
6/7/2019	4:40:39 PM	250.4	89.7
6/7/2019	4:40:40 PM	250.0	89.3
6/7/2019	4:40:41 PM	249.7	89.0
6/7/2019	4:40:42 PM	249.3	88.6
6/7/2019	4:40:43 PM	248.9	88.2
6/7/2019	4:40:44 PM	248.4	87.7
6/7/2019	4:40:45 PM	248.0	87.3
6/7/2019	4:40:46 PM	247.6	86.9
6/7/2019	4:40:47 PM	247.3	86.6
6/7/2019	4:40:48 PM	247.0	86.3
6/7/2019	4:40:49 PM	246.6	85.9
6/7/2019	4:40:50 PM	246.2	85.5
6/7/2019	4:40:51 PM	245.8	85.1
6/7/2019	4:40:52 PM	245.5	84.8
6/7/2019	4:40:53 PM	245.1	84.4
6/7/2019	4:40:54 PM	244.8	84.1
6/7/2019	4:40:55 PM	244.5	83.8
6/7/2019	4:40:56 PM	244.2	83.5
6/7/2019	4:40:57 PM	243.8	83.1
6/7/2019	4:40:58 PM	243.4	82.7
6/7/2019	4:40:59 PM	243.0	82.3
6/7/2019	4:41:00 PM	242.7	82.0
6/7/2019	4:41:01 PM	242.4	81.7
6/7/2019	4:41:02 PM	242.1	81.4
6/7/2019	4:41:03 PM	241.7	81.0
6/7/2019	4:41:04 PM	241.3	80.6
6/7/2019	4:41:05 PM	240.9	80.2
6/7/2019	4:41:06 PM	240.6	79.9
6/7/2019	4:41:07 PM	240.2	79.5
6/7/2019	4:41:08 PM	240.0	79.3
6/7/2019	4:41:09 PM	239.7	79.0
6/7/2019	4:41:10 PM	239.3	78.6
6/7/2019	4:41:11 PM	238.9	78.2
6/7/2019	4:41:12 PM	238.6	77.9
6/7/2019	4:41:13 PM	238.3	77.6
6/7/2019	4:41:14 PM	237.9	77.2

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:41:15 PM	237.7	77.0
6/7/2019	4:41:16 PM	237.3	76.6
6/7/2019	4:41:17 PM	237.1	76.4
6/7/2019	4:41:18 PM	236.6	75.9
6/7/2019	4:41:19 PM	236.3	75.6
6/7/2019	4:41:20 PM	236.0	75.3
6/7/2019	4:41:21 PM	235.7	75.0
6/7/2019	4:41:22 PM	235.4	74.7
6/7/2019	4:41:23 PM	235.1	74.4
6/7/2019	4:41:24 PM	234.7	74.0
6/7/2019	4:41:25 PM	234.3	73.6
6/7/2019	4:41:26 PM	233.9	73.2
6/7/2019	4:41:27 PM	233.6	72.9
6/7/2019	4:41:28 PM	233.3	72.6
6/7/2019	4:41:29 PM	233.0	72.3
6/7/2019	4:41:30 PM	232.7	72.0
6/7/2019	4:41:31 PM	232.4	71.7
6/7/2019	4:41:32 PM	232.0	71.3
6/7/2019	4:41:33 PM	231.7	71.0
6/7/2019	4:41:34 PM	231.4	70.7
6/7/2019	4:41:35 PM	231.2	70.5
6/7/2019	4:41:36 PM	230.9	70.2
6/7/2019	4:41:37 PM	230.7	70.0
6/7/2019	4:41:38 PM	230.4	69.7
6/7/2019	4:41:39 PM	230.2	69.5
6/7/2019	4:41:40 PM	229.9	69.2
6/7/2019	4:41:41 PM	229.7	69.0
6/7/2019	4:41:42 PM	229.4	68.7
6/7/2019	4:41:43 PM	229.2	68.5
6/7/2019	4:41:44 PM	229.0	68.3
6/7/2019	4:41:45 PM	228.7	68.0
6/7/2019	4:41:46 PM	228.4	67.7
6/7/2019	4:41:47 PM	228.1	67.4
6/7/2019	4:41:48 PM	227.8	67.1
6/7/2019	4:41:49 PM	227.5	66.8
6/7/2019	4:41:50 PM	227.3	66.6
6/7/2019	4:41:51 PM	227.1	66.4
6/7/2019	4:41:52 PM	226.8	66.1
6/7/2019	4:41:53 PM	226.5	65.8
6/7/2019	4:41:54 PM	226.3	65.6
6/7/2019	4:41:55 PM	226.1	65.4
6/7/2019	4:41:56 PM	225.9	65.2
6/7/2019	4:41:57 PM	225.8	65.1
6/7/2019	4:41:58 PM	225.6	64.9
6/7/2019	4:41:59 PM	225.5	64.8
6/7/2019	4:42:00 PM	225.3	64.6
6/7/2019	4:42:01 PM	225.1	64.4
6/7/2019	4:42:02 PM	225.0	64.3
6/7/2019	4:42:03 PM	224.9	64.2
6/7/2019	4:42:04 PM	224.8	64.1
6/7/2019	4:42:05 PM	224.6	63.9
6/7/2019	4:42:06 PM	224.4	63.7
6/7/2019	4:42:07 PM	224.2	63.5
6/7/2019	4:42:08 PM	224.0	63.3
6/7/2019	4:42:09 PM	223.9	63.2
6/7/2019	4:42:10 PM	223.7	63.0
6/7/2019	4:42:11 PM	223.4	62.7
6/7/2019	4:42:12 PM	223.2	62.5
6/7/2019	4:42:13 PM	222.9	62.2
6/7/2019	4:42:14 PM	222.7	62.0
6/7/2019	4:42:15 PM	222.5	61.8
6/7/2019	4:42:16 PM	222.2	61.5
6/7/2019	4:42:17 PM	222.0	61.3
6/7/2019	4:42:18 PM	221.8	61.1
6/7/2019	4:42:19 PM	221.6	60.9
6/7/2019	4:42:20 PM	221.4	60.7
6/7/2019	4:42:21 PM	221.2	60.5
6/7/2019	4:42:22 PM	220.9	60.2
6/7/2019	4:42:23 PM	220.7	60.0
6/7/2019	4:42:24 PM	220.5	59.8
6/7/2019	4:42:25 PM	220.3	59.6
6/7/2019	4:42:26 PM	220.1	59.4
6/7/2019	4:42:27 PM	219.9	59.2
6/7/2019	4:42:28 PM	219.6	58.9
6/7/2019	4:42:29 PM	219.5	58.8
6/7/2019	4:42:30 PM	219.3	58.6
6/7/2019	4:42:31 PM	219.0	58.3
6/7/2019	4:42:32 PM	218.8	58.1
6/7/2019	4:42:33 PM	218.6	57.9

APPENDIX E53: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:42:34 PM	218.5	57.8
6/7/2019	4:42:35 PM	218.2	57.5
6/7/2019	4:42:36 PM	218.1	57.4
6/7/2019	4:42:37 PM	217.9	57.2
6/7/2019	4:42:38 PM	217.7	57.0
6/7/2019	4:42:39 PM	217.6	56.9
6/7/2019	4:42:40 PM	217.4	56.7
6/7/2019	4:42:41 PM	217.2	56.5
6/7/2019	4:42:42 PM	217.0	56.3
6/7/2019	4:42:43 PM	216.9	56.2
6/7/2019	4:42:44 PM	216.8	56.1
6/7/2019	4:42:45 PM	216.7	56.0
6/7/2019	4:42:46 PM	216.4	55.7
6/7/2019	4:42:47 PM	216.3	55.6
6/7/2019	4:42:48 PM	216.2	55.5
6/7/2019	4:42:49 PM	216.0	55.3
6/7/2019	4:42:50 PM	215.8	55.1
6/7/2019	4:42:51 PM	215.7	55.0
6/7/2019	4:42:52 PM	215.6	54.9
6/7/2019	4:42:53 PM	215.5	54.8
6/7/2019	4:42:54 PM	215.3	54.6
6/7/2019	4:42:55 PM	215.2	54.5
6/7/2019	4:42:56 PM	215.1	54.4
6/7/2019	4:42:57 PM	215.0	54.3
6/7/2019	4:42:58 PM	214.8	54.1
6/7/2019	4:42:59 PM	214.7	54.0
6/7/2019	4:43:00 PM	214.7	54.0
6/7/2019	4:43:01 PM	214.6	53.9
6/7/2019	4:43:02 PM	214.6	53.9
6/7/2019	4:43:03 PM	214.5	53.8
6/7/2019	4:43:04 PM	214.5	53.8
6/7/2019	4:43:05 PM	214.4	53.7
6/7/2019	4:43:06 PM	214.4	53.7
6/7/2019	4:43:07 PM	214.4	53.7
6/7/2019	4:43:08 PM	214.4	53.7
6/7/2019	4:43:09 PM	214.3	53.6
6/7/2019	4:43:10 PM	214.3	53.6
6/7/2019	4:43:11 PM	214.3	53.6
6/7/2019	4:43:12 PM	214.3	53.6
6/7/2019	4:43:13 PM	214.4	53.7
6/7/2019	4:43:14 PM	214.4	53.7
6/7/2019	4:43:15 PM	214.4	53.7
6/7/2019	4:43:16 PM	214.4	53.7
6/7/2019	4:43:17 PM	214.4	53.7
6/7/2019	4:43:18 PM	214.4	53.7
6/7/2019	4:43:19 PM	214.5	53.8
6/7/2019	4:43:20 PM	214.5	53.8
6/7/2019	4:43:21 PM	214.6	53.9
6/7/2019	4:43:22 PM	214.6	53.9
6/7/2019	4:43:23 PM	214.7	54.0
6/7/2019	4:43:24 PM	214.7	54.0
6/7/2019	4:43:25 PM	214.8	54.1
6/7/2019	4:43:26 PM	214.8	54.1
6/7/2019	4:43:27 PM	214.9	54.2
6/7/2019	4:43:28 PM	214.9	54.2
6/7/2019	4:43:29 PM	215.0	54.3
6/7/2019	4:43:30 PM	215.0	54.3
6/7/2019	4:43:31 PM	215.1	54.4

Table E2 SEEP-C1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-C1 TEST-1	1625	142.9	21.4
SEEP-C1 TEST-1	1626	141.8	21.8
SEEP-C1 TEST-1	1627	142.6	21.4
SEEP-C1 TEST-1	1628	154.3	21.7
Average		145.4	(µS/cms)
Geometric Mean		145.3	(µS/cms)
Average (pre-test)		160.7	(µS/cms)
Average (post-test)		216.7	(µS/cms)

Table E3 SEEP-C1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-C1	100	1,115	24.2
SEEP-C1	1,000	2,150	24.2
SEEP-C1	10,000	16,651	24.1
SEEP-C1	100,000	132,589	24.1

Table E4 SEEP-C1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})*\Delta t\}}{K}}$$

Mass of Salt injected	q	299,700	mg
Slope of Calibration Curve	K	1.3293	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	458,382.1	(s) . (µS/cms)
Calculated Flow Rate	Q	0.9	L/s
		13.8	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:51:14 PM	159.6	-
6/7/2019	4:51:15 PM	159.5	-
6/7/2019	4:51:16 PM	159.5	-
6/7/2019	4:51:17 PM	159.5	-
6/7/2019	4:51:18 PM	159.5	-
6/7/2019	4:51:19 PM	159.5	-
6/7/2019	4:51:20 PM	159.5	-
6/7/2019	4:51:21 PM	159.5	-
6/7/2019	4:51:22 PM	159.4	-
6/7/2019	4:51:23 PM	159.4	-
6/7/2019	4:51:24 PM	159.4	-
6/7/2019	4:51:25 PM	159.4	-
6/7/2019	4:51:26 PM	159.3	-
6/7/2019	4:51:27 PM	159.3	-
6/7/2019	4:51:28 PM	159.3	-
6/7/2019	4:51:29 PM	159.2	-
6/7/2019	4:51:30 PM	159.2	-
6/7/2019	4:51:31 PM	159.2	-
6/7/2019	4:51:32 PM	159.1	-
6/7/2019	4:51:33 PM	159.1	-
6/7/2019	4:51:34 PM	159.1	-
6/7/2019	4:51:35 PM	159.0	-
6/7/2019	4:51:36 PM	159.0	-
6/7/2019	4:51:37 PM	159.0	-
6/7/2019	4:51:38 PM	159.0	-
6/7/2019	4:51:39 PM	158.9	-
6/7/2019	4:51:40 PM	158.9	-
6/7/2019	4:51:41 PM	158.9	-
6/7/2019	4:51:42 PM	158.8	-
6/7/2019	4:51:43 PM	158.8	-
6/7/2019	4:51:44 PM	158.8	-
6/7/2019	4:51:45 PM	158.8	-
6/7/2019	4:51:46 PM	158.7	-
6/7/2019	4:51:47 PM	158.7	-
6/7/2019	4:51:48 PM	158.7	-
6/7/2019	4:51:49 PM	158.7	-
6/7/2019	4:51:50 PM	158.7	-
6/7/2019	4:51:51 PM	158.7	-
6/7/2019	4:51:52 PM	158.6	-
6/7/2019	4:51:53 PM	158.6	-
6/7/2019	4:51:54 PM	158.6	-
6/7/2019	4:51:55 PM	158.6	-
6/7/2019	4:51:56 PM	158.6	-
6/7/2019	4:51:57 PM	158.6	-
6/7/2019	4:51:58 PM	158.6	-
6/7/2019	4:51:59 PM	158.5	-
6/7/2019	4:52:00 PM	158.5	-
6/7/2019	4:52:01 PM	158.5	-
6/7/2019	4:52:02 PM	158.5	-
6/7/2019	4:52:03 PM	158.4	-
6/7/2019	4:52:04 PM	158.4	-
6/7/2019	4:52:05 PM	158.4	-
6/7/2019	4:52:06 PM	158.3	-
6/7/2019	4:52:07 PM	158.3	-
6/7/2019	4:52:08 PM	158.3	-
6/7/2019	4:52:09 PM	158.2	-
6/7/2019	4:52:10 PM	158.2	-
6/7/2019	4:52:11 PM	158.2	-
6/7/2019	4:52:12 PM	158.1	-
6/7/2019	4:52:13 PM	158.1	-
6/7/2019	4:52:14 PM	158.1	-
6/7/2019	4:52:15 PM	158.1	-
6/7/2019	4:52:16 PM	158.2	-
6/7/2019	4:52:17 PM	158.4	-
6/7/2019	4:52:18 PM	159.0	-
6/7/2019	4:52:19 PM	160.2	-
6/7/2019	4:52:20 PM	227.1	68.3
6/7/2019	4:52:21 PM	265.2	106.4
6/7/2019	4:52:22 PM	325.8	167.0
6/7/2019	4:52:23 PM	362.7	203.9

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:52:24 PM	570.2	411.4
6/7/2019	4:52:25 PM	724.1	565.3
6/7/2019	4:52:26 PM	1080.1	921.3
6/7/2019	4:52:27 PM	1337.4	1178.6
6/7/2019	4:52:28 PM	1759.0	1600.2
6/7/2019	4:52:29 PM	2193.1	2034.3
6/7/2019	4:52:30 PM	2559.0	2400.2
6/7/2019	4:52:31 PM	2984.2	2825.4
6/7/2019	4:52:32 PM	3471.3	3312.5
6/7/2019	4:52:33 PM	3911.9	3753.1
6/7/2019	4:52:34 PM	4510.3	4351.5
6/7/2019	4:52:35 PM	5397.9	5239.1
6/7/2019	4:52:36 PM	5823.2	5664.4
6/7/2019	4:52:37 PM	6262.7	6103.9
6/7/2019	4:52:38 PM	6305.5	6146.7
6/7/2019	4:52:39 PM	7122.3	6963.5
6/7/2019	4:52:40 PM	7585.9	7427.1
6/7/2019	4:52:41 PM	7736.4	7577.6
6/7/2019	4:52:42 PM	7966.6	7807.8
6/7/2019	4:52:43 PM	8167.7	8008.9
6/7/2019	4:52:44 PM	8275.3	8116.5
6/7/2019	4:52:45 PM	8401.0	8242.2
6/7/2019	4:52:46 PM	8470.7	8311.9
6/7/2019	4:52:47 PM	8542.9	8384.1
6/7/2019	4:52:48 PM	8577.5	8418.7
6/7/2019	4:52:49 PM	8601.3	8442.5
6/7/2019	4:52:50 PM	8612.3	8453.5
6/7/2019	4:52:51 PM	8613.7	8454.9
6/7/2019	4:52:52 PM	8605.9	8447.1
6/7/2019	4:52:53 PM	8585.6	8426.8
6/7/2019	4:52:54 PM	8104.4	7945.6
6/7/2019	4:52:55 PM	7856.1	7697.3
6/7/2019	4:52:56 PM	7724.0	7565.2
6/7/2019	4:52:57 PM	7536.0	7377.2
6/7/2019	4:52:58 PM	7486.3	7327.5
6/7/2019	4:52:59 PM	7339.9	7181.1
6/7/2019	4:53:00 PM	7221.2	7062.4
6/7/2019	4:53:01 PM	6640.0	6481.2
6/7/2019	4:53:02 PM	6406.1	6247.3
6/7/2019	4:53:03 PM	6177.9	6019.1
6/7/2019	4:53:04 PM	6136.6	5977.8
6/7/2019	4:53:05 PM	6084.3	5925.5
6/7/2019	4:53:06 PM	5629.0	5470.2
6/7/2019	4:53:07 PM	5377.2	5218.4
6/7/2019	4:53:08 PM	5185.3	5026.5
6/7/2019	4:53:09 PM	5125.5	4966.7
6/7/2019	4:53:10 PM	5032.5	4873.7
6/7/2019	4:53:11 PM	4595.0	4436.2
6/7/2019	4:53:12 PM	4454.1	4295.3
6/7/2019	4:53:13 PM	4329.0	4170.2
6/7/2019	4:53:14 PM	4214.3	4055.5
6/7/2019	4:53:15 PM	4069.5	3910.7
6/7/2019	4:53:16 PM	3997.7	3838.9
6/7/2019	4:53:17 PM	3711.6	3552.8
6/7/2019	4:53:18 PM	3551.1	3392.3
6/7/2019	4:53:19 PM	3414.8	3256.0
6/7/2019	4:53:20 PM	3317.9	3159.1
6/7/2019	4:53:21 PM	3267.4	3108.6
6/7/2019	4:53:22 PM	3173.1	3014.3
6/7/2019	4:53:23 PM	2919.5	2760.7
6/7/2019	4:53:24 PM	2832.9	2674.1
6/7/2019	4:53:25 PM	2754.2	2595.4
6/7/2019	4:53:26 PM	2686.5	2527.7
6/7/2019	4:53:27 PM	2651.0	2492.2
6/7/2019	4:53:28 PM	2440.7	2281.9
6/7/2019	4:53:29 PM	2394.9	2236.1
6/7/2019	4:53:30 PM	2312.3	2153.5
6/7/2019	4:53:31 PM	2293.9	2135.1
6/7/2019	4:53:32 PM	2259.8	2101.0
6/7/2019	4:53:33 PM	2206.2	2047.4
6/7/2019	4:53:34 PM	2054.5	1895.7
6/7/2019	4:53:35 PM	1980.8	1822.0
6/7/2019	4:53:36 PM	1927.9	1769.1
6/7/2019	4:53:37 PM	1911.3	1752.5
6/7/2019	4:53:38 PM	1874.8	1716.0
6/7/2019	4:53:39 PM	1848.7	1689.9
6/7/2019	4:53:40 PM	1815.9	1657.1

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:53:41 PM	1668.2	1509.4
6/7/2019	4:53:42 PM	1642.9	1484.1
6/7/2019	4:53:43 PM	1603.2	1444.4
6/7/2019	4:53:44 PM	1591.5	1432.7
6/7/2019	4:53:45 PM	1579.9	1421.1
6/7/2019	4:53:46 PM	1466.9	1308.1
6/7/2019	4:53:47 PM	1422.3	1263.5
6/7/2019	4:53:48 PM	1382.8	1224.0
6/7/2019	4:53:49 PM	1362.4	1203.6
6/7/2019	4:53:50 PM	1338.6	1179.8
6/7/2019	4:53:51 PM	1318.5	1159.7
6/7/2019	4:53:52 PM	1305.4	1146.6
6/7/2019	4:53:53 PM	1290.6	1131.8
6/7/2019	4:53:54 PM	1210.3	1051.5
6/7/2019	4:53:55 PM	1181.6	1022.8
6/7/2019	4:53:56 PM	1149.2	990.4
6/7/2019	4:53:57 PM	1137.8	979.0
6/7/2019	4:53:58 PM	1126.8	968.0
6/7/2019	4:53:59 PM	1111.2	952.4
6/7/2019	4:54:00 PM	1098.5	939.7
6/7/2019	4:54:01 PM	1087.8	929.0
6/7/2019	4:54:02 PM	1015.6	856.8
6/7/2019	4:54:03 PM	1001.1	842.3
6/7/2019	4:54:04 PM	991.0	832.2
6/7/2019	4:54:05 PM	968.2	809.4
6/7/2019	4:54:06 PM	958.7	799.9
6/7/2019	4:54:07 PM	948.0	789.2
6/7/2019	4:54:08 PM	941.3	782.5
6/7/2019	4:54:09 PM	934.3	775.5
6/7/2019	4:54:10 PM	929.9	771.1
6/7/2019	4:54:11 PM	922.9	764.1
6/7/2019	4:54:12 PM	866.0	707.2
6/7/2019	4:54:13 PM	847.2	688.4
6/7/2019	4:54:14 PM	839.9	681.1
6/7/2019	4:54:15 PM	833.6	674.8
6/7/2019	4:54:16 PM	823.0	664.2
6/7/2019	4:54:17 PM	815.1	656.3
6/7/2019	4:54:18 PM	809.7	650.9
6/7/2019	4:54:19 PM	804.3	645.5
6/7/2019	4:54:20 PM	800.7	641.9
6/7/2019	4:54:21 PM	795.1	636.3
6/7/2019	4:54:22 PM	745.2	586.4
6/7/2019	4:54:23 PM	735.7	576.9
6/7/2019	4:54:24 PM	732.1	573.3
6/7/2019	4:54:25 PM	725.1	566.3
6/7/2019	4:54:26 PM	719.1	560.3
6/7/2019	4:54:27 PM	714.5	555.7
6/7/2019	4:54:28 PM	710.2	551.4
6/7/2019	4:54:29 PM	706.7	547.9
6/7/2019	4:54:30 PM	702.9	544.1
6/7/2019	4:54:31 PM	698.4	539.6
6/7/2019	4:54:32 PM	695.1	536.3
6/7/2019	4:54:33 PM	691.4	532.6
6/7/2019	4:54:34 PM	689.2	530.4
6/7/2019	4:54:35 PM	685.3	526.5
6/7/2019	4:54:36 PM	681.1	522.3
6/7/2019	4:54:37 PM	634.3	475.5
6/7/2019	4:54:38 PM	627.8	469.0
6/7/2019	4:54:39 PM	621.7	462.9
6/7/2019	4:54:40 PM	616.9	458.1
6/7/2019	4:54:41 PM	612.0	453.2
6/7/2019	4:54:42 PM	608.5	449.7
6/7/2019	4:54:43 PM	607.3	448.5
6/7/2019	4:54:44 PM	572.3	413.5
6/7/2019	4:54:45 PM	580.8	422.0
6/7/2019	4:54:46 PM	579.5	420.7
6/7/2019	4:54:47 PM	576.4	417.6
6/7/2019	4:54:48 PM	572.3	413.5
6/7/2019	4:54:49 PM	570.1	411.3
6/7/2019	4:54:50 PM	567.6	408.8
6/7/2019	4:54:51 PM	564.8	406.0
6/7/2019	4:54:52 PM	562.0	403.2
6/7/2019	4:54:53 PM	560.1	401.3
6/7/2019	4:54:54 PM	558.1	399.3
6/7/2019	4:54:55 PM	554.6	395.8
6/7/2019	4:54:56 PM	552.4	393.6
6/7/2019	4:54:57 PM	550.7	391.9
6/7/2019	4:54:58 PM	548.2	389.4
6/7/2019	4:54:59 PM	546.2	387.4

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:55:00 PM	542.2	383.4
6/7/2019	4:55:01 PM	538.0	379.2
6/7/2019	4:55:02 PM	533.3	374.5
6/7/2019	4:55:03 PM	529.1	370.3
6/7/2019	4:55:04 PM	523.2	364.4
6/7/2019	4:55:05 PM	519.2	360.4
6/7/2019	4:55:06 PM	515.8	357.0
6/7/2019	4:55:07 PM	511.0	352.2
6/7/2019	4:55:08 PM	506.7	347.9
6/7/2019	4:55:09 PM	503.1	344.3
6/7/2019	4:55:10 PM	500.0	341.2
6/7/2019	4:55:11 PM	495.4	336.6
6/7/2019	4:55:12 PM	492.3	333.5
6/7/2019	4:55:13 PM	488.9	330.1
6/7/2019	4:55:14 PM	485.2	326.4
6/7/2019	4:55:15 PM	481.1	322.3
6/7/2019	4:55:16 PM	478.4	319.6
6/7/2019	4:55:17 PM	475.5	316.7
6/7/2019	4:55:18 PM	472.2	313.4
6/7/2019	4:55:19 PM	468.6	309.8
6/7/2019	4:55:20 PM	465.4	306.6
6/7/2019	4:55:21 PM	463.4	304.6
6/7/2019	4:55:22 PM	460.3	301.5
6/7/2019	4:55:23 PM	456.8	298.0
6/7/2019	4:55:24 PM	453.8	295.0
6/7/2019	4:55:25 PM	451.3	292.5
6/7/2019	4:55:26 PM	449.2	290.4
6/7/2019	4:55:27 PM	446.7	287.9
6/7/2019	4:55:28 PM	443.8	285.0
6/7/2019	4:55:29 PM	440.7	281.9
6/7/2019	4:55:30 PM	437.9	279.1
6/7/2019	4:55:31 PM	435.6	276.8
6/7/2019	4:55:32 PM	433.6	274.8
6/7/2019	4:55:33 PM	430.9	272.1
6/7/2019	4:55:34 PM	428.5	269.7
6/7/2019	4:55:35 PM	425.6	266.8
6/7/2019	4:55:36 PM	423.1	264.3
6/7/2019	4:55:37 PM	420.9	262.1
6/7/2019	4:55:38 PM	418.4	259.6
6/7/2019	4:55:39 PM	416.5	257.7
6/7/2019	4:55:40 PM	414.3	255.5
6/7/2019	4:55:41 PM	411.8	253.0
6/7/2019	4:55:42 PM	409.0	250.2
6/7/2019	4:55:43 PM	406.5	247.7
6/7/2019	4:55:44 PM	404.3	245.5
6/7/2019	4:55:45 PM	401.8	243.0
6/7/2019	4:55:46 PM	400.3	241.5
6/7/2019	4:55:47 PM	398.0	239.2
6/7/2019	4:55:48 PM	396.0	237.2
6/7/2019	4:55:49 PM	393.4	234.6
6/7/2019	4:55:50 PM	391.6	232.8
6/7/2019	4:55:51 PM	389.6	230.8
6/7/2019	4:55:52 PM	387.8	229.0
6/7/2019	4:55:53 PM	386.4	227.6
6/7/2019	4:55:54 PM	384.9	226.1
6/7/2019	4:55:55 PM	383.1	224.3
6/7/2019	4:55:56 PM	381.1	222.3
6/7/2019	4:55:57 PM	379.5	220.7
6/7/2019	4:55:58 PM	378.0	219.2
6/7/2019	4:55:59 PM	376.4	217.6
6/7/2019	4:56:00 PM	375.3	216.5
6/7/2019	4:56:01 PM	373.7	214.9
6/7/2019	4:56:02 PM	372.2	213.4
6/7/2019	4:56:03 PM	370.1	211.3
6/7/2019	4:56:04 PM	368.7	209.9
6/7/2019	4:56:05 PM	367.1	208.3
6/7/2019	4:56:06 PM	366.1	207.3
6/7/2019	4:56:07 PM	364.5	205.7
6/7/2019	4:56:08 PM	363.0	204.2
6/7/2019	4:56:09 PM	361.4	202.6
6/7/2019	4:56:10 PM	359.7	200.9
6/7/2019	4:56:11 PM	358.2	199.4
6/7/2019	4:56:12 PM	356.8	198.0
6/7/2019	4:56:13 PM	355.7	196.9
6/7/2019	4:56:14 PM	354.1	195.3
6/7/2019	4:56:15 PM	352.8	194.0
6/7/2019	4:56:16 PM	351.1	192.3
6/7/2019	4:56:17 PM	349.6	190.8
6/7/2019	4:56:18 PM	348.3	189.5

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:56:19 PM	346.8	188.0
6/7/2019	4:56:20 PM	345.7	186.9
6/7/2019	4:56:21 PM	344.4	185.6
6/7/2019	4:56:22 PM	343.0	184.2
6/7/2019	4:56:23 PM	341.4	182.6
6/7/2019	4:56:24 PM	340.1	181.3
6/7/2019	4:56:25 PM	338.9	180.1
6/7/2019	4:56:26 PM	338.0	179.2
6/7/2019	4:56:27 PM	336.9	178.1
6/7/2019	4:56:28 PM	335.6	176.8
6/7/2019	4:56:29 PM	334.5	175.7
6/7/2019	4:56:30 PM	333.0	174.2
6/7/2019	4:56:31 PM	331.9	173.1
6/7/2019	4:56:32 PM	330.8	172.0
6/7/2019	4:56:33 PM	330.2	171.4
6/7/2019	4:56:34 PM	329.2	170.4
6/7/2019	4:56:35 PM	328.3	169.5
6/7/2019	4:56:36 PM	326.9	168.1
6/7/2019	4:56:37 PM	325.9	167.1
6/7/2019	4:56:38 PM	324.8	166.0
6/7/2019	4:56:39 PM	323.8	165.0
6/7/2019	4:56:40 PM	323.1	164.3
6/7/2019	4:56:41 PM	322.2	163.4
6/7/2019	4:56:42 PM	321.2	162.4
6/7/2019	4:56:43 PM	320.0	161.2
6/7/2019	4:56:44 PM	319.0	160.2
6/7/2019	4:56:45 PM	318.2	159.4
6/7/2019	4:56:46 PM	317.1	158.3
6/7/2019	4:56:47 PM	316.5	157.7
6/7/2019	4:56:48 PM	315.6	156.8
6/7/2019	4:56:49 PM	314.6	155.8
6/7/2019	4:56:50 PM	313.7	154.9
6/7/2019	4:56:51 PM	312.9	154.1
6/7/2019	4:56:52 PM	312.2	153.4
6/7/2019	4:56:53 PM	311.5	152.7
6/7/2019	4:56:54 PM	310.6	151.8
6/7/2019	4:56:55 PM	309.6	150.8
6/7/2019	4:56:56 PM	308.7	149.9
6/7/2019	4:56:57 PM	307.9	149.1
6/7/2019	4:56:58 PM	307.3	148.5
6/7/2019	4:56:59 PM	306.4	147.6
6/7/2019	4:57:00 PM	305.7	146.9
6/7/2019	4:57:01 PM	304.8	146.0
6/7/2019	4:57:02 PM	303.9	145.1
6/7/2019	4:57:03 PM	303.2	144.4
6/7/2019	4:57:04 PM	302.6	143.8
6/7/2019	4:57:05 PM	301.9	143.1
6/7/2019	4:57:06 PM	301.0	142.2
6/7/2019	4:57:07 PM	300.2	141.4
6/7/2019	4:57:08 PM	299.6	140.8
6/7/2019	4:57:09 PM	299.0	140.2
6/7/2019	4:57:10 PM	298.4	139.6
6/7/2019	4:57:11 PM	297.6	138.8
6/7/2019	4:57:12 PM	296.8	138.0
6/7/2019	4:57:13 PM	296.2	137.4
6/7/2019	4:57:14 PM	295.4	136.6
6/7/2019	4:57:15 PM	294.7	135.9
6/7/2019	4:57:16 PM	294.2	135.4
6/7/2019	4:57:17 PM	293.5	134.7
6/7/2019	4:57:18 PM	292.9	134.1
6/7/2019	4:57:19 PM	292.0	133.2
6/7/2019	4:57:20 PM	291.4	132.6
6/7/2019	4:57:21 PM	290.8	132.0
6/7/2019	4:57:22 PM	290.2	131.4
6/7/2019	4:57:23 PM	289.5	130.7
6/7/2019	4:57:24 PM	288.7	129.9
6/7/2019	4:57:25 PM	287.9	129.1
6/7/2019	4:57:26 PM	287.5	128.7
6/7/2019	4:57:27 PM	286.8	128.0
6/7/2019	4:57:28 PM	286.0	127.2
6/7/2019	4:57:29 PM	285.3	126.5
6/7/2019	4:57:30 PM	284.7	125.9
6/7/2019	4:57:31 PM	284.2	125.4
6/7/2019	4:57:32 PM	283.4	124.6
6/7/2019	4:57:33 PM	282.9	124.1
6/7/2019	4:57:34 PM	282.2	123.4
6/7/2019	4:57:35 PM	281.5	122.7
6/7/2019	4:57:36 PM	281.1	122.3
6/7/2019	4:57:37 PM	280.3	121.5

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:57:38 PM	279.8	121.0
6/7/2019	4:57:39 PM	279.2	120.4
6/7/2019	4:57:40 PM	278.7	119.9
6/7/2019	4:57:41 PM	278.2	119.4
6/7/2019	4:57:42 PM	277.6	118.8
6/7/2019	4:57:43 PM	277.1	118.3
6/7/2019	4:57:44 PM	276.5	117.7
6/7/2019	4:57:45 PM	275.8	117.0
6/7/2019	4:57:46 PM	275.4	116.6
6/7/2019	4:57:47 PM	274.8	116.0
6/7/2019	4:57:48 PM	274.3	115.5
6/7/2019	4:57:49 PM	273.7	114.9
6/7/2019	4:57:50 PM	273.4	114.6
6/7/2019	4:57:51 PM	273.0	114.2
6/7/2019	4:57:52 PM	272.3	113.5
6/7/2019	4:57:53 PM	271.8	113.0
6/7/2019	4:57:54 PM	271.6	112.8
6/7/2019	4:57:55 PM	271.1	112.3
6/7/2019	4:57:56 PM	270.5	111.7
6/7/2019	4:57:57 PM	270.2	111.4
6/7/2019	4:57:58 PM	269.7	110.9
6/7/2019	4:57:59 PM	269.3	110.5
6/7/2019	4:58:00 PM	268.8	110.0
6/7/2019	4:58:01 PM	268.4	109.6
6/7/2019	4:58:02 PM	268.0	109.2
6/7/2019	4:58:03 PM	267.5	108.7
6/7/2019	4:58:04 PM	267.0	108.2
6/7/2019	4:58:05 PM	266.6	107.8
6/7/2019	4:58:06 PM	266.3	107.5
6/7/2019	4:58:07 PM	265.9	107.1
6/7/2019	4:58:08 PM	265.3	106.5
6/7/2019	4:58:09 PM	264.9	106.1
6/7/2019	4:58:10 PM	264.6	105.8
6/7/2019	4:58:11 PM	264.1	105.3
6/7/2019	4:58:12 PM	263.7	104.9
6/7/2019	4:58:13 PM	263.4	104.6
6/7/2019	4:58:14 PM	263.0	104.2
6/7/2019	4:58:15 PM	262.5	103.7
6/7/2019	4:58:16 PM	262.1	103.3
6/7/2019	4:58:17 PM	261.7	102.9
6/7/2019	4:58:18 PM	261.4	102.6
6/7/2019	4:58:19 PM	261.0	102.2
6/7/2019	4:58:20 PM	260.4	101.6
6/7/2019	4:58:21 PM	260.0	101.2
6/7/2019	4:58:22 PM	259.7	100.9
6/7/2019	4:58:23 PM	259.3	100.5
6/7/2019	4:58:24 PM	258.9	100.1
6/7/2019	4:58:25 PM	258.3	99.5
6/7/2019	4:58:26 PM	257.9	99.1
6/7/2019	4:58:27 PM	257.5	98.7
6/7/2019	4:58:28 PM	257.1	98.3
6/7/2019	4:58:29 PM	256.7	97.9
6/7/2019	4:58:30 PM	256.2	97.4
6/7/2019	4:58:31 PM	255.6	96.8
6/7/2019	4:58:32 PM	255.2	96.4
6/7/2019	4:58:33 PM	254.8	96.0
6/7/2019	4:58:34 PM	254.3	95.5
6/7/2019	4:58:35 PM	254.0	95.2
6/7/2019	4:58:36 PM	253.6	94.8
6/7/2019	4:58:37 PM	253.2	94.4
6/7/2019	4:58:38 PM	252.7	93.9
6/7/2019	4:58:39 PM	252.4	93.6
6/7/2019	4:58:40 PM	252.0	93.2
6/7/2019	4:58:41 PM	251.7	92.9
6/7/2019	4:58:42 PM	251.4	92.6
6/7/2019	4:58:43 PM	251.0	92.2
6/7/2019	4:58:44 PM	250.6	91.8
6/7/2019	4:58:45 PM	250.2	91.4
6/7/2019	4:58:46 PM	249.8	91.0
6/7/2019	4:58:47 PM	249.4	90.6
6/7/2019	4:58:48 PM	249.2	90.4
6/7/2019	4:58:49 PM	248.8	90.0
6/7/2019	4:58:50 PM	248.4	89.6
6/7/2019	4:58:51 PM	247.9	89.1
6/7/2019	4:58:52 PM	247.6	88.8
6/7/2019	4:58:53 PM	247.2	88.4
6/7/2019	4:58:54 PM	246.8	88.0
6/7/2019	4:58:55 PM	246.5	87.7
6/7/2019	4:58:56 PM	246.2	87.4

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:58:57 PM	245.8	87.0
6/7/2019	4:58:58 PM	245.4	86.6
6/7/2019	4:58:59 PM	245.1	86.3
6/7/2019	4:59:00 PM	244.8	86.0
6/7/2019	4:59:01 PM	244.5	85.7
6/7/2019	4:59:02 PM	244.2	85.4
6/7/2019	4:59:03 PM	243.9	85.1
6/7/2019	4:59:04 PM	243.6	84.8
6/7/2019	4:59:05 PM	243.2	84.4
6/7/2019	4:59:06 PM	242.9	84.1
6/7/2019	4:59:07 PM	242.6	83.8
6/7/2019	4:59:08 PM	242.4	83.6
6/7/2019	4:59:09 PM	242.1	83.3
6/7/2019	4:59:10 PM	241.8	83.0
6/7/2019	4:59:11 PM	241.4	82.6
6/7/2019	4:59:12 PM	241.2	82.4
6/7/2019	4:59:13 PM	240.9	82.1
6/7/2019	4:59:14 PM	240.7	81.9
6/7/2019	4:59:15 PM	240.4	81.6
6/7/2019	4:59:16 PM	240.1	81.3
6/7/2019	4:59:17 PM	239.8	81.0
6/7/2019	4:59:18 PM	239.5	80.7
6/7/2019	4:59:19 PM	239.2	80.4
6/7/2019	4:59:20 PM	239.0	80.2
6/7/2019	4:59:21 PM	238.7	79.9
6/7/2019	4:59:22 PM	238.4	79.6
6/7/2019	4:59:23 PM	238.1	79.3
6/7/2019	4:59:24 PM	237.8	79.0
6/7/2019	4:59:25 PM	237.5	78.7
6/7/2019	4:59:26 PM	237.2	78.4
6/7/2019	4:59:27 PM	236.9	78.1
6/7/2019	4:59:28 PM	236.6	77.8
6/7/2019	4:59:29 PM	236.4	77.6
6/7/2019	4:59:30 PM	236.0	77.2
6/7/2019	4:59:31 PM	235.8	77.0
6/7/2019	4:59:32 PM	235.4	76.6
6/7/2019	4:59:33 PM	235.1	76.3
6/7/2019	4:59:34 PM	234.7	75.9
6/7/2019	4:59:35 PM	234.5	75.7
6/7/2019	4:59:36 PM	234.2	75.4
6/7/2019	4:59:37 PM	233.9	75.1
6/7/2019	4:59:38 PM	233.6	74.8
6/7/2019	4:59:39 PM	233.2	74.4
6/7/2019	4:59:40 PM	232.9	74.1
6/7/2019	4:59:41 PM	232.6	73.8
6/7/2019	4:59:42 PM	232.3	73.5
6/7/2019	4:59:43 PM	232.1	73.3
6/7/2019	4:59:44 PM	231.7	72.9
6/7/2019	4:59:45 PM	231.4	72.6
6/7/2019	4:59:46 PM	231.0	72.2
6/7/2019	4:59:47 PM	230.7	71.9
6/7/2019	4:59:48 PM	230.4	71.6
6/7/2019	4:59:49 PM	230.2	71.4
6/7/2019	4:59:50 PM	229.9	71.1
6/7/2019	4:59:51 PM	229.6	70.8
6/7/2019	4:59:52 PM	229.2	70.4
6/7/2019	4:59:53 PM	229.0	70.2
6/7/2019	4:59:54 PM	228.7	69.9
6/7/2019	4:59:55 PM	228.5	69.7
6/7/2019	4:59:56 PM	228.3	69.5
6/7/2019	4:59:57 PM	228.0	69.2
6/7/2019	4:59:58 PM	227.7	68.9
6/7/2019	4:59:59 PM	227.5	68.7
6/7/2019	5:00:00 PM	227.3	68.5
6/7/2019	5:00:01 PM	227.0	68.2
6/7/2019	5:00:02 PM	226.7	67.9
6/7/2019	5:00:03 PM	226.5	67.7
6/7/2019	5:00:04 PM	226.2	67.4
6/7/2019	5:00:05 PM	226.0	67.2
6/7/2019	5:00:06 PM	225.8	67.0
6/7/2019	5:00:07 PM	225.6	66.8
6/7/2019	5:00:08 PM	225.3	66.5
6/7/2019	5:00:09 PM	225.0	66.2
6/7/2019	5:00:10 PM	224.8	66.0
6/7/2019	5:00:11 PM	224.7	65.9
6/7/2019	5:00:12 PM	224.5	65.7
6/7/2019	5:00:13 PM	224.2	65.4
6/7/2019	5:00:14 PM	224.0	65.2
6/7/2019	5:00:15 PM	223.8	65.0

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:00:16 PM	223.6	64.8
6/7/2019	5:00:17 PM	223.4	64.6
6/7/2019	5:00:18 PM	223.2	64.4
6/7/2019	5:00:19 PM	222.9	64.1
6/7/2019	5:00:20 PM	222.7	63.9
6/7/2019	5:00:21 PM	222.6	63.8
6/7/2019	5:00:22 PM	222.4	63.6
6/7/2019	5:00:23 PM	222.1	63.3
6/7/2019	5:00:24 PM	221.9	63.1
6/7/2019	5:00:25 PM	221.8	63.0
6/7/2019	5:00:26 PM	221.6	62.8
6/7/2019	5:00:27 PM	221.3	62.5
6/7/2019	5:00:28 PM	221.1	62.3
6/7/2019	5:00:29 PM	220.9	62.1
6/7/2019	5:00:30 PM	220.8	62.0
6/7/2019	5:00:31 PM	220.6	61.8
6/7/2019	5:00:32 PM	220.4	61.6
6/7/2019	5:00:33 PM	220.2	61.4
6/7/2019	5:00:34 PM	220.0	61.2
6/7/2019	5:00:35 PM	219.8	61.0
6/7/2019	5:00:36 PM	219.6	60.8
6/7/2019	5:00:37 PM	219.4	60.6
6/7/2019	5:00:38 PM	219.2	60.4
6/7/2019	5:00:39 PM	219.1	60.3
6/7/2019	5:00:40 PM	218.9	60.1
6/7/2019	5:00:41 PM	218.7	59.9
6/7/2019	5:00:42 PM	218.5	59.7
6/7/2019	5:00:43 PM	218.4	59.6
6/7/2019	5:00:44 PM	218.2	59.4
6/7/2019	5:00:45 PM	218.0	59.2
6/7/2019	5:00:46 PM	217.9	59.1
6/7/2019	5:00:47 PM	217.7	58.9
6/7/2019	5:00:48 PM	217.5	58.7
6/7/2019	5:00:49 PM	217.3	58.5
6/7/2019	5:00:50 PM	217.2	58.4
6/7/2019	5:00:51 PM	217.0	58.2
6/7/2019	5:00:52 PM	216.8	58.0
6/7/2019	5:00:53 PM	216.6	57.8
6/7/2019	5:00:54 PM	216.4	57.6
6/7/2019	5:00:55 PM	216.2	57.4
6/7/2019	5:00:56 PM	216.0	57.2
6/7/2019	5:00:57 PM	215.8	57.0
6/7/2019	5:00:58 PM	215.6	56.8
6/7/2019	5:00:59 PM	215.5	56.7
6/7/2019	5:01:00 PM	215.2	56.4
6/7/2019	5:01:01 PM	215.1	56.3
6/7/2019	5:01:02 PM	214.9	56.1
6/7/2019	5:01:03 PM	214.6	55.8
6/7/2019	5:01:04 PM	214.4	55.6
6/7/2019	5:01:05 PM	214.3	55.5
6/7/2019	5:01:06 PM	214.1	55.3
6/7/2019	5:01:07 PM	213.9	55.1
6/7/2019	5:01:08 PM	213.7	54.9
6/7/2019	5:01:09 PM	213.6	54.8
6/7/2019	5:01:10 PM	213.4	54.6
6/7/2019	5:01:11 PM	213.2	54.4
6/7/2019	5:01:12 PM	213.1	54.3
6/7/2019	5:01:13 PM	212.9	54.1
6/7/2019	5:01:14 PM	212.8	54.0
6/7/2019	5:01:15 PM	212.6	53.8
6/7/2019	5:01:16 PM	212.4	53.6
6/7/2019	5:01:17 PM	212.3	53.5
6/7/2019	5:01:18 PM	212.1	53.3
6/7/2019	5:01:19 PM	211.9	53.1
6/7/2019	5:01:20 PM	211.8	53.0
6/7/2019	5:01:21 PM	211.6	52.8
6/7/2019	5:01:22 PM	211.4	52.6
6/7/2019	5:01:23 PM	211.2	52.4
6/7/2019	5:01:24 PM	211.0	52.2
6/7/2019	5:01:25 PM	210.9	52.1
6/7/2019	5:01:26 PM	210.7	51.9
6/7/2019	5:01:27 PM	210.5	51.7
6/7/2019	5:01:28 PM	210.3	51.5
6/7/2019	5:01:29 PM	210.2	51.4
6/7/2019	5:01:30 PM	210.0	51.2
6/7/2019	5:01:31 PM	209.9	51.1
6/7/2019	5:01:32 PM	209.7	50.9
6/7/2019	5:01:33 PM	209.6	50.8
6/7/2019	5:01:34 PM	209.4	50.6

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:01:35 PM	209.2	50.4
6/7/2019	5:01:36 PM	209.1	50.3
6/7/2019	5:01:37 PM	208.9	50.1
6/7/2019	5:01:38 PM	208.8	50.0
6/7/2019	5:01:39 PM	208.7	49.9
6/7/2019	5:01:40 PM	208.6	49.8
6/7/2019	5:01:41 PM	208.4	49.6
6/7/2019	5:01:42 PM	208.3	49.5
6/7/2019	5:01:43 PM	208.1	49.3
6/7/2019	5:01:44 PM	208.0	49.2
6/7/2019	5:01:45 PM	207.9	49.1
6/7/2019	5:01:46 PM	207.8	49.0
6/7/2019	5:01:47 PM	207.7	48.9
6/7/2019	5:01:48 PM	207.6	48.8
6/7/2019	5:01:49 PM	207.5	48.7
6/7/2019	5:01:50 PM	207.4	48.6
6/7/2019	5:01:51 PM	207.3	48.5
6/7/2019	5:01:52 PM	207.2	48.4
6/7/2019	5:01:53 PM	207.1	48.3
6/7/2019	5:01:54 PM	206.9	48.1
6/7/2019	5:01:55 PM	206.8	48.0
6/7/2019	5:01:56 PM	206.7	47.9
6/7/2019	5:01:57 PM	206.5	47.7
6/7/2019	5:01:58 PM	206.4	47.6
6/7/2019	5:01:59 PM	206.3	47.5
6/7/2019	5:02:00 PM	206.2	47.4
6/7/2019	5:02:01 PM	206.0	47.2
6/7/2019	5:02:02 PM	205.9	47.1
6/7/2019	5:02:03 PM	205.7	46.9
6/7/2019	5:02:04 PM	205.6	46.8
6/7/2019	5:02:05 PM	205.4	46.6
6/7/2019	5:02:06 PM	205.3	46.5
6/7/2019	5:02:07 PM	205.1	46.3
6/7/2019	5:02:08 PM	205.0	46.2
6/7/2019	5:02:09 PM	204.8	46.0
6/7/2019	5:02:10 PM	204.6	45.8
6/7/2019	5:02:11 PM	204.4	45.6
6/7/2019	5:02:12 PM	204.3	45.5
6/7/2019	5:02:13 PM	204.2	45.4
6/7/2019	5:02:14 PM	204.0	45.2
6/7/2019	5:02:15 PM	203.8	45.0
6/7/2019	5:02:16 PM	203.7	44.9
6/7/2019	5:02:17 PM	203.5	44.7
6/7/2019	5:02:18 PM	203.3	44.5
6/7/2019	5:02:19 PM	203.2	44.4
6/7/2019	5:02:20 PM	203.0	44.2
6/7/2019	5:02:21 PM	202.9	44.1
6/7/2019	5:02:22 PM	202.7	43.9
6/7/2019	5:02:23 PM	202.5	43.7
6/7/2019	5:02:24 PM	202.4	43.6
6/7/2019	5:02:25 PM	202.2	43.4
6/7/2019	5:02:26 PM	202.1	43.3
6/7/2019	5:02:27 PM	201.9	43.1
6/7/2019	5:02:28 PM	201.8	43.0
6/7/2019	5:02:29 PM	201.6	42.8
6/7/2019	5:02:30 PM	201.4	42.6
6/7/2019	5:02:31 PM	201.3	42.5
6/7/2019	5:02:32 PM	201.1	42.3
6/7/2019	5:02:33 PM	201.0	42.2
6/7/2019	5:02:34 PM	200.9	42.1
6/7/2019	5:02:35 PM	200.8	42.0
6/7/2019	5:02:36 PM	200.6	41.8
6/7/2019	5:02:37 PM	200.4	41.6
6/7/2019	5:02:38 PM	200.3	41.5
6/7/2019	5:02:39 PM	200.2	41.4
6/7/2019	5:02:40 PM	200.1	41.3
6/7/2019	5:02:41 PM	199.9	41.1
6/7/2019	5:02:42 PM	199.8	41.0
6/7/2019	5:02:43 PM	199.7	40.9
6/7/2019	5:02:44 PM	199.5	40.7
6/7/2019	5:02:45 PM	199.4	40.6
6/7/2019	5:02:46 PM	199.3	40.5
6/7/2019	5:02:47 PM	199.2	40.4
6/7/2019	5:02:48 PM	199.1	40.3
6/7/2019	5:02:49 PM	199.0	40.2
6/7/2019	5:02:50 PM	198.9	40.1
6/7/2019	5:02:51 PM	198.8	40.0
6/7/2019	5:02:52 PM	198.7	39.9
6/7/2019	5:02:53 PM	198.6	39.8

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:02:54 PM	198.6	39.8
6/7/2019	5:02:55 PM	198.5	39.7
6/7/2019	5:02:56 PM	198.5	39.7
6/7/2019	5:02:57 PM	198.4	39.6
6/7/2019	5:02:58 PM	198.4	39.6
6/7/2019	5:02:59 PM	198.4	39.6
6/7/2019	5:03:00 PM	198.4	39.6
6/7/2019	5:03:01 PM	198.4	39.6
6/7/2019	5:03:02 PM	198.5	39.7
6/7/2019	5:03:03 PM	198.5	39.7
6/7/2019	5:03:04 PM	198.6	39.8
6/7/2019	5:03:05 PM	198.7	39.9
6/7/2019	5:03:06 PM	198.7	39.9
6/7/2019	5:03:07 PM	198.8	40.0
6/7/2019	5:03:08 PM	198.9	40.1
6/7/2019	5:03:09 PM	198.9	40.1
6/7/2019	5:03:10 PM	199.0	40.2
6/7/2019	5:03:11 PM	199.1	40.3
6/7/2019	5:03:12 PM	199.1	40.3
6/7/2019	5:03:13 PM	199.1	40.3
6/7/2019	5:03:14 PM	199.2	40.4
6/7/2019	5:03:15 PM	199.2	40.4
6/7/2019	5:03:16 PM	199.2	40.4
6/7/2019	5:03:17 PM	199.1	40.3
6/7/2019	5:03:18 PM	199.1	40.3
6/7/2019	5:03:19 PM	199.0	40.2
6/7/2019	5:03:20 PM	199.0	40.2
6/7/2019	5:03:21 PM	198.9	40.1
6/7/2019	5:03:22 PM	198.8	40.0
6/7/2019	5:03:23 PM	198.7	39.9
6/7/2019	5:03:24 PM	198.5	39.7
6/7/2019	5:03:25 PM	198.4	39.6
6/7/2019	5:03:26 PM	198.3	39.5
6/7/2019	5:03:27 PM	198.1	39.3
6/7/2019	5:03:28 PM	198.0	39.2
6/7/2019	5:03:29 PM	197.8	39.0
6/7/2019	5:03:30 PM	197.7	38.9
6/7/2019	5:03:31 PM	197.5	38.7
6/7/2019	5:03:32 PM	197.3	38.5
6/7/2019	5:03:33 PM	197.1	38.3
6/7/2019	5:03:34 PM	196.9	38.1
6/7/2019	5:03:35 PM	196.7	37.9
6/7/2019	5:03:36 PM	196.6	37.8
6/7/2019	5:03:37 PM	196.3	37.5
6/7/2019	5:03:38 PM	196.1	37.3
6/7/2019	5:03:39 PM	196.0	37.2
6/7/2019	5:03:40 PM	195.8	37.0
6/7/2019	5:03:41 PM	195.7	36.9
6/7/2019	5:03:42 PM	195.5	36.7
6/7/2019	5:03:43 PM	195.3	36.5
6/7/2019	5:03:44 PM	195.2	36.4
6/7/2019	5:03:45 PM	195.1	36.3
6/7/2019	5:03:46 PM	194.9	36.1
6/7/2019	5:03:47 PM	194.8	36.0
6/7/2019	5:03:48 PM	194.7	35.9
6/7/2019	5:03:49 PM	194.6	35.8
6/7/2019	5:03:50 PM	194.5	35.7
6/7/2019	5:03:51 PM	194.4	35.6
6/7/2019	5:03:52 PM	194.2	35.4
6/7/2019	5:03:53 PM	194.1	35.3
6/7/2019	5:03:54 PM	194.1	35.3
6/7/2019	5:03:55 PM	193.9	35.1
6/7/2019	5:03:56 PM	193.8	35.0
6/7/2019	5:03:57 PM	193.7	34.9
6/7/2019	5:03:58 PM	193.6	34.8
6/7/2019	5:03:59 PM	193.4	34.6
6/7/2019	5:04:00 PM	193.3	34.5
6/7/2019	5:04:01 PM	193.2	34.4
6/7/2019	5:04:02 PM	193.1	34.3
6/7/2019	5:04:03 PM	193.0	34.2
6/7/2019	5:04:04 PM	192.9	34.1
6/7/2019	5:04:05 PM	192.8	34.0
6/7/2019	5:04:06 PM	192.6	33.8
6/7/2019	5:04:07 PM	192.5	33.7
6/7/2019	5:04:08 PM	192.4	33.6
6/7/2019	5:04:09 PM	192.3	33.5
6/7/2019	5:04:10 PM	192.2	33.4
6/7/2019	5:04:11 PM	192.1	33.3
6/7/2019	5:04:12 PM	192.0	33.2

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:04:13 PM	192.0	33.2
6/7/2019	5:04:14 PM	191.8	33.0
6/7/2019	5:04:15 PM	191.8	33.0
6/7/2019	5:04:16 PM	191.7	32.9
6/7/2019	5:04:17 PM	191.6	32.8
6/7/2019	5:04:18 PM	191.5	32.7
6/7/2019	5:04:19 PM	191.4	32.6
6/7/2019	5:04:20 PM	191.3	32.5
6/7/2019	5:04:21 PM	191.3	32.5
6/7/2019	5:04:22 PM	191.2	32.4
6/7/2019	5:04:23 PM	191.1	32.3
6/7/2019	5:04:24 PM	191.0	32.2
6/7/2019	5:04:25 PM	190.9	32.1
6/7/2019	5:04:26 PM	190.8	32.0
6/7/2019	5:04:27 PM	190.8	32.0
6/7/2019	5:04:28 PM	190.7	31.9
6/7/2019	5:04:29 PM	190.6	31.8
6/7/2019	5:04:30 PM	190.5	31.7
6/7/2019	5:04:31 PM	190.4	31.6
6/7/2019	5:04:32 PM	190.3	31.5
6/7/2019	5:04:33 PM	190.2	31.4
6/7/2019	5:04:34 PM	190.2	31.4
6/7/2019	5:04:35 PM	190.1	31.3
6/7/2019	5:04:36 PM	190.0	31.2
6/7/2019	5:04:37 PM	189.9	31.1
6/7/2019	5:04:38 PM	189.8	31.0
6/7/2019	5:04:39 PM	189.7	30.9
6/7/2019	5:04:40 PM	189.6	30.8
6/7/2019	5:04:41 PM	189.5	30.7
6/7/2019	5:04:42 PM	189.4	30.6
6/7/2019	5:04:43 PM	189.3	30.5
6/7/2019	5:04:44 PM	189.2	30.4
6/7/2019	5:04:45 PM	189.1	30.3
6/7/2019	5:04:46 PM	189.1	30.3
6/7/2019	5:04:47 PM	188.9	30.1
6/7/2019	5:04:48 PM	188.8	30.0
6/7/2019	5:04:49 PM	188.7	29.9
6/7/2019	5:04:50 PM	188.6	29.8
6/7/2019	5:04:51 PM	188.5	29.7
6/7/2019	5:04:52 PM	188.4	29.6
6/7/2019	5:04:53 PM	188.3	29.5
6/7/2019	5:04:54 PM	188.2	29.4
6/7/2019	5:04:55 PM	188.1	29.3
6/7/2019	5:04:56 PM	188.0	29.2
6/7/2019	5:04:57 PM	187.9	29.1
6/7/2019	5:04:58 PM	187.8	29.0
6/7/2019	5:04:59 PM	187.7	28.9
6/7/2019	5:05:00 PM	187.6	28.8
6/7/2019	5:05:01 PM	187.5	28.7
6/7/2019	5:05:02 PM	187.4	28.6
6/7/2019	5:05:03 PM	187.3	28.5
6/7/2019	5:05:04 PM	187.2	28.4
6/7/2019	5:05:05 PM	187.1	28.3
6/7/2019	5:05:06 PM	187.0	28.2
6/7/2019	5:05:07 PM	186.9	28.1
6/7/2019	5:05:08 PM	186.8	28.0
6/7/2019	5:05:09 PM	186.7	27.9
6/7/2019	5:05:10 PM	186.7	27.9
6/7/2019	5:05:11 PM	186.6	27.8
6/7/2019	5:05:12 PM	186.5	27.7
6/7/2019	5:05:13 PM	186.4	27.6
6/7/2019	5:05:14 PM	186.4	27.6
6/7/2019	5:05:15 PM	186.3	27.5
6/7/2019	5:05:16 PM	186.2	27.4
6/7/2019	5:05:17 PM	186.2	27.4
6/7/2019	5:05:18 PM	186.1	27.3
6/7/2019	5:05:19 PM	186.0	27.2
6/7/2019	5:05:20 PM	186.0	27.2
6/7/2019	5:05:21 PM	185.9	27.1
6/7/2019	5:05:22 PM	185.9	27.1
6/7/2019	5:05:23 PM	185.8	27.0
6/7/2019	5:05:24 PM	185.7	26.9
6/7/2019	5:05:25 PM	185.7	26.9
6/7/2019	5:05:26 PM	185.6	26.8
6/7/2019	5:05:27 PM	185.6	26.8
6/7/2019	5:05:28 PM	185.5	26.7
6/7/2019	5:05:29 PM	185.4	26.6
6/7/2019	5:05:30 PM	185.4	26.6

APPENDIX E54: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E2 SEEP-C1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-C1 TEST-2	1625	142.9	21.4
SEEP-C1 TEST-2	1626	141.8	21.8
SEEP-C1 TEST-2	1627	142.6	21.4
SEEP-C1 TEST-2	1628	154.3	21.7
Average		145.4	(µS/cms)
Geometric Mean		145.3	(µS/cms)
Average (pre-test)		158.8	(µS/cms)
Average (post-test)		187.2	(µS/cms)

Table E3 SEEP-C1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-C1 TEST-2	100	1,115	24.2
SEEP-C1 TEST-2	1,000	2,150	24.2
SEEP-C1 TEST-2	10,000	16,651	24.1
SEEP-C1 TEST-2	100,000	132,589	24.1

Table E4 SEEP-C1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,300	mg
Slope of Calibration Curve	K	1.3293	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	477,164.5	(s) . (µS/cms)
Calculated Flow Rate	Q	0.8	L/s
		13.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:12:23 PM	164.0	-
6/7/2019	5:12:24 PM	164.0	-
6/7/2019	5:12:25 PM	164.0	-
6/7/2019	5:12:26 PM	163.9	-
6/7/2019	5:12:27 PM	163.9	-
6/7/2019	5:12:28 PM	163.9	-
6/7/2019	5:12:29 PM	163.8	-
6/7/2019	5:12:30 PM	163.8	-
6/7/2019	5:12:31 PM	163.7	-
6/7/2019	5:12:32 PM	163.7	-
6/7/2019	5:12:33 PM	163.6	-
6/7/2019	5:12:34 PM	163.5	-
6/7/2019	5:12:35 PM	163.5	-
6/7/2019	5:12:36 PM	163.4	-
6/7/2019	5:12:37 PM	163.3	-
6/7/2019	5:12:38 PM	163.3	-
6/7/2019	5:12:39 PM	163.3	-
6/7/2019	5:12:40 PM	163.2	-
6/7/2019	5:12:41 PM	163.2	-
6/7/2019	5:12:42 PM	163.2	-
6/7/2019	5:12:43 PM	163.2	-
6/7/2019	5:12:44 PM	163.2	-
6/7/2019	5:12:45 PM	163.2	-
6/7/2019	5:12:46 PM	163.2	-
6/7/2019	5:12:47 PM	163.2	-
6/7/2019	5:12:48 PM	163.2	-
6/7/2019	5:12:49 PM	163.2	-
6/7/2019	5:12:50 PM	163.2	-
6/7/2019	5:12:51 PM	163.2	-
6/7/2019	5:12:52 PM	163.2	-
6/7/2019	5:12:53 PM	163.1	-
6/7/2019	5:12:54 PM	163.1	-
6/7/2019	5:12:55 PM	163.1	-
6/7/2019	5:12:56 PM	163.1	-
6/7/2019	5:12:57 PM	163.0	-
6/7/2019	5:12:58 PM	163.0	-
6/7/2019	5:12:59 PM	163.0	-
6/7/2019	5:13:00 PM	163.0	-
6/7/2019	5:13:01 PM	162.9	-
6/7/2019	5:13:02 PM	162.9	-
6/7/2019	5:13:03 PM	163.0	-
6/7/2019	5:13:04 PM	163.1	-
6/7/2019	5:13:05 PM	163.7	-
6/7/2019	5:13:06 PM	164.9	-
6/7/2019	5:13:07 PM	218.5	55.1
6/7/2019	5:13:08 PM	265.9	102.5
6/7/2019	5:13:09 PM	372.2	208.8
6/7/2019	5:13:10 PM	498.2	334.8
6/7/2019	5:13:11 PM	686.7	523.3
6/7/2019	5:13:12 PM	1152.7	989.3
6/7/2019	5:13:13 PM	1387.1	1223.7
6/7/2019	5:13:14 PM	1922.3	1758.9
6/7/2019	5:13:15 PM	2488.5	2325.1
6/7/2019	5:13:16 PM	3161.7	2998.3
6/7/2019	5:13:17 PM	3964.7	3801.3
6/7/2019	5:13:18 PM	4662.6	4499.2
6/7/2019	5:13:19 PM	5445.5	5282.1
6/7/2019	5:13:20 PM	6736.9	6573.5
6/7/2019	5:13:21 PM	7032.4	6869.0
6/7/2019	5:13:22 PM	8457.9	8294.5
6/7/2019	5:13:23 PM	9345.7	9182.3
6/7/2019	5:13:24 PM	9740.9	9577.5
6/7/2019	5:13:25 PM	10228.9	10065.5
6/7/2019	5:13:26 PM	10445.5	10282.1
6/7/2019	5:13:27 PM	10630.8	10467.4
6/7/2019	5:13:28 PM	11474.4	11311.0
6/7/2019	5:13:29 PM	11593.4	11430.0
6/7/2019	5:13:30 PM	11651.7	11488.3
6/7/2019	5:13:31 PM	11668.3	11504.9
6/7/2019	5:13:32 PM	11662.4	11499.0

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:13:33 PM	11632.3	11468.9
6/7/2019	5:13:34 PM	11576.9	11413.5
6/7/2019	5:13:35 PM	11500.0	11336.6
6/7/2019	5:13:36 PM	11412.7	11249.3
6/7/2019	5:13:37 PM	10517.0	10353.6
6/7/2019	5:13:38 PM	10256.3	10092.9
6/7/2019	5:13:39 PM	9859.0	9695.6
6/7/2019	5:13:40 PM	9743.6	9580.2
6/7/2019	5:13:41 PM	9482.2	9318.8
6/7/2019	5:13:42 PM	8784.0	8620.6
6/7/2019	5:13:43 PM	8472.1	8308.7
6/7/2019	5:13:44 PM	7978.5	7815.1
6/7/2019	5:13:45 PM	7600.1	7436.7
6/7/2019	5:13:46 PM	7536.2	7372.8
6/7/2019	5:13:47 PM	7385.5	7222.1
6/7/2019	5:13:48 PM	6685.6	6522.2
6/7/2019	5:13:49 PM	6296.2	6132.8
6/7/2019	5:13:50 PM	6006.7	5843.3
6/7/2019	5:13:51 PM	5682.1	5518.7
6/7/2019	5:13:52 PM	5592.0	5428.6
6/7/2019	5:13:53 PM	5065.0	4901.6
6/7/2019	5:13:54 PM	4854.4	4691.0
6/7/2019	5:13:55 PM	4636.3	4472.9
6/7/2019	5:13:56 PM	4390.6	4227.2
6/7/2019	5:13:57 PM	4265.2	4101.8
6/7/2019	5:13:58 PM	4145.8	3982.4
6/7/2019	5:13:59 PM	3732.2	3568.8
6/7/2019	5:14:00 PM	3563.9	3400.5
6/7/2019	5:14:01 PM	3344.4	3181.0
6/7/2019	5:14:02 PM	3262.7	3099.3
6/7/2019	5:14:03 PM	3181.8	3018.4
6/7/2019	5:14:04 PM	2929.9	2766.5
6/7/2019	5:14:05 PM	2785.3	2621.9
6/7/2019	5:14:06 PM	2584.3	2420.9
6/7/2019	5:14:07 PM	2472.0	2308.6
6/7/2019	5:14:08 PM	2448.7	2285.3
6/7/2019	5:14:09 PM	2384.3	2220.9
6/7/2019	5:14:10 PM	2125.6	1962.2
6/7/2019	5:14:11 PM	2053.6	1890.2
6/7/2019	5:14:12 PM	1956.1	1792.7
6/7/2019	5:14:13 PM	1943.5	1780.1
6/7/2019	5:14:14 PM	1773.9	1610.5
6/7/2019	5:14:15 PM	1706.1	1542.7
6/7/2019	5:14:16 PM	1644.1	1480.7
6/7/2019	5:14:17 PM	1611.6	1448.2
6/7/2019	5:14:18 PM	1578.0	1414.6
6/7/2019	5:14:19 PM	1543.7	1380.3
6/7/2019	5:14:20 PM	1510.4	1347.0
6/7/2019	5:14:21 PM	1388.0	1224.6
6/7/2019	5:14:22 PM	1325.9	1162.5
6/7/2019	5:14:23 PM	1277.5	1114.1
6/7/2019	5:14:24 PM	1250.9	1087.5
6/7/2019	5:14:25 PM	1230.8	1067.4
6/7/2019	5:14:26 PM	1139.0	975.6
6/7/2019	5:14:27 PM	1114.6	951.2
6/7/2019	5:14:28 PM	1083.0	919.6
6/7/2019	5:14:29 PM	1052.0	888.6
6/7/2019	5:14:30 PM	1038.7	875.3
6/7/2019	5:14:31 PM	1023.0	859.6
6/7/2019	5:14:32 PM	1005.7	842.3
6/7/2019	5:14:33 PM	993.3	829.9
6/7/2019	5:14:34 PM	916.6	753.2
6/7/2019	5:14:35 PM	888.1	724.7
6/7/2019	5:14:36 PM	866.4	703.0
6/7/2019	5:14:37 PM	860.5	697.1
6/7/2019	5:14:38 PM	848.2	684.8
6/7/2019	5:14:39 PM	837.6	674.2
6/7/2019	5:14:40 PM	826.6	663.2
6/7/2019	5:14:41 PM	817.7	654.3
6/7/2019	5:14:42 PM	763.2	599.8
6/7/2019	5:14:43 PM	747.2	583.8
6/7/2019	5:14:44 PM	732.5	569.1
6/7/2019	5:14:45 PM	729.5	566.1
6/7/2019	5:14:46 PM	718.1	554.7
6/7/2019	5:14:47 PM	710.5	547.1
6/7/2019	5:14:48 PM	704.2	540.8
6/7/2019	5:14:49 PM	697.4	534.0

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:14:50 PM	691.4	528.0
6/7/2019	5:14:51 PM	685.2	521.8
6/7/2019	5:14:52 PM	636.5	473.1
6/7/2019	5:14:53 PM	623.4	460.0
6/7/2019	5:14:54 PM	612.9	449.5
6/7/2019	5:14:55 PM	607.5	444.1
6/7/2019	5:14:56 PM	605.1	441.7
6/7/2019	5:14:57 PM	545.1	381.7
6/7/2019	5:14:58 PM	577.3	413.9
6/7/2019	5:14:59 PM	574.0	410.6
6/7/2019	5:15:00 PM	569.6	406.2
6/7/2019	5:15:01 PM	564.8	401.4
6/7/2019	5:15:02 PM	559.5	396.1
6/7/2019	5:15:03 PM	555.3	391.9
6/7/2019	5:15:04 PM	552.2	388.8
6/7/2019	5:15:05 PM	548.7	385.3
6/7/2019	5:15:06 PM	545.4	382.0
6/7/2019	5:15:07 PM	541.8	378.4
6/7/2019	5:15:08 PM	538.6	375.2
6/7/2019	5:15:09 PM	535.1	371.7
6/7/2019	5:15:10 PM	532.0	368.6
6/7/2019	5:15:11 PM	528.7	365.3
6/7/2019	5:15:12 PM	525.9	362.5
6/7/2019	5:15:13 PM	522.1	358.7
6/7/2019	5:15:14 PM	516.3	352.9
6/7/2019	5:15:15 PM	510.0	346.6
6/7/2019	5:15:16 PM	504.4	341.0
6/7/2019	5:15:17 PM	498.1	334.7
6/7/2019	5:15:18 PM	492.8	329.4
6/7/2019	5:15:19 PM	487.1	323.7
6/7/2019	5:15:20 PM	482.2	318.8
6/7/2019	5:15:21 PM	476.8	313.4
6/7/2019	5:15:22 PM	472.1	308.7
6/7/2019	5:15:23 PM	466.9	303.5
6/7/2019	5:15:24 PM	462.4	299.0
6/7/2019	5:15:25 PM	457.5	294.1
6/7/2019	5:15:26 PM	453.3	289.9
6/7/2019	5:15:27 PM	448.6	285.2
6/7/2019	5:15:28 PM	444.8	281.4
6/7/2019	5:15:29 PM	440.6	277.2
6/7/2019	5:15:30 PM	437.2	273.8
6/7/2019	5:15:31 PM	433.5	270.1
6/7/2019	5:15:32 PM	430.2	266.8
6/7/2019	5:15:33 PM	426.6	263.2
6/7/2019	5:15:34 PM	423.6	260.2
6/7/2019	5:15:35 PM	420.3	256.9
6/7/2019	5:15:36 PM	417.1	253.7
6/7/2019	5:15:37 PM	414.3	250.9
6/7/2019	5:15:38 PM	411.1	247.7
6/7/2019	5:15:39 PM	408.4	245.0
6/7/2019	5:15:40 PM	405.4	242.0
6/7/2019	5:15:41 PM	402.8	239.4
6/7/2019	5:15:42 PM	399.8	236.4
6/7/2019	5:15:43 PM	397.1	233.7
6/7/2019	5:15:44 PM	393.9	230.5
6/7/2019	5:15:45 PM	391.3	227.9
6/7/2019	5:15:46 PM	388.3	224.9
6/7/2019	5:15:47 PM	385.7	222.3
6/7/2019	5:15:48 PM	382.8	219.4
6/7/2019	5:15:49 PM	380.3	216.9
6/7/2019	5:15:50 PM	377.6	214.2
6/7/2019	5:15:51 PM	375.2	211.8
6/7/2019	5:15:52 PM	372.5	209.1
6/7/2019	5:15:53 PM	370.3	206.9
6/7/2019	5:15:54 PM	367.8	204.4
6/7/2019	5:15:55 PM	365.7	202.3
6/7/2019	5:15:56 PM	363.3	199.9
6/7/2019	5:15:57 PM	361.1	197.7
6/7/2019	5:15:58 PM	358.8	195.4
6/7/2019	5:15:59 PM	356.9	193.5
6/7/2019	5:16:00 PM	354.8	191.4
6/7/2019	5:16:01 PM	353.0	189.6
6/7/2019	5:16:02 PM	351.0	187.6
6/7/2019	5:16:03 PM	349.2	185.8
6/7/2019	5:16:04 PM	347.3	183.9
6/7/2019	5:16:05 PM	345.5	182.1
6/7/2019	5:16:06 PM	343.4	180.0
6/7/2019	5:16:07 PM	341.1	177.7
6/7/2019	5:16:08 PM	339.7	176.3

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:16:09 PM	338.0	174.6
6/7/2019	5:16:10 PM	336.2	172.8
6/7/2019	5:16:11 PM	334.5	171.1
6/7/2019	5:16:12 PM	332.1	168.7
6/7/2019	5:16:13 PM	330.9	167.5
6/7/2019	5:16:14 PM	329.0	165.6
6/7/2019	5:16:15 PM	327.3	163.9
6/7/2019	5:16:16 PM	325.5	162.1
6/7/2019	5:16:17 PM	323.7	160.3
6/7/2019	5:16:18 PM	322.5	159.1
6/7/2019	5:16:19 PM	320.6	157.2
6/7/2019	5:16:20 PM	319.5	156.1
6/7/2019	5:16:21 PM	317.7	154.3
6/7/2019	5:16:22 PM	316.1	152.7
6/7/2019	5:16:23 PM	314.9	151.5
6/7/2019	5:16:24 PM	313.3	149.9
6/7/2019	5:16:25 PM	312.0	148.6
6/7/2019	5:16:26 PM	310.6	147.2
6/7/2019	5:16:27 PM	309.4	146.0
6/7/2019	5:16:28 PM	308.0	144.6
6/7/2019	5:16:29 PM	306.8	143.4
6/7/2019	5:16:30 PM	305.5	142.1
6/7/2019	5:16:31 PM	304.4	141.0
6/7/2019	5:16:32 PM	303.1	139.7
6/7/2019	5:16:33 PM	301.9	138.5
6/7/2019	5:16:34 PM	300.6	137.2
6/7/2019	5:16:35 PM	299.7	136.3
6/7/2019	5:16:36 PM	298.3	134.9
6/7/2019	5:16:37 PM	297.2	133.8
6/7/2019	5:16:38 PM	296.2	132.8
6/7/2019	5:16:39 PM	295.1	131.7
6/7/2019	5:16:40 PM	294.2	130.8
6/7/2019	5:16:41 PM	293.1	129.7
6/7/2019	5:16:42 PM	292.1	128.7
6/7/2019	5:16:43 PM	291.0	127.6
6/7/2019	5:16:44 PM	290.1	126.7
6/7/2019	5:16:45 PM	289.1	125.7
6/7/2019	5:16:46 PM	288.2	124.8
6/7/2019	5:16:47 PM	287.1	123.7
6/7/2019	5:16:48 PM	286.2	122.8
6/7/2019	5:16:49 PM	285.1	121.7
6/7/2019	5:16:50 PM	284.1	120.7
6/7/2019	5:16:51 PM	283.0	119.6
6/7/2019	5:16:52 PM	282.1	118.7
6/7/2019	5:16:53 PM	281.0	117.6
6/7/2019	5:16:54 PM	280.1	116.7
6/7/2019	5:16:55 PM	279.1	115.7
6/7/2019	5:16:56 PM	278.2	114.8
6/7/2019	5:16:57 PM	277.2	113.8
6/7/2019	5:16:58 PM	276.3	112.9
6/7/2019	5:16:59 PM	275.4	112.0
6/7/2019	5:17:00 PM	274.7	111.3
6/7/2019	5:17:01 PM	273.8	110.4
6/7/2019	5:17:02 PM	273.1	109.7
6/7/2019	5:17:03 PM	272.3	108.9
6/7/2019	5:17:04 PM	271.5	108.1
6/7/2019	5:17:05 PM	270.7	107.3
6/7/2019	5:17:06 PM	270.0	106.6
6/7/2019	5:17:07 PM	269.1	105.7
6/7/2019	5:17:08 PM	268.4	105.0
6/7/2019	5:17:09 PM	267.7	104.3
6/7/2019	5:17:10 PM	267.0	103.6
6/7/2019	5:17:11 PM	266.2	102.8
6/7/2019	5:17:12 PM	265.5	102.1
6/7/2019	5:17:13 PM	264.8	101.4
6/7/2019	5:17:14 PM	264.1	100.7
6/7/2019	5:17:15 PM	263.4	100.0
6/7/2019	5:17:16 PM	262.7	99.3
6/7/2019	5:17:17 PM	261.9	98.5
6/7/2019	5:17:18 PM	261.3	97.9
6/7/2019	5:17:19 PM	260.7	97.3
6/7/2019	5:17:20 PM	260.1	96.7
6/7/2019	5:17:21 PM	259.4	96.0
6/7/2019	5:17:22 PM	258.8	95.4
6/7/2019	5:17:23 PM	258.2	94.8
6/7/2019	5:17:24 PM	257.5	94.1
6/7/2019	5:17:25 PM	256.9	93.5
6/7/2019	5:17:26 PM	256.3	92.9
6/7/2019	5:17:27 PM	255.7	92.3

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:17:28 PM	255.2	91.8
6/7/2019	5:17:29 PM	254.7	91.3
6/7/2019	5:17:30 PM	254.2	90.8
6/7/2019	5:17:31 PM	253.7	90.3
6/7/2019	5:17:32 PM	253.2	89.8
6/7/2019	5:17:33 PM	252.7	89.3
6/7/2019	5:17:34 PM	252.1	88.7
6/7/2019	5:17:35 PM	251.6	88.2
6/7/2019	5:17:36 PM	251.1	87.7
6/7/2019	5:17:37 PM	250.6	87.2
6/7/2019	5:17:38 PM	250.1	86.7
6/7/2019	5:17:39 PM	249.6	86.2
6/7/2019	5:17:40 PM	249.0	85.6
6/7/2019	5:17:41 PM	248.5	85.1
6/7/2019	5:17:42 PM	247.9	84.5
6/7/2019	5:17:43 PM	247.5	84.1
6/7/2019	5:17:44 PM	246.9	83.5
6/7/2019	5:17:45 PM	246.4	83.0
6/7/2019	5:17:46 PM	245.8	82.4
6/7/2019	5:17:47 PM	245.4	82.0
6/7/2019	5:17:48 PM	244.9	81.5
6/7/2019	5:17:49 PM	244.4	81.0
6/7/2019	5:17:50 PM	243.9	80.5
6/7/2019	5:17:51 PM	243.5	80.1
6/7/2019	5:17:52 PM	243.0	79.6
6/7/2019	5:17:53 PM	242.6	79.2
6/7/2019	5:17:54 PM	242.1	78.7
6/7/2019	5:17:55 PM	241.6	78.2
6/7/2019	5:17:56 PM	241.2	77.8
6/7/2019	5:17:57 PM	240.7	77.3
6/7/2019	5:17:58 PM	240.3	76.9
6/7/2019	5:17:59 PM	239.9	76.5
6/7/2019	5:18:00 PM	239.4	76.0
6/7/2019	5:18:01 PM	239.0	75.6
6/7/2019	5:18:02 PM	238.6	75.2
6/7/2019	5:18:03 PM	238.2	74.8
6/7/2019	5:18:04 PM	237.8	74.4
6/7/2019	5:18:05 PM	237.4	74.0
6/7/2019	5:18:06 PM	236.9	73.5
6/7/2019	5:18:07 PM	236.6	73.2
6/7/2019	5:18:08 PM	236.1	72.7
6/7/2019	5:18:09 PM	235.8	72.4
6/7/2019	5:18:10 PM	235.3	71.9
6/7/2019	5:18:11 PM	234.9	71.5
6/7/2019	5:18:12 PM	234.5	71.1
6/7/2019	5:18:13 PM	234.1	70.7
6/7/2019	5:18:14 PM	233.7	70.3
6/7/2019	5:18:15 PM	233.3	69.9
6/7/2019	5:18:16 PM	232.9	69.5
6/7/2019	5:18:17 PM	232.5	69.1
6/7/2019	5:18:18 PM	232.2	68.8
6/7/2019	5:18:19 PM	231.8	68.4
6/7/2019	5:18:20 PM	231.4	68.0
6/7/2019	5:18:21 PM	231.0	67.6
6/7/2019	5:18:22 PM	230.6	67.2
6/7/2019	5:18:23 PM	230.2	66.8
6/7/2019	5:18:24 PM	229.8	66.4
6/7/2019	5:18:25 PM	229.5	66.1
6/7/2019	5:18:26 PM	229.1	65.7
6/7/2019	5:18:27 PM	228.7	65.3
6/7/2019	5:18:28 PM	228.4	65.0
6/7/2019	5:18:29 PM	228.0	64.6
6/7/2019	5:18:30 PM	227.7	64.3
6/7/2019	5:18:31 PM	227.3	63.9
6/7/2019	5:18:32 PM	227.0	63.6
6/7/2019	5:18:33 PM	226.6	63.2
6/7/2019	5:18:34 PM	226.3	62.9
6/7/2019	5:18:35 PM	226.0	62.6
6/7/2019	5:18:36 PM	225.7	62.3
6/7/2019	5:18:37 PM	225.3	61.9
6/7/2019	5:18:38 PM	225.0	61.6
6/7/2019	5:18:39 PM	224.7	61.3
6/7/2019	5:18:40 PM	224.4	61.0
6/7/2019	5:18:41 PM	224.1	60.7
6/7/2019	5:18:42 PM	223.8	60.4
6/7/2019	5:18:43 PM	223.5	60.1
6/7/2019	5:18:44 PM	223.2	59.8
6/7/2019	5:18:45 PM	222.9	59.5
6/7/2019	5:18:46 PM	222.7	59.3

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:18:47 PM	222.4	59.0
6/7/2019	5:18:48 PM	222.1	58.7
6/7/2019	5:18:49 PM	221.9	58.5
6/7/2019	5:18:50 PM	221.6	58.2
6/7/2019	5:18:51 PM	221.3	57.9
6/7/2019	5:18:52 PM	221.1	57.7
6/7/2019	5:18:53 PM	220.8	57.4
6/7/2019	5:18:54 PM	220.5	57.1
6/7/2019	5:18:55 PM	220.2	56.8
6/7/2019	5:18:56 PM	220.0	56.6
6/7/2019	5:18:57 PM	219.7	56.3
6/7/2019	5:18:58 PM	219.4	56.0
6/7/2019	5:18:59 PM	219.1	55.7
6/7/2019	5:19:00 PM	218.8	55.4
6/7/2019	5:19:01 PM	218.6	55.2
6/7/2019	5:19:02 PM	218.3	54.9
6/7/2019	5:19:03 PM	218.1	54.7
6/7/2019	5:19:04 PM	217.8	54.4
6/7/2019	5:19:05 PM	217.6	54.2
6/7/2019	5:19:06 PM	217.4	54.0
6/7/2019	5:19:07 PM	217.1	53.7
6/7/2019	5:19:08 PM	217.0	53.6
6/7/2019	5:19:09 PM	216.8	53.4
6/7/2019	5:19:10 PM	216.6	53.2
6/7/2019	5:19:11 PM	216.4	53.0
6/7/2019	5:19:12 PM	216.2	52.8
6/7/2019	5:19:13 PM	216.1	52.7
6/7/2019	5:19:14 PM	215.9	52.5
6/7/2019	5:19:15 PM	215.7	52.3
6/7/2019	5:19:16 PM	215.4	52.0
6/7/2019	5:19:17 PM	215.2	51.8
6/7/2019	5:19:18 PM	215.0	51.6
6/7/2019	5:19:19 PM	214.8	51.4
6/7/2019	5:19:20 PM	214.6	51.2
6/7/2019	5:19:21 PM	214.4	51.0
6/7/2019	5:19:22 PM	214.0	50.6
6/7/2019	5:19:23 PM	213.8	50.4
6/7/2019	5:19:24 PM	213.6	50.2
6/7/2019	5:19:25 PM	213.3	49.9
6/7/2019	5:19:26 PM	213.0	49.6
6/7/2019	5:19:27 PM	212.7	49.3
6/7/2019	5:19:28 PM	212.5	49.1
6/7/2019	5:19:29 PM	212.2	48.8
6/7/2019	5:19:30 PM	212.0	48.6
6/7/2019	5:19:31 PM	211.7	48.3
6/7/2019	5:19:32 PM	211.4	48.0
6/7/2019	5:19:33 PM	211.1	47.7
6/7/2019	5:19:34 PM	210.8	47.4
6/7/2019	5:19:35 PM	210.6	47.2
6/7/2019	5:19:36 PM	210.3	46.9
6/7/2019	5:19:37 PM	210.0	46.6
6/7/2019	5:19:38 PM	209.8	46.4
6/7/2019	5:19:39 PM	209.5	46.1
6/7/2019	5:19:40 PM	209.3	45.9
6/7/2019	5:19:41 PM	209.1	45.7
6/7/2019	5:19:42 PM	208.8	45.4
6/7/2019	5:19:43 PM	208.7	45.3
6/7/2019	5:19:44 PM	208.5	45.1
6/7/2019	5:19:45 PM	208.3	44.9
6/7/2019	5:19:46 PM	208.1	44.7
6/7/2019	5:19:47 PM	208.0	44.6
6/7/2019	5:19:48 PM	207.8	44.4
6/7/2019	5:19:49 PM	207.7	44.3
6/7/2019	5:19:50 PM	207.6	44.2
6/7/2019	5:19:51 PM	207.4	44.0
6/7/2019	5:19:52 PM	207.3	43.9
6/7/2019	5:19:53 PM	207.2	43.8
6/7/2019	5:19:54 PM	207.0	43.6
6/7/2019	5:19:55 PM	206.9	43.5
6/7/2019	5:19:56 PM	206.7	43.3
6/7/2019	5:19:57 PM	206.6	43.2
6/7/2019	5:19:58 PM	206.5	43.1
6/7/2019	5:19:59 PM	206.3	42.9
6/7/2019	5:20:00 PM	206.2	42.8
6/7/2019	5:20:01 PM	206.0	42.6
6/7/2019	5:20:02 PM	205.8	42.4
6/7/2019	5:20:03 PM	205.6	42.2
6/7/2019	5:20:04 PM	205.5	42.1
6/7/2019	5:20:05 PM	205.2	41.8

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:20:06 PM	205.0	41.6
6/7/2019	5:20:07 PM	204.8	41.4
6/7/2019	5:20:08 PM	204.6	41.2
6/7/2019	5:20:09 PM	204.4	41.0
6/7/2019	5:20:10 PM	204.1	40.7
6/7/2019	5:20:11 PM	203.9	40.5
6/7/2019	5:20:12 PM	203.6	40.2
6/7/2019	5:20:13 PM	203.4	40.0
6/7/2019	5:20:14 PM	203.2	39.8
6/7/2019	5:20:15 PM	202.9	39.5
6/7/2019	5:20:16 PM	202.7	39.3
6/7/2019	5:20:17 PM	202.5	39.1
6/7/2019	5:20:18 PM	202.3	38.9
6/7/2019	5:20:19 PM	202.1	38.7
6/7/2019	5:20:20 PM	202.0	38.6
6/7/2019	5:20:21 PM	201.8	38.4
6/7/2019	5:20:22 PM	201.7	38.3
6/7/2019	5:20:23 PM	201.5	38.1
6/7/2019	5:20:24 PM	201.4	38.0
6/7/2019	5:20:25 PM	201.3	37.9
6/7/2019	5:20:26 PM	201.1	37.7
6/7/2019	5:20:27 PM	201.0	37.6
6/7/2019	5:20:28 PM	200.9	37.5
6/7/2019	5:20:29 PM	200.8	37.4
6/7/2019	5:20:30 PM	200.6	37.2
6/7/2019	5:20:31 PM	200.5	37.1
6/7/2019	5:20:32 PM	200.4	37.0
6/7/2019	5:20:33 PM	200.3	36.9
6/7/2019	5:20:34 PM	200.2	36.8
6/7/2019	5:20:35 PM	200.0	36.6
6/7/2019	5:20:36 PM	199.9	36.5
6/7/2019	5:20:37 PM	199.8	36.4
6/7/2019	5:20:38 PM	199.6	36.2
6/7/2019	5:20:39 PM	199.5	36.1
6/7/2019	5:20:40 PM	199.3	35.9
6/7/2019	5:20:41 PM	199.2	35.8
6/7/2019	5:20:42 PM	199.1	35.7
6/7/2019	5:20:43 PM	198.9	35.5
6/7/2019	5:20:44 PM	198.7	35.3
6/7/2019	5:20:45 PM	198.6	35.2
6/7/2019	5:20:46 PM	198.4	35.0
6/7/2019	5:20:47 PM	198.3	34.9
6/7/2019	5:20:48 PM	198.1	34.7
6/7/2019	5:20:49 PM	198.0	34.6
6/7/2019	5:20:50 PM	197.9	34.5
6/7/2019	5:20:51 PM	197.7	34.3
6/7/2019	5:20:52 PM	197.6	34.2
6/7/2019	5:20:53 PM	197.5	34.1
6/7/2019	5:20:54 PM	197.3	33.9
6/7/2019	5:20:55 PM	197.2	33.8
6/7/2019	5:20:56 PM	197.1	33.7
6/7/2019	5:20:57 PM	197.0	33.6
6/7/2019	5:20:58 PM	196.9	33.5
6/7/2019	5:20:59 PM	196.9	33.5
6/7/2019	5:21:00 PM	196.8	33.4
6/7/2019	5:21:01 PM	196.7	33.3
6/7/2019	5:21:02 PM	196.6	33.2
6/7/2019	5:21:03 PM	196.5	33.1
6/7/2019	5:21:04 PM	196.4	33.0
6/7/2019	5:21:05 PM	196.3	32.9
6/7/2019	5:21:06 PM	196.2	32.8
6/7/2019	5:21:07 PM	196.1	32.7
6/7/2019	5:21:08 PM	196.0	32.6
6/7/2019	5:21:09 PM	196.0	32.6
6/7/2019	5:21:10 PM	195.9	32.5
6/7/2019	5:21:11 PM	195.8	32.4
6/7/2019	5:21:12 PM	195.7	32.3
6/7/2019	5:21:13 PM	195.6	32.2
6/7/2019	5:21:14 PM	195.4	32.0
6/7/2019	5:21:15 PM	195.3	31.9
6/7/2019	5:21:16 PM	195.2	31.8
6/7/2019	5:21:17 PM	195.1	31.7
6/7/2019	5:21:18 PM	195.0	31.6
6/7/2019	5:21:19 PM	194.9	31.5
6/7/2019	5:21:20 PM	194.8	31.4
6/7/2019	5:21:21 PM	194.7	31.3
6/7/2019	5:21:22 PM	194.5	31.1
6/7/2019	5:21:23 PM	194.4	31.0
6/7/2019	5:21:24 PM	194.3	30.9

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:21:25 PM	194.1	30.7
6/7/2019	5:21:26 PM	194.0	30.6
6/7/2019	5:21:27 PM	193.9	30.5
6/7/2019	5:21:28 PM	193.7	30.3
6/7/2019	5:21:29 PM	193.6	30.2
6/7/2019	5:21:30 PM	193.4	30.0
6/7/2019	5:21:31 PM	193.2	29.8
6/7/2019	5:21:32 PM	193.1	29.7
6/7/2019	5:21:33 PM	192.9	29.5
6/7/2019	5:21:34 PM	192.7	29.3
6/7/2019	5:21:35 PM	192.6	29.2
6/7/2019	5:21:36 PM	192.4	29.0
6/7/2019	5:21:37 PM	192.2	28.8
6/7/2019	5:21:38 PM	192.1	28.7
6/7/2019	5:21:39 PM	191.9	28.5
6/7/2019	5:21:40 PM	191.7	28.3
6/7/2019	5:21:41 PM	191.6	28.2
6/7/2019	5:21:42 PM	191.4	28.0
6/7/2019	5:21:43 PM	191.3	27.9
6/7/2019	5:21:44 PM	191.2	27.8
6/7/2019	5:21:45 PM	191.1	27.7
6/7/2019	5:21:46 PM	191.0	27.6
6/7/2019	5:21:47 PM	190.9	27.5
6/7/2019	5:21:48 PM	190.8	27.4
6/7/2019	5:21:49 PM	190.8	27.4
6/7/2019	5:21:50 PM	190.7	27.3
6/7/2019	5:21:51 PM	190.6	27.2
6/7/2019	5:21:52 PM	190.5	27.1
6/7/2019	5:21:53 PM	190.5	27.1
6/7/2019	5:21:54 PM	190.4	27.0
6/7/2019	5:21:55 PM	190.3	26.9
6/7/2019	5:21:56 PM	190.2	26.8
6/7/2019	5:21:57 PM	190.1	26.7
6/7/2019	5:21:58 PM	190.1	26.7
6/7/2019	5:21:59 PM	189.9	26.5
6/7/2019	5:22:00 PM	189.9	26.5
6/7/2019	5:22:01 PM	189.8	26.4
6/7/2019	5:22:02 PM	189.6	26.2
6/7/2019	5:22:03 PM	189.6	26.2
6/7/2019	5:22:04 PM	189.5	26.1
6/7/2019	5:22:05 PM	189.4	26.0
6/7/2019	5:22:06 PM	189.3	25.9
6/7/2019	5:22:07 PM	189.1	25.7
6/7/2019	5:22:08 PM	189.1	25.7
6/7/2019	5:22:09 PM	189.0	25.6
6/7/2019	5:22:10 PM	188.9	25.5
6/7/2019	5:22:11 PM	188.8	25.4
6/7/2019	5:22:12 PM	188.7	25.3
6/7/2019	5:22:13 PM	188.5	25.1
6/7/2019	5:22:14 PM	188.5	25.1
6/7/2019	5:22:15 PM	188.3	24.9
6/7/2019	5:22:16 PM	188.2	24.8
6/7/2019	5:22:17 PM	188.1	24.7
6/7/2019	5:22:18 PM	187.9	24.5
6/7/2019	5:22:19 PM	187.8	24.4
6/7/2019	5:22:20 PM	187.7	24.3
6/7/2019	5:22:21 PM	187.6	24.2
6/7/2019	5:22:22 PM	187.5	24.1
6/7/2019	5:22:23 PM	187.3	23.9
6/7/2019	5:22:24 PM	187.2	23.8
6/7/2019	5:22:25 PM	187.1	23.7
6/7/2019	5:22:26 PM	187.0	23.6
6/7/2019	5:22:27 PM	186.9	23.5
6/7/2019	5:22:28 PM	186.9	23.5
6/7/2019	5:22:29 PM	186.8	23.4
6/7/2019	5:22:30 PM	186.7	23.3
6/7/2019	5:22:31 PM	186.6	23.2
6/7/2019	5:22:32 PM	186.6	23.2
6/7/2019	5:22:33 PM	186.5	23.1
6/7/2019	5:22:34 PM	186.5	23.1
6/7/2019	5:22:35 PM	186.4	23.0
6/7/2019	5:22:36 PM	186.4	23.0
6/7/2019	5:22:37 PM	186.3	22.9
6/7/2019	5:22:38 PM	186.3	22.9
6/7/2019	5:22:39 PM	186.2	22.8
6/7/2019	5:22:40 PM	186.2	22.8
6/7/2019	5:22:41 PM	186.1	22.7
6/7/2019	5:22:42 PM	186.1	22.7
6/7/2019	5:22:43 PM	186.1	22.7

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:22:44 PM	186.0	22.6
6/7/2019	5:22:45 PM	186.0	22.6
6/7/2019	5:22:46 PM	186.0	22.6
6/7/2019	5:22:47 PM	185.9	22.5
6/7/2019	5:22:48 PM	185.9	22.5
6/7/2019	5:22:49 PM	185.8	22.4
6/7/2019	5:22:50 PM	185.8	22.4
6/7/2019	5:22:51 PM	185.8	22.4
6/7/2019	5:22:52 PM	185.7	22.3
6/7/2019	5:22:53 PM	185.7	22.3
6/7/2019	5:22:54 PM	185.7	22.3
6/7/2019	5:22:55 PM	185.6	22.2
6/7/2019	5:22:56 PM	185.6	22.2
6/7/2019	5:22:57 PM	185.6	22.2
6/7/2019	5:22:58 PM	185.5	22.1
6/7/2019	5:22:59 PM	185.4	22.0
6/7/2019	5:23:00 PM	185.4	22.0
6/7/2019	5:23:01 PM	185.3	21.9
6/7/2019	5:23:02 PM	185.3	21.9
6/7/2019	5:23:03 PM	185.2	21.8
6/7/2019	5:23:04 PM	185.1	21.7
6/7/2019	5:23:05 PM	185.0	21.6
6/7/2019	5:23:06 PM	184.9	21.5
6/7/2019	5:23:07 PM	184.8	21.4
6/7/2019	5:23:08 PM	184.7	21.3
6/7/2019	5:23:09 PM	184.6	21.2
6/7/2019	5:23:10 PM	184.5	21.1
6/7/2019	5:23:11 PM	184.4	21.0
6/7/2019	5:23:12 PM	184.2	20.8
6/7/2019	5:23:13 PM	184.1	20.7
6/7/2019	5:23:14 PM	184.0	20.6
6/7/2019	5:23:15 PM	183.9	20.5
6/7/2019	5:23:16 PM	183.8	20.4
6/7/2019	5:23:17 PM	183.7	20.3
6/7/2019	5:23:18 PM	183.5	20.1
6/7/2019	5:23:19 PM	183.4	20.0
6/7/2019	5:23:20 PM	183.3	19.9
6/7/2019	5:23:21 PM	183.2	19.8
6/7/2019	5:23:22 PM	183.1	19.7
6/7/2019	5:23:23 PM	183.1	19.7
6/7/2019	5:23:24 PM	183.0	19.6
6/7/2019	5:23:25 PM	182.9	19.5
6/7/2019	5:23:26 PM	182.9	19.5
6/7/2019	5:23:27 PM	182.8	19.4
6/7/2019	5:23:28 PM	182.7	19.3
6/7/2019	5:23:29 PM	182.7	19.3
6/7/2019	5:23:30 PM	182.6	19.2
6/7/2019	5:23:31 PM	182.6	19.2
6/7/2019	5:23:32 PM	182.5	19.1
6/7/2019	5:23:33 PM	182.5	19.1
6/7/2019	5:23:34 PM	182.4	19.0
6/7/2019	5:23:35 PM	182.4	19.0
6/7/2019	5:23:36 PM	182.3	18.9
6/7/2019	5:23:37 PM	182.2	18.8
6/7/2019	5:23:38 PM	182.2	18.8
6/7/2019	5:23:39 PM	182.1	18.7
6/7/2019	5:23:40 PM	182.0	18.6
6/7/2019	5:23:41 PM	181.9	18.5
6/7/2019	5:23:42 PM	181.9	18.5
6/7/2019	5:23:43 PM	181.8	18.4
6/7/2019	5:23:44 PM	181.7	18.3
6/7/2019	5:23:45 PM	181.6	18.2
6/7/2019	5:23:46 PM	181.5	18.1
6/7/2019	5:23:47 PM	181.4	18.0
6/7/2019	5:23:48 PM	181.3	17.9
6/7/2019	5:23:49 PM	181.2	17.8
6/7/2019	5:23:50 PM	181.1	17.7
6/7/2019	5:23:51 PM	181.0	17.6
6/7/2019	5:23:52 PM	180.9	17.5
6/7/2019	5:23:53 PM	180.8	17.4
6/7/2019	5:23:54 PM	180.7	17.3
6/7/2019	5:23:55 PM	180.6	17.2
6/7/2019	5:23:56 PM	180.5	17.1
6/7/2019	5:23:57 PM	180.5	17.1
6/7/2019	5:23:58 PM	180.4	17.0
6/7/2019	5:23:59 PM	180.3	16.9
6/7/2019	5:24:00 PM	180.2	16.8
6/7/2019	5:24:01 PM	180.1	16.7
6/7/2019	5:24:02 PM	180.1	16.7

APPENDIX E55: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:24:03 PM	180.0	16.6
6/7/2019	5:24:04 PM	180.0	16.6
6/7/2019	5:24:05 PM	179.9	16.5
6/7/2019	5:24:06 PM	179.9	16.5
6/7/2019	5:24:07 PM	179.8	16.4
6/7/2019	5:24:08 PM	179.8	16.4
6/7/2019	5:24:09 PM	179.8	16.4
6/7/2019	5:24:10 PM	179.7	16.3
6/7/2019	5:24:11 PM	179.7	16.3
6/7/2019	5:24:12 PM	179.7	16.3
6/7/2019	5:24:13 PM	179.6	16.2
6/7/2019	5:24:14 PM	179.6	16.2
6/7/2019	5:24:15 PM	179.6	16.2
6/7/2019	5:24:16 PM	179.6	16.2
6/7/2019	5:24:17 PM	179.5	16.1
6/7/2019	5:24:18 PM	179.5	16.1
6/7/2019	5:24:19 PM	179.5	16.1
6/7/2019	5:24:20 PM	179.4	16.0
6/7/2019	5:24:21 PM	179.4	16.0
6/7/2019	5:24:22 PM	179.4	16.0
6/7/2019	5:24:23 PM	179.3	15.9
6/7/2019	5:24:24 PM	179.3	15.9
6/7/2019	5:24:25 PM	179.3	15.9
6/7/2019	5:24:26 PM	179.2	15.8
6/7/2019	5:24:27 PM	179.2	15.8
6/7/2019	5:24:28 PM	179.1	15.7
6/7/2019	5:24:29 PM	179.1	15.7
6/7/2019	5:24:30 PM	179.0	15.6
6/7/2019	5:24:31 PM	179.0	15.6
6/7/2019	5:24:32 PM	178.9	15.5
6/7/2019	5:24:33 PM	178.9	15.5
6/7/2019	5:24:34 PM	178.9	15.5
6/7/2019	5:24:35 PM	178.8	15.4
6/7/2019	5:24:36 PM	178.8	15.4
6/7/2019	5:24:37 PM	178.7	15.3
6/7/2019	5:24:38 PM	178.7	15.3
6/7/2019	5:24:39 PM	178.7	15.3
6/7/2019	5:24:40 PM	178.6	15.2
6/7/2019	5:24:41 PM	178.6	15.2
6/7/2019	5:24:42 PM	178.6	15.2
6/7/2019	5:24:43 PM	178.5	15.1
6/7/2019	5:24:44 PM	178.5	15.1
6/7/2019	5:24:45 PM	178.4	15.0
6/7/2019	5:24:46 PM	178.4	15.0
6/7/2019	5:24:47 PM	178.4	15.0
6/7/2019	5:24:48 PM	178.3	14.9
6/7/2019	5:24:49 PM	178.3	14.9
6/7/2019	5:24:50 PM	178.2	14.8
6/7/2019	5:24:51 PM	178.2	14.8
6/7/2019	5:24:52 PM	178.1	14.7
6/7/2019	5:24:53 PM	178.1	14.7
6/7/2019	5:24:54 PM	178.0	14.6
6/7/2019	5:24:55 PM	178.0	14.6
6/7/2019	5:24:56 PM	177.9	14.5
6/7/2019	5:24:57 PM	177.9	14.5
6/7/2019	5:24:58 PM	177.8	14.4
6/7/2019	5:24:59 PM	177.8	14.4
6/7/2019	5:25:00 PM	177.7	14.3
6/7/2019	5:25:01 PM	177.7	14.3
6/7/2019	5:25:02 PM	177.6	14.2

Table E2 SEEP-C1 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-C1 TEST-3	1625	142.9	21.4
SEEP-C1 TEST-3	1626	141.8	21.8
SEEP-C1 TEST-3	1627	142.6	21.4
SEEP-C1 TEST-3	1628	154.3	21.7
Average		145.4	(µS/cms)
Geometric Mean		145.3	(µS/cms)
Average (pre-test)		163.4	(µS/cms)
Average (post-test)		182.6	(µS/cms)

Table E3 SEEP-C1 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-C1 TEST-3	100	1,115	24.2
SEEP-C1 TEST-3	1,000	2,150	24.2
SEEP-C1 TEST-3	10,000	16,651	24.1
SEEP-C1 TEST-3	100,000	132,589	24.1

Table E4 SEEP-C1 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})*\Delta t\}}{K}}$$

Mass of Salt injected	q	299,800	mg
Slope of Calibration Curve	K	1.3293	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	471,658.4	(s) . (µS/cms)
Calculated Flow Rate	Q	0.8	L/s
		13.4	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:34:33 PM	165.5	-
6/7/2019	5:34:34 PM	165.5	-
6/7/2019	5:34:35 PM	165.4	-
6/7/2019	5:34:36 PM	165.4	-
6/7/2019	5:34:37 PM	165.4	-
6/7/2019	5:34:38 PM	165.4	-
6/7/2019	5:34:39 PM	165.4	-
6/7/2019	5:34:40 PM	165.4	-
6/7/2019	5:34:41 PM	165.3	-
6/7/2019	5:34:42 PM	165.3	-
6/7/2019	5:34:43 PM	165.3	-
6/7/2019	5:34:44 PM	165.3	-
6/7/2019	5:34:45 PM	165.3	-
6/7/2019	5:34:46 PM	165.3	-
6/7/2019	5:34:47 PM	165.3	-
6/7/2019	5:34:48 PM	165.3	-
6/7/2019	5:34:49 PM	165.2	-
6/7/2019	5:34:50 PM	165.2	-
6/7/2019	5:34:51 PM	165.2	-
6/7/2019	5:34:52 PM	165.2	-
6/7/2019	5:34:53 PM	165.2	-
6/7/2019	5:34:54 PM	165.2	-
6/7/2019	5:34:55 PM	165.1	-
6/7/2019	5:34:56 PM	165.1	-
6/7/2019	5:34:57 PM	165.1	-
6/7/2019	5:34:58 PM	165.1	-
6/7/2019	5:34:59 PM	165.1	-
6/7/2019	5:35:00 PM	165.0	-
6/7/2019	5:35:01 PM	165.0	-
6/7/2019	5:35:02 PM	165.0	-
6/7/2019	5:35:03 PM	165.0	-
6/7/2019	5:35:04 PM	165.0	-
6/7/2019	5:35:05 PM	165.0	-
6/7/2019	5:35:06 PM	165.1	-
6/7/2019	5:35:07 PM	165.1	-
6/7/2019	5:35:08 PM	165.1	-
6/7/2019	5:35:09 PM	165.2	-
6/7/2019	5:35:10 PM	165.2	-
6/7/2019	5:35:11 PM	165.2	-
6/7/2019	5:35:12 PM	165.2	-
6/7/2019	5:35:13 PM	165.2	-
6/7/2019	5:35:14 PM	165.1	-
6/7/2019	5:35:15 PM	165.1	-
6/7/2019	5:35:16 PM	165.0	-
6/7/2019	5:35:17 PM	164.9	-
6/7/2019	5:35:18 PM	164.8	-
6/7/2019	5:35:19 PM	164.8	-
6/7/2019	5:35:20 PM	164.6	-
6/7/2019	5:35:21 PM	164.5	-
6/7/2019	5:35:22 PM	164.4	-
6/7/2019	5:35:23 PM	164.3	-
6/7/2019	5:35:24 PM	164.3	-
6/7/2019	5:35:25 PM	164.2	-
6/7/2019	5:35:26 PM	164.2	-
6/7/2019	5:35:27 PM	164.2	-
6/7/2019	5:35:28 PM	164.2	-
6/7/2019	5:35:29 PM	164.2	-
6/7/2019	5:35:30 PM	164.2	-
6/7/2019	5:35:31 PM	164.2	-
6/7/2019	5:35:32 PM	164.2	-
6/7/2019	5:35:33 PM	164.2	-
6/7/2019	5:35:34 PM	164.2	-
6/7/2019	5:35:35 PM	164.2	-
6/7/2019	5:35:36 PM	164.2	-
6/7/2019	5:35:37 PM	164.4	-
6/7/2019	5:35:38 PM	164.7	-
6/7/2019	5:35:39 PM	165.4	-
6/7/2019	5:35:40 PM	167.1	-
6/7/2019	5:35:41 PM	225.3	60.3
6/7/2019	5:35:42 PM	265.9	100.9

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:35:43 PM	334.3	169.3
6/7/2019	5:35:44 PM	406.7	241.7
6/7/2019	5:35:45 PM	566.5	401.5
6/7/2019	5:35:46 PM	716.2	551.2
6/7/2019	5:35:47 PM	1003.6	838.6
6/7/2019	5:35:48 PM	1219.6	1054.6
6/7/2019	5:35:49 PM	1753.0	1588.0
6/7/2019	5:35:50 PM	2195.5	2030.5
6/7/2019	5:35:51 PM	2630.5	2465.5
6/7/2019	5:35:52 PM	3226.0	3061.0
6/7/2019	5:35:53 PM	3826.7	3661.7
6/7/2019	5:35:54 PM	4677.7	4512.7
6/7/2019	5:35:55 PM	5345.2	5180.2
6/7/2019	5:35:56 PM	6048.7	5883.7
6/7/2019	5:35:57 PM	6875.6	6710.6
6/7/2019	5:35:58 PM	7376.4	7211.4
6/7/2019	5:35:59 PM	8052.9	7887.9
6/7/2019	5:36:00 PM	8876.7	8711.7
6/7/2019	5:36:01 PM	9473.3	9308.3
6/7/2019	5:36:02 PM	10064.3	9899.3
6/7/2019	5:36:03 PM	10322.1	10157.1
6/7/2019	5:36:04 PM	10553.7	10388.7
6/7/2019	5:36:05 PM	10740.2	10575.2
6/7/2019	5:36:06 PM	10873.8	10708.8
6/7/2019	5:36:07 PM	11001.6	10836.6
6/7/2019	5:36:08 PM	11092.0	10927.0
6/7/2019	5:36:09 PM	11165.4	11000.4
6/7/2019	5:36:10 PM	11204.2	11039.2
6/7/2019	5:36:11 PM	11225.4	11060.4
6/7/2019	5:36:12 PM	11224.4	11059.4
6/7/2019	5:36:13 PM	11203.5	11038.5
6/7/2019	5:36:14 PM	11167.3	11002.3
6/7/2019	5:36:15 PM	10352.3	10187.3
6/7/2019	5:36:16 PM	10118.0	9953.0
6/7/2019	5:36:17 PM	9788.1	9623.1
6/7/2019	5:36:18 PM	9674.4	9509.4
6/7/2019	5:36:19 PM	9450.1	9285.1
6/7/2019	5:36:20 PM	9272.4	9107.4
6/7/2019	5:36:21 PM	8449.0	8284.0
6/7/2019	5:36:22 PM	8181.3	8016.3
6/7/2019	5:36:23 PM	7833.0	7668.0
6/7/2019	5:36:24 PM	7734.6	7569.6
6/7/2019	5:36:25 PM	7502.6	7337.6
6/7/2019	5:36:26 PM	6840.3	6675.3
6/7/2019	5:36:27 PM	6585.0	6420.0
6/7/2019	5:36:28 PM	6265.1	6100.1
6/7/2019	5:36:29 PM	6142.6	5977.6
6/7/2019	5:36:30 PM	5733.9	5568.9
6/7/2019	5:36:31 PM	5487.3	5322.3
6/7/2019	5:36:32 PM	5249.4	5084.4
6/7/2019	5:36:33 PM	5041.4	4876.4
6/7/2019	5:36:34 PM	4931.0	4766.0
6/7/2019	5:36:35 PM	4530.3	4365.3
6/7/2019	5:36:36 PM	4318.1	4153.1
6/7/2019	5:36:37 PM	4113.2	3948.2
6/7/2019	5:36:38 PM	3975.4	3810.4
6/7/2019	5:36:39 PM	3872.6	3707.6
6/7/2019	5:36:40 PM	3559.1	3394.1
6/7/2019	5:36:41 PM	3393.8	3228.8
6/7/2019	5:36:42 PM	3273.6	3108.6
6/7/2019	5:36:43 PM	3157.3	2992.3
6/7/2019	5:36:44 PM	3090.9	2925.9
6/7/2019	5:36:45 PM	3004.4	2839.4
6/7/2019	5:36:46 PM	2751.6	2586.6
6/7/2019	5:36:47 PM	2607.7	2442.7
6/7/2019	5:36:48 PM	2508.1	2343.1
6/7/2019	5:36:49 PM	2428.3	2263.3
6/7/2019	5:36:50 PM	2373.7	2208.7
6/7/2019	5:36:51 PM	2315.7	2150.7
6/7/2019	5:36:52 PM	2107.3	1942.3
6/7/2019	5:36:53 PM	2044.5	1879.5
6/7/2019	5:36:54 PM	1962.0	1797.0
6/7/2019	5:36:55 PM	1935.0	1770.0
6/7/2019	5:36:56 PM	1893.6	1728.6
6/7/2019	5:36:57 PM	1860.3	1695.3
6/7/2019	5:36:58 PM	1700.5	1535.5
6/7/2019	5:36:59 PM	1661.2	1496.2

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:37:00 PM	1595.0	1430.0
6/7/2019	5:37:01 PM	1573.7	1408.7
6/7/2019	5:37:02 PM	1538.0	1373.0
6/7/2019	5:37:03 PM	1513.8	1348.8
6/7/2019	5:37:04 PM	1407.5	1242.5
6/7/2019	5:37:05 PM	1361.0	1196.0
6/7/2019	5:37:06 PM	1315.7	1150.7
6/7/2019	5:37:07 PM	1292.4	1127.4
6/7/2019	5:37:08 PM	1272.1	1107.1
6/7/2019	5:37:09 PM	1251.8	1086.8
6/7/2019	5:37:10 PM	1231.7	1066.7
6/7/2019	5:37:11 PM	1217.3	1052.3
6/7/2019	5:37:12 PM	1128.7	963.7
6/7/2019	5:37:13 PM	1098.6	933.6
6/7/2019	5:37:14 PM	1073.5	908.5
6/7/2019	5:37:15 PM	1056.5	891.5
6/7/2019	5:37:16 PM	1041.2	876.2
6/7/2019	5:37:17 PM	1027.7	862.7
6/7/2019	5:37:18 PM	1015.7	850.7
6/7/2019	5:37:19 PM	1004.7	839.7
6/7/2019	5:37:20 PM	935.3	770.3
6/7/2019	5:37:21 PM	920.6	755.6
6/7/2019	5:37:22 PM	902.6	737.6
6/7/2019	5:37:23 PM	892.2	727.2
6/7/2019	5:37:24 PM	879.3	714.3
6/7/2019	5:37:25 PM	868.8	703.8
6/7/2019	5:37:26 PM	859.9	694.9
6/7/2019	5:37:27 PM	852.3	687.3
6/7/2019	5:37:28 PM	844.0	679.0
6/7/2019	5:37:29 PM	793.6	628.6
6/7/2019	5:37:30 PM	780.7	615.7
6/7/2019	5:37:31 PM	769.3	604.3
6/7/2019	5:37:32 PM	760.4	595.4
6/7/2019	5:37:33 PM	755.4	590.4
6/7/2019	5:37:34 PM	747.2	582.2
6/7/2019	5:37:35 PM	742.1	577.1
6/7/2019	5:37:36 PM	736.1	571.1
6/7/2019	5:37:37 PM	729.5	564.5
6/7/2019	5:37:38 PM	725.1	560.1
6/7/2019	5:37:39 PM	720.2	555.2
6/7/2019	5:37:40 PM	714.5	549.5
6/7/2019	5:37:41 PM	668.2	503.2
6/7/2019	5:37:42 PM	654.6	489.6
6/7/2019	5:37:43 PM	650.7	485.7
6/7/2019	5:37:44 PM	644.7	479.7
6/7/2019	5:37:45 PM	640.2	475.2
6/7/2019	5:37:46 PM	636.1	471.1
6/7/2019	5:37:47 PM	631.5	466.5
6/7/2019	5:37:48 PM	628.9	463.9
6/7/2019	5:37:49 PM	625.2	460.2
6/7/2019	5:37:50 PM	621.9	456.9
6/7/2019	5:37:51 PM	508.6	343.6
6/7/2019	5:37:52 PM	578.8	413.8
6/7/2019	5:37:53 PM	580.2	415.2
6/7/2019	5:37:54 PM	575.6	410.6
6/7/2019	5:37:55 PM	573.6	408.6
6/7/2019	5:37:56 PM	568.8	403.8
6/7/2019	5:37:57 PM	565.5	400.5
6/7/2019	5:37:58 PM	564.0	399.0
6/7/2019	5:37:59 PM	561.7	396.7
6/7/2019	5:38:00 PM	559.6	394.6
6/7/2019	5:38:01 PM	557.2	392.2
6/7/2019	5:38:02 PM	554.4	389.4
6/7/2019	5:38:03 PM	552.5	387.5
6/7/2019	5:38:04 PM	549.8	384.8
6/7/2019	5:38:05 PM	547.5	382.5
6/7/2019	5:38:06 PM	545.5	380.5
6/7/2019	5:38:07 PM	543.2	378.2
6/7/2019	5:38:08 PM	539.0	374.0
6/7/2019	5:38:09 PM	534.4	369.4
6/7/2019	5:38:10 PM	530.3	365.3
6/7/2019	5:38:11 PM	525.6	360.6
6/7/2019	5:38:12 PM	521.5	356.5
6/7/2019	5:38:13 PM	516.8	351.8
6/7/2019	5:38:14 PM	512.8	347.8
6/7/2019	5:38:15 PM	508.3	343.3
6/7/2019	5:38:16 PM	504.7	339.7
6/7/2019	5:38:17 PM	500.5	335.5
6/7/2019	5:38:18 PM	496.7	331.7

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:38:19 PM	492.5	327.5
6/7/2019	5:38:20 PM	488.9	323.9
6/7/2019	5:38:21 PM	484.9	319.9
6/7/2019	5:38:22 PM	481.6	316.6
6/7/2019	5:38:23 PM	477.9	312.9
6/7/2019	5:38:24 PM	474.8	309.8
6/7/2019	5:38:25 PM	471.2	306.2
6/7/2019	5:38:26 PM	468.1	303.1
6/7/2019	5:38:27 PM	464.8	299.8
6/7/2019	5:38:28 PM	462.0	297.0
6/7/2019	5:38:29 PM	458.7	293.7
6/7/2019	5:38:30 PM	455.8	290.8
6/7/2019	5:38:31 PM	452.6	287.6
6/7/2019	5:38:32 PM	449.8	284.8
6/7/2019	5:38:33 PM	446.7	281.7
6/7/2019	5:38:34 PM	443.9	278.9
6/7/2019	5:38:35 PM	440.8	275.8
6/7/2019	5:38:36 PM	438.2	273.2
6/7/2019	5:38:37 PM	435.3	270.3
6/7/2019	5:38:38 PM	432.9	267.9
6/7/2019	5:38:39 PM	430.2	265.2
6/7/2019	5:38:40 PM	427.7	262.7
6/7/2019	5:38:41 PM	424.8	259.8
6/7/2019	5:38:42 PM	422.3	257.3
6/7/2019	5:38:43 PM	419.6	254.6
6/7/2019	5:38:44 PM	417.2	252.2
6/7/2019	5:38:45 PM	414.6	249.6
6/7/2019	5:38:46 PM	412.3	247.3
6/7/2019	5:38:47 PM	409.8	244.8
6/7/2019	5:38:48 PM	407.3	242.3
6/7/2019	5:38:49 PM	405.1	240.1
6/7/2019	5:38:50 PM	402.6	237.6
6/7/2019	5:38:51 PM	400.5	235.5
6/7/2019	5:38:52 PM	398.1	233.1
6/7/2019	5:38:53 PM	396.0	231.0
6/7/2019	5:38:54 PM	393.7	228.7
6/7/2019	5:38:55 PM	391.6	226.6
6/7/2019	5:38:56 PM	389.2	224.2
6/7/2019	5:38:57 PM	387.2	222.2
6/7/2019	5:38:58 PM	385.0	220.0
6/7/2019	5:38:59 PM	383.2	218.2
6/7/2019	5:39:00 PM	381.1	216.1
6/7/2019	5:39:01 PM	379.4	214.4
6/7/2019	5:39:02 PM	377.6	212.6
6/7/2019	5:39:03 PM	376.0	211.0
6/7/2019	5:39:04 PM	374.1	209.1
6/7/2019	5:39:05 PM	372.4	207.4
6/7/2019	5:39:06 PM	370.5	205.5
6/7/2019	5:39:07 PM	369.0	204.0
6/7/2019	5:39:08 PM	367.4	202.4
6/7/2019	5:39:09 PM	365.9	200.9
6/7/2019	5:39:10 PM	364.3	199.3
6/7/2019	5:39:11 PM	362.8	197.8
6/7/2019	5:39:12 PM	361.1	196.1
6/7/2019	5:39:13 PM	359.5	194.5
6/7/2019	5:39:14 PM	357.7	192.7
6/7/2019	5:39:15 PM	356.1	191.1
6/7/2019	5:39:16 PM	354.3	189.3
6/7/2019	5:39:17 PM	352.9	187.9
6/7/2019	5:39:18 PM	351.3	186.3
6/7/2019	5:39:19 PM	350.0	185.0
6/7/2019	5:39:20 PM	348.4	183.4
6/7/2019	5:39:21 PM	347.0	182.0
6/7/2019	5:39:22 PM	345.5	180.5
6/7/2019	5:39:23 PM	344.2	179.2
6/7/2019	5:39:24 PM	342.6	177.6
6/7/2019	5:39:25 PM	341.3	176.3
6/7/2019	5:39:26 PM	339.8	174.8
6/7/2019	5:39:27 PM	338.4	173.4
6/7/2019	5:39:28 PM	336.9	171.9
6/7/2019	5:39:29 PM	335.6	170.6
6/7/2019	5:39:30 PM	334.2	169.2
6/7/2019	5:39:31 PM	333.0	168.0
6/7/2019	5:39:32 PM	331.6	166.6
6/7/2019	5:39:33 PM	330.4	165.4
6/7/2019	5:39:34 PM	329.0	164.0
6/7/2019	5:39:35 PM	327.8	162.8
6/7/2019	5:39:36 PM	326.5	161.5
6/7/2019	5:39:37 PM	325.5	160.5

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:39:38 PM	324.4	159.4
6/7/2019	5:39:39 PM	323.3	158.3
6/7/2019	5:39:40 PM	322.4	157.4
6/7/2019	5:39:41 PM	321.3	156.3
6/7/2019	5:39:42 PM	320.3	155.3
6/7/2019	5:39:43 PM	319.2	154.2
6/7/2019	5:39:44 PM	318.3	153.3
6/7/2019	5:39:45 PM	317.2	152.2
6/7/2019	5:39:46 PM	316.2	151.2
6/7/2019	5:39:47 PM	315.2	150.2
6/7/2019	5:39:48 PM	314.2	149.2
6/7/2019	5:39:49 PM	313.1	148.1
6/7/2019	5:39:50 PM	312.1	147.1
6/7/2019	5:39:51 PM	311.1	146.1
6/7/2019	5:39:52 PM	310.1	145.1
6/7/2019	5:39:53 PM	309.0	144.0
6/7/2019	5:39:54 PM	308.1	143.1
6/7/2019	5:39:55 PM	307.1	142.1
6/7/2019	5:39:56 PM	306.3	141.3
6/7/2019	5:39:57 PM	305.3	140.3
6/7/2019	5:39:58 PM	304.5	139.5
6/7/2019	5:39:59 PM	303.6	138.6
6/7/2019	5:40:00 PM	302.9	137.9
6/7/2019	5:40:01 PM	302.1	137.1
6/7/2019	5:40:02 PM	301.4	136.4
6/7/2019	5:40:03 PM	300.5	135.5
6/7/2019	5:40:04 PM	299.7	134.7
6/7/2019	5:40:05 PM	298.9	133.9
6/7/2019	5:40:06 PM	298.1	133.1
6/7/2019	5:40:07 PM	297.2	132.2
6/7/2019	5:40:08 PM	296.4	131.4
6/7/2019	5:40:09 PM	295.5	130.5
6/7/2019	5:40:10 PM	294.6	129.6
6/7/2019	5:40:11 PM	293.7	128.7
6/7/2019	5:40:12 PM	292.9	127.9
6/7/2019	5:40:13 PM	292.0	127.0
6/7/2019	5:40:14 PM	291.2	126.2
6/7/2019	5:40:15 PM	290.4	125.4
6/7/2019	5:40:16 PM	289.6	124.6
6/7/2019	5:40:17 PM	288.8	123.8
6/7/2019	5:40:18 PM	288.2	123.2
6/7/2019	5:40:19 PM	287.4	122.4
6/7/2019	5:40:20 PM	286.7	121.7
6/7/2019	5:40:21 PM	286.0	121.0
6/7/2019	5:40:22 PM	285.4	120.4
6/7/2019	5:40:23 PM	284.8	119.8
6/7/2019	5:40:24 PM	284.2	119.2
6/7/2019	5:40:25 PM	283.6	118.6
6/7/2019	5:40:26 PM	283.1	118.1
6/7/2019	5:40:27 PM	282.5	117.5
6/7/2019	5:40:28 PM	282.0	117.0
6/7/2019	5:40:29 PM	281.4	116.4
6/7/2019	5:40:30 PM	280.8	115.8
6/7/2019	5:40:31 PM	280.3	115.3
6/7/2019	5:40:32 PM	279.8	114.8
6/7/2019	5:40:33 PM	279.3	114.3
6/7/2019	5:40:34 PM	278.8	113.8
6/7/2019	5:40:35 PM	278.3	113.3
6/7/2019	5:40:36 PM	277.7	112.7
6/7/2019	5:40:37 PM	277.3	112.3
6/7/2019	5:40:38 PM	276.7	111.7
6/7/2019	5:40:39 PM	276.3	111.3
6/7/2019	5:40:40 PM	275.7	110.7
6/7/2019	5:40:41 PM	275.3	110.3
6/7/2019	5:40:42 PM	274.8	109.8
6/7/2019	5:40:43 PM	274.3	109.3
6/7/2019	5:40:44 PM	273.8	108.8
6/7/2019	5:40:45 PM	273.4	108.4
6/7/2019	5:40:46 PM	272.9	107.9
6/7/2019	5:40:47 PM	272.4	107.4
6/7/2019	5:40:48 PM	272.0	107.0
6/7/2019	5:40:49 PM	271.6	106.6
6/7/2019	5:40:50 PM	271.2	106.2
6/7/2019	5:40:51 PM	270.8	105.8
6/7/2019	5:40:52 PM	270.3	105.3
6/7/2019	5:40:53 PM	270.0	105.0
6/7/2019	5:40:54 PM	269.5	104.5
6/7/2019	5:40:55 PM	268.9	103.9
6/7/2019	5:40:56 PM	268.6	103.6

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:40:57 PM	268.0	103.0
6/7/2019	5:40:58 PM	267.6	102.6
6/7/2019	5:40:59 PM	267.0	102.0
6/7/2019	5:41:00 PM	266.4	101.4
6/7/2019	5:41:01 PM	266.0	101.0
6/7/2019	5:41:02 PM	265.4	100.4
6/7/2019	5:41:03 PM	264.9	99.9
6/7/2019	5:41:04 PM	264.4	99.4
6/7/2019	5:41:05 PM	263.9	98.9
6/7/2019	5:41:06 PM	263.4	98.4
6/7/2019	5:41:07 PM	263.0	98.0
6/7/2019	5:41:08 PM	262.4	97.4
6/7/2019	5:41:09 PM	261.9	96.9
6/7/2019	5:41:10 PM	261.4	96.4
6/7/2019	5:41:11 PM	260.9	95.9
6/7/2019	5:41:12 PM	260.4	95.4
6/7/2019	5:41:13 PM	260.0	95.0
6/7/2019	5:41:14 PM	259.5	94.5
6/7/2019	5:41:15 PM	259.0	94.0
6/7/2019	5:41:16 PM	258.5	93.5
6/7/2019	5:41:17 PM	258.1	93.1
6/7/2019	5:41:18 PM	257.7	92.7
6/7/2019	5:41:19 PM	257.2	92.2
6/7/2019	5:41:20 PM	256.8	91.8
6/7/2019	5:41:21 PM	256.4	91.4
6/7/2019	5:41:22 PM	255.9	90.9
6/7/2019	5:41:23 PM	255.6	90.6
6/7/2019	5:41:24 PM	255.1	90.1
6/7/2019	5:41:25 PM	254.8	89.8
6/7/2019	5:41:26 PM	254.4	89.4
6/7/2019	5:41:27 PM	254.0	89.0
6/7/2019	5:41:28 PM	253.5	88.5
6/7/2019	5:41:29 PM	253.1	88.1
6/7/2019	5:41:30 PM	252.7	87.7
6/7/2019	5:41:31 PM	252.3	87.3
6/7/2019	5:41:32 PM	251.8	86.8
6/7/2019	5:41:33 PM	251.4	86.4
6/7/2019	5:41:34 PM	251.0	86.0
6/7/2019	5:41:35 PM	250.5	85.5
6/7/2019	5:41:36 PM	250.1	85.1
6/7/2019	5:41:37 PM	249.7	84.7
6/7/2019	5:41:38 PM	249.2	84.2
6/7/2019	5:41:39 PM	248.8	83.8
6/7/2019	5:41:40 PM	248.4	83.4
6/7/2019	5:41:41 PM	248.0	83.0
6/7/2019	5:41:42 PM	247.6	82.6
6/7/2019	5:41:43 PM	247.2	82.2
6/7/2019	5:41:44 PM	246.9	81.9
6/7/2019	5:41:45 PM	246.5	81.5
6/7/2019	5:41:46 PM	246.2	81.2
6/7/2019	5:41:47 PM	245.9	80.9
6/7/2019	5:41:48 PM	245.6	80.6
6/7/2019	5:41:49 PM	245.3	80.3
6/7/2019	5:41:50 PM	245.1	80.1
6/7/2019	5:41:51 PM	244.7	79.7
6/7/2019	5:41:52 PM	244.5	79.5
6/7/2019	5:41:53 PM	244.1	79.1
6/7/2019	5:41:54 PM	243.8	78.8
6/7/2019	5:41:55 PM	243.5	78.5
6/7/2019	5:41:56 PM	243.2	78.2
6/7/2019	5:41:57 PM	242.9	77.9
6/7/2019	5:41:58 PM	242.5	77.5
6/7/2019	5:41:59 PM	242.2	77.2
6/7/2019	5:42:00 PM	241.9	76.9
6/7/2019	5:42:01 PM	241.5	76.5
6/7/2019	5:42:02 PM	241.2	76.2
6/7/2019	5:42:03 PM	240.9	75.9
6/7/2019	5:42:04 PM	240.6	75.6
6/7/2019	5:42:05 PM	240.2	75.2
6/7/2019	5:42:06 PM	240.0	75.0
6/7/2019	5:42:07 PM	239.7	74.7
6/7/2019	5:42:08 PM	239.5	74.5
6/7/2019	5:42:09 PM	239.2	74.2
6/7/2019	5:42:10 PM	238.9	73.9
6/7/2019	5:42:11 PM	238.6	73.6
6/7/2019	5:42:12 PM	238.4	73.4
6/7/2019	5:42:13 PM	238.1	73.1
6/7/2019	5:42:14 PM	237.9	72.9
6/7/2019	5:42:15 PM	237.6	72.6

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:42:16 PM	237.4	72.4
6/7/2019	5:42:17 PM	237.2	72.2
6/7/2019	5:42:18 PM	237.0	72.0
6/7/2019	5:42:19 PM	236.7	71.7
6/7/2019	5:42:20 PM	236.5	71.5
6/7/2019	5:42:21 PM	236.2	71.2
6/7/2019	5:42:22 PM	236.0	71.0
6/7/2019	5:42:23 PM	235.7	70.7
6/7/2019	5:42:24 PM	235.5	70.5
6/7/2019	5:42:25 PM	235.2	70.2
6/7/2019	5:42:26 PM	235.0	70.0
6/7/2019	5:42:27 PM	234.8	69.8
6/7/2019	5:42:28 PM	234.5	69.5
6/7/2019	5:42:29 PM	234.2	69.2
6/7/2019	5:42:30 PM	234.0	69.0
6/7/2019	5:42:31 PM	233.8	68.8
6/7/2019	5:42:32 PM	233.5	68.5
6/7/2019	5:42:33 PM	233.3	68.3
6/7/2019	5:42:34 PM	233.0	68.0
6/7/2019	5:42:35 PM	232.8	67.8
6/7/2019	5:42:36 PM	232.6	67.6
6/7/2019	5:42:37 PM	232.4	67.4
6/7/2019	5:42:38 PM	232.1	67.1
6/7/2019	5:42:39 PM	231.9	66.9
6/7/2019	5:42:40 PM	231.7	66.7
6/7/2019	5:42:41 PM	231.5	66.5
6/7/2019	5:42:42 PM	231.2	66.2
6/7/2019	5:42:43 PM	231.0	66.0
6/7/2019	5:42:44 PM	230.8	65.8
6/7/2019	5:42:45 PM	230.6	65.6
6/7/2019	5:42:46 PM	230.3	65.3
6/7/2019	5:42:47 PM	230.1	65.1
6/7/2019	5:42:48 PM	229.9	64.9
6/7/2019	5:42:49 PM	229.7	64.7
6/7/2019	5:42:50 PM	229.5	64.5
6/7/2019	5:42:51 PM	229.3	64.3
6/7/2019	5:42:52 PM	229.0	64.0
6/7/2019	5:42:53 PM	228.8	63.8
6/7/2019	5:42:54 PM	228.6	63.6
6/7/2019	5:42:55 PM	228.4	63.4
6/7/2019	5:42:56 PM	228.2	63.2
6/7/2019	5:42:57 PM	228.0	63.0
6/7/2019	5:42:58 PM	227.8	62.8
6/7/2019	5:42:59 PM	227.6	62.6
6/7/2019	5:43:00 PM	227.3	62.3
6/7/2019	5:43:01 PM	227.1	62.1
6/7/2019	5:43:02 PM	226.9	61.9
6/7/2019	5:43:03 PM	226.7	61.7
6/7/2019	5:43:04 PM	226.5	61.5
6/7/2019	5:43:05 PM	226.3	61.3
6/7/2019	5:43:06 PM	226.1	61.1
6/7/2019	5:43:07 PM	225.9	60.9
6/7/2019	5:43:08 PM	225.7	60.7
6/7/2019	5:43:09 PM	225.4	60.4
6/7/2019	5:43:10 PM	225.2	60.2
6/7/2019	5:43:11 PM	225.0	60.0
6/7/2019	5:43:12 PM	224.8	59.8
6/7/2019	5:43:13 PM	224.6	59.6
6/7/2019	5:43:14 PM	224.4	59.4
6/7/2019	5:43:15 PM	224.2	59.2
6/7/2019	5:43:16 PM	224.0	59.0
6/7/2019	5:43:17 PM	223.8	58.8
6/7/2019	5:43:18 PM	223.6	58.6
6/7/2019	5:43:19 PM	223.4	58.4
6/7/2019	5:43:20 PM	223.2	58.2
6/7/2019	5:43:21 PM	223.0	58.0
6/7/2019	5:43:22 PM	222.9	57.9
6/7/2019	5:43:23 PM	222.6	57.6
6/7/2019	5:43:24 PM	222.5	57.5
6/7/2019	5:43:25 PM	222.2	57.2
6/7/2019	5:43:26 PM	222.1	57.1
6/7/2019	5:43:27 PM	221.9	56.9
6/7/2019	5:43:28 PM	221.7	56.7
6/7/2019	5:43:29 PM	221.5	56.5
6/7/2019	5:43:30 PM	221.3	56.3
6/7/2019	5:43:31 PM	221.2	56.2
6/7/2019	5:43:32 PM	221.0	56.0
6/7/2019	5:43:33 PM	220.9	55.9
6/7/2019	5:43:34 PM	220.7	55.7

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:43:35 PM	220.5	55.5
6/7/2019	5:43:36 PM	220.4	55.4
6/7/2019	5:43:37 PM	220.3	55.3
6/7/2019	5:43:38 PM	220.2	55.2
6/7/2019	5:43:39 PM	220.0	55.0
6/7/2019	5:43:40 PM	219.9	54.9
6/7/2019	5:43:41 PM	219.7	54.7
6/7/2019	5:43:42 PM	219.6	54.6
6/7/2019	5:43:43 PM	219.5	54.5
6/7/2019	5:43:44 PM	219.4	54.4
6/7/2019	5:43:45 PM	219.2	54.2
6/7/2019	5:43:46 PM	219.1	54.1
6/7/2019	5:43:47 PM	219.0	54.0
6/7/2019	5:43:48 PM	218.9	53.9
6/7/2019	5:43:49 PM	218.7	53.7
6/7/2019	5:43:50 PM	218.7	53.7
6/7/2019	5:43:51 PM	218.6	53.6
6/7/2019	5:43:52 PM	218.5	53.5
6/7/2019	5:43:53 PM	218.3	53.3
6/7/2019	5:43:54 PM	218.3	53.3
6/7/2019	5:43:55 PM	218.1	53.1
6/7/2019	5:43:56 PM	218.0	53.0
6/7/2019	5:43:57 PM	217.9	52.9
6/7/2019	5:43:58 PM	217.8	52.8
6/7/2019	5:43:59 PM	217.6	52.6
6/7/2019	5:44:00 PM	217.5	52.5
6/7/2019	5:44:01 PM	217.4	52.4
6/7/2019	5:44:02 PM	217.2	52.2
6/7/2019	5:44:03 PM	217.1	52.1
6/7/2019	5:44:04 PM	216.9	51.9
6/7/2019	5:44:05 PM	216.7	51.7
6/7/2019	5:44:06 PM	216.6	51.6
6/7/2019	5:44:07 PM	216.4	51.4
6/7/2019	5:44:08 PM	216.3	51.3
6/7/2019	5:44:09 PM	216.2	51.2
6/7/2019	5:44:10 PM	216.1	51.1
6/7/2019	5:44:11 PM	215.9	50.9
6/7/2019	5:44:12 PM	215.8	50.8
6/7/2019	5:44:13 PM	215.7	50.7
6/7/2019	5:44:14 PM	215.6	50.6
6/7/2019	5:44:15 PM	215.5	50.5
6/7/2019	5:44:16 PM	215.5	50.5
6/7/2019	5:44:17 PM	215.4	50.4
6/7/2019	5:44:18 PM	215.3	50.3
6/7/2019	5:44:19 PM	215.3	50.3
6/7/2019	5:44:20 PM	215.2	50.2
6/7/2019	5:44:21 PM	215.1	50.1
6/7/2019	5:44:22 PM	215.1	50.1
6/7/2019	5:44:23 PM	215.0	50.0
6/7/2019	5:44:24 PM	214.9	49.9
6/7/2019	5:44:25 PM	214.9	49.9
6/7/2019	5:44:26 PM	214.9	49.9
6/7/2019	5:44:27 PM	214.9	49.9
6/7/2019	5:44:28 PM	214.8	49.8
6/7/2019	5:44:29 PM	214.8	49.8
6/7/2019	5:44:30 PM	214.8	49.8
6/7/2019	5:44:31 PM	214.7	49.7
6/7/2019	5:44:32 PM	214.7	49.7
6/7/2019	5:44:33 PM	214.6	49.6
6/7/2019	5:44:34 PM	214.6	49.6
6/7/2019	5:44:35 PM	214.5	49.5
6/7/2019	5:44:36 PM	214.5	49.5
6/7/2019	5:44:37 PM	214.4	49.4
6/7/2019	5:44:38 PM	214.3	49.3
6/7/2019	5:44:39 PM	214.2	49.2
6/7/2019	5:44:40 PM	214.1	49.1
6/7/2019	5:44:41 PM	214.0	49.0
6/7/2019	5:44:42 PM	213.8	48.8
6/7/2019	5:44:43 PM	213.7	48.7
6/7/2019	5:44:44 PM	213.6	48.6
6/7/2019	5:44:45 PM	213.5	48.5
6/7/2019	5:44:46 PM	213.3	48.3
6/7/2019	5:44:47 PM	213.2	48.2
6/7/2019	5:44:48 PM	213.1	48.1
6/7/2019	5:44:49 PM	213.0	48.0
6/7/2019	5:44:50 PM	212.9	47.9
6/7/2019	5:44:51 PM	212.8	47.8
6/7/2019	5:44:52 PM	212.7	47.7
6/7/2019	5:44:53 PM	212.6	47.6

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:44:54 PM	212.4	47.4
6/7/2019	5:44:55 PM	212.3	47.3
6/7/2019	5:44:56 PM	212.2	47.2
6/7/2019	5:44:57 PM	212.1	47.1
6/7/2019	5:44:58 PM	212.0	47.0
6/7/2019	5:44:59 PM	211.8	46.8
6/7/2019	5:45:00 PM	211.7	46.7
6/7/2019	5:45:01 PM	211.5	46.5
6/7/2019	5:45:02 PM	211.4	46.4
6/7/2019	5:45:03 PM	211.2	46.2
6/7/2019	5:45:04 PM	211.1	46.1
6/7/2019	5:45:05 PM	210.9	45.9
6/7/2019	5:45:06 PM	210.8	45.8
6/7/2019	5:45:07 PM	210.6	45.6
6/7/2019	5:45:08 PM	210.4	45.4
6/7/2019	5:45:09 PM	210.2	45.2
6/7/2019	5:45:10 PM	210.1	45.1
6/7/2019	5:45:11 PM	209.9	44.9
6/7/2019	5:45:12 PM	209.7	44.7
6/7/2019	5:45:13 PM	209.6	44.6
6/7/2019	5:45:14 PM	209.4	44.4
6/7/2019	5:45:15 PM	209.2	44.2
6/7/2019	5:45:16 PM	209.1	44.1
6/7/2019	5:45:17 PM	208.9	43.9
6/7/2019	5:45:18 PM	208.8	43.8
6/7/2019	5:45:19 PM	208.6	43.6
6/7/2019	5:45:20 PM	208.5	43.5
6/7/2019	5:45:21 PM	208.4	43.4
6/7/2019	5:45:22 PM	208.3	43.3
6/7/2019	5:45:23 PM	208.1	43.1
6/7/2019	5:45:24 PM	208.0	43.0
6/7/2019	5:45:25 PM	207.8	42.8
6/7/2019	5:45:26 PM	207.7	42.7
6/7/2019	5:45:27 PM	207.6	42.6
6/7/2019	5:45:28 PM	207.5	42.5
6/7/2019	5:45:29 PM	207.3	42.3
6/7/2019	5:45:30 PM	207.2	42.2
6/7/2019	5:45:31 PM	207.1	42.1
6/7/2019	5:45:32 PM	206.9	41.9
6/7/2019	5:45:33 PM	206.8	41.8
6/7/2019	5:45:34 PM	206.7	41.7
6/7/2019	5:45:35 PM	206.6	41.6
6/7/2019	5:45:36 PM	206.4	41.4
6/7/2019	5:45:37 PM	206.3	41.3
6/7/2019	5:45:38 PM	206.2	41.2
6/7/2019	5:45:39 PM	206.1	41.1
6/7/2019	5:45:40 PM	206.0	41.0
6/7/2019	5:45:41 PM	205.8	40.8
6/7/2019	5:45:42 PM	205.7	40.7
6/7/2019	5:45:43 PM	205.6	40.6
6/7/2019	5:45:44 PM	205.5	40.5
6/7/2019	5:45:45 PM	205.4	40.4
6/7/2019	5:45:46 PM	205.4	40.4
6/7/2019	5:45:47 PM	205.3	40.3
6/7/2019	5:45:48 PM	205.2	40.2
6/7/2019	5:45:49 PM	205.1	40.1
6/7/2019	5:45:50 PM	205.0	40.0
6/7/2019	5:45:51 PM	204.9	39.9
6/7/2019	5:45:52 PM	204.8	39.8
6/7/2019	5:45:53 PM	204.7	39.7
6/7/2019	5:45:54 PM	204.7	39.7
6/7/2019	5:45:55 PM	204.6	39.6
6/7/2019	5:45:56 PM	204.5	39.5
6/7/2019	5:45:57 PM	204.4	39.4
6/7/2019	5:45:58 PM	204.3	39.3
6/7/2019	5:45:59 PM	204.1	39.1
6/7/2019	5:46:00 PM	204.0	39.0
6/7/2019	5:46:01 PM	203.9	38.9
6/7/2019	5:46:02 PM	203.8	38.8
6/7/2019	5:46:03 PM	203.7	38.7
6/7/2019	5:46:04 PM	203.6	38.6
6/7/2019	5:46:05 PM	203.5	38.5
6/7/2019	5:46:06 PM	203.4	38.4
6/7/2019	5:46:07 PM	203.3	38.3
6/7/2019	5:46:08 PM	203.2	38.2
6/7/2019	5:46:09 PM	203.1	38.1
6/7/2019	5:46:10 PM	203.0	38.0
6/7/2019	5:46:11 PM	202.9	37.9
6/7/2019	5:46:12 PM	202.8	37.8

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:46:13 PM	202.7	37.7
6/7/2019	5:46:14 PM	202.5	37.5
6/7/2019	5:46:15 PM	202.4	37.4
6/7/2019	5:46:16 PM	202.3	37.3
6/7/2019	5:46:17 PM	202.2	37.2
6/7/2019	5:46:18 PM	202.1	37.1
6/7/2019	5:46:19 PM	202.0	37.0
6/7/2019	5:46:20 PM	201.9	36.9
6/7/2019	5:46:21 PM	201.8	36.8
6/7/2019	5:46:22 PM	201.8	36.8
6/7/2019	5:46:23 PM	201.7	36.7
6/7/2019	5:46:24 PM	201.6	36.6
6/7/2019	5:46:25 PM	201.5	36.5
6/7/2019	5:46:26 PM	201.4	36.4
6/7/2019	5:46:27 PM	201.3	36.3
6/7/2019	5:46:28 PM	201.2	36.2
6/7/2019	5:46:29 PM	201.1	36.1
6/7/2019	5:46:30 PM	201.0	36.0
6/7/2019	5:46:31 PM	200.9	35.9
6/7/2019	5:46:32 PM	200.8	35.8
6/7/2019	5:46:33 PM	200.7	35.7
6/7/2019	5:46:34 PM	200.6	35.6
6/7/2019	5:46:35 PM	200.5	35.5
6/7/2019	5:46:36 PM	200.4	35.4
6/7/2019	5:46:37 PM	200.2	35.2
6/7/2019	5:46:38 PM	200.1	35.1
6/7/2019	5:46:39 PM	200.0	35.0
6/7/2019	5:46:40 PM	199.9	34.9
6/7/2019	5:46:41 PM	199.8	34.8
6/7/2019	5:46:42 PM	199.6	34.6
6/7/2019	5:46:43 PM	199.6	34.6
6/7/2019	5:46:44 PM	199.5	34.5
6/7/2019	5:46:45 PM	199.3	34.3
6/7/2019	5:46:46 PM	199.2	34.2
6/7/2019	5:46:47 PM	199.1	34.1
6/7/2019	5:46:48 PM	199.1	34.1
6/7/2019	5:46:49 PM	199.0	34.0
6/7/2019	5:46:50 PM	198.9	33.9
6/7/2019	5:46:51 PM	198.8	33.8
6/7/2019	5:46:52 PM	198.7	33.7
6/7/2019	5:46:53 PM	198.7	33.7
6/7/2019	5:46:54 PM	198.7	33.7
6/7/2019	5:46:55 PM	198.6	33.6
6/7/2019	5:46:56 PM	198.6	33.6
6/7/2019	5:46:57 PM	198.5	33.5
6/7/2019	5:46:58 PM	198.5	33.5
6/7/2019	5:46:59 PM	198.5	33.5
6/7/2019	5:47:00 PM	198.4	33.4
6/7/2019	5:47:01 PM	198.4	33.4
6/7/2019	5:47:02 PM	198.3	33.3
6/7/2019	5:47:03 PM	198.3	33.3
6/7/2019	5:47:04 PM	198.2	33.2
6/7/2019	5:47:05 PM	198.2	33.2
6/7/2019	5:47:06 PM	198.1	33.1
6/7/2019	5:47:07 PM	198.1	33.1
6/7/2019	5:47:08 PM	198.0	33.0
6/7/2019	5:47:09 PM	198.0	33.0
6/7/2019	5:47:10 PM	197.9	32.9
6/7/2019	5:47:11 PM	197.8	32.8
6/7/2019	5:47:12 PM	197.8	32.8
6/7/2019	5:47:13 PM	197.7	32.7
6/7/2019	5:47:14 PM	197.6	32.6
6/7/2019	5:47:15 PM	197.5	32.5
6/7/2019	5:47:16 PM	197.4	32.4
6/7/2019	5:47:17 PM	197.3	32.3
6/7/2019	5:47:18 PM	197.3	32.3
6/7/2019	5:47:19 PM	197.2	32.2
6/7/2019	5:47:20 PM	197.1	32.1
6/7/2019	5:47:21 PM	197.0	32.0
6/7/2019	5:47:22 PM	196.9	31.9
6/7/2019	5:47:23 PM	196.8	31.8
6/7/2019	5:47:24 PM	196.7	31.7
6/7/2019	5:47:25 PM	196.7	31.7
6/7/2019	5:47:26 PM	196.6	31.6
6/7/2019	5:47:27 PM	196.5	31.5
6/7/2019	5:47:28 PM	196.5	31.5
6/7/2019	5:47:29 PM	196.4	31.4
6/7/2019	5:47:30 PM	196.4	31.4
6/7/2019	5:47:31 PM	196.3	31.3

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:47:32 PM	196.3	31.3
6/7/2019	5:47:33 PM	196.2	31.2
6/7/2019	5:47:34 PM	196.2	31.2
6/7/2019	5:47:35 PM	196.1	31.1
6/7/2019	5:47:36 PM	196.1	31.1
6/7/2019	5:47:37 PM	196.0	31.0
6/7/2019	5:47:38 PM	196.0	31.0
6/7/2019	5:47:39 PM	195.9	30.9
6/7/2019	5:47:40 PM	195.9	30.9
6/7/2019	5:47:41 PM	195.8	30.8
6/7/2019	5:47:42 PM	195.8	30.8
6/7/2019	5:47:43 PM	195.7	30.7
6/7/2019	5:47:44 PM	195.7	30.7
6/7/2019	5:47:45 PM	195.6	30.6
6/7/2019	5:47:46 PM	195.6	30.6
6/7/2019	5:47:47 PM	195.5	30.5
6/7/2019	5:47:48 PM	195.5	30.5
6/7/2019	5:47:49 PM	195.4	30.4
6/7/2019	5:47:50 PM	195.4	30.4
6/7/2019	5:47:51 PM	195.4	30.4
6/7/2019	5:47:52 PM	195.3	30.3
6/7/2019	5:47:53 PM	195.3	30.3
6/7/2019	5:47:54 PM	195.3	30.3
6/7/2019	5:47:55 PM	195.3	30.3
6/7/2019	5:47:56 PM	195.3	30.3
6/7/2019	5:47:57 PM	195.3	30.3
6/7/2019	5:47:58 PM	195.2	30.2
6/7/2019	5:47:59 PM	195.2	30.2
6/7/2019	5:48:00 PM	195.2	30.2
6/7/2019	5:48:01 PM	195.2	30.2
6/7/2019	5:48:02 PM	195.1	30.1
6/7/2019	5:48:03 PM	195.1	30.1
6/7/2019	5:48:04 PM	195.1	30.1
6/7/2019	5:48:05 PM	195.1	30.1
6/7/2019	5:48:06 PM	195.0	30.0
6/7/2019	5:48:07 PM	195.0	30.0
6/7/2019	5:48:08 PM	195.0	30.0
6/7/2019	5:48:09 PM	194.9	29.9
6/7/2019	5:48:10 PM	194.9	29.9
6/7/2019	5:48:11 PM	194.8	29.8
6/7/2019	5:48:12 PM	194.8	29.8
6/7/2019	5:48:13 PM	194.7	29.7
6/7/2019	5:48:14 PM	194.7	29.7
6/7/2019	5:48:15 PM	194.6	29.6
6/7/2019	5:48:16 PM	194.6	29.6
6/7/2019	5:48:17 PM	194.5	29.5
6/7/2019	5:48:18 PM	194.4	29.4
6/7/2019	5:48:19 PM	194.4	29.4
6/7/2019	5:48:20 PM	194.3	29.3
6/7/2019	5:48:21 PM	194.2	29.2
6/7/2019	5:48:22 PM	194.2	29.2
6/7/2019	5:48:23 PM	194.1	29.1
6/7/2019	5:48:24 PM	194.0	29.0
6/7/2019	5:48:25 PM	194.0	29.0
6/7/2019	5:48:26 PM	193.9	28.9
6/7/2019	5:48:27 PM	193.8	28.8
6/7/2019	5:48:28 PM	193.7	28.7
6/7/2019	5:48:29 PM	193.7	28.7
6/7/2019	5:48:30 PM	193.6	28.6
6/7/2019	5:48:31 PM	193.5	28.5
6/7/2019	5:48:32 PM	193.4	28.4
6/7/2019	5:48:33 PM	193.4	28.4
6/7/2019	5:48:34 PM	193.3	28.3
6/7/2019	5:48:35 PM	193.2	28.2
6/7/2019	5:48:36 PM	193.1	28.1
6/7/2019	5:48:37 PM	193.1	28.1
6/7/2019	5:48:38 PM	193.0	28.0
6/7/2019	5:48:39 PM	192.9	27.9
6/7/2019	5:48:40 PM	192.8	27.8
6/7/2019	5:48:41 PM	192.7	27.7
6/7/2019	5:48:42 PM	192.6	27.6
6/7/2019	5:48:43 PM	192.6	27.6
6/7/2019	5:48:44 PM	192.5	27.5
6/7/2019	5:48:45 PM	192.4	27.4
6/7/2019	5:48:46 PM	192.3	27.3
6/7/2019	5:48:47 PM	192.2	27.2
6/7/2019	5:48:48 PM	192.1	27.1
6/7/2019	5:48:49 PM	192.0	27.0
6/7/2019	5:48:50 PM	191.9	26.9

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:48:51 PM	191.8	26.8
6/7/2019	5:48:52 PM	191.7	26.7
6/7/2019	5:48:53 PM	191.6	26.6
6/7/2019	5:48:54 PM	191.5	26.5
6/7/2019	5:48:55 PM	191.3	26.3
6/7/2019	5:48:56 PM	191.2	26.2
6/7/2019	5:48:57 PM	191.1	26.1
6/7/2019	5:48:58 PM	191.0	26.0
6/7/2019	5:48:59 PM	190.9	25.9
6/7/2019	5:49:00 PM	190.8	25.8
6/7/2019	5:49:01 PM	190.7	25.7
6/7/2019	5:49:02 PM	190.6	25.6
6/7/2019	5:49:03 PM	190.5	25.5
6/7/2019	5:49:04 PM	190.4	25.4
6/7/2019	5:49:05 PM	190.3	25.3
6/7/2019	5:49:06 PM	190.3	25.3
6/7/2019	5:49:07 PM	190.2	25.2
6/7/2019	5:49:08 PM	190.1	25.1
6/7/2019	5:49:09 PM	190.0	25.0
6/7/2019	5:49:10 PM	190.0	25.0
6/7/2019	5:49:11 PM	189.9	24.9
6/7/2019	5:49:12 PM	189.8	24.8
6/7/2019	5:49:13 PM	189.8	24.8
6/7/2019	5:49:14 PM	189.7	24.7
6/7/2019	5:49:15 PM	189.7	24.7
6/7/2019	5:49:16 PM	189.6	24.6
6/7/2019	5:49:17 PM	189.6	24.6
6/7/2019	5:49:18 PM	189.5	24.5
6/7/2019	5:49:19 PM	189.5	24.5
6/7/2019	5:49:20 PM	189.4	24.4
6/7/2019	5:49:21 PM	189.4	24.4
6/7/2019	5:49:22 PM	189.3	24.3
6/7/2019	5:49:23 PM	189.3	24.3
6/7/2019	5:49:24 PM	189.2	24.2
6/7/2019	5:49:25 PM	189.2	24.2
6/7/2019	5:49:26 PM	189.1	24.1
6/7/2019	5:49:27 PM	189.1	24.1
6/7/2019	5:49:28 PM	189.0	24.0
6/7/2019	5:49:29 PM	189.0	24.0
6/7/2019	5:49:30 PM	188.9	23.9
6/7/2019	5:49:31 PM	188.9	23.9
6/7/2019	5:49:32 PM	188.8	23.8
6/7/2019	5:49:33 PM	188.8	23.8
6/7/2019	5:49:34 PM	188.7	23.7
6/7/2019	5:49:35 PM	188.7	23.7
6/7/2019	5:49:36 PM	188.6	23.6
6/7/2019	5:49:37 PM	188.6	23.6
6/7/2019	5:49:38 PM	188.5	23.5
6/7/2019	5:49:39 PM	188.5	23.5
6/7/2019	5:49:40 PM	188.4	23.4
6/7/2019	5:49:41 PM	188.4	23.4
6/7/2019	5:49:42 PM	188.3	23.3
6/7/2019	5:49:43 PM	188.3	23.3
6/7/2019	5:49:44 PM	188.2	23.2
6/7/2019	5:49:45 PM	188.2	23.2
6/7/2019	5:49:46 PM	188.1	23.1
6/7/2019	5:49:47 PM	188.0	23.0
6/7/2019	5:49:48 PM	188.0	23.0
6/7/2019	5:49:49 PM	188.0	23.0
6/7/2019	5:49:50 PM	187.9	22.9
6/7/2019	5:49:51 PM	187.9	22.9
6/7/2019	5:49:52 PM	187.9	22.9
6/7/2019	5:49:53 PM	187.9	22.9
6/7/2019	5:49:54 PM	187.9	22.9
6/7/2019	5:49:55 PM	187.9	22.9
6/7/2019	5:49:56 PM	187.9	22.9
6/7/2019	5:49:57 PM	188.0	23.0
6/7/2019	5:49:58 PM	188.0	23.0
6/7/2019	5:49:59 PM	188.1	23.1
6/7/2019	5:50:00 PM	188.1	23.1
6/7/2019	5:50:01 PM	188.2	23.2
6/7/2019	5:50:02 PM	188.2	23.2
6/7/2019	5:50:03 PM	188.2	23.2
6/7/2019	5:50:04 PM	188.3	23.3
6/7/2019	5:50:05 PM	188.3	23.3
6/7/2019	5:50:06 PM	188.4	23.4
6/7/2019	5:50:07 PM	188.4	23.4
6/7/2019	5:50:08 PM	188.4	23.4
6/7/2019	5:50:09 PM	188.4	23.4

APPENDIX E56: SALT DILUTION GAUGING SUMMARY
SEEP-C1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-C1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	5:50:10 PM	188.4	23.4
6/7/2019	5:50:11 PM	188.4	23.4
6/7/2019	5:50:12 PM	188.4	23.4
6/7/2019	5:50:13 PM	188.3	23.3
6/7/2019	5:50:14 PM	188.3	23.3
6/7/2019	5:50:15 PM	188.3	23.3
6/7/2019	5:50:16 PM	188.2	23.2
6/7/2019	5:50:17 PM	188.2	23.2
6/7/2019	5:50:18 PM	188.1	23.1
6/7/2019	5:50:19 PM	188.1	23.1
6/7/2019	5:50:20 PM	188.0	23.0
6/7/2019	5:50:21 PM	188.0	23.0
6/7/2019	5:50:22 PM	187.9	22.9
6/7/2019	5:50:23 PM	187.9	22.9
6/7/2019	5:50:24 PM	187.8	22.8
6/7/2019	5:50:25 PM	187.8	22.8
6/7/2019	5:50:26 PM	187.7	22.7
6/7/2019	5:50:27 PM	187.7	22.7
6/7/2019	5:50:28 PM	187.6	22.6
6/7/2019	5:50:29 PM	187.6	22.6
6/7/2019	5:50:30 PM	187.5	22.5
6/7/2019	5:50:31 PM	187.5	22.5
6/7/2019	5:50:32 PM	187.4	22.4
6/7/2019	5:50:33 PM	187.4	22.4
6/7/2019	5:50:34 PM	187.3	22.3
6/7/2019	5:50:35 PM	187.3	22.3
6/7/2019	5:50:36 PM	187.3	22.3
6/7/2019	5:50:37 PM	187.2	22.2
6/7/2019	5:50:38 PM	187.2	22.2
6/7/2019	5:50:39 PM	187.2	22.2
6/7/2019	5:50:40 PM	187.2	22.2
6/7/2019	5:50:41 PM	187.1	22.1
6/7/2019	5:50:42 PM	187.1	22.1
6/7/2019	5:50:43 PM	187.1	22.1
6/7/2019	5:50:44 PM	187.1	22.1
6/7/2019	5:50:45 PM	187.0	22.0
6/7/2019	5:50:46 PM	187.0	22.0
6/7/2019	5:50:47 PM	187.0	22.0
6/7/2019	5:50:48 PM	187.0	22.0
6/7/2019	5:50:49 PM	187.0	22.0
6/7/2019	5:50:50 PM	187.0	22.0
6/7/2019	5:50:51 PM	187.0	22.0
6/7/2019	5:50:52 PM	187.0	22.0
6/7/2019	5:50:53 PM	187.0	22.0
6/7/2019	5:50:54 PM	187.0	22.0
6/7/2019	5:50:55 PM	187.0	22.0
6/7/2019	5:50:56 PM	187.0	22.0
6/7/2019	5:50:57 PM	187.0	22.0
6/7/2019	5:50:58 PM	187.0	22.0
6/7/2019	5:50:59 PM	187.0	22.0
6/7/2019	5:51:00 PM	187.0	22.0

Table E2 SEEP-C1 TEST-4 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-C1 TEST-4	1625	142.9	21.4
SEEP-C1 TEST-4	1626	141.8	21.8
SEEP-C1 TEST-4	1627	142.6	21.4
SEEP-C1 TEST-4	1628	154.3	21.7
Average		145.4	(µS/cms)
Geometric Mean		145.3	(µS/cms)
Average (pre-test)		165.0	(µS/cms)
Average (post-test)		190.9	(µS/cms)

Table E3 SEEP-C1 TEST-4 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-C1 TEST-4	100	1,115	24.2
SEEP-C1 TEST-4	1,000	2,150	24.2
SEEP-C1 TEST-4	10,000	16,651	24.1
SEEP-C1 TEST-4	100,000	132,589	24.1

Table E4 SEEP-C1 TEST-4 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})*\Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.3293	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	530,862.5	(s) . (µS/cms)
Calculated Flow Rate	Q	0.8	L/s
		11.9	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E57: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:31:43 PM	183.7	-
6/7/2019	3:31:44 PM	183.7	-
6/7/2019	3:31:45 PM	183.7	-
6/7/2019	3:31:46 PM	183.8	-
6/7/2019	3:31:47 PM	183.8	-
6/7/2019	3:31:48 PM	183.7	-
6/7/2019	3:31:49 PM	183.7	-
6/7/2019	3:31:50 PM	183.7	-
6/7/2019	3:31:51 PM	183.7	-
6/7/2019	3:31:52 PM	183.7	-
6/7/2019	3:31:53 PM	183.7	-
6/7/2019	3:31:54 PM	183.7	-
6/7/2019	3:31:55 PM	183.7	-
6/7/2019	3:31:56 PM	183.6	-
6/7/2019	3:31:57 PM	183.6	-
6/7/2019	3:31:58 PM	183.5	-
6/7/2019	3:31:59 PM	183.5	-
6/7/2019	3:32:00 PM	183.4	-
6/7/2019	3:32:01 PM	183.5	-
6/7/2019	3:32:02 PM	236.9	53.2
6/7/2019	3:32:03 PM	461.3	277.6
6/7/2019	3:32:04 PM	2222.0	2038.3
6/7/2019	3:32:05 PM	4353.0	4169.3
6/7/2019	3:32:06 PM	6225.2	6041.5
6/7/2019	3:32:07 PM	7492.9	7309.2
6/7/2019	3:32:08 PM	9474.1	9290.4
6/7/2019	3:32:09 PM	10104.2	9920.5
6/7/2019	3:32:10 PM	10155.4	9971.7
6/7/2019	3:32:11 PM	10038.3	9854.6
6/7/2019	3:32:12 PM	8994.5	8810.8
6/7/2019	3:32:13 PM	8306.9	8123.2
6/7/2019	3:32:14 PM	7528.3	7344.6
6/7/2019	3:32:15 PM	6617.8	6434.1
6/7/2019	3:32:16 PM	5471.7	5288.0
6/7/2019	3:32:17 PM	5131.1	4947.4
6/7/2019	3:32:18 PM	4224.8	4041.1
6/7/2019	3:32:19 PM	3776.9	3593.2
6/7/2019	3:32:20 PM	3326.0	3142.3
6/7/2019	3:32:21 PM	2893.8	2710.1
6/7/2019	3:32:22 PM	2542.4	2358.7
6/7/2019	3:32:23 PM	2240.3	2056.6
6/7/2019	3:32:24 PM	1871.1	1687.4
6/7/2019	3:32:25 PM	1587.0	1403.3
6/7/2019	3:32:26 PM	1487.4	1303.7
6/7/2019	3:32:27 PM	1191.2	1007.5
6/7/2019	3:32:28 PM	1056.3	872.6
6/7/2019	3:32:29 PM	933.0	749.3
6/7/2019	3:32:30 PM	891.5	707.8
6/7/2019	3:32:31 PM	765.8	582.1
6/7/2019	3:32:32 PM	704.1	520.4
6/7/2019	3:32:33 PM	641.9	458.2
6/7/2019	3:32:34 PM	639.7	456.0
6/7/2019	3:32:35 PM	506.7	323.0
6/7/2019	3:32:36 PM	505.6	321.9
6/7/2019	3:32:37 PM	489.8	306.1
6/7/2019	3:32:38 PM	468.8	285.1
6/7/2019	3:32:39 PM	445.4	261.7
6/7/2019	3:32:40 PM	428.0	244.3
6/7/2019	3:32:41 PM	416.1	232.4
6/7/2019	3:32:42 PM	408.6	224.9
6/7/2019	3:32:43 PM	354.2	170.5
6/7/2019	3:32:44 PM	340.8	157.1
6/7/2019	3:32:45 PM	332.6	148.9
6/7/2019	3:32:46 PM	326.1	142.4
6/7/2019	3:32:47 PM	320.4	136.7
6/7/2019	3:32:48 PM	316.0	132.3
6/7/2019	3:32:49 PM	311.8	128.1
6/7/2019	3:32:50 PM	308.4	124.7
6/7/2019	3:32:51 PM	304.5	120.8
6/7/2019	3:32:52 PM	301.4	117.7

APPENDIX E57: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-1 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-1 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:32:53 PM	297.8	114.1
6/7/2019	3:32:54 PM	294.6	110.9
6/7/2019	3:32:55 PM	291.4	107.7
6/7/2019	3:32:56 PM	288.5	104.8
6/7/2019	3:32:57 PM	285.5	101.8
6/7/2019	3:32:58 PM	283.3	99.6
6/7/2019	3:32:59 PM	280.4	96.7
6/7/2019	3:33:00 PM	274.9	91.2
6/7/2019	3:33:01 PM	269.0	85.3
6/7/2019	3:33:02 PM	264.2	80.5
6/7/2019	3:33:03 PM	258.9	75.2
6/7/2019	3:33:04 PM	254.5	70.8
6/7/2019	3:33:05 PM	249.7	66.0
6/7/2019	3:33:06 PM	245.9	62.2
6/7/2019	3:33:07 PM	241.8	58.1
6/7/2019	3:33:08 PM	238.3	54.6
6/7/2019	3:33:09 PM	234.7	51.0
6/7/2019	3:33:10 PM	231.1	47.4
6/7/2019	3:33:11 PM	227.8	44.1
6/7/2019	3:33:12 PM	224.7	41.0
6/7/2019	3:33:13 PM	222.1	38.4
6/7/2019	3:33:14 PM	219.2	35.5
6/7/2019	3:33:15 PM	216.8	33.1
6/7/2019	3:33:16 PM	214.3	30.6
6/7/2019	3:33:17 PM	212.3	28.6
6/7/2019	3:33:18 PM	210.1	26.4
6/7/2019	3:33:19 PM	208.1	24.4
6/7/2019	3:33:20 PM	206.0	22.3
6/7/2019	3:33:21 PM	204.3	20.6
6/7/2019	3:33:22 PM	202.5	18.8
6/7/2019	3:33:23 PM	201.0	17.3
6/7/2019	3:33:24 PM	199.5	15.8
6/7/2019	3:33:25 PM	198.2	14.5
6/7/2019	3:33:26 PM	196.9	13.2
6/7/2019	3:33:27 PM	195.9	12.2
6/7/2019	3:33:28 PM	194.9	11.2
6/7/2019	3:33:29 PM	194.1	10.4
6/7/2019	3:33:30 PM	193.3	9.6
6/7/2019	3:33:31 PM	192.7	9.0
6/7/2019	3:33:32 PM	192.1	8.4
6/7/2019	3:33:33 PM	191.7	8.0
6/7/2019	3:33:34 PM	191.3	7.6
6/7/2019	3:33:35 PM	190.9	7.2
6/7/2019	3:33:36 PM	190.6	6.9
6/7/2019	3:33:37 PM	190.4	6.7
6/7/2019	3:33:38 PM	190.2	6.5
6/7/2019	3:33:39 PM	190.0	6.3
6/7/2019	3:33:40 PM	189.8	6.1
6/7/2019	3:33:41 PM	189.7	6.0
6/7/2019	3:33:42 PM	189.6	5.9
6/7/2019	3:33:43 PM	189.5	5.8
6/7/2019	3:33:44 PM	189.3	5.6
6/7/2019	3:33:45 PM	189.2	5.5
6/7/2019	3:33:46 PM	189.0	5.3
6/7/2019	3:33:47 PM	188.9	5.2
6/7/2019	3:33:48 PM	188.8	5.1
6/7/2019	3:33:49 PM	188.7	5.0
6/7/2019	3:33:50 PM	188.6	4.9
6/7/2019	3:33:51 PM	188.5	4.8

Table E2 SEEP-D1 TEST-1 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-D1 TEST-1	1520	182.9	19.6
SEEP-D1 TEST-1	1521	184.1	19.4
SEEP-D1 TEST-1	1522	185.2	19.1
SEEP-D1 TEST-1	1524	185.2	19.4
Average		184.4	(µS/cms)
Geometric Mean		184.3	(µS/cms)
Average (pre-test)		183.7	(µS/cms)
Average (post-test)		190.0	(µS/cms)

Table E3 SEEP-D1 TEST-1 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-D1 TEST-1	100	1,130	27.1
SEEP-D1 TEST-1	1,000	2,147	27.2
SEEP-D1 TEST-1	10,000	17,118	27.1
SEEP-D1 TEST-1	100,000	135,213	27

Table E4 SEEP-D1 TEST-1 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg})*\Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.3558	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	133,186.2	(s) . (µS/cms)
Calculated Flow Rate	Q	3.1	L/s
		48.5	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E58: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:39:47 PM	179.5	-
6/7/2019	3:39:48 PM	179.3	-
6/7/2019	3:39:49 PM	179.2	-
6/7/2019	3:39:50 PM	179.2	-
6/7/2019	3:39:51 PM	179.1	-
6/7/2019	3:39:52 PM	179.0	-
6/7/2019	3:39:53 PM	179.0	-
6/7/2019	3:39:54 PM	179.0	-
6/7/2019	3:39:55 PM	179.0	-
6/7/2019	3:39:56 PM	179.0	-
6/7/2019	3:39:57 PM	179.0	-
6/7/2019	3:39:58 PM	179.0	-
6/7/2019	3:39:59 PM	179.1	-
6/7/2019	3:40:00 PM	179.3	-
6/7/2019	3:40:01 PM	179.4	-
6/7/2019	3:40:02 PM	179.5	-
6/7/2019	3:40:03 PM	179.6	-
6/7/2019	3:40:04 PM	179.7	-
6/7/2019	3:40:05 PM	179.8	-
6/7/2019	3:40:06 PM	179.9	-
6/7/2019	3:40:07 PM	180.1	-
6/7/2019	3:40:08 PM	180.5	-
6/7/2019	3:40:09 PM	308.5	129.1
6/7/2019	3:40:10 PM	668.7	489.3
6/7/2019	3:40:11 PM	1924.7	1745.3
6/7/2019	3:40:12 PM	3249.7	3070.3
6/7/2019	3:40:13 PM	4203.8	4024.4
6/7/2019	3:40:14 PM	5468.0	5288.6
6/7/2019	3:40:15 PM	6179.0	5999.6
6/7/2019	3:40:16 PM	6697.1	6517.7
6/7/2019	3:40:17 PM	6867.5	6688.1
6/7/2019	3:40:18 PM	6949.9	6770.5
6/7/2019	3:40:19 PM	6953.2	6773.8
6/7/2019	3:40:20 PM	6545.4	6366.0
6/7/2019	3:40:21 PM	6201.1	6021.7
6/7/2019	3:40:22 PM	5535.0	5355.6
6/7/2019	3:40:23 PM	5072.0	4892.6
6/7/2019	3:40:24 PM	4526.7	4347.3
6/7/2019	3:40:25 PM	4181.4	4002.0
6/7/2019	3:40:26 PM	3615.5	3436.1
6/7/2019	3:40:27 PM	3482.4	3303.0
6/7/2019	3:40:28 PM	3119.1	2939.7
6/7/2019	3:40:29 PM	2741.2	2561.8
6/7/2019	3:40:30 PM	2474.8	2295.4
6/7/2019	3:40:31 PM	2245.3	2065.9
6/7/2019	3:40:32 PM	1997.2	1817.8
6/7/2019	3:40:33 PM	1819.8	1640.4
6/7/2019	3:40:34 PM	1634.3	1454.9
6/7/2019	3:40:35 PM	1491.4	1312.0
6/7/2019	3:40:36 PM	1352.8	1173.4
6/7/2019	3:40:37 PM	1224.1	1044.7
6/7/2019	3:40:38 PM	1217.1	1037.7
6/7/2019	3:40:39 PM	1066.5	887.1
6/7/2019	3:40:40 PM	1038.2	858.8
6/7/2019	3:40:41 PM	962.7	783.3
6/7/2019	3:40:42 PM	901.5	722.1
6/7/2019	3:40:43 PM	863.7	684.3
6/7/2019	3:40:44 PM	788.3	608.9
6/7/2019	3:40:45 PM	703.2	523.8
6/7/2019	3:40:46 PM	716.6	537.2
6/7/2019	3:40:47 PM	681.9	502.5
6/7/2019	3:40:48 PM	671.0	491.6
6/7/2019	3:40:49 PM	659.2	479.8
6/7/2019	3:40:50 PM	655.5	476.1
6/7/2019	3:40:51 PM	572.7	393.3
6/7/2019	3:40:52 PM	576.8	397.4
6/7/2019	3:40:53 PM	547.3	367.9
6/7/2019	3:40:54 PM	533.6	354.2
6/7/2019	3:40:55 PM	524.3	344.9
6/7/2019	3:40:56 PM	511.0	331.6

APPENDIX E58: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-2 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:40:57 PM	502.1	322.7
6/7/2019	3:40:58 PM	497.5	318.1
6/7/2019	3:40:59 PM	491.1	311.7
6/7/2019	3:41:00 PM	440.9	261.5
6/7/2019	3:41:01 PM	432.0	252.6
6/7/2019	3:41:02 PM	419.6	240.2
6/7/2019	3:41:03 PM	401.2	221.8
6/7/2019	3:41:04 PM	400.3	220.9
6/7/2019	3:41:05 PM	396.6	217.2
6/7/2019	3:41:06 PM	392.7	213.3
6/7/2019	3:41:07 PM	386.8	207.4
6/7/2019	3:41:08 PM	381.3	201.9
6/7/2019	3:41:09 PM	376.4	197.0
6/7/2019	3:41:10 PM	372.9	193.5
6/7/2019	3:41:11 PM	368.0	188.6
6/7/2019	3:41:12 PM	365.9	186.5
6/7/2019	3:41:13 PM	361.8	182.4
6/7/2019	3:41:14 PM	358.9	179.5
6/7/2019	3:41:15 PM	355.5	176.1
6/7/2019	3:41:16 PM	352.6	173.2
6/7/2019	3:41:17 PM	345.4	166.0
6/7/2019	3:41:18 PM	339.5	160.1
6/7/2019	3:41:19 PM	333.1	153.7
6/7/2019	3:41:20 PM	328.6	149.2
6/7/2019	3:41:21 PM	323.5	144.1
6/7/2019	3:41:22 PM	318.9	139.5
6/7/2019	3:41:23 PM	314.1	134.7
6/7/2019	3:41:24 PM	309.7	130.3
6/7/2019	3:41:25 PM	304.6	125.2
6/7/2019	3:41:26 PM	300.2	120.8
6/7/2019	3:41:27 PM	295.5	116.1
6/7/2019	3:41:28 PM	291.6	112.2
6/7/2019	3:41:29 PM	287.2	107.8
6/7/2019	3:41:30 PM	283.0	103.6
6/7/2019	3:41:31 PM	279.4	100.0
6/7/2019	3:41:32 PM	275.4	96.0
6/7/2019	3:41:33 PM	272.2	92.8
6/7/2019	3:41:34 PM	268.6	89.2
6/7/2019	3:41:35 PM	265.6	86.2
6/7/2019	3:41:36 PM	262.4	83.0
6/7/2019	3:41:37 PM	259.9	80.5
6/7/2019	3:41:38 PM	257.1	77.7
6/7/2019	3:41:39 PM	254.7	75.3
6/7/2019	3:41:40 PM	252.0	72.6
6/7/2019	3:41:41 PM	249.9	70.5
6/7/2019	3:41:42 PM	247.6	68.2
6/7/2019	3:41:43 PM	245.7	66.3
6/7/2019	3:41:44 PM	243.6	64.2
6/7/2019	3:41:45 PM	241.7	62.3
6/7/2019	3:41:46 PM	239.6	60.2
6/7/2019	3:41:47 PM	238.0	58.6
6/7/2019	3:41:48 PM	236.3	56.9
6/7/2019	3:41:49 PM	234.9	55.5
6/7/2019	3:41:50 PM	233.4	54.0
6/7/2019	3:41:51 PM	232.3	52.9
6/7/2019	3:41:52 PM	231.3	51.9
6/7/2019	3:41:53 PM	230.4	51.0
6/7/2019	3:41:54 PM	229.6	50.2
6/7/2019	3:41:55 PM	228.9	49.5
6/7/2019	3:41:56 PM	228.2	48.8
6/7/2019	3:41:57 PM	227.7	48.3
6/7/2019	3:41:58 PM	226.9	47.5
6/7/2019	3:41:59 PM	226.3	46.9
6/7/2019	3:42:00 PM	225.6	46.2
6/7/2019	3:42:01 PM	224.9	45.5
6/7/2019	3:42:02 PM	224.2	44.8
6/7/2019	3:42:03 PM	223.6	44.2
6/7/2019	3:42:04 PM	223.0	43.6
6/7/2019	3:42:05 PM	222.5	43.1
6/7/2019	3:42:06 PM	222.0	42.6
6/7/2019	3:42:07 PM	221.5	42.1
6/7/2019	3:42:08 PM	221.0	41.6
6/7/2019	3:42:09 PM	220.4	41.0
6/7/2019	3:42:10 PM	219.7	40.3
6/7/2019	3:42:11 PM	219.2	39.8
6/7/2019	3:42:12 PM	218.5	39.1
6/7/2019	3:42:13 PM	217.8	38.4

Table E1 SEEP-D1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:42:14 PM	217.1	37.7
6/7/2019	3:42:15 PM	216.3	36.9
6/7/2019	3:42:16 PM	215.5	36.1
6/7/2019	3:42:17 PM	214.5	35.1
6/7/2019	3:42:18 PM	213.7	34.3
6/7/2019	3:42:19 PM	212.7	33.3
6/7/2019	3:42:20 PM	211.8	32.4
6/7/2019	3:42:21 PM	210.9	31.5
6/7/2019	3:42:22 PM	210.1	30.7
6/7/2019	3:42:23 PM	209.2	29.8
6/7/2019	3:42:24 PM	208.6	29.2
6/7/2019	3:42:25 PM	207.9	28.5
6/7/2019	3:42:26 PM	207.4	28.0
6/7/2019	3:42:27 PM	206.8	27.4
6/7/2019	3:42:28 PM	206.4	27.0
6/7/2019	3:42:29 PM	205.9	26.5
6/7/2019	3:42:30 PM	205.6	26.2
6/7/2019	3:42:31 PM	205.2	25.8
6/7/2019	3:42:32 PM	204.9	25.5
6/7/2019	3:42:33 PM	204.6	25.2
6/7/2019	3:42:34 PM	204.4	25.0
6/7/2019	3:42:35 PM	204.1	24.7
6/7/2019	3:42:36 PM	203.9	24.5
6/7/2019	3:42:37 PM	203.8	24.4
6/7/2019	3:42:38 PM	203.6	24.2
6/7/2019	3:42:39 PM	203.5	24.1
6/7/2019	3:42:40 PM	203.3	23.9
6/7/2019	3:42:41 PM	203.2	23.8
6/7/2019	3:42:42 PM	203.1	23.7
6/7/2019	3:42:43 PM	203.0	23.6
6/7/2019	3:42:44 PM	202.9	23.5
6/7/2019	3:42:45 PM	202.8	23.4
6/7/2019	3:42:46 PM	202.7	23.3
6/7/2019	3:42:47 PM	202.7	23.3
6/7/2019	3:42:48 PM	202.7	23.3
6/7/2019	3:42:49 PM	202.7	23.3
6/7/2019	3:42:50 PM	202.6	23.2
6/7/2019	3:42:51 PM	202.6	23.2
6/7/2019	3:42:52 PM	202.5	23.1
6/7/2019	3:42:53 PM	202.5	23.1
6/7/2019	3:42:54 PM	202.4	23.0
6/7/2019	3:42:55 PM	202.4	23.0
6/7/2019	3:42:56 PM	202.3	22.9
6/7/2019	3:42:57 PM	202.3	22.9
6/7/2019	3:42:58 PM	202.3	22.9
6/7/2019	3:42:59 PM	202.1	22.7
6/7/2019	3:43:00 PM	202.0	22.6
6/7/2019	3:43:01 PM	201.8	22.4
6/7/2019	3:43:02 PM	201.6	22.2
6/7/2019	3:43:03 PM	201.5	22.1
6/7/2019	3:43:04 PM	201.3	21.9
6/7/2019	3:43:05 PM	201.1	21.7
6/7/2019	3:43:06 PM	200.9	21.5
6/7/2019	3:43:07 PM	200.8	21.4
6/7/2019	3:43:08 PM	200.5	21.1
6/7/2019	3:43:09 PM	200.4	21.0
6/7/2019	3:43:10 PM	200.2	20.8
6/7/2019	3:43:11 PM	200.0	20.6
6/7/2019	3:43:12 PM	199.8	20.4
6/7/2019	3:43:13 PM	199.7	20.3
6/7/2019	3:43:14 PM	199.6	20.2
6/7/2019	3:43:15 PM	199.5	20.1
6/7/2019	3:43:16 PM	199.3	19.9
6/7/2019	3:43:17 PM	199.2	19.8
6/7/2019	3:43:18 PM	199.1	19.7
6/7/2019	3:43:19 PM	199.0	19.6
6/7/2019	3:43:20 PM	198.8	19.4
6/7/2019	3:43:21 PM	198.7	19.3
6/7/2019	3:43:22 PM	198.6	19.2
6/7/2019	3:43:23 PM	198.4	19.0
6/7/2019	3:43:24 PM	198.2	18.8
6/7/2019	3:43:25 PM	198.1	18.7
6/7/2019	3:43:26 PM	198.0	18.6
6/7/2019	3:43:27 PM	197.8	18.4
6/7/2019	3:43:28 PM	197.7	18.3
6/7/2019	3:43:29 PM	197.5	18.1
6/7/2019	3:43:30 PM	197.2	17.8
6/7/2019	3:43:31 PM	197.0	17.6
6/7/2019	3:43:32 PM	196.7	17.3

Table E1 SEEP-D1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:43:33 PM	196.4	17.0
6/7/2019	3:43:34 PM	196.0	16.6
6/7/2019	3:43:35 PM	195.7	16.3
6/7/2019	3:43:36 PM	195.3	15.9
6/7/2019	3:43:37 PM	194.9	15.5
6/7/2019	3:43:38 PM	194.5	15.1
6/7/2019	3:43:39 PM	194.1	14.7
6/7/2019	3:43:40 PM	193.7	14.3
6/7/2019	3:43:41 PM	193.4	14.0
6/7/2019	3:43:42 PM	193.0	13.6
6/7/2019	3:43:43 PM	192.7	13.3
6/7/2019	3:43:44 PM	192.4	13.0
6/7/2019	3:43:45 PM	192.2	12.8
6/7/2019	3:43:46 PM	192.0	12.6
6/7/2019	3:43:47 PM	191.9	12.5
6/7/2019	3:43:48 PM	191.8	12.4
6/7/2019	3:43:49 PM	191.7	12.3
6/7/2019	3:43:50 PM	191.6	12.2
6/7/2019	3:43:51 PM	191.5	12.1
6/7/2019	3:43:52 PM	191.5	12.1
6/7/2019	3:43:53 PM	191.5	12.1
6/7/2019	3:43:54 PM	191.4	12.0
6/7/2019	3:43:55 PM	191.4	12.0
6/7/2019	3:43:56 PM	191.4	12.0
6/7/2019	3:43:57 PM	191.4	12.0
6/7/2019	3:43:58 PM	191.5	12.1
6/7/2019	3:43:59 PM	191.6	12.2
6/7/2019	3:44:00 PM	191.7	12.3
6/7/2019	3:44:01 PM	191.9	12.5
6/7/2019	3:44:02 PM	192.0	12.6
6/7/2019	3:44:03 PM	192.2	12.8
6/7/2019	3:44:04 PM	192.4	13.0
6/7/2019	3:44:05 PM	192.7	13.3
6/7/2019	3:44:06 PM	192.9	13.5
6/7/2019	3:44:07 PM	193.1	13.7
6/7/2019	3:44:08 PM	193.3	13.9
6/7/2019	3:44:09 PM	193.4	14.0
6/7/2019	3:44:10 PM	193.5	14.1
6/7/2019	3:44:11 PM	193.6	14.2
6/7/2019	3:44:12 PM	193.6	14.2
6/7/2019	3:44:13 PM	193.6	14.2
6/7/2019	3:44:14 PM	193.5	14.1
6/7/2019	3:44:15 PM	193.4	14.0
6/7/2019	3:44:16 PM	193.3	13.9
6/7/2019	3:44:17 PM	193.2	13.8
6/7/2019	3:44:18 PM	193.0	13.6
6/7/2019	3:44:19 PM	192.7	13.3
6/7/2019	3:44:20 PM	192.4	13.0
6/7/2019	3:44:21 PM	192.1	12.7
6/7/2019	3:44:22 PM	191.9	12.5
6/7/2019	3:44:23 PM	191.6	12.2
6/7/2019	3:44:24 PM	191.4	12.0
6/7/2019	3:44:25 PM	191.1	11.7
6/7/2019	3:44:26 PM	190.9	11.5
6/7/2019	3:44:27 PM	190.7	11.3
6/7/2019	3:44:28 PM	190.5	11.1
6/7/2019	3:44:29 PM	190.4	11.0
6/7/2019	3:44:30 PM	190.2	10.8
6/7/2019	3:44:31 PM	190.2	10.8
6/7/2019	3:44:32 PM	190.1	10.7
6/7/2019	3:44:33 PM	190.1	10.7
6/7/2019	3:44:34 PM	190.1	10.7
6/7/2019	3:44:35 PM	190.2	10.8
6/7/2019	3:44:36 PM	190.2	10.8
6/7/2019	3:44:37 PM	190.3	10.9

Table E2 SEEP-D1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-D1 TEST-2	1520	182.9	19.6
SEEP-D1 TEST-2	1521	184.1	19.4
SEEP-D1 TEST-2	1522	185.2	19.1
SEEP-D1 TEST-2	1524	185.2	19.4
Average		184.4	(µS/cms)
Geometric Mean		184.3	(µS/cms)
Average (pre-test)		183.7	(µS/cms)
Average (post-test)		190.0	(µS/cms)

Table E3 SEEP-D1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-D1 TEST-2	100	1,130	27.1
SEEP-D1 TEST-2	1,000	2,147	27.2
SEEP-D1 TEST-2	10,000	17,118	27.1
SEEP-D1 TEST-2	100,000	135,213	27

Table E4 SEEP-D1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.3558	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	125,873.3	(s) . (µS/cms)
Calculated Flow Rate	Q	3.2	L/s
		51.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E59: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:49:09 PM	180.1	-
6/7/2019	3:49:10 PM	179.9	-
6/7/2019	3:49:11 PM	179.6	-
6/7/2019	3:49:12 PM	179.4	-
6/7/2019	3:49:13 PM	179.3	-
6/7/2019	3:49:14 PM	179.3	-
6/7/2019	3:49:15 PM	179.3	-
6/7/2019	3:49:16 PM	179.3	-
6/7/2019	3:49:17 PM	179.4	-
6/7/2019	3:49:18 PM	179.4	-
6/7/2019	3:49:19 PM	179.4	-
6/7/2019	3:49:20 PM	179.5	-
6/7/2019	3:49:21 PM	179.6	-
6/7/2019	3:49:22 PM	179.6	-
6/7/2019	3:49:23 PM	179.7	-
6/7/2019	3:49:24 PM	179.9	-
6/7/2019	3:49:25 PM	180.0	-
6/7/2019	3:49:26 PM	180.0	-
6/7/2019	3:49:27 PM	180.0	-
6/7/2019	3:49:28 PM	180.0	-
6/7/2019	3:49:29 PM	180.0	-
6/7/2019	3:49:30 PM	180.2	-
6/7/2019	3:49:31 PM	180.8	-
6/7/2019	3:49:32 PM	256.2	76.5
6/7/2019	3:49:33 PM	422.1	242.4
6/7/2019	3:49:34 PM	691.8	512.1
6/7/2019	3:49:35 PM	1178.5	998.8
6/7/2019	3:49:36 PM	2045.8	1866.1
6/7/2019	3:49:37 PM	4015.7	3836.0
6/7/2019	3:49:38 PM	5447.8	5268.1
6/7/2019	3:49:39 PM	6202.0	6022.3
6/7/2019	3:49:40 PM	7228.0	7048.3
6/7/2019	3:49:41 PM	7513.7	7334.0
6/7/2019	3:49:42 PM	7722.5	7542.8
6/7/2019	3:49:43 PM	7792.4	7612.7
6/7/2019	3:49:44 PM	7747.6	7567.9
6/7/2019	3:49:45 PM	7185.2	7005.5
6/7/2019	3:49:46 PM	6761.9	6582.2
6/7/2019	3:49:47 PM	6315.4	6135.7
6/7/2019	3:49:48 PM	5370.4	5190.7
6/7/2019	3:49:49 PM	5221.0	5041.3
6/7/2019	3:49:50 PM	4772.0	4592.3
6/7/2019	3:49:51 PM	4308.3	4128.6
6/7/2019	3:49:52 PM	4102.8	3923.1
6/7/2019	3:49:53 PM	3806.8	3627.1
6/7/2019	3:49:54 PM	3366.0	3186.3
6/7/2019	3:49:55 PM	2997.3	2817.6
6/7/2019	3:49:56 PM	2744.0	2564.3
6/7/2019	3:49:57 PM	2587.4	2407.7
6/7/2019	3:49:58 PM	2290.8	2111.1
6/7/2019	3:49:59 PM	2035.3	1855.6
6/7/2019	3:50:00 PM	1912.6	1732.9
6/7/2019	3:50:01 PM	1737.3	1557.6
6/7/2019	3:50:02 PM	1573.4	1393.7
6/7/2019	3:50:03 PM	1434.0	1254.3
6/7/2019	3:50:04 PM	1271.7	1092.0
6/7/2019	3:50:05 PM	1164.0	984.3
6/7/2019	3:50:06 PM	1134.0	954.3
6/7/2019	3:50:07 PM	1020.0	840.3
6/7/2019	3:50:08 PM	944.9	765.2
6/7/2019	3:50:09 PM	869.9	690.2
6/7/2019	3:50:10 PM	816.7	637.0
6/7/2019	3:50:11 PM	789.2	609.5
6/7/2019	3:50:12 PM	692.1	512.4
6/7/2019	3:50:13 PM	669.6	489.9
6/7/2019	3:50:14 PM	620.8	441.1
6/7/2019	3:50:15 PM	469.5	289.8
6/7/2019	3:50:16 PM	553.4	373.7
6/7/2019	3:50:17 PM	543.9	364.2
6/7/2019	3:50:18 PM	514.3	334.6

APPENDIX E59: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:50:19 PM	507.2	327.5
6/7/2019	3:50:20 PM	491.8	312.1
6/7/2019	3:50:21 PM	479.9	300.2
6/7/2019	3:50:22 PM	473.2	293.5
6/7/2019	3:50:23 PM	465.8	286.1
6/7/2019	3:50:24 PM	408.0	228.3
6/7/2019	3:50:25 PM	397.5	217.8
6/7/2019	3:50:26 PM	385.4	205.7
6/7/2019	3:50:27 PM	382.0	202.3
6/7/2019	3:50:28 PM	375.8	196.1
6/7/2019	3:50:29 PM	372.7	193.0
6/7/2019	3:50:30 PM	368.4	188.7
6/7/2019	3:50:31 PM	363.1	183.4
6/7/2019	3:50:32 PM	358.3	178.6
6/7/2019	3:50:33 PM	355.7	176.0
6/7/2019	3:50:34 PM	350.8	171.1
6/7/2019	3:50:35 PM	347.7	168.0
6/7/2019	3:50:36 PM	344.1	164.4
6/7/2019	3:50:37 PM	341.2	161.5
6/7/2019	3:50:38 PM	338.2	158.5
6/7/2019	3:50:39 PM	335.6	155.9
6/7/2019	3:50:40 PM	331.1	151.4
6/7/2019	3:50:41 PM	325.6	145.9
6/7/2019	3:50:42 PM	319.7	140.0
6/7/2019	3:50:43 PM	315.1	135.4
6/7/2019	3:50:44 PM	310.3	130.6
6/7/2019	3:50:45 PM	306.6	126.9
6/7/2019	3:50:46 PM	302.5	122.8
6/7/2019	3:50:47 PM	299.6	119.9
6/7/2019	3:50:48 PM	295.6	115.9
6/7/2019	3:50:49 PM	292.3	112.6
6/7/2019	3:50:50 PM	289.6	109.9
6/7/2019	3:50:51 PM	286.7	107.0
6/7/2019	3:50:52 PM	284.2	104.5
6/7/2019	3:50:53 PM	281.6	101.9
6/7/2019	3:50:54 PM	279.4	99.7
6/7/2019	3:50:55 PM	276.9	97.2
6/7/2019	3:50:56 PM	274.8	95.1
6/7/2019	3:50:57 PM	272.6	92.9
6/7/2019	3:50:58 PM	270.6	90.9
6/7/2019	3:50:59 PM	268.5	88.8
6/7/2019	3:51:00 PM	266.7	87.0
6/7/2019	3:51:01 PM	264.7	85.0
6/7/2019	3:51:02 PM	263.1	83.4
6/7/2019	3:51:03 PM	261.1	81.4
6/7/2019	3:51:04 PM	259.5	79.8
6/7/2019	3:51:05 PM	257.7	78.0
6/7/2019	3:51:06 PM	256.2	76.5
6/7/2019	3:51:07 PM	254.6	74.9
6/7/2019	3:51:08 PM	253.3	73.6
6/7/2019	3:51:09 PM	251.8	72.1
6/7/2019	3:51:10 PM	250.5	70.8
6/7/2019	3:51:11 PM	249.1	69.4
6/7/2019	3:51:12 PM	247.9	68.2
6/7/2019	3:51:13 PM	246.7	67.0
6/7/2019	3:51:14 PM	245.6	65.9
6/7/2019	3:51:15 PM	244.4	64.7
6/7/2019	3:51:16 PM	243.4	63.7
6/7/2019	3:51:17 PM	242.3	62.6
6/7/2019	3:51:18 PM	241.4	61.7
6/7/2019	3:51:19 PM	240.5	60.8
6/7/2019	3:51:20 PM	239.7	60.0
6/7/2019	3:51:21 PM	238.8	59.1
6/7/2019	3:51:22 PM	238.1	58.4
6/7/2019	3:51:23 PM	237.4	57.7
6/7/2019	3:51:24 PM	236.8	57.1
6/7/2019	3:51:25 PM	236.1	56.4
6/7/2019	3:51:26 PM	235.5	55.8
6/7/2019	3:51:27 PM	234.8	55.1
6/7/2019	3:51:28 PM	234.2	54.5
6/7/2019	3:51:29 PM	233.6	53.9
6/7/2019	3:51:30 PM	232.9	53.2
6/7/2019	3:51:31 PM	232.3	52.6
6/7/2019	3:51:32 PM	231.5	51.8
6/7/2019	3:51:33 PM	230.9	51.2
6/7/2019	3:51:34 PM	230.1	50.4
6/7/2019	3:51:35 PM	229.3	49.6

APPENDIX E59: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-3 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:51:36 PM	228.3	48.6
6/7/2019	3:51:37 PM	227.4	47.7
6/7/2019	3:51:38 PM	226.3	46.6
6/7/2019	3:51:39 PM	225.2	45.5
6/7/2019	3:51:40 PM	224.1	44.4
6/7/2019	3:51:41 PM	223.1	43.4
6/7/2019	3:51:42 PM	221.7	42.0
6/7/2019	3:51:43 PM	220.4	40.7
6/7/2019	3:51:44 PM	218.5	38.8
6/7/2019	3:51:45 PM	216.9	37.2
6/7/2019	3:51:46 PM	214.9	35.2
6/7/2019	3:51:47 PM	213.3	33.6
6/7/2019	3:51:48 PM	211.5	31.8
6/7/2019	3:51:49 PM	209.9	30.2
6/7/2019	3:51:50 PM	208.2	28.5
6/7/2019	3:51:51 PM	206.8	27.1
6/7/2019	3:51:52 PM	205.2	25.5
6/7/2019	3:51:53 PM	203.9	24.2
6/7/2019	3:51:54 PM	202.5	22.8
6/7/2019	3:51:55 PM	201.4	21.7
6/7/2019	3:51:56 PM	200.6	20.9
6/7/2019	3:51:57 PM	200.1	20.4
6/7/2019	3:51:58 PM	199.7	20.0
6/7/2019	3:51:59 PM	199.3	19.6
6/7/2019	3:52:00 PM	198.8	19.1
6/7/2019	3:52:01 PM	198.4	18.7
6/7/2019	3:52:02 PM	197.9	18.2
6/7/2019	3:52:03 PM	197.5	17.8
6/7/2019	3:52:04 PM	197.0	17.3
6/7/2019	3:52:05 PM	196.6	16.9
6/7/2019	3:52:06 PM	196.1	16.4
6/7/2019	3:52:07 PM	195.6	15.9
6/7/2019	3:52:08 PM	195.0	15.3
6/7/2019	3:52:09 PM	194.3	14.6
6/7/2019	3:52:10 PM	193.7	14.0
6/7/2019	3:52:11 PM	193.0	13.3
6/7/2019	3:52:12 PM	192.5	12.8
6/7/2019	3:52:13 PM	192.0	12.3
6/7/2019	3:52:14 PM	191.6	11.9
6/7/2019	3:52:15 PM	191.2	11.5
6/7/2019	3:52:16 PM	190.9	11.2
6/7/2019	3:52:17 PM	190.7	11.0
6/7/2019	3:52:18 PM	190.4	10.7
6/7/2019	3:52:19 PM	190.2	10.5
6/7/2019	3:52:20 PM	190.0	10.3
6/7/2019	3:52:21 PM	189.8	10.1
6/7/2019	3:52:22 PM	189.6	9.9
6/7/2019	3:52:23 PM	189.3	9.6
6/7/2019	3:52:24 PM	189.1	9.4
6/7/2019	3:52:25 PM	188.9	9.2
6/7/2019	3:52:26 PM	188.8	9.1
6/7/2019	3:52:27 PM	188.6	8.9
6/7/2019	3:52:28 PM	188.5	8.8
6/7/2019	3:52:29 PM	188.3	8.6
6/7/2019	3:52:30 PM	188.2	8.5
6/7/2019	3:52:31 PM	188.1	8.4
6/7/2019	3:52:32 PM	188.0	8.3
6/7/2019	3:52:33 PM	187.9	8.2
6/7/2019	3:52:34 PM	187.9	8.2
6/7/2019	3:52:35 PM	187.9	8.2
6/7/2019	3:52:36 PM	188.0	8.3
6/7/2019	3:52:37 PM	188.0	8.3
6/7/2019	3:52:38 PM	188.0	8.3
6/7/2019	3:52:39 PM	188.0	8.3
6/7/2019	3:52:40 PM	188.0	8.3
6/7/2019	3:52:41 PM	188.0	8.3
6/7/2019	3:52:42 PM	188.0	8.3
6/7/2019	3:52:43 PM	188.0	8.3
6/7/2019	3:52:44 PM	188.1	8.4

Table E2 SEEP-D1 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-D1 TEST-3	1520	182.9	19.6
SEEP-D1 TEST-3	1521	184.1	19.4
SEEP-D1 TEST-3	1522	185.2	19.1
SEEP-D1 TEST-3	1524	185.2	19.4
Average		184.4	(µS/cms)
Geometric Mean		184.3	(µS/cms)
Average (pre-test)		179.7	(µS/cms)
Average (post-test)		189.2	(µS/cms)

Table E3 SEEP-D1 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-D1 TEST-3	100	1,130	27.1
SEEP-D1 TEST-3	1,000	2,147	27.2
SEEP-D1 TEST-3	10,000	17,118	27.1
SEEP-D1 TEST-3	100,000	135,213	27

Table E4 SEEP-D1 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,200	mg
Slope of Calibration Curve	K	1.3558	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	142,794.7	(s) . (µS/cms)
Calculated Flow Rate	Q	2.9	L/s
		45.2	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E60: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:57:21 PM	184.5	-
6/7/2019	3:57:22 PM	184.5	-
6/7/2019	3:57:23 PM	184.5	-
6/7/2019	3:57:24 PM	184.5	-
6/7/2019	3:57:25 PM	184.5	-
6/7/2019	3:57:26 PM	184.5	-
6/7/2019	3:57:27 PM	184.5	-
6/7/2019	3:57:28 PM	184.5	-
6/7/2019	3:57:29 PM	184.5	-
6/7/2019	3:57:30 PM	184.5	-
6/7/2019	3:57:31 PM	184.5	-
6/7/2019	3:57:32 PM	184.5	-
6/7/2019	3:57:33 PM	184.6	-
6/7/2019	3:57:34 PM	184.6	-
6/7/2019	3:57:35 PM	184.7	-
6/7/2019	3:57:36 PM	184.8	-
6/7/2019	3:57:37 PM	184.8	-
6/7/2019	3:57:38 PM	185.0	-
6/7/2019	3:57:39 PM	185.2	-
6/7/2019	3:57:40 PM	185.3	-
6/7/2019	3:57:41 PM	185.5	-
6/7/2019	3:57:42 PM	185.7	-
6/7/2019	3:57:43 PM	185.8	-
6/7/2019	3:57:44 PM	186.0	-
6/7/2019	3:57:45 PM	186.1	-
6/7/2019	3:57:46 PM	186.2	-
6/7/2019	3:57:47 PM	186.3	-
6/7/2019	3:57:48 PM	186.6	-
6/7/2019	3:57:49 PM	187.7	-
6/7/2019	3:57:50 PM	428.0	242.9
6/7/2019	3:57:51 PM	709.3	524.2
6/7/2019	3:57:52 PM	2066.6	1881.5
6/7/2019	3:57:53 PM	3110.7	2925.6
6/7/2019	3:57:54 PM	4608.4	4423.3
6/7/2019	3:57:55 PM	6135.0	5949.9
6/7/2019	3:57:56 PM	6688.8	6503.7
6/7/2019	3:57:57 PM	6997.8	6812.7
6/7/2019	3:57:58 PM	7162.1	6977.0
6/7/2019	3:57:59 PM	7230.5	7045.4
6/7/2019	3:58:00 PM	7192.8	7007.7
6/7/2019	3:58:01 PM	6467.4	6282.3
6/7/2019	3:58:02 PM	6039.1	5854.0
6/7/2019	3:58:03 PM	5437.9	5252.8
6/7/2019	3:58:04 PM	5177.2	4992.1
6/7/2019	3:58:05 PM	4407.9	4222.8
6/7/2019	3:58:06 PM	4082.7	3897.6
6/7/2019	3:58:07 PM	3578.9	3393.8
6/7/2019	3:58:08 PM	3408.5	3223.4
6/7/2019	3:58:09 PM	3091.1	2906.0
6/7/2019	3:58:10 PM	2801.1	2616.0
6/7/2019	3:58:11 PM	2532.3	2347.2
6/7/2019	3:58:12 PM	2423.7	2238.6
6/7/2019	3:58:13 PM	2117.1	1932.0
6/7/2019	3:58:14 PM	2010.5	1825.4
6/7/2019	3:58:15 PM	1825.6	1640.5
6/7/2019	3:58:16 PM	1781.8	1596.7
6/7/2019	3:58:17 PM	1609.2	1424.1
6/7/2019	3:58:18 PM	1434.9	1249.8
6/7/2019	3:58:19 PM	1332.9	1147.8
6/7/2019	3:58:20 PM	1269.0	1083.9
6/7/2019	3:58:21 PM	1170.1	985.0
6/7/2019	3:58:22 PM	1099.0	913.9
6/7/2019	3:58:23 PM	1068.1	883.0
6/7/2019	3:58:24 PM	1005.6	820.5
6/7/2019	3:58:25 PM	911.1	726.0
6/7/2019	3:58:26 PM	903.4	718.3
6/7/2019	3:58:27 PM	821.0	635.9
6/7/2019	3:58:28 PM	774.3	589.2
6/7/2019	3:58:29 PM	711.6	526.5
6/7/2019	3:58:30 PM	716.7	531.6

APPENDIX E60: SALT DILUTION GAUGING SUMMARY
SEEP-D1 TEST-4 JUNE
Chemours Fayettevile Works, North Carolina

Table E1 SEEP-D1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:58:31 PM	655.3	470.2
6/7/2019	3:58:32 PM	647.7	462.6
6/7/2019	3:58:33 PM	634.8	449.7
6/7/2019	3:58:34 PM	626.1	441.0
6/7/2019	3:58:35 PM	517.2	332.1
6/7/2019	3:58:36 PM	546.4	361.3
6/7/2019	3:58:37 PM	534.1	349.0
6/7/2019	3:58:38 PM	527.5	342.4
6/7/2019	3:58:39 PM	519.8	334.7
6/7/2019	3:58:40 PM	508.7	323.6
6/7/2019	3:58:41 PM	495.4	310.3
6/7/2019	3:58:42 PM	485.3	300.2
6/7/2019	3:58:43 PM	434.2	249.1
6/7/2019	3:58:44 PM	427.6	242.5
6/7/2019	3:58:45 PM	409.9	224.8
6/7/2019	3:58:46 PM	397.3	212.2
6/7/2019	3:58:47 PM	388.3	203.2
6/7/2019	3:58:48 PM	380.8	195.7
6/7/2019	3:58:49 PM	378.1	193.0
6/7/2019	3:58:50 PM	375.2	190.1
6/7/2019	3:58:51 PM	372.1	187.0
6/7/2019	3:58:52 PM	368.3	183.2
6/7/2019	3:58:53 PM	364.4	179.3
6/7/2019	3:58:54 PM	359.9	174.8
6/7/2019	3:58:55 PM	356.7	171.6
6/7/2019	3:58:56 PM	353.0	167.9
6/7/2019	3:58:57 PM	349.9	164.8
6/7/2019	3:58:58 PM	346.2	161.1
6/7/2019	3:58:59 PM	343.1	158.0
6/7/2019	3:59:00 PM	336.7	151.6
6/7/2019	3:59:01 PM	330.7	145.6
6/7/2019	3:59:02 PM	323.7	138.6
6/7/2019	3:59:03 PM	317.7	132.6
6/7/2019	3:59:04 PM	311.2	126.1
6/7/2019	3:59:05 PM	305.9	120.8
6/7/2019	3:59:06 PM	300.8	115.7
6/7/2019	3:59:07 PM	296.5	111.4
6/7/2019	3:59:08 PM	291.6	106.5
6/7/2019	3:59:09 PM	287.7	102.6
6/7/2019	3:59:10 PM	283.4	98.3
6/7/2019	3:59:11 PM	280.2	95.1
6/7/2019	3:59:12 PM	276.6	91.5
6/7/2019	3:59:13 PM	273.7	88.6
6/7/2019	3:59:14 PM	270.7	85.6
6/7/2019	3:59:15 PM	268.4	83.3
6/7/2019	3:59:16 PM	266.1	81.0
6/7/2019	3:59:17 PM	264.2	79.1
6/7/2019	3:59:18 PM	262.3	77.2
6/7/2019	3:59:19 PM	260.6	75.5
6/7/2019	3:59:20 PM	258.7	73.6
6/7/2019	3:59:21 PM	257.1	72.0
6/7/2019	3:59:22 PM	255.3	70.2
6/7/2019	3:59:23 PM	253.9	68.8
6/7/2019	3:59:24 PM	252.1	67.0
6/7/2019	3:59:25 PM	250.4	65.3
6/7/2019	3:59:26 PM	248.9	63.8
6/7/2019	3:59:27 PM	247.2	62.1
6/7/2019	3:59:28 PM	245.7	60.6
6/7/2019	3:59:29 PM	243.8	58.7
6/7/2019	3:59:30 PM	242.1	57.0
6/7/2019	3:59:31 PM	240.2	55.1
6/7/2019	3:59:32 PM	238.7	53.6
6/7/2019	3:59:33 PM	236.9	51.8
6/7/2019	3:59:34 PM	235.5	50.4
6/7/2019	3:59:35 PM	233.9	48.8
6/7/2019	3:59:36 PM	232.5	47.4
6/7/2019	3:59:37 PM	231.0	45.9
6/7/2019	3:59:38 PM	229.8	44.7
6/7/2019	3:59:39 PM	228.4	43.3
6/7/2019	3:59:40 PM	227.3	42.2
6/7/2019	3:59:41 PM	226.3	41.2
6/7/2019	3:59:42 PM	225.4	40.3
6/7/2019	3:59:43 PM	224.3	39.2
6/7/2019	3:59:44 PM	223.4	38.3
6/7/2019	3:59:45 PM	222.3	37.2
6/7/2019	3:59:46 PM	221.4	36.3
6/7/2019	3:59:47 PM	220.4	35.3

Table E1 SEEP-D1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	3:59:48 PM	219.5	34.4
6/7/2019	3:59:49 PM	218.5	33.4
6/7/2019	3:59:50 PM	217.7	32.6
6/7/2019	3:59:51 PM	216.8	31.7
6/7/2019	3:59:52 PM	216.1	31.0
6/7/2019	3:59:53 PM	215.2	30.1
6/7/2019	3:59:54 PM	214.5	29.4
6/7/2019	3:59:55 PM	213.7	28.6
6/7/2019	3:59:56 PM	213.1	28.0
6/7/2019	3:59:57 PM	212.5	27.4
6/7/2019	3:59:58 PM	211.9	26.8
6/7/2019	3:59:59 PM	211.4	26.3
6/7/2019	4:00:00 PM	210.9	25.8
6/7/2019	4:00:01 PM	210.5	25.4
6/7/2019	4:00:02 PM	210.1	25.0
6/7/2019	4:00:03 PM	209.6	24.5
6/7/2019	4:00:04 PM	209.3	24.2
6/7/2019	4:00:05 PM	208.9	23.8
6/7/2019	4:00:06 PM	208.5	23.4
6/7/2019	4:00:07 PM	208.1	23.0
6/7/2019	4:00:08 PM	207.7	22.6
6/7/2019	4:00:09 PM	207.3	22.2
6/7/2019	4:00:10 PM	206.9	21.8
6/7/2019	4:00:11 PM	206.5	21.4
6/7/2019	4:00:12 PM	206.0	20.9
6/7/2019	4:00:13 PM	205.6	20.5
6/7/2019	4:00:14 PM	205.1	20.0
6/7/2019	4:00:15 PM	204.7	19.6
6/7/2019	4:00:16 PM	204.3	19.2
6/7/2019	4:00:17 PM	203.9	18.8
6/7/2019	4:00:18 PM	203.5	18.4
6/7/2019	4:00:19 PM	203.2	18.1
6/7/2019	4:00:20 PM	202.9	17.8
6/7/2019	4:00:21 PM	202.7	17.6
6/7/2019	4:00:22 PM	202.5	17.4
6/7/2019	4:00:23 PM	202.3	17.2
6/7/2019	4:00:24 PM	202.1	17.0
6/7/2019	4:00:25 PM	201.9	16.8
6/7/2019	4:00:26 PM	201.8	16.7
6/7/2019	4:00:27 PM	201.6	16.5
6/7/2019	4:00:28 PM	201.6	16.5
6/7/2019	4:00:29 PM	201.5	16.4
6/7/2019	4:00:30 PM	201.4	16.3
6/7/2019	4:00:31 PM	201.3	16.2
6/7/2019	4:00:32 PM	201.3	16.2
6/7/2019	4:00:33 PM	201.2	16.1
6/7/2019	4:00:34 PM	201.1	16.0
6/7/2019	4:00:35 PM	201.0	15.9
6/7/2019	4:00:36 PM	200.9	15.8
6/7/2019	4:00:37 PM	200.9	15.8
6/7/2019	4:00:38 PM	200.8	15.7
6/7/2019	4:00:39 PM	200.7	15.6
6/7/2019	4:00:40 PM	200.6	15.5
6/7/2019	4:00:41 PM	200.5	15.4
6/7/2019	4:00:42 PM	200.3	15.2
6/7/2019	4:00:43 PM	200.1	15.0
6/7/2019	4:00:44 PM	199.9	14.8
6/7/2019	4:00:45 PM	199.8	14.7
6/7/2019	4:00:46 PM	199.6	14.5
6/7/2019	4:00:47 PM	199.4	14.3
6/7/2019	4:00:48 PM	199.3	14.2
6/7/2019	4:00:49 PM	199.1	14.0
6/7/2019	4:00:50 PM	199.0	13.9
6/7/2019	4:00:51 PM	198.8	13.7
6/7/2019	4:00:52 PM	198.6	13.5
6/7/2019	4:00:53 PM	198.5	13.4
6/7/2019	4:00:54 PM	198.3	13.2
6/7/2019	4:00:55 PM	198.2	13.1
6/7/2019	4:00:56 PM	198.0	12.9
6/7/2019	4:00:57 PM	197.9	12.8
6/7/2019	4:00:58 PM	197.8	12.7
6/7/2019	4:00:59 PM	197.6	12.5
6/7/2019	4:01:00 PM	197.5	12.4
6/7/2019	4:01:01 PM	197.3	12.2
6/7/2019	4:01:02 PM	197.2	12.1
6/7/2019	4:01:03 PM	197.1	12.0
6/7/2019	4:01:04 PM	197.0	11.9
6/7/2019	4:01:05 PM	197.0	11.9
6/7/2019	4:01:06 PM	197.0	11.9

Table E1 SEEP-D1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:01:07 PM	197.0	11.9
6/7/2019	4:01:08 PM	197.0	11.9
6/7/2019	4:01:09 PM	197.0	11.9
6/7/2019	4:01:10 PM	197.1	12.0
6/7/2019	4:01:11 PM	197.3	12.2
6/7/2019	4:01:12 PM	197.4	12.3
6/7/2019	4:01:13 PM	197.6	12.5
6/7/2019	4:01:14 PM	197.7	12.6
6/7/2019	4:01:15 PM	197.9	12.8
6/7/2019	4:01:16 PM	198.0	12.9
6/7/2019	4:01:17 PM	198.1	13.0
6/7/2019	4:01:18 PM	198.2	13.1
6/7/2019	4:01:19 PM	198.3	13.2
6/7/2019	4:01:20 PM	198.3	13.2
6/7/2019	4:01:21 PM	198.3	13.2
6/7/2019	4:01:22 PM	198.2	13.1
6/7/2019	4:01:23 PM	198.1	13.0
6/7/2019	4:01:24 PM	198.0	12.9
6/7/2019	4:01:25 PM	197.8	12.7
6/7/2019	4:01:26 PM	197.6	12.5
6/7/2019	4:01:27 PM	197.4	12.3
6/7/2019	4:01:28 PM	197.2	12.1
6/7/2019	4:01:29 PM	196.9	11.8
6/7/2019	4:01:30 PM	196.7	11.6
6/7/2019	4:01:31 PM	196.5	11.4
6/7/2019	4:01:32 PM	196.3	11.2
6/7/2019	4:01:33 PM	196.0	10.9
6/7/2019	4:01:34 PM	195.9	10.8
6/7/2019	4:01:35 PM	195.6	10.5
6/7/2019	4:01:36 PM	195.4	10.3
6/7/2019	4:01:37 PM	195.3	10.2
6/7/2019	4:01:38 PM	195.1	10.0
6/7/2019	4:01:39 PM	194.9	9.8
6/7/2019	4:01:40 PM	194.7	9.6
6/7/2019	4:01:41 PM	194.6	9.5
6/7/2019	4:01:42 PM	194.4	9.3
6/7/2019	4:01:43 PM	194.3	9.2
6/7/2019	4:01:44 PM	194.1	9.0
6/7/2019	4:01:45 PM	194.0	8.9
6/7/2019	4:01:46 PM	193.9	8.8
6/7/2019	4:01:47 PM	193.7	8.6
6/7/2019	4:01:48 PM	193.6	8.5
6/7/2019	4:01:49 PM	193.5	8.4
6/7/2019	4:01:50 PM	193.4	8.3
6/7/2019	4:01:51 PM	193.3	8.2
6/7/2019	4:01:52 PM	193.2	8.1
6/7/2019	4:01:53 PM	193.0	7.9
6/7/2019	4:01:54 PM	192.9	7.8
6/7/2019	4:01:55 PM	192.8	7.7
6/7/2019	4:01:56 PM	192.7	7.6
6/7/2019	4:01:57 PM	192.6	7.5
6/7/2019	4:01:58 PM	192.5	7.4
6/7/2019	4:01:59 PM	192.4	7.3
6/7/2019	4:02:00 PM	192.3	7.2
6/7/2019	4:02:01 PM	192.3	7.2
6/7/2019	4:02:02 PM	192.2	7.1
6/7/2019	4:02:03 PM	192.1	7.0
6/7/2019	4:02:04 PM	192.0	6.9
6/7/2019	4:02:05 PM	191.9	6.8
6/7/2019	4:02:06 PM	191.8	6.7
6/7/2019	4:02:07 PM	191.7	6.6
6/7/2019	4:02:08 PM	191.6	6.5
6/7/2019	4:02:09 PM	191.5	6.4
6/7/2019	4:02:10 PM	191.3	6.2
6/7/2019	4:02:11 PM	191.2	6.1
6/7/2019	4:02:12 PM	191.1	6.0
6/7/2019	4:02:13 PM	191.0	5.9
6/7/2019	4:02:14 PM	190.9	5.8
6/7/2019	4:02:15 PM	190.8	5.7
6/7/2019	4:02:16 PM	190.7	5.6
6/7/2019	4:02:17 PM	190.6	5.5
6/7/2019	4:02:18 PM	190.5	5.4
6/7/2019	4:02:19 PM	190.4	5.3
6/7/2019	4:02:20 PM	190.3	5.2
6/7/2019	4:02:21 PM	190.3	5.2
6/7/2019	4:02:22 PM	190.2	5.1
6/7/2019	4:02:23 PM	190.2	5.1
6/7/2019	4:02:24 PM	190.1	5.0
6/7/2019	4:02:25 PM	190.1	5.0

Table E1 SEEP-D1 TEST-4 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
6/7/2019	4:02:26 PM	190.0	4.9
6/7/2019	4:02:27 PM	189.9	4.8
6/7/2019	4:02:28 PM	189.9	4.8
6/7/2019	4:02:29 PM	189.8	4.7
6/7/2019	4:02:30 PM	189.8	4.7
6/7/2019	4:02:31 PM	189.8	4.7
6/7/2019	4:02:32 PM	189.7	4.6
6/7/2019	4:02:33 PM	189.7	4.6
6/7/2019	4:02:34 PM	189.6	4.5
6/7/2019	4:02:35 PM	189.6	4.5
6/7/2019	4:02:36 PM	189.6	4.5
6/7/2019	4:02:37 PM	189.6	4.5
6/7/2019	4:02:38 PM	189.5	4.4
6/7/2019	4:02:39 PM	189.5	4.4
6/7/2019	4:02:40 PM	189.5	4.4
6/7/2019	4:02:41 PM	189.4	4.3
6/7/2019	4:02:42 PM	189.4	4.3
6/7/2019	4:02:43 PM	189.3	4.2
6/7/2019	4:02:44 PM	189.3	4.2
6/7/2019	4:02:45 PM	189.3	4.2
6/7/2019	4:02:46 PM	189.2	4.1
6/7/2019	4:02:47 PM	189.2	4.1
6/7/2019	4:02:48 PM	189.1	4.0
6/7/2019	4:02:49 PM	189.1	4.0
6/7/2019	4:02:50 PM	189.1	4.0
6/7/2019	4:02:51 PM	189.1	4.0
6/7/2019	4:02:52 PM	189.1	4.0
6/7/2019	4:02:53 PM	189.1	4.0
6/7/2019	4:02:54 PM	189.1	4.0
6/7/2019	4:02:55 PM	189.1	4.0

Table E2 SEEP-D1 TEST-4 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
SEEP-D1 TEST-4	1520	182.9	19.6
SEEP-D1 TEST-4	1521	184.1	19.4
SEEP-D1 TEST-4	1522	185.2	19.1
SEEP-D1 TEST-4	1524	185.2	19.4
Average		184.4	(µS/cms)
Geometric Mean		184.3	(µS/cms)
Average (pre-test)		185.1	(µS/cms)
Average (post-test)		190.7	(µS/cms)

Table E3 SEEP-D1 TEST-4 YSI Salt Dilution Calibration Data

Location	Calibration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
SEEP-D1 TEST-4	100	1,130	27.1
SEEP-D1 TEST-4	1,000	2,147	27.2
SEEP-D1 TEST-4	10,000	17,118	27.1
SEEP-D1 TEST-4	100,000	135,213	27.0

Table E4 SEEP-D1 TEST-4 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,900	mg
Slope of Calibration Curve	K	1.3558	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	130,394.1	(s) . (µS/cms)
Calculated Flow Rate	Q	3.1	L/s
		49.7	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E61: SALT DILUTION GAUGING SUMMARY
WC-1 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 WC-1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	10:10:03 AM	90.9	-
2/7/2019	10:10:04 AM	90.9	-
2/7/2019	10:10:05 AM	90.9	-
2/7/2019	10:10:06 AM	90.9	-
2/7/2019	10:10:07 AM	90.9	-
2/7/2019	10:10:08 AM	90.9	-
2/7/2019	10:10:09 AM	90.8	-
2/7/2019	10:10:10 AM	90.8	-
2/7/2019	10:10:11 AM	90.8	-
2/7/2019	10:10:12 AM	90.9	-
2/7/2019	10:10:13 AM	91.0	-
2/7/2019	10:10:14 AM	91.0	-
2/7/2019	10:10:15 AM	91.0	-
2/7/2019	10:10:16 AM	91.0	-
2/7/2019	10:10:17 AM	91.0	-
2/7/2019	10:10:18 AM	91.0	-
2/7/2019	10:10:19 AM	91.0	-
2/7/2019	10:10:20 AM	91.0	-
2/7/2019	10:10:21 AM	91.0	-
2/7/2019	10:10:22 AM	91.0	-
2/7/2019	10:10:23 AM	91.0	-
2/7/2019	10:10:24 AM	91.0	-
2/7/2019	10:10:25 AM	91.0	-
2/7/2019	10:10:26 AM	90.9	-
2/7/2019	10:10:27 AM	90.8	-
2/7/2019	10:10:28 AM	90.8	-
2/7/2019	10:10:29 AM	90.8	-
2/7/2019	10:10:30 AM	90.8	-
2/7/2019	10:10:31 AM	90.8	-
2/7/2019	10:10:32 AM	90.9	-
2/7/2019	10:10:33 AM	90.9	-
2/7/2019	10:10:34 AM	90.9	-
2/7/2019	10:10:35 AM	90.9	-
2/7/2019	10:10:36 AM	90.9	-
2/7/2019	10:10:37 AM	90.8	-
2/7/2019	10:10:38 AM	90.8	-
2/7/2019	10:10:39 AM	90.9	-
2/7/2019	10:10:40 AM	90.9	-
2/7/2019	10:10:41 AM	91.0	0.1
2/7/2019	10:10:42 AM	91.1	0.2
2/7/2019	10:10:43 AM	91.2	0.3
2/7/2019	10:10:44 AM	91.5	0.6
2/7/2019	10:10:45 AM	92.3	1.4
2/7/2019	10:10:46 AM	93.8	2.9
2/7/2019	10:10:47 AM	96.6	5.7
2/7/2019	10:10:48 AM	99.3	8.4
2/7/2019	10:10:49 AM	152.4	61.5
2/7/2019	10:10:50 AM	153.8	62.9
2/7/2019	10:10:51 AM	158.9	68.0
2/7/2019	10:10:52 AM	159.9	69.0
2/7/2019	10:10:53 AM	161.1	70.2
2/7/2019	10:10:54 AM	162.0	71.1
2/7/2019	10:10:55 AM	162.6	71.7
2/7/2019	10:10:56 AM	162.8	71.9
2/7/2019	10:10:57 AM	162.8	71.9
2/7/2019	10:10:58 AM	162.5	71.6
2/7/2019	10:10:59 AM	162.2	71.3
2/7/2019	10:11:00 AM	162.0	71.1
2/7/2019	10:11:01 AM	161.7	70.8
2/7/2019	10:11:02 AM	161.5	70.6
2/7/2019	10:11:03 AM	161.1	70.2
2/7/2019	10:11:04 AM	160.7	69.8
2/7/2019	10:11:05 AM	159.8	68.9
2/7/2019	10:11:06 AM	158.9	68.0
2/7/2019	10:11:07 AM	157.5	66.6
2/7/2019	10:11:08 AM	156.0	65.1
2/7/2019	10:11:09 AM	154.8	63.9
2/7/2019	10:11:10 AM	153.3	62.4
2/7/2019	10:11:11 AM	151.3	60.4
2/7/2019	10:11:12 AM	148.8	57.9

APPENDIX E61: SALT DILUTION GAUGING SUMMARY
WC-1 TEST-2 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 WC-1 TEST-2 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	10:11:13 AM	146.3	55.4
2/7/2019	10:11:14 AM	143.9	53.0
2/7/2019	10:11:15 AM	141.6	50.7
2/7/2019	10:11:16 AM	138.6	47.7
2/7/2019	10:11:17 AM	135.3	44.4
2/7/2019	10:11:18 AM	131.9	41.0
2/7/2019	10:11:19 AM	129.1	38.2
2/7/2019	10:11:20 AM	126.6	35.7
2/7/2019	10:11:21 AM	123.8	32.9
2/7/2019	10:11:22 AM	121.8	30.9
2/7/2019	10:11:23 AM	119.5	28.6
2/7/2019	10:11:24 AM	116.9	**26.0**
2/7/2019	10:11:25 AM	114.2	**23.3**
2/7/2019	10:11:26 AM	112.2	21.3
2/7/2019	10:11:27 AM	110.4	19.5
2/7/2019	10:11:28 AM	109.3	18.4
2/7/2019	10:11:29 AM	108.2	17.3
2/7/2019	10:11:30 AM	106.8	15.9
2/7/2019	10:11:31 AM	105.2	14.3
2/7/2019	10:11:32 AM	103.9	13.0
2/7/2019	10:11:33 AM	102.9	12.0
2/7/2019	10:11:34 AM	101.8	10.9
2/7/2019	10:11:35 AM	101.1	10.2
2/7/2019	10:11:36 AM	100.1	9.2
2/7/2019	10:11:37 AM	99.1	8.2
2/7/2019	10:11:38 AM	98.5	7.6
2/7/2019	10:11:39 AM	98.0	7.1
2/7/2019	10:11:40 AM	97.4	6.5
2/7/2019	10:11:41 AM	97.0	6.1
2/7/2019	10:11:42 AM	96.5	5.6
2/7/2019	10:11:43 AM	96.1	5.2
2/7/2019	10:11:44 AM	95.6	4.7
2/7/2019	10:11:45 AM	95.4	4.5
2/7/2019	10:11:46 AM	95.0	4.1
2/7/2019	10:11:47 AM	94.8	3.9
2/7/2019	10:11:48 AM	94.4	**3.5**
2/7/2019	10:11:49 AM	94.2	**3.3**
2/7/2019	10:11:50 AM	93.8	2.9
2/7/2019	10:11:51 AM	93.5	2.6
2/7/2019	10:11:52 AM	93.2	2.3
2/7/2019	10:11:53 AM	93.1	2.2
2/7/2019	10:11:54 AM	92.9	2.0
2/7/2019	10:11:55 AM	92.7	1.8
2/7/2019	10:11:56 AM	92.5	1.6
2/7/2019	10:11:57 AM	92.4	1.5
2/7/2019	10:11:58 AM	92.3	1.4
2/7/2019	10:11:59 AM	92.2	1.3
2/7/2019	10:12:00 AM	92.0	1.1
2/7/2019	10:12:01 AM	91.9	1.0
2/7/2019	10:12:02 AM	91.8	0.9
2/7/2019	10:12:03 AM	91.8	0.9
2/7/2019	10:12:04 AM	91.8	0.9
2/7/2019	10:12:05 AM	91.8	0.9
2/7/2019	10:12:06 AM	91.8	0.9
2/7/2019	10:12:07 AM	91.8	0.9
2/7/2019	10:12:08 AM	91.8	0.9
2/7/2019	10:12:09 AM	91.8	0.9
2/7/2019	10:12:10 AM	91.8	0.9
2/7/2019	10:12:11 AM	91.8	0.9
2/7/2019	10:12:12 AM	91.8	0.9
2/7/2019	10:12:13 AM	91.8	0.9
2/7/2019	10:12:14 AM	91.7	0.8
2/7/2019	10:12:15 AM	91.7	0.8
2/7/2019	10:12:16 AM	91.7	0.8
2/7/2019	10:12:17 AM	91.7	0.8
2/7/2019	10:12:18 AM	91.7	0.8
2/7/2019	10:12:19 AM	91.6	0.7
2/7/2019	10:12:20 AM	91.6	0.7
2/7/2019	10:12:21 AM	91.6	0.7
2/7/2019	10:12:22 AM	91.5	0.6
2/7/2019	10:12:23 AM	91.5	0.6
2/7/2019	10:12:24 AM	91.5	0.6
2/7/2019	10:12:25 AM	91.5	0.6
2/7/2019	10:12:26 AM	91.5	0.6
2/7/2019	10:12:27 AM	91.5	0.6
2/7/2019	10:12:28 AM	91.5	0.6
2/7/2019	10:12:29 AM	91.5	0.6
2/7/2019	10:12:30 AM	91.5	0.6

Table E2 WC-1 TEST-2 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
WC-1 TEST-2	921	89.9	13.8
WC-1 TEST-2	923	90.2	13.6
WC-1 TEST-2	925	59.9	13.6
WC-1 TEST-2	929	59.9	13.6
Average		75.0	(µS/cms)
Geometric Mean		73.4	(µS/cms)
Average (pre-test)		90.6	(µS/cms)
Average (post-test)		90.5	(µS/cms)

Table E3 WC-1 TEST-2 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
WC-1 TEST-2	10	145.8	20.3
WC-1 TEST-2	100	196	20.9
WC-1 TEST-2	1,000	1,554	20.9
WC-1 TEST-2	10,000	12,382	21.1
WC-1 TEST-2	100,000	99,950	21

Table E4 WC-1 TEST-2 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	449,500	mg
Slope of Calibration Curve	K	1.0019	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	2,429.6	(s) . (µS/cms)
Calculated Flow Rate	Q	185.4	L/s
		2,942.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E62: SALT DILUTION GAUGING SUMMARY
WC-1 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 WC-1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	10:21:34 AM	90.7	-
2/7/2019	10:21:35 AM	90.7	-
2/7/2019	10:21:36 AM	90.7	-
2/7/2019	10:21:37 AM	90.7	-
2/7/2019	10:21:38 AM	90.7	-
2/7/2019	10:21:39 AM	90.7	-
2/7/2019	10:21:40 AM	90.7	-
2/7/2019	10:21:41 AM	90.7	-
2/7/2019	10:21:42 AM	90.7	-
2/7/2019	10:21:43 AM	90.7	-
2/7/2019	10:21:44 AM	90.7	-
2/7/2019	10:21:45 AM	90.7	-
2/7/2019	10:21:46 AM	90.7	-
2/7/2019	10:21:47 AM	90.7	-
2/7/2019	10:21:48 AM	90.6	-
2/7/2019	10:21:49 AM	90.6	-
2/7/2019	10:21:50 AM	90.6	-
2/7/2019	10:21:51 AM	90.6	-
2/7/2019	10:21:52 AM	90.6	-
2/7/2019	10:21:53 AM	90.6	-
2/7/2019	10:21:54 AM	90.6	-
2/7/2019	10:21:55 AM	90.6	-
2/7/2019	10:21:56 AM	90.6	-
2/7/2019	10:21:57 AM	90.6	-
2/7/2019	10:21:58 AM	90.6	-
2/7/2019	10:21:59 AM	90.6	-
2/7/2019	10:22:00 AM	90.6	-
2/7/2019	10:22:01 AM	90.6	-
2/7/2019	10:22:02 AM	90.5	-
2/7/2019	10:22:03 AM	90.5	-
2/7/2019	10:22:04 AM	90.5	-
2/7/2019	10:22:05 AM	90.5	-
2/7/2019	10:22:06 AM	90.5	-
2/7/2019	10:22:07 AM	90.5	-
2/7/2019	10:22:08 AM	90.5	-
2/7/2019	10:22:09 AM	90.5	-
2/7/2019	10:22:10 AM	90.5	-
2/7/2019	10:22:11 AM	90.6	-
2/7/2019	10:22:12 AM	90.6	-
2/7/2019	10:22:13 AM	90.8	-
2/7/2019	10:22:14 AM	91.1	0.5
2/7/2019	10:22:15 AM	91.6	1.0
2/7/2019	10:22:16 AM	93.3	2.7
2/7/2019	10:22:17 AM	95.9	5.3
2/7/2019	10:22:18 AM	99.1	8.5
2/7/2019	10:22:19 AM	102.3	11.7
2/7/2019	10:22:20 AM	106.1	15.5
2/7/2019	10:22:21 AM	109.9	19.3
2/7/2019	10:22:22 AM	158.8	68.2
2/7/2019	10:22:23 AM	161.8	71.2
2/7/2019	10:22:24 AM	175.2	84.6
2/7/2019	10:22:25 AM	178.0	87.4
2/7/2019	10:22:26 AM	180.2	89.6
2/7/2019	10:22:27 AM	181.1	90.5
2/7/2019	10:22:28 AM	181.9	91.3
2/7/2019	10:22:29 AM	182.7	92.1
2/7/2019	10:22:30 AM	184.0	93.4
2/7/2019	10:22:31 AM	185.2	94.6
2/7/2019	10:22:32 AM	186.1	95.5
2/7/2019	10:22:33 AM	186.1	95.5
2/7/2019	10:22:34 AM	185.0	94.4
2/7/2019	10:22:35 AM	183.9	93.3
2/7/2019	10:22:36 AM	182.8	92.2
2/7/2019	10:22:37 AM	181.9	91.3
2/7/2019	10:22:38 AM	181.2	90.6
2/7/2019	10:22:39 AM	180.4	89.8
2/7/2019	10:22:40 AM	179.2	88.6
2/7/2019	10:22:41 AM	178.0	87.4
2/7/2019	10:22:42 AM	176.5	85.9
2/7/2019	10:22:43 AM	174.8	84.2

APPENDIX E62: SALT DILUTION GAUGING SUMMARY
WC-1 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 WC-1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	10:22:44 AM	172.1	81.5
2/7/2019	10:22:45 AM	168.3	77.7
2/7/2019	10:22:46 AM	165.1	74.5
2/7/2019	10:22:47 AM	162.2	71.6
2/7/2019	10:22:48 AM	159.9	69.3
2/7/2019	10:22:49 AM	157.1	66.5
2/7/2019	10:22:50 AM	154.6	64.0
2/7/2019	10:22:51 AM	151.3	60.7
2/7/2019	10:22:52 AM	148.8	58.2
2/7/2019	10:22:53 AM	145.9	55.3
2/7/2019	10:22:54 AM	142.7	52.1
2/7/2019	10:22:55 AM	138.7	48.1
2/7/2019	10:22:56 AM	135.3	44.7
2/7/2019	10:22:57 AM	132.0	41.4
2/7/2019	10:22:58 AM	129.6	39.0
2/7/2019	10:22:59 AM	126.9	36.3
2/7/2019	10:23:00 AM	124.2	33.6
2/7/2019	10:23:01 AM	121.1	30.5
2/7/2019	10:23:02 AM	118.4	27.8
2/7/2019	10:23:03 AM	115.5	24.9
2/7/2019	10:23:04 AM	113.1	22.5
2/7/2019	10:23:05 AM	110.3	19.7
2/7/2019	10:23:06 AM	108.0	17.4
2/7/2019	10:23:07 AM	106.1	15.5
2/7/2019	10:23:08 AM	104.7	14.1
2/7/2019	10:23:09 AM	103.1	12.5
2/7/2019	10:23:10 AM	102.0	11.4
2/7/2019	10:23:11 AM	100.9	10.3
2/7/2019	10:23:12 AM	100.1	9.5
2/7/2019	10:23:13 AM	99.3	8.7
2/7/2019	10:23:14 AM	98.7	8.1
2/7/2019	10:23:15 AM	98.2	7.6
2/7/2019	10:23:16 AM	97.7	7.1
2/7/2019	10:23:17 AM	97.2	6.6
2/7/2019	10:23:18 AM	96.7	6.1
2/7/2019	10:23:19 AM	96.2	5.6
2/7/2019	10:23:20 AM	95.8	5.2
2/7/2019	10:23:21 AM	95.3	4.7
2/7/2019	10:23:22 AM	94.8	4.2
2/7/2019	10:23:23 AM	94.3	3.7
2/7/2019	10:23:24 AM	93.8	3.2
2/7/2019	10:23:25 AM	93.4	2.8
2/7/2019	10:23:26 AM	93.2	2.6
2/7/2019	10:23:27 AM	93.0	2.4
2/7/2019	10:23:28 AM	92.8	2.2
2/7/2019	10:23:29 AM	92.5	1.9
2/7/2019	10:23:30 AM	92.3	1.7
2/7/2019	10:23:31 AM	92.2	1.6
2/7/2019	10:23:32 AM	92.0	1.4
2/7/2019	10:23:33 AM	91.9	1.3
2/7/2019	10:23:34 AM	91.8	1.2
2/7/2019	10:23:35 AM	91.6	1.0
2/7/2019	10:23:36 AM	91.6	1.0
2/7/2019	10:23:37 AM	91.5	0.9
2/7/2019	10:23:38 AM	91.4	0.8
2/7/2019	10:23:39 AM	91.4	0.8
2/7/2019	10:23:40 AM	91.3	0.7
2/7/2019	10:23:41 AM	91.2	0.6
2/7/2019	10:23:42 AM	91.2	0.6
2/7/2019	10:23:43 AM	91.1	0.5
2/7/2019	10:23:44 AM	91.0	0.4
2/7/2019	10:23:45 AM	91.0	0.4
2/7/2019	10:23:46 AM	90.9	0.3
2/7/2019	10:23:47 AM	90.9	0.3
2/7/2019	10:23:48 AM	90.9	0.3
2/7/2019	10:23:49 AM	90.9	0.3
2/7/2019	10:23:50 AM	90.9	0.3
2/7/2019	10:23:51 AM	90.9	0.3
2/7/2019	10:23:52 AM	90.9	0.3
2/7/2019	10:23:53 AM	90.9	0.3
2/7/2019	10:23:54 AM	90.9	0.3
2/7/2019	10:23:55 AM	90.9	0.3
2/7/2019	10:23:56 AM	90.9	0.3
2/7/2019	10:23:57 AM	90.9	0.3
2/7/2019	10:23:58 AM	90.9	0.3
2/7/2019	10:23:59 AM	90.9	0.3
2/7/2019	10:24:00 AM	90.8	0.2

APPENDIX E62: SALT DILUTION GAUGING SUMMARY
WC-1 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 WC-1 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	10:24:01 AM	90.8	0.2
2/7/2019	10:24:02 AM	90.8	0.2
2/7/2019	10:24:03 AM	90.8	0.2
2/7/2019	10:24:04 AM	90.8	0.2
2/7/2019	10:24:05 AM	90.7	-
2/7/2019	10:24:06 AM	90.7	-
2/7/2019	10:24:07 AM	90.7	-
2/7/2019	10:24:08 AM	90.6	-
2/7/2019	10:24:09 AM	90.6	-
2/7/2019	10:24:10 AM	90.6	-
2/7/2019	10:24:11 AM	90.6	-
2/7/2019	10:24:12 AM	90.5	-
2/7/2019	10:24:13 AM	90.5	-
2/7/2019	10:24:14 AM	90.5	-
2/7/2019	10:24:15 AM	90.5	-
2/7/2019	10:24:16 AM	90.5	-
2/7/2019	10:24:17 AM	90.5	-
2/7/2019	10:24:18 AM	90.5	-
2/7/2019	10:24:19 AM	90.5	-
2/7/2019	10:24:20 AM	90.5	-
2/7/2019	10:24:21 AM	90.5	-
2/7/2019	10:24:22 AM	90.5	-
2/7/2019	10:24:23 AM	90.5	-
2/7/2019	10:24:24 AM	90.5	-
2/7/2019	10:24:25 AM	90.5	-
2/7/2019	10:24:26 AM	90.5	-
2/7/2019	10:24:27 AM	90.5	-
2/7/2019	10:24:28 AM	90.5	-
2/7/2019	10:24:29 AM	90.5	-
2/7/2019	10:24:30 AM	90.5	-
2/7/2019	10:24:31 AM	90.5	-
2/7/2019	10:24:32 AM	90.5	-
2/7/2019	10:24:33 AM	90.5	-
2/7/2019	10:24:34 AM	90.5	-
2/7/2019	10:24:35 AM	90.5	-
2/7/2019	10:24:36 AM	90.5	-
2/7/2019	10:24:37 AM	90.5	-

Table E2 WC-1 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
WC-1 TEST-3	921	89.9	13.8
WC-1 TEST-3	923	90.2	13.6
WC-1 TEST-3	925	59.9	13.6
WC-1 TEST-3	929	59.9	13.6
Average		75.0	(µS/cms)
Geometric Mean		73.4	(µS/cms)
Average (pre-test)		90.6	(µS/cms)
Average (post-test)		90.5	(µS/cms)

Table E3 WC-1 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
WC-1 TEST-3	10	145.8	20.3
WC-1 TEST-3	100	196	20.9
WC-1 TEST-3	1,000	1,554	20.9
WC-1 TEST-3	10,000	12,382	21.1
WC-1 TEST-3	100,000	99,950	21.0

Table E4 WC-1 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	600,600	mg
Slope of Calibration Curve	K	1.0019	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	3,307.6	(s) . (µS/cms)
Calculated Flow Rate	Q	181.9	L/s
		2,887.8	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

APPENDIX E63: SALT DILUTION GAUGING SUMMARY
WC-5 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E1 WC-5 TEST-3 Data Log

Date	Time	Conductivity (µS/cms)	Δt(ECt-ECbkg)
2/7/2019	2:25:56 PM	82.8	-
2/7/2019	2:25:57 PM	82.7	-
2/7/2019	2:25:58 PM	82.7	-
2/7/2019	2:25:59 PM	82.7	-
2/7/2019	2:26:00 PM	82.6	-
2/7/2019	2:26:01 PM	82.6	-
2/7/2019	2:26:02 PM	82.5	-
2/7/2019	2:26:03 PM	82.5	-
2/7/2019	2:26:04 PM	82.5	-
2/7/2019	2:26:05 PM	82.4	-
2/7/2019	2:26:06 PM	82.4	-
2/7/2019	2:26:07 PM	82.4	-
2/7/2019	2:26:08 PM	82.4	-
2/7/2019	2:26:09 PM	82.4	-
2/7/2019	2:26:10 PM	82.3	-
2/7/2019	2:26:11 PM	82.3	-
2/7/2019	2:26:12 PM	82.3	-
2/7/2019	2:26:13 PM	82.4	-
2/7/2019	2:26:14 PM	143.9	61.4
2/7/2019	2:26:15 PM	296.3	213.8
2/7/2019	2:26:16 PM	323.6	241.1
2/7/2019	2:26:17 PM	342.9	260.4
2/7/2019	2:26:18 PM	342.0	259.5
2/7/2019	2:26:19 PM	269.0	186.5
2/7/2019	2:26:20 PM	252.9	170.4
2/7/2019	2:26:21 PM	196.3	113.8
2/7/2019	2:26:22 PM	167.7	85.2
2/7/2019	2:26:23 PM	150.3	67.8
2/7/2019	2:26:24 PM	141.9	59.4
2/7/2019	2:26:25 PM	135.4	52.9
2/7/2019	2:26:26 PM	129.0	46.5
2/7/2019	2:26:27 PM	122.1	39.6
2/7/2019	2:26:28 PM	117.6	35.1
2/7/2019	2:26:29 PM	113.3	30.8
2/7/2019	2:26:30 PM	110.2	27.7
2/7/2019	2:26:31 PM	107.2	24.7
2/7/2019	2:26:32 PM	105.0	22.5
2/7/2019	2:26:33 PM	102.9	20.4
2/7/2019	2:26:34 PM	101.3	18.8
2/7/2019	2:26:35 PM	98.7	16.2
2/7/2019	2:26:36 PM	94.3	11.8
2/7/2019	2:26:37 PM	90.1	7.6
2/7/2019	2:26:38 PM	87.4	4.9
2/7/2019	2:26:39 PM	85.5	-
2/7/2019	2:26:40 PM	84.6	-
2/7/2019	2:26:41 PM	83.7	-
2/7/2019	2:26:42 PM	83.2	-
2/7/2019	2:26:43 PM	82.9	-
2/7/2019	2:26:44 PM	82.7	-
2/7/2019	2:26:45 PM	82.6	-
2/7/2019	2:26:46 PM	82.5	-
2/7/2019	2:26:47 PM	82.5	-
2/7/2019	2:26:48 PM	82.4	-
2/7/2019	2:26:49 PM	82.3	-
2/7/2019	2:26:50 PM	82.3	-
2/7/2019	2:26:51 PM	82.2	-
2/7/2019	2:26:52 PM	82.2	-
2/7/2019	2:26:53 PM	82.2	-
2/7/2019	2:26:54 PM	82.2	-
2/7/2019	2:26:55 PM	82.2	-

APPENDIX E63: SALT DILUTION GAUGING SUMMARY
WC-5 TEST-3 FEBRUARY
Chemours Fayettevile Works, North Carolina

Table E2 WC-5 TEST-3 Stream Background Conductivity Data

Location	Time	Background Stream EC	Background Stream Temperature
		(µS/cms)	(°C)
WC-5 TEST-3	1346	81.6	16.2
WC-5 TEST-3	1347	81.2	16.2
WC-5 TEST-3	1348	82.0	16.2
WC-5 TEST-3	1349	81.9	16.3
Average		81.7	(µS/cms)
Geometric Mean		81.7	(µS/cms)
Average (pre-test)		82.5	(µS/cms)
Average (post-test)		82.8	(µS/cms)

Table E3 WC-5 TEST-3 YSI Salt Dilution Calibration Data

Location	Calibration Concentration	EC Reading	Temperature
	(mg/L)	(µS/cms)	(°C)
WC-5 TEST-3	10	163.4	23.8
WC-5 TEST-3	100	186	24.2
WC-5 TEST-3	1,000	1,432	24.4
WC-5 TEST-3	10,000	11,787	23.9
WC-5 TEST-3	100,000	94,424	24.3

Table E4 WC-5 TEST-3 Flow Calculation Summary

$$Q = \frac{q}{\frac{\sum_{i=1}^{n}\{(EC_t - EC_{bg}) * \Delta t\}}{K}}$$

Mass of Salt injected	q	300,000	mg
Slope of Calibration Curve	K	0.9466	(µS/cms) / (mg/L)
Integral of Conductivity Data Curve	SUM:Δt(ECt-ECbkg)	2,078.9	(s) . (µS/cms)
Calculated Flow Rate	Q	136.6	L/s
		2,168.3	GPM

Notes:

EC	Electrical conductivity
°C	degrees celsius
mg	miligrams
L	liter
µS/cms	microSiemens per centimeter second
GPM	gallons per minute
s	second
Ect	raw electronic conductivty during test
Ecbkg	background electronic conductivity value
Δt	time interval between conductivity readings (1 second)

Equation for flow calculation derived from:

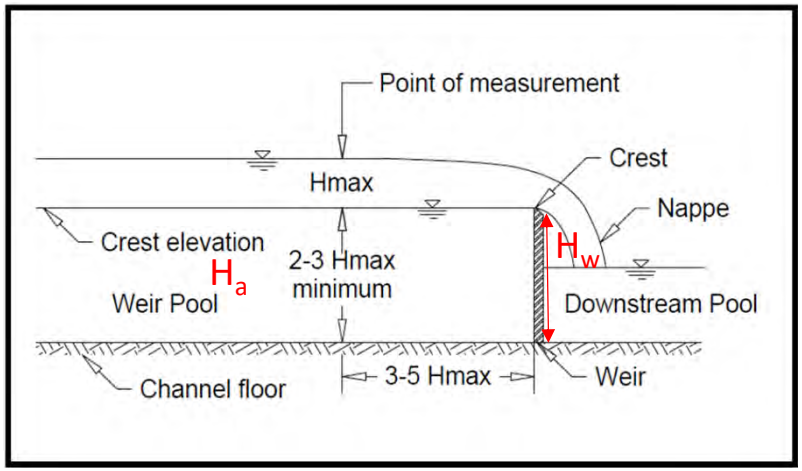
Moore, Dan. “Introduction to Salt Dilution Gauging for Streamflow Measurement Part 2: Constant-Rate Injection.” Streamline, Watershed Management Bulletin, vol. 8, no. 1, 2004, pp. 11–15.

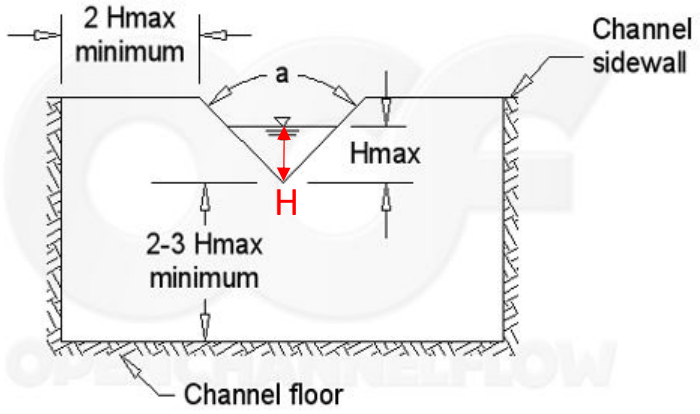
APPENDIX F

Temporary Weir Installation Summary

TABLE F1
TEMPORARY WEIR INSTALLATION SUMMARY
Chemours Fayetteville Works, North Carolina

Measurement Location	Ha (ft)	Hw (ft)	H (ft)	GPM	Weir Plate [1]	Flow Estimate [2]	Other flow measurements recorded		
SEEP A-1	1.4	1.1	0.3	**30**	45-degree V Notch	GPM = 464.5 x $H^{2.5}$			
SEEP A-5	0.7	0.6	0.1	**0.36**	22.5-degree V Notch	GPM = 223.1 x $H^{2.5}$	Graduated cylinder	**0.85**	GPM
SEEP A-TR1-1	0.9	0.6	0.2	**12**	45-degree V Notch	GPM = 464.5 x $H^{2.5}$	Graduated cylinder	**9.5**	GPM
SEEP A-3	1.1	0.8	0.3	**25**	45-degree V Notch	GPM = 464.5 x $H^{2.5}$	Graduated cylinder	**15**	GPM
SEEP A-4	0.7	0.6	0.0	**0.10**	45-degree V Notch	GPM = 464.5 x $H^{2.5}$	Graduated cylinder	**3.1**	GPM
SEEP B-2	1.3	1.3	0.0	**N/S**	22.5-degree V Notch	GPM = 223.1 x $H^{2.5}$	Graduated cylinder	**2.6**	GPM
SEEP B-TR2	1.0	0.9	0.1	**0.33**	22.5-degree V Notch	GPM = 464.5 x $H^{2.5}$	Graduated cylinder	**4.0**	GPM
SEEP C-1	1.0	0.7	0.4	**20**	22.5-degree V Notch	GPM = 223.1 x $H^{2.5}$	Graduated cylinder	**6.5**	GPM
SEEP D-1	1.4	1.1	0.2	**14**	45-degree V Notch	GPM = 464.5 x $H^{2.5}$	Graduated cylinder	**32**	GPM
OLD OUTFALL 002	2.0	1.4	0.6	**700**	Cipolleti V Notch	GPM = 1511 x $H^{1.5}$	Flow Velocity Meter Measurement	**670**	GPM





Notes:
Ha = Water column height, upstream of weir plate.
Hw = Weir plate notch height from downstream creek bed.
H = Calculated thickness of water at notch of weir plate.
GPM = Gallons per minute.
N/S = Value not sufficient due to discrepancy in Hw measurement.
1 - Weir plate was selected based on flow rate. 22.5-degree V Notch was used for low flow, 45-degree V notch for medium flow, and Cipolleti V notch for high flow.
2 - Flow estimate was selected according to the weir plate used.

APPENDIX G

Laboratory Reports & DVM Report

Note: Laboratory Reports provided separately

ADQM DATA REVIEW
NARRATIVE

Site **Chemours FAY – Fayetteville**

Project **SURFACE WATER 02/19**

Project Reviewer **Michael Aucoin, AECOM as a Chemours contractor**

Sampling Dates **February 1-2 and 4-7, 2019**

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
Eurofins Lancaster (ELLE)	537 Modified	PFAS[1]
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds
ELLE	SW-846 8260C	Volatiles
ELLE	SW-846 8270D	Semivolatiles
ELLE	EPA 200.7 Rev. 4.4	Total Metals
ELLE	EPA 300	Chloride, Nitrate, Nitrite, Sulfate
ELLE	EPA 350.1	Ammonia
ELLE	EPA 365.1	Phosphate
ELLE	2320 B-1997	Alkalinity
ELLE	2540 C-1997	TDS
ELLE	2540 D-1997	TSS
ELLE	5310 C-2000	TOC

[1] Perfluoroalkylsubstances including HFPO-DA.

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on February 2 and 5-8, 2019.
- Samples were submitted to Eurofins Lancaster and later transferred to TestAmerica Sacramento for Table 3+ analysis.

Data Review

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process.

Overall the data is acceptable for use without qualification, except as noted below:

- A non-detect result for 2-Chloroethyl Vinyl Ether in one field sample was qualified R and is considered to be unusable due to a very poor matrix spike recovery.
- PFO5DA and other parameter results in some field samples were qualified B and may be biased high, or may be false positives, due to a comparable concentration in the associated field blank.
- Table 3+ sample results were qualified J as estimated, and non-detect results were qualified UJ, and the reporting limit may be biased low, because the lab established holding time was exceeded.
- Several analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to lab control sample, matrix spike or surrogate recovery outside criteria, and; poor lab replicate precision. Various non-pfas sample results reported between the MDL and PQL were qualified J as estimated. See the Data Verification Module (DVM) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DVM Narrative report is attached. The lab reports due to a large page count are stored on an AECOM network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- 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.**

DVM Narrative Report

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the data rejection level. The reported non-detect result is unusable.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981702	2-Chloroethyl Vinyl Ether	0.2	UG/L	MDL	0.2	10	R	8260C		5030C

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Contamination detected in Field Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated field blank(s).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981702	Sulfate	6.5	MG/L	MDL	1.5	5.0	B	300.0		
FAY-SW-SEEP-B-4-020619	02/06/2019	9981702	Chloride	10.8	MG/L	MDL	1.0	2.0	B	300.0		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981701	Sulfate	10.8	MG/L	MDL	1.5	5.0	B	300.0		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981701	Chloride	7.5	MG/L	MDL	1.0	2.0	B	300.0		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981698	Chloride	16.2	MG/L	MDL	1.0	2.0	B	300.0		
FAY-SW-SEEP-B-3-020619	02/06/2019	9981695	Sulfate	8.5	MG/L	MDL	1.5	5.0	B	300.0		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981698	Sulfate	18.6	MG/L	MDL	1.5	5.0	B	300.0		
FAY-SW-SEEP-B-3-020619	02/06/2019	9981695	Chloride	9.0	MG/L	MDL	1.0	2.0	B	300.0		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981703	Chloride	14.5	MG/L	MDL	1.0	2.0	B	300.0		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981703	Sulfate	5.2	MG/L	MDL	1.5	5.0	B	300.0		
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFO5DA	0.67	ug/L	PQL		0.10	B	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO5DA	0.97	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO5DA	0.86	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978952	Ammonia	0.60	MG/L	MDL	0.050	0.10	B	350.1		
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFO5DA	0.82	ug/L	PQL		0.10	B	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO5DA	0.95	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO5DA	1.0	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-S-020119	02/01/2019	9978954	Chloride	6.6	MG/L	MDL	1.0	2.0	B	300.0		
FAY-SW-OLDOF-1-S-020119	02/01/2019	9978951	Chloride	59100	MG/L	MDL	4000	8000	B	300.0		
FAY-SW-OLDOF-2-020119	02/01/2019	9978955	Ammonia	0.48	MG/L	MDL	0.050	0.10	B	350.1		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Contamination detected in Field Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated field blank(s).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981702	Selenium	0.0248	MG/L	MDL	0.0210	0.0500	B	6010B		3005A

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Nondetects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	F-53B Major	0.00085	ug/L	PQL		0.00085	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	F-53B Minor	0.0017	ug/L	PQL		0.0017	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	ADONA	0.00085	UG/L	PQL		0.00085	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	F-53B Major	0.00086	ug/L	PQL		0.00086	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	F-53B Minor	0.0017	ug/L	PQL		0.0017	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	ADONA	0.00086	UG/L	PQL		0.00086	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978959	F-53B Major	0.00086	ug/L	PQL		0.00086	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978959	F-53B Minor	0.0017	ug/L	PQL		0.0017	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978959	ADONA	0.00086	UG/L	PQL		0.00086	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-76-020219	02/04/2019	9979948	F-53B Major	0.00087	ug/L	PQL		0.00087	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-76-020219	02/04/2019	9979948	F-53B Minor	0.0017	ug/L	PQL		0.0017	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-76-020219	02/04/2019	9979948	ADONA	0.00087	UG/L	PQL		0.00087	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982593	F-53B Major	0.00085	ug/L	PQL		0.00085	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982593	F-53B Minor	0.0017	ug/L	PQL		0.0017	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982593	ADONA	0.00085	UG/L	PQL		0.00085	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	F-53B Minor	0.0018	ug/L	PQL		0.0018	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	ADONA	0.0009	UG/L	PQL		0.0009	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	F-53B Major	0.0009	ug/L	PQL		0.0009	UJ	EPA 537 Rev. 1.1 modified		537_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020619	02/06/2019	9981760	Hfpo Dimer Acid	0.0018	UG/L	PQL		0.0018	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FB-020719	02/07/2019	9982661	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0027	ug/L	PQL		0.0027	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FB-S-020519	02/05/2019	9980837	Hfpo Dimer Acid	0.0018	UG/L	PQL		0.0018	UJ	EPA 537 Rev. 1.1 modified		537_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Butyl Benzyl Phthalate	2	UG/L	MDL	2	5	UJ	8270D		3510C
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	2,4-Dimethylphenol	3	UG/L	MDL	3	10	UJ	8270D		3510C
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Alkalinity, Total	1.7	MG/L	MDL	1.7	5	UJ	2320 B-1997		
FAY-SW-SEEP-B-1-020519	02/05/2019	9980784	Alkalinity, Total	1.7	MG/L	MDL	1.7	5	UJ	2320 B-1997		
FB-020419	02/04/2019	9979907	Chloride	0.20	MG/L	MDL	0.20	0.40	UJ	300.0		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	N-ethylperfluoro-1-octanesulfonamide	0.19	UG/L	PQL		0.19	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982570	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		
FAY-SW-SEEP-A-3-020719	02/07/2019	9982571	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		
FAY-SW-SEEP-A-4-020719	02/07/2019	9982572	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		
FAY-SW-SEEP-A-5-020719	02/07/2019	9982573	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		
FAY-SW-SEEP-A-6-020719	02/07/2019	9982574	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		
FAY-SW-SEEP-A-7-020719	02/07/2019	9982575	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		
FAY-SW-SEEP-A-8-020719	02/07/2019	9982576	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason One or more surrogates had relative percent recovery (RPR) values less than the data rejection level. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0026	ug/L	PQL		0.0026	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0026	ug/L	PQL		0.0026	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	N-methyl perfluoro-1-octanesulfonamide	0.0077	ug/L	PQL		0.0077	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	N-ethylperfluoro-1-octanesulfonamide	0.0077	UG/L	PQL		0.0077	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0026	ug/L	PQL		0.0026	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0026	ug/L	PQL		0.0026	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	N-methyl perfluoro-1-octanesulfonamide	0.0077	ug/L	PQL		0.0077	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	N-ethylperfluoro-1-octanesulfonamide	0.0077	UG/L	PQL		0.0077	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978959	N-ethylperfluoro-1-octanesulfonamide	0.0078	UG/L	PQL		0.0078	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-76-020219	02/04/2019	9979948	N-ethylperfluoro-1-octanesulfonamide	0.0079	UG/L	PQL		0.0079	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-84-020219	02/04/2019	9979952	N-methyl perfluoro-1-octanesulfonamide	0.008	ug/L	PQL		0.008	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-76-020219	02/04/2019	9979948	N-methyl perfluoro-1-octanesulfonamide	0.0079	ug/L	PQL		0.0079	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-84-020219	02/04/2019	9979952	N-ethylperfluoro-1-octanesulfonamide	0.008	UG/L	PQL		0.008	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978959	N-methyl perfluoro-1-octanesulfonamide	0.0078	ug/L	PQL		0.0078	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982593	N-methyl perfluoro-1-octanesulfonamide	0.0076	ug/L	PQL		0.0076	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982593	N-ethylperfluoro-1-octanesulfonamide	0.0076	UG/L	PQL		0.0076	UJ	EPA 537 Rev. 1.1 modified		537_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason One or more surrogates had relative percent recovery (RPR) values less than the data rejection level. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0027	ug/L	PQL		0.0027	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0027	ug/L	PQL		0.0027	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	N-methyl perfluoro-1-octanesulfonamide	0.0081	ug/L	PQL		0.0081	UJ	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	N-ethylperfluoro-1-octanesulfonamide	0.0081	UG/L	PQL		0.0081	UJ	EPA 537 Rev. 1.1 modified		537_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value..

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFECA B	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFECA B	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	N-ethylperfluoro-1-octanesulfonamide	0.075	UG/L	PQL		0.075	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	N-ethylperfluoro-1-octanesulfonamide	0.075	UG/L	PQL		0.075	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.12	ug/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.12	ug/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.22	ug/L	PQL		0.22	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.22	ug/L	PQL		0.22	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	EVE Acid	0.049	UG/L	PQL		0.049	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	EVE Acid	0.049	UG/L	PQL		0.049	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFECA-G	0.082	UG/L	PQL		0.082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFECA-G	0.082	UG/L	PQL		0.082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PES	0.092	UG/L	PQL		0.092	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PES	0.092	UG/L	PQL		0.092	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFESA-BP1	0.053	UG/L	PQL		0.053	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFESA-BP1	0.053	UG/L	PQL		0.053	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	N-methyl perfluoro-1-octanesulfonamide	0.069	ug/L	PQL		0.069	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	N-methyl perfluoro-1-octanesulfonamide	0.069	ug/L	PQL		0.069	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Byproduct 6	0.031	UG/L	PQL		0.031	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Byproduct 6	0.031	UG/L	PQL		0.031	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PFESA-BP2	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PFO4DA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020119	02/01/2019	320-51031-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PFMOAA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PFESA-BP2	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020119	02/01/2019	320-51031-9	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PMPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020219	02/02/2019	320-51031-6	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PEPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFO2HxA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFO3OA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
FB-020219	02/02/2019	320-51031-6	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFO4DA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFO5DA	0.10	ug/L	PQL		0.10	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFMOAA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFESA-BP2	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020219	02/02/2019	320-51031-6	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	9979939	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020219	02/02/2019	320-51031-6	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020219	02/02/2019	320-51031-6	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020519	02/05/2019	320-51045-11	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020519	02/05/2019	320-51045-11	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020119	02/01/2019	320-51031-9	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PEPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PFO2HxA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PFO3OA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020119	02/01/2019	9978970	PFO4DA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	9978970	PMPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020119	02/01/2019	320-51031-9	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020519	02/05/2019	320-51045-11	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PMPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
FB-020619	02/06/2019	320-51045-12	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PEPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFO2HxA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFO3OA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020619	02/06/2019	320-51045-12	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFO4DA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFO5DA	0.10	ug/L	PQL		0.10	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFMOAA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020619	02/06/2019	320-51045-12	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	9981763	PFESA-BP2	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FB-020619	02/06/2019	320-51045-12	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020619	02/06/2019	320-51045-12	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PFO4DA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	NVHOS	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	NVHOS	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PMPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
EB-020419	02/04/2019	320-51024-5	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PEPA	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
EB-020419	02/04/2019	9979959	PFO2HxA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PFO3OA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PFO4DA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PFO5DA	0.10	ug/L	PQL		0.10	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PFMOAA	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
EB-020419	02/04/2019	320-51024-5	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PFESA-BP2	0.050	ug/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	9979959	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
EB-020419	02/04/2019	320-51024-5	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	Byproduct 5	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	Byproduct 5	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB-020419	02/04/2019	320-51024-5	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
EB-020419	02/04/2019	320-51024-5	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Byproduct 5	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Byproduct 5	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	2-(N-methyl perfluoro-1-octanesulfonamido)	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFESA-BP1	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982569	Nitrate	0.25	MG/L	MDL	0.25	0.50	UJ	300.0		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PES	0.23	UG/L	PQL		0.23	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PES	0.23	UG/L	PQL		0.23	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.30	ug/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.30	ug/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.55	ug/L	PQL		0.55	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.55	ug/L	PQL		0.55	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	N-methyl perfluoro-1-octanesulfonamide	0.17	ug/L	PQL		0.17	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	N-methyl perfluoro-1-octanesulfonamide	0.17	ug/L	PQL		0.17	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	N-ethylperfluoro-1-octanesulfonamide	0.19	UG/L	PQL		0.19	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PES	0.23	UG/L	PQL		0.23	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PES	0.23	UG/L	PQL		0.23	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.30	ug/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.30	ug/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.55	ug/L	PQL		0.55	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.55	ug/L	PQL		0.55	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	N-methyl perfluoro-1-octanesulfonamide	0.17	ug/L	PQL		0.17	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	N-methyl perfluoro-1-octanesulfonamide	0.17	ug/L	PQL		0.17	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	N-ethylperfluoro-1-octanesulfonamide	0.19	UG/L	PQL		0.19	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	N-ethylperfluoro-1-octanesulfonamide	0.19	UG/L	PQL		0.19	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFECA B	0.30	UG/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFECA B	0.30	UG/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFECA B	0.30	UG/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFECA B	0.30	UG/L	PQL		0.30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFECA-G	0.050	UG/L	PQL		0.050	UJ	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values below the data rejection level. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020719	02/07/2019	9982590	Benzidine	20	UG/L	MDL	20	60	UJ	8270D		3510C
FAY-SW-SEEP-A-1-020719	02/07/2019	9982569	Benzidine	20	UG/L	MDL	20	60	UJ	8270D		3510C
FAY-SW-SEEP-A-11-020719	02/07/2019	9982579	Benzidine	20	UG/L	MDL	20	60	UJ	8270D		3510C

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the data rejection level. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Benzidine	21	UG/L	MDL	21	62	UJ	8270D		3510C
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	2-Chloroethyl Vinyl Ether	0.2	UG/L	MDL	0.2	10	UJ	8260C		5030C

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-TR-1-1-A-020219	02/02/2019	9979890	Chloride	5.2	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-OLDOF-TR-1-1-S-020219	02/02/2019	9979891	Chloride	27500	MG/L	MDL	2000	4000	J	300.0		
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO4DA	0.16	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO4DA	0.18	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-A-020219	02/02/2019	9979908	Chloride	14.1	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-OLDOF-5-S-020219	02/02/2019	9979909	Chloride	62700	MG/L	MDL	4000	8000	J	300.0		
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFO5DA	4.2	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO5DA	4.2	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO5DA	3.9	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFO3OA	9.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO3OA	7.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO3OA	6.7	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO4DA	2.1	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFO5DA	1.1	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO5DA	1.1	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO5DA	1.1	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-A-020219	02/02/2019	9979898	Chloride	7.8	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-OLDOF-3-S-020219	02/02/2019	9979899	Chloride	58000	MG/L	MDL	4000	8000	J	300.0		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFESA-BP2	0.35	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	9979924	PFESA-BP2	0.36	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFESA-BP2	0.35	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PEPA	2.1	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	9979924	PEPA	2.1	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PEPA	2.1	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFO4DA	2.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	9979924	PFO4DA	2.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO4DA	1.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO4DA	2.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFO5DA	0.81	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	9979924	PFO5DA	0.82	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO5DA	0.87	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Byproduct 4	0.0083	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Byproduct 4	0.0074	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Byproduct 5	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	Byproduct 5	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
										SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO5DA	0.034	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO5DA	0.055	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFO5DA	0.37	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020119	02/01/2019	320-51031-9	PFO5DA	0.45	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	R-EVE	13	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	R-EVE	12.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980785	Chloride	6.2	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-B-2-020519	02/05/2019	9980785	Sulfate	13.0	MG/L	MDL	1.5	5.0	J	300.0		
FAY-SW-WC-5-020719	02/07/2019	9982587	Nitrate	0.96	MG/L	MDL	0.25	0.50	J	300.0		
FAY-SW-WC-4-020719	02/07/2019	9982586	Nitrate	0.93	MG/L	MDL	0.25	0.50	J	300.0		
FAY-SW-WC-3-020719	02/07/2019	9982585	Nitrate	0.88	MG/L	MDL	0.25	0.50	J	300.0		
FAY-SW-WC-2-020719	02/07/2019	9982584	Nitrate	0.83	MG/L	MDL	0.25	0.50	J	300.0		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980793	Chloride	11.9	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980793	Sulfate	13.6	MG/L	MDL	1.5	5.0	J	300.0		
FAY-SW-SEEP-C-1-020519-D	02/05/2019	9980792	Sulfate	24.6	MG/L	MDL	1.5	5.0	J	300.0		
FAY-SW-SEEP-C-1-020519-D	02/05/2019	9980792	Chloride	10.9	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Sulfate	24.7	MG/L	MDL	1.5	5.0	J	300.0		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Aluminum	1.45	MG/L	MDL	0.153	0.300	J	200.7 Rev. 4.4		200.7
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Iron	3.82	MG/L	MDL	0.0400	0.200	J	200.7 Rev. 4.4		200.7

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PFESA-BP2	0.59	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980825	PFESA-BP2	0.59	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PFESA-BP2	0.50	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980829	PFESA-BP2	0.49	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFESA-BP2	0.59	ug/L	PQL		0.061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Chloride	10.5	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-B-4-020619	02/06/2019	9989189	Aluminum	0.478	MG/L	MDL	0.153	0.300	J	200.7 Rev. 4.4		200.7
FAY-SW-OLDOF-5-020419	02/04/2019	9979911	Ammonia	0.053	MG/L	MDL	0.050	0.10	J	350.1		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Detects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	Perfluorobutane Sulfonic Acid	0.0016	UG/L	PQL		0.0009	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982601	Hfpo Dimer Acid	13	UG/L	PQL		0.18	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982593	Hfpo Dimer Acid	10	UG/L	PQL		0.17	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978959	Perfluorobutane Sulfonic Acid	0.0014	UG/L	PQL		0.00086	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978959	Hfpo Dimer Acid	4.8	UG/L	PQL		0.17	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-76-020219	02/04/2019	9979948	Perfluorobutane Sulfonic Acid	0.002	UG/L	PQL		0.00087	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-84-020219	02/04/2019	9979952	Perfluorobutane Sulfonic Acid	0.0022	UG/L	PQL		0.00089	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-CFR-RM-76-020219	02/04/2019	9979948	Hfpo Dimer Acid	0.0029	UG/L	PQL		0.0017	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-3-020719	02/07/2019	9982649	Hfpo Dimer Acid	0.12	UG/L	PQL		0.0017	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-1-020719	02/07/2019	9982641	Hfpo Dimer Acid	0.29	UG/L	PQL		0.0017	J	EPA 537 Rev. 1.1 modified		537_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982576	Total Suspended Solids	712	MG/L	MDL	40.0	120	J	2540 D-1997		
FAY-SW-SEEP-A-8-020719	02/07/2019	9982576	Chloride	4.7	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-7-020719	02/07/2019	9982575	Chloride	6.6	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-6-020719	02/07/2019	9982574	Chloride	4.5	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-5-020719	02/07/2019	9982573	Chloride	5.5	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-4-020719	02/07/2019	9982572	Chloride	10.4	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-3-020719	02/07/2019	9982571	Chloride	11.5	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-2-020719	02/07/2019	9982570	Chloride	11.2	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-12-020719	02/07/2019	9982580	Total Suspended Solids	7.40	MG/L	MDL	1.00	3.00	J	2540 D-1997		
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFO5DA	2.5	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO5DA	4.1	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO5DA	3.2	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFESA-BP1	0.098	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFESA-BP1	0.12	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFESA-BP1	0.1	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982578	Chloride	9.0	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-1-020719	02/07/2019	9982569	Chloride	9.0	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFO4DA	2.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO4DA	2.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFO4DA	2.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO4DA	1.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO4DA	2.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFESA-BP1	0.24	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	9979924	PFESA-BP1	0.21	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFESA-BP1	0.25	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFESA-BP1	0.28	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO5DA	1.1	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-5-020719	02/07/2019	9982587	Total Suspended Solids	9.10	MG/L	MDL	1.00	3.00	J	2540 D-1997		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Byproduct 5	0.21	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980784	Total Suspended Solids	236	MG/L	MDL	10.0	30.0	J	2540 D-1997		
FAY-SW-SEEP-A-9-020719	02/07/2019	9982577	Total Suspended Solids	3740	MG/L	MDL	100	300	J	2540 D-1997		
FAY-SW-SEEP-B-2-020519	02/05/2019	9980785	Total Suspended Solids	11.0	MG/L	MDL	1.00	3.00	J	2540 D-1997		
FAY-SW-WC-4-020719	02/07/2019	9982586	Total Suspended Solids	12.0	MG/L	MDL	2.00	6.00	J	2540 D-1997		
FAY-SW-WC-1-020719	02/07/2019	9982583	Chloride	10.8	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO5DA	0.034	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO5DA	0.11	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PEPA	0.13	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PEPA	0.19	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PEPA	0.23	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Byproduct 4	1.2	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Byproduct 4	1.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Byproduct 5	1.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Byproduct 5	1.7	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980793	Total Suspended Solids	28.1	MG/L	MDL	1.00	3.00	J	2540 D-1997		
FAY-SW-SEEP-C-1-020519-D	02/05/2019	9980792	Total Suspended Solids	14.6	MG/L	MDL	1.00	3.00	J	2540 D-1997		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Total Suspended Solids	24.5	MG/L	MDL	1.00	3.00	J	2540 D-1997		
FB-020519	02/05/2019	9980794	Total Suspended Solids	1.34	MG/L	MDL	1.00	3.00	J	2540 D-1997		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFO3OA	24	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO3OA	24	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO3OA	24.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFO4DA	19	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO4DA	21	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO4DA	22.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFO5DA	15	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO5DA	17	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO5DA	17.0	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PEPA	18	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PEPA	22	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PEPA	22.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	R-EVE	0.80	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	R-EVE	0.77	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Byproduct 4	1.5	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Byproduct 4	1.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Byproduct 5	6.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Byproduct 5	5.9	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Byproduct 6	0.037	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Byproduct 6	0.039	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	NVHOS	3.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	NVHOS	3.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Hydro-EVE Acid	0.86	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Hydro-EVE Acid	0.87	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Hydro-EVE Acid	1.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	Hydro-EVE Acid	1.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFMOAA	17	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFMOAA	17	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFMOAA	17.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	EVE Acid	0.54	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	EVE Acid	0.53	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFESA-BP2	1.4	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFESA-BP2	1.5	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFESA-BP2	1.5	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFO2HxA	18	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO2HxA	20	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO2HxA	20.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFO3OA	5.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO3OA	6.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO3OA	6.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFO4DA	5.3	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO4DA	6.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO4DA	6.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFO5DA	4.2	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO5DA	6.2	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFO5DA	6.1	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PEPA	15	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PEPA	19	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PEPA	19.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PFESA-BP1	2.8	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFESA-BP1	1.6	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PFESA-BP1	1.6	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982624	PMPA	34	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PMPA	38	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	PMPA	38.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFMOAA	41	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFMOAA	43	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFMOAA	43.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	EVE Acid	0.56	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	EVE Acid	0.55	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFESA-BP2	1.3	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFESA-BP2	1.4	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFESA-BP2	1.4	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Hydro-EVE Acid	1.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Hydro-EVE Acid	1.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	R-EVE	1.5	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	R-EVE	1.4	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Byproduct 4	2.5	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Byproduct 4	2.5	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Byproduct 5	13	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Byproduct 5	13.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Byproduct 6	0.051	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	Byproduct 6	0.051	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	NVHOS	0.38	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	320-51045-20	NVHOS	0.38	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFO2HxA	31	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO2HxA	35	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO2HxA	34.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFO3OA	9.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO3OA	11	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO3OA	11.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFO4DA	6.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO4DA	8.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO4DA	8.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFO5DA	4.2	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO5DA	5.7	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFO5DA	5.6	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PEPA	17	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PEPA	22	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PEPA	22.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PFESA-BP1	0.99	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFESA-BP1	1.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PFESA-BP1	1.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982620	PMPA	39	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PMPA	46	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	PMPA	46.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Byproduct 6	0.031	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Byproduct 6	0.032	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	NVHOS	0.88	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	320-51045-19	NVHOS	0.88	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	EVE Acid	0.67	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	EVE Acid	0.68	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFESA-BP2	1.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFESA-BP2	1.3	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFESA-BP2	1.3	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Hydro-EVE Acid	1.0	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Hydro-EVE Acid	1.1	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFO3OA	6.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO3OA	6.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO3OA	6.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFO4DA	5.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO4DA	5.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO4DA	6.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFO5DA	3.8	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO5DA	4.7	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO5DA	4.7	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PEPA	14	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PEPA	18	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PEPA	19.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFESA-BP1	1.5	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFESA-BP1	1.5	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFESA-BP1	1.5	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Byproduct 4	2.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Byproduct 4	2.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Byproduct 5	9.9	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Byproduct 5	10.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Byproduct 6	0.040	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Byproduct 6	0.037	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	NVHOS	0.38	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	NVHOS	0.4	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFMOAA	25	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFMOAA	30	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFMOAA	29.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	EVE Acid	0.52	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	EVE Acid	0.53	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFESA-BP2	1.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Hydro-EVE Acid	1.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	Hydro-EVE Acid	1.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFO2HxA	23	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO2HxA	28	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO2HxA	27.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFO3OA	8.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO3OA	8.5	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO3OA	8.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFO4DA	5.6	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO4DA	6.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO4DA	6.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFO5DA	3.8	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO5DA	4.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFO5DA	4.4	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PEPA	15	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PEPA	20	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PEPA	20.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PFESA-BP1	1.3	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFESA-BP1	1.1	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PFESA-BP1	1.1	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982612	PMPA	31	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PMPA	42	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	PMPA	42.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	R-EVE	0.77	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	R-EVE	0.8	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Byproduct 4	1.3	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Byproduct 4	1.3	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Byproduct 5	6.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Byproduct 5	6.6	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Byproduct 6	0.026	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	Byproduct 6	0.025	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	NVHOS	0.61	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	320-51045-17	NVHOS	0.62	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFMOAA	42	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFMOAA	49	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFMOAA	49.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	EVE Acid	0.24	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	EVE Acid	0.25	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFESA-BP2	0.77	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFESA-BP2	0.83	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFESA-BP2	0.83	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFO2HxA	27	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO2HxA	28	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO2HxA	28.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFO3OA	8.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO3OA	8.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO3OA	8.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFO4DA	4.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO4DA	4.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO4DA	4.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFO5DA	3.6	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO5DA	4.3	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFO5DA	4.4	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PEPA	9.3	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PEPA	12	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PEPA	12.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PFESA-BP1	0.70	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFESA-BP1	0.56	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PFESA-BP1	0.56	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982608	PMPA	23	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PMPA	28	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	PMPA	28.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFESA-BP2	1.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFESA-BP2	1.1	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Hydro-EVE Acid	1.6	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Hydro-EVE Acid	1.7	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Byproduct 4	2.2	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Byproduct 4	2.2	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Byproduct 5	23	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Byproduct 5	25.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Byproduct 6	0.045	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	Byproduct 6	0.048	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	NVHOS	0.64	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	320-51045-16	NVHOS	0.72	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFMOAA	69	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFMOAA	79	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFMOAA	83.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	EVE Acid	0.93	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	EVE Acid	1.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFO2HxA	36	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO2HxA	38	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO2HxA	40.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFO3OA	14	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO3OA	13	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO3OA	14.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFO4DA	7.3	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO4DA	7.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO4DA	8.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFO5DA	4.8	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO5DA	5.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFO5DA	6.0	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PEPA	6.7	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PEPA	8.4	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PEPA	8.8	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PFESA-BP1	4.5	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFESA-BP1	3.7	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PFESA-BP1	4.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	9982604	PMPA	18	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PMPA	22	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	PMPA	23.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Byproduct 4	2.2	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Byproduct 4	2.2	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Byproduct 5	23	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Byproduct 5	23.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Byproduct 6	0.047	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Byproduct 6	0.046	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	NVHOS	0.91	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-3-020719	02/07/2019	320-51045-15	NVHOS	0.96	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFMOAA	68	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFMOAA	82	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFMOAA	82.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	EVE Acid	0.83	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	EVE Acid	0.84	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFESA-BP2	0.99	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Hydro-EVE Acid	1.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	Hydro-EVE Acid	1.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFO2HxA	36	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO2HxA	40	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO2HxA	40.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFO3OA	14	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO3OA	14	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO3OA	14.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFO4DA	7.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO4DA	7.6	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO4DA	7.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFO5DA	4.6	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO5DA	5.9	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFO5DA	6.0	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PEPA	6.9	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PEPA	8.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PEPA	8.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PFESA-BP1	4.1	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFESA-BP1	3.8	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PFESA-BP1	3.8	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982600	PMPA	19	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PMPA	23	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	PMPA	23.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	R-EVE	0.89	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	R-EVE	0.9	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Byproduct 4	2.1	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Byproduct 4	2.1	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Byproduct 5	0.49	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Byproduct 5	0.48	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Byproduct 6	0.026	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Byproduct 6	0.026	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	NVHOS	1.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	320-51045-14	NVHOS	0.98	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFESA-BP2	1.3	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFESA-BP2	1.4	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFESA-BP2	1.3	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Hydro-EVE Acid	0.31	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	Hydro-EVE Acid	0.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFMOAA	15	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFMOAA	16	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFMOAA	17.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	EVE Acid	0.039	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	EVE Acid	0.03	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFO2HxA	30	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO2HxA	30	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO2HxA	30.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFO3OA	4.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO3OA	5.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO3OA	5.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PFO4DA	4.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO4DA	4.6	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PFO4DA	4.9	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PEPA	7.4	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PEPA	8.7	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PEPA	8.7	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Hydro-EVE Acid	10	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Hydro-EVE Acid	10.0	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982640	PMPA	20	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PMPA	22	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	PMPA	21.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	R-EVE	4.6	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	R-EVE	4.7	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Byproduct 4	6.9	UG/L	PQL		0.79	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Byproduct 4	6.6	UG/L	PQL		0.79	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Byproduct 5	74	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Byproduct 5	73.0	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Byproduct 6	0.24	UG/L	PQL		0.077	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	Byproduct 6	0.25	UG/L	PQL		0.077	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	NVHOS	0.57	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	320-51045-24	NVHOS	0.56	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFESA-BP2	6.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFESA-BP2	7.1	ug/L	PQL		0.15	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFESA-BP2	7.1	ug/L	PQL		0.15	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFMOAA	76	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFMOAA	90	ug/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFMOAA	90.0	ug/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	EVE Acid	24	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	EVE Acid	24.0	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFO2HxA	62	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO2HxA	67	ug/L	PQL		0.41	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO2HxA	67.0	ug/L	PQL		0.41	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFO3OA	26	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO3OA	26	ug/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO3OA	26.0	ug/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFO4DA	20	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO4DA	22	ug/L	PQL		0.39	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO4DA	21.0	ug/L	PQL		0.39	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFO5DA	16	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO5DA	24	ug/L	PQL		0.17	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFO5DA	24.0	ug/L	PQL		0.17	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PEPA	18	UG/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PEPA	22	UG/L	PQL		0.23	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PEPA	22.0	UG/L	PQL		0.23	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PFESA-BP1	51	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFESA-BP1	54	UG/L	PQL		0.13	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PFESA-BP1	53.0	UG/L	PQL		0.13	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982636	PMPA	46	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PMPA	51	UG/L	PQL		2.8	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	PMPA	50.0	UG/L	PQL		2.8	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFESA-BP2	6.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFESA-BP2	6.9	ug/L	PQL		0.15	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFESA-BP2	6.8	ug/L	PQL		0.15	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Hydro-EVE Acid	9.8	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Hydro-EVE Acid	9.6	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	R-EVE	4.7	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	R-EVE	4.7	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Byproduct 4	6.7	UG/L	PQL		0.79	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Byproduct 4	6.6	UG/L	PQL		0.79	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Byproduct 5	70	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Byproduct 5	68.0	UG/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Byproduct 6	0.24	UG/L	PQL		0.077	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	Byproduct 6	0.24	UG/L	PQL		0.077	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	NVHOS	3.7	UG/L	PQL		0.27	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	320-51045-23	NVHOS	3.8	UG/L	PQL		0.27	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFMOAA	75	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFMOAA	84	ug/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFMOAA	83.0	ug/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	EVE Acid	24	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	EVE Acid	23.0	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFO2HxA	59	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO2HxA	65	ug/L	PQL		0.41	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO2HxA	63.0	ug/L	PQL		0.41	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFO3OA	25	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO3OA	25	ug/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO3OA	25.0	ug/L	PQL		0.29	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFO4DA	19	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO4DA	21	ug/L	PQL		0.39	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO4DA	20.0	ug/L	PQL		0.39	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFO5DA	17	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO5DA	25	ug/L	PQL		0.17	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFO5DA	24.0	ug/L	PQL		0.17	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PEPA	19	UG/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PEPA	22	UG/L	PQL		0.23	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PEPA	22.0	UG/L	PQL		0.23	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PFESA-BP1	49	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFESA-BP1	50	UG/L	PQL		0.13	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PFESA-BP1	49.0	UG/L	PQL		0.13	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982632	PMPA	48	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PMPA	52	UG/L	PQL		2.8	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	PMPA	51.0	UG/L	PQL		2.8	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFESA-BP2	1.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Hydro-EVE Acid	1.7	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Hydro-EVE Acid	1.7	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	R-EVE	1.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	R-EVE	1.3	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Byproduct 4	2.2	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Byproduct 4	2.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Byproduct 5	23	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Byproduct 5	24.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Byproduct 6	0.047	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	Byproduct 6	0.048	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	NVHOS	3.3	UG/L	PQL		0.27	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	320-51045-22	NVHOS	3.3	UG/L	PQL		0.27	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982569	Sulfate	30.3	MG/L	MDL	6.0	20.0	J	300.0		
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFMOAA	62	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFMOAA	84	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFMOAA	86.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	EVE Acid	0.96	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	EVE Acid	1.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFO2HxA	35	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO2HxA	41	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO2HxA	41.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFO3OA	12	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO3OA	14	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO3OA	14.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFO4DA	6.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO4DA	8.1	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO4DA	7.9	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFO5DA	6.3	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO5DA	5.6	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFO5DA	5.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PEPA	7.1	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PEPA	9.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PEPA	10.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PFESA-BP1	4.3	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFESA-BP1	4.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PFESA-BP1	4.1	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	9982596	PMPA	19	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PMPA	25	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	PMPA	25.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFESA-BP2	0.11	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFESA-BP2	0.11	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	NVHOS	0.98	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-1-020719	02/07/2019	320-51045-13	NVHOS	1.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFMOAA	0.34	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFMOAA	0.25	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PMPA	3.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PMPA	3.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO2HxA	1.6	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO2HxA	1.6	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO3OA	0.27	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO3OA	0.26	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO5DA	0.25	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PFO5DA	0.27	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PEPA	1.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-TR1-1-020219	02/02/2019	320-51031-1	PEPA	1.4	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Byproduct 6	0.015	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Byproduct 6	0.016	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	R-EVE	0.21	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	R-EVE	0.23	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Byproduct 4	0.35	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Byproduct 4	0.35	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFMOAA	18	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFMOAA	16	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFMOAA	16.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	EVE Acid	0.031	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	EVE Acid	0.033	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFESA-BP2	0.54	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFESA-BP2	0.50	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFESA-BP2	0.51	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Hydro-EVE Acid	0.20	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	Hydro-EVE Acid	0.21	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PEPA	1.9	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PEPA	1.7	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PEPA	1.6	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFO2HxA	6.6	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO2HxA	5.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO2HxA	5.3	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFO3OA	1.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO3OA	1.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO3OA	1.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFO4DA	1.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO4DA	1.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO4DA	1.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PFO5DA	0.59	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO5DA	0.58	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PFO5DA	0.58	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	9979947	PMPA	5.4	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PMPA	4.5	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	PMPA	4.5	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	NVHOS	0.21	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5K-020219	02/02/2019	320-51024-2	NVHOS	0.21	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	R-EVE	0.31	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	R-EVE	0.31	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Byproduct 4	0.80	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Byproduct 4	0.8	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Byproduct 5	3.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Byproduct 5	3.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Byproduct 6	0.032	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Byproduct 6	0.033	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFMOAA	190	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFMOAA	200	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFMOAA	200.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	EVE Acid	0.37	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	EVE Acid	0.37	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFESA-BP2	0.99	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFESA-BP2	0.99	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFESA-BP2	0.99	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Hydro-EVE Acid	0.55	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	Hydro-EVE Acid	0.53	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFO2HxA	43	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO2HxA	37	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO2HxA	36.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFO3OA	14	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO3OA	11	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO3OA	10.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFO4DA	5.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO4DA	4.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFO4DA	4.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PEPA	2.7	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PEPA	2.7	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PEPA	2.8	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PFESA-BP1	4.6	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFESA-BP1	3.7	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PFESA-BP1	3.7	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	9979943	PMPA	8.6	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PMPA	8.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	PMPA	8.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	NVHOS	1.1	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	NVHOS	1.1	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	NVHOS	1.7	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-5-020219	02/02/2019	320-51024-1	NVHOS	1.7	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFESA-BP2	0.48	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFESA-BP2	0.47	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFESA-BP2	0.48	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Hydro-EVE Acid	0.31	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Hydro-EVE Acid	0.31	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	R-EVE	0.24	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	R-EVE	0.24	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Byproduct 4	0.62	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Byproduct 4	0.65	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Byproduct 5	1.9	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Byproduct 5	1.9	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Byproduct 6	0.019	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	Byproduct 6	0.017	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFMOAA	140	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFMOAA	140	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFMOAA	140.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PMPA	7.3	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PMPA	7.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PMPA	6.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFO2HxA	31	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO2HxA	25	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFO2HxA	24.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PEPA	2.4	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PEPA	2.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PEPA	2.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	9979935	PFESA-BP1	0.23	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFESA-BP1	0.24	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	PFESA-BP1	0.25	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFESA-BP2	0.40	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFESA-BP2	0.42	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFESA-BP2	0.43	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Hydro-EVE Acid	0.24	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Hydro-EVE Acid	0.26	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	NVHOS	1.2	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-4-020219	02/02/2019	320-51031-5	NVHOS	1.2	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	R-EVE	0.22	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	R-EVE	0.23	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Byproduct 4	0.56	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Byproduct 4	0.57	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Byproduct 5	1.8	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Byproduct 5	1.8	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Byproduct 6	0.018	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	Byproduct 6	0.019	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFMOAA	110	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFMOAA	109	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFMOAA	110.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PMPA	6.6	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PMPA	6.6	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PMPA	6.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFO2HxA	25	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO2HxA	23	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO2HxA	24.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFO3OA	7.4	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO3OA	5.5	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO3OA	5.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFO5DA	0.85	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO5DA	0.79	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFO5DA	0.88	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PEPA	2.2	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PEPA	2.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PEPA	2.1	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	9979931	PFESA-BP1	0.10	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFESA-BP1	0.17	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-3-020219	02/02/2019	320-51031-4	PFESA-BP1	0.17	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFMOAA	99	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFMOAA	104	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFMOAA	100.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	R-EVE	0.19	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	R-EVE	0.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Byproduct 4	0.49	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Byproduct 4	0.5	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Byproduct 5	1.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Byproduct 5	1.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFESA-BP2	0.36	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Hydro-EVE Acid	0.22	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	Hydro-EVE Acid	0.22	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PEPA	2.1	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFO3OA	6.9	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO3OA	5.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO3OA	5.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFO2HxA	21	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO2HxA	17	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO2HxA	18.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFO3OA	6.4	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO3OA	5.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO3OA	5.6	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFO4DA	1.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO4DA	1.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFO4DA	1.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PEPA	1.9	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PEPA	1.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PEPA	2.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFESA-BP1	0.26	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFESA-BP1	0.19	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFESA-BP1	0.21	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PMPA	5.6	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PMPA	5.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PMPA	6.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	NVHOS	0.75	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	NVHOS	0.77	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFMOAA	0.055	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFMOAA	0.055	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PMPA	0.031	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PMPA	0.032	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	NVHOS	0.0029	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	NVHOS	0.0029	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO2HxA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO2HxA	0.018	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO3OA	0.0036	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-84-020419	02/04/2019	320-51024-4	PFO3OA	0.0039	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO2HxA	0.0020	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PFO2HxA	0.002	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PMPA	0.011	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	PMPA	0.011	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	NVHOS	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-020419	02/04/2019	320-51024-3	NVHOS	0.0021	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	R-EVE	0.19	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	R-EVE	0.19	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Byproduct 4	0.45	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Byproduct 4	0.46	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Byproduct 5	1.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFMOAA	83	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFMOAA	93	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFMOAA	94.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PEPA	1.9	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PEPA	2.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PEPA	2.1	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFESA-BP1	0.18	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFESA-BP1	0.14	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFESA-BP1	0.15	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	9978962	PFESA-BP2	0.30	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFESA-BP2	0.31	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	PFESA-BP2	0.31	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Hydro-EVE Acid	0.20	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-1-020119	02/01/2019	320-51031-7	Hydro-EVE Acid	0.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	R-EVE	0.19	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	R-EVE	0.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Byproduct 4	0.42	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Byproduct 4	0.43	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFESA-BP2	0.33	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFESA-BP2	0.34	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFESA-BP2	0.34	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PMPA	5.8	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PMPA	6.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PMPA	5.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFO2HxA	22	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO2HxA	18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO2HxA	18.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFO3OA	6.4	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO3OA	5.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO3OA	5.8	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFO4DA	1.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO4DA	1.6	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFO4DA	1.6	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	9978966	PFMOAA	83	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFMOAA	92	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	PFMOAA	90.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PMPA	6.2	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PMPA	6.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PMPA	6.4	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	NVHOS	0.89	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	NVHOS	0.85	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	R-EVE	0.12	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	R-EVE	0.13	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Byproduct 4	0.18	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	Byproduct 4	0.16	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFESA-BP2	0.071	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFESA-BP2	0.07	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PFMOAA	0.63	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFMOAA	0.49	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFMOAA	0.49	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PEPA	1.4	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PEPA	1.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PEPA	1.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PMPA	3.7	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PMPA	3.7	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PMPA	3.7	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PFO2HxA	1.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO2HxA	1.3	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO2HxA	1.3	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	9979923	PFO3OA	0.40	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO3OA	0.29	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020219	02/02/2019	320-51031-3	PFO3OA	0.27	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Hydro-EVE Acid	0.20	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	Hydro-EVE Acid	0.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	NVHOS	0.80	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-020119	02/01/2019	320-51031-8	NVHOS	0.8	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Byproduct 5	0.058	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB-020519	02/05/2019	320-51045-11	Byproduct 5	0.11	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PMPA	120	UG/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PMPA	111	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PMPA	110.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	NVHOS	13	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	NVHOS	13.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PEPA	60	UG/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PEPA	61	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PEPA	61.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFESA-BP1	69	UG/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFESA-BP1	51	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFESA-BP1	51.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	R-EVE	0.64	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	R-EVE	0.63	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Byproduct 4	0.73	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Byproduct 4	0.72	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFESA-BP2	0.25	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFESA-BP2	0.30	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFESA-BP2	0.3	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Hydro-EVE Acid	0.12	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	Hydro-EVE Acid	0.12	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFO2HxA	5.4	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO2HxA	5.9	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO2HxA	5.9	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFO3OA	0.98	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO3OA	1.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO3OA	1.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFO4DA	0.99	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO4DA	1.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO4DA	1.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFO5DA	0.39	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO5DA	0.61	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFO5DA	0.62	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PFMOAA	1.6	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFMOAA	1.8	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PFMOAA	1.8	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PMPA	13	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PMPA	16	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PMPA	16.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981751	PEPA	4.8	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PEPA	6.5	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	PEPA	6.5	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFMOAA	5.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFMOAA	5.1	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFMOAA	4.6	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	EVE Acid	34	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	EVE Acid	33.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFESA-BP2	3.5	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFESA-BP2	3.9	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFESA-BP2	3.9	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Hydro-EVE Acid	9.1	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Hydro-EVE Acid	8.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Byproduct 4	14	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Byproduct 4	13.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Byproduct 5	99	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Byproduct 5	93.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Byproduct 6	0.28	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	Byproduct 6	0.27	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	NVHOS	8.5	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	NVHOS	8.5	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFESA-BP1	31	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFESA-BP1	30	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFESA-BP1	31.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFO2HxA	18	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO2HxA	17	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO2HxA	17.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFO3OA	3.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO3OA	3.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO3OA	3.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFO4DA	2.9	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO4DA	2.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO4DA	2.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFO5DA	1.9	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO5DA	1.9	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFO5DA	1.9	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	N-ethylperfluoro-1-octanesulfonamide	0.042	UG/L	PQL		0.037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFMOAA	4.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFMOAA	5.6	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFMOAA	5.3	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PFESA-BP2	4.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFESA-BP2	4.7	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PFESA-BP2	5.0	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Hydro-EVE Acid	11	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Hydro-EVE Acid	11.0	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	R-EVE	13	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	R-EVE	13.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Byproduct 4	16	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Byproduct 4	16.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Byproduct 5	119	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Byproduct 5	120.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Byproduct 6	0.34	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	Byproduct 6	0.36	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	NVHOS	0.075	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	320-51045-8	NVHOS	0.076	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	R-EVE	3.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	R-EVE	3.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Byproduct 4	4.7	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Byproduct 4	4.6	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Byproduct 5	38	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Byproduct 5	37.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Byproduct 6	0.084	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Byproduct 6	0.081	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Hydro-EVE Acid	2.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	Hydro-EVE Acid	2.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PMPA	38	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PMPA	42	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PMPA	40.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFMOAA	150	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFMOAA	148	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFMOAA	140.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	EVE Acid	6.1	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	EVE Acid	5.8	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFESA-BP2	1.1	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFESA-BP2	1.1	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFO2HxA	43	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO2HxA	43	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO2HxA	42.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFO3OA	11	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO3OA	9.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO3OA	9.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFO4DA	2.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO4DA	1.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO4DA	1.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFO5DA	0.46	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO5DA	0.53	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFO5DA	0.54	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PEPA	15	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PEPA	17	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PEPA	17.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980820	PFESA-BP1	4.6	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFESA-BP1	3.5	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	PFESA-BP1	3.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	R-EVE	5.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	R-EVE	5.4	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Byproduct 4	8.2	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Byproduct 4	8.1	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Byproduct 5	84	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Byproduct 5	83.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Byproduct 6	0.20	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Byproduct 6	0.2	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	NVHOS	3.3	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	320-51045-1	NVHOS	3.3	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFESA-BP2	5.6	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFESA-BP2	6.0	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFESA-BP2	6.1	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Hydro-EVE Acid	8.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	Hydro-EVE Acid	8.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFMOAA	9.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFMOAA	8.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFMOAA	8.8	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	EVE Acid	24	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	EVE Acid	25.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFESA-BP2	3.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFESA-BP2	3.0	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFESA-BP2	3.0	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Hydro-EVE Acid	7.1	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Hydro-EVE Acid	7.1	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFO2HxA	19	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO2HxA	16	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO2HxA	16.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFO3OA	4.5	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO3OA	3.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO3OA	3.5	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFO4DA	2.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO4DA	2.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO4DA	2.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFO5DA	1.3	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO5DA	1.3	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFO5DA	1.3	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PEPA	34	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PEPA	32	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PEPA	33.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PFESA-BP1	19	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFESA-BP1	14	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PFESA-BP1	14.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	NVHOS	6.3	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	NVHOS	6.6	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980824	PMPA	66	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PMPA	61	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	PMPA	63.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PMPA	66	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PMPA	72	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PMPA	69.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	R-EVE	9.6	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	R-EVE	10.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Byproduct 4	11	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Byproduct 4	12.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Byproduct 5	77	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Byproduct 5	83.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Byproduct 6	0.23	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	320-51045-2	Byproduct 6	0.23	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	NVHOS	7.8	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	NVHOS	7.5	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFO2HxA	17	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO2HxA	16	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO2HxA	15.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFO3OA	3.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO3OA	3.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO3OA	3.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFO4DA	2.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO4DA	2.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO4DA	2.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFO5DA	1.7	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO5DA	1.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFO5DA	1.4	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PEPA	35	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PEPA	38	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PEPA	37.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981743	PFESA-BP1	23	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFESA-BP1	22	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	320-51045-3	PFESA-BP1	21.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Byproduct 5	0.091	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	Byproduct 5	0.11	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PFO2HxA	0.31	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO2HxA	0.33	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO2HxA	0.34	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PFO3OA	0.052	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO3OA	0.058	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PFO3OA	0.062	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	9982644	PMPA	0.44	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PMPA	1.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-020719	02/07/2019	320-51045-25	PMPA	1.3	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	R-EVE	0.99	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Byproduct 6	0.017	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Byproduct 6	0.018	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PFESA-BP2	0.26	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFESA-BP2	0.25	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFESA-BP2	0.27	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Hydro-EVE Acid	0.58	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	Hydro-EVE Acid	0.58	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PFMOAA	180	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFMOAA	164	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFMOAA	170.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PEPA	4.6	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PEPA	4.4	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PEPA	4.7	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PFO2HxA	46	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO2HxA	40	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO2HxA	42.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PFO3OA	13	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO3OA	9.6	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO3OA	9.8	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PFO4DA	2.6	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO4DA	2.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO4DA	2.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO5DA	0.092	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PFO5DA	0.082	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Hydro-EVE Acid	2.3	UG/L	PQL		0.056	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Hydro-EVE Acid	2.3	UG/L	PQL		0.056	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980836	PMPA	14	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PMPA	12	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	PMPA	13.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	NVHOS	1.6	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	320-51045-5	NVHOS	1.7	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PFO2HxA	62	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PFO2HxA	62	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO2HxA	64	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO2HxA	62.0	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PFO3OA	21	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PFO3OA	22	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO3OA	20	ug/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO3OA	20.0	ug/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PFO4DA	4.5	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PFO4DA	4.4	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO4DA	4.6	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO4DA	4.5	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO5DA	0.089	ug/L	PQL		0.067	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFO5DA	0.09	ug/L	PQL		0.067	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PMPA	16	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PMPA	15	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PMPA	16	UG/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PMPA	15.0	UG/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	NVHOS	2.0	UG/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	NVHOS	1.9	UG/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	R-EVE	1.9	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	R-EVE	1.8	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Byproduct 4	1.6	UG/L	PQL		0.32	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Byproduct 4	1.5	UG/L	PQL		0.32	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Byproduct 5	3.0	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	Byproduct 5	2.9	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFESA-BP2	0.59	ug/L	PQL		0.061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PEPA	4.7	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PEPA	4.7	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PEPA	5.1	UG/L	PQL		0.093	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PEPA	4.9	UG/L	PQL		0.093	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980828	PFMOAA	200	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980832	PFMOAA	200	ug/L	PQL		0.50	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFMOAA	196	ug/L	PQL		0.42	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	320-51045-4	PFMOAA	190.0	ug/L	PQL		0.42	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFMOAA	4.9	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFMOAA	5.2	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFMOAA	5.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	EVE Acid	64	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	EVE Acid	62.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFESA-BP2	4.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFESA-BP2	4.4	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFESA-BP2	4.3	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Hydro-EVE Acid	9.1	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Hydro-EVE Acid	8.8	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	R-EVE	16	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	R-EVE	16.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Byproduct 4	18	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Byproduct 4	17.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Byproduct 5	96	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Byproduct 5	89.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Byproduct 6	0.29	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	Byproduct 6	0.28	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFO2HxA	18	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO2HxA	17	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO2HxA	17.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFO3OA	4.9	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO3OA	4.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO3OA	3.8	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFO4DA	3.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO4DA	3.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO4DA	3.1	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFO5DA	2.8	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO5DA	2.6	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFO5DA	2.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PEPA	33	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PEPA	36	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PEPA	35.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PFESA-BP1	42	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFESA-BP1	40	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PFESA-BP1	37.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFMOAA	6.7	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFMOAA	6.8	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFMOAA	6.7	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFESA-BP2	6.2	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFESA-BP2	6.8	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFESA-BP2	6.8	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Hydro-EVE Acid	16	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Hydro-EVE Acid	16.0	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFO2HxA	24	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO2HxA	22	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO2HxA	22.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFO3OA	5.0	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO3OA	4.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO3OA	4.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFO4DA	3.8	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO4DA	3.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO4DA	3.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981755	PFO5DA	2.6	ug/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO5DA	2.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	PFO5DA	2.6	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981759	PMPA	66	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PMPA	71	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	PMPA	69.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	R-EVE	21	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	R-EVE	21.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Byproduct 4	24	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Byproduct 4	23.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Byproduct 5	171	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Byproduct 5	170.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Byproduct 6	0.50	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	Byproduct 6	0.51	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	NVHOS	6.3	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	320-51045-10	NVHOS	6.1	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982576	Total Dissolved Solids	113	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-A-2-020719	02/07/2019	9982570	Total Dissolved Solids	88.0	MG/L	MDL	20.0	60.0	J	2540 C-1997		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-8-020719	02/07/2019	9982621	Hfpo Dimer Acid	13	UG/L	PQL		1.9	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-7-020719	02/07/2019	9982617	Hfpo Dimer Acid	28	UG/L	PQL		1.7	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982613	Hfpo Dimer Acid	18	UG/L	PQL		1.7	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-5-020719	02/07/2019	9982609	Hfpo Dimer Acid	18	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-4-020719	02/07/2019	9982605	Hfpo Dimer Acid	17	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-2-020719	02/07/2019	9982597	Hfpo Dimer Acid	27	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982637	Hfpo Dimer Acid	20	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-11-020719	02/07/2019	9982633	Hfpo Dimer Acid	55	UG/L	PQL		1.7	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982629	Hfpo Dimer Acid	61	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FB-020719	02/07/2019	9982661	Hfpo Dimer Acid	0.0022	UG/L	PQL		0.0018	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981752	Hfpo Dimer Acid	82	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-B-3-E4-020619	02/06/2019	9981748	Hfpo Dimer Acid	10	UG/L	PQL		1.9	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981744	Hfpo Dimer Acid	58	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-B-1-020519	02/05/2019	9980817	Hfpo Dimer Acid	24	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982625	Hfpo Dimer Acid	57	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-B-2-020519	02/05/2019	9980821	Hfpo Dimer Acid	38	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-B-3-020619	02/06/2019	9981740	Hfpo Dimer Acid	40	UG/L	PQL		1.7	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-5-020719	02/07/2019	9982657	Hfpo Dimer Acid	0.033	UG/L	PQL		0.0017	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-4-020719	02/07/2019	9982653	Hfpo Dimer Acid	0.051	UG/L	PQL		0.0017	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-WC-2-020719	02/07/2019	9982645	Hfpo Dimer Acid	0.13	UG/L	PQL		0.0017	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980833	Hfpo Dimer Acid	17	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980825	Hfpo Dimer Acid	27	UG/L	PQL		1.8	J	EPA 537 Rev. 1.1 modified		537_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-C-1-020519	02/05/2019	9980829	Hfpo Dimer Acid	27	UG/L	PQL		1.7	J	EPA 537 Rev. 1.1 modified		537_Prep
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981756	Hfpo Dimer Acid	32	UG/L	PQL		1.9	J	EPA 537 Rev. 1.1 modified		537_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFO2HxA	58	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO2HxA	63	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFO2HxA	63.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFESA-BP1	46	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFESA-BP1	43	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFESA-BP1	43.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	R-EVE	0.87	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	R-EVE	0.96	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Byproduct 4	1.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Byproduct 4	1.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Byproduct 5	6.9	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	Byproduct 5	7.1	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFMOAA	15	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFMOAA	17	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFMOAA	18.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PFO2HxA	18	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO2HxA	20	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PFO2HxA	21.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	9982616	PMPA	29	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PMPA	38	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-6-020719	02/07/2019	320-51045-18	PMPA	39.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-12-020719	02/07/2019	9982580	Chloride	7.0	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-11-020719	02/07/2019	9982579	Chloride	9.6	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-OLDOF-4-020419	02/04/2019	9979903	Chloride	9.1	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-OLDOF-2L-020219	02/02/2019	9979927	PFO2HxA	23	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO2HxA	21	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2L-020219	02/02/2019	320-51031-2	PFO2HxA	21.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2J-020419	02/04/2019	9979895	Chloride	3.6	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PMPA	70	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PMPA	79	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PMPA	80.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981747	PEPA	36	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PEPA	42	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	PEPA	43.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	EVE Acid	46	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	320-51045-7	EVE Acid	46.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982577	Chloride	8.8	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PMPA	47	UG/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PMPA	50	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PMPA	50.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	9982628	PFMOAA	73	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFMOAA	75	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	PFMOAA	76.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	EVE Acid	22	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-9-020719	02/07/2019	320-51045-21	EVE Acid	22.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-5-020719	02/07/2019	9982587	Chloride	10.7	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-WC-4-020719	02/07/2019	9982586	Chloride	10.2	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-WC-3-020719	02/07/2019	9982585	Chloride	9.9	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-WC-2-020719	02/07/2019	9982584	Chloride	9.8	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-WC-1-020719	02/07/2019	9982583	Nitrate	0.89	MG/L	MDL	0.25	0.50	J	300.0		
FAY-SW-SEEP-C-1-A-020519	02/05/2019	9980787	Chloride	11.3	MG/L	MDL	1.0	2.0	J	300.0		
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	EVE Acid	75	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	320-51045-9	EVE Acid	75.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982578	Nitrate	0.48	MG/L	MDL	0.25	0.50	J	300.0		

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-4-020619	02/06/2019	9981702	Total Dissolved Solids	50.0	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981703	Alkalinity, Total	2.4	MG/L	MDL	1.7	5	J	2320 B-1997		
FAY-SW-SEEP-C-1-020519	02/05/2019	9980788	Ammonia	0.088	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-SEEP-B-4-A3-020619	02/06/2019	9981703	Total Dissolved Solids	57.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-C-1-020519-D	02/05/2019	9980792	Ammonia	0.088	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-SEEP-C-1-E2-020519	02/05/2019	9980793	Total Dissolved Solids	52.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-WC-1-020719	02/07/2019	9982583	Total Dissolved Solids	56.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-WC-1-020719	02/07/2019	9982583	Ammonia	0.085	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-WC-2-020719	02/07/2019	9982584	Ammonia	0.062	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-WC-2-020719	02/07/2019	9982584	Total Dissolved Solids	46.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-WC-4-020719	02/07/2019	9982586	Ammonia	0.060	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-WC-3-020719	02/07/2019	9982585	Ammonia	0.059	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-WC-5-020719	02/07/2019	9982587	Manganese	0.0184	MG/L	MDL	0.0011	0.0200	J	200.7 Rev. 4.4		200.7
FAY-SW-WC-5-020719	02/07/2019	9982587	Ammonia	0.058	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-WC-4-020719	02/07/2019	9982586	Total Dissolved Solids	50.0	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-WC-3-020719	02/07/2019	9982585	Total Dissolved Solids	53.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-B-2-020519	02/05/2019	9980785	Total Dissolved Solids	49.0	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-A-9-020719	02/07/2019	9982577	Manganese	0.0114	MG/L	MDL	0.0011	0.0200	J	200.7 Rev. 4.4		200.7
FAY-SW-SEEP-B-1-020519	02/05/2019	9980784	Ammonia	0.079	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-SEEP-B-3-A1-020619	02/06/2019	9981698	Total Dissolved Solids	42.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-B-3-020619	02/06/2019	9981695	Total Dissolved Solids	44.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FB-020119	02/01/2019	9978958	Chloride	0.23	MG/L	MDL	0.20	0.40	J	300.0		
FB-020519	02/05/2019	9980794	Calcium	0.0711	MG/L	MDL	0.0330	0.500	J	200.7 Rev. 4.4		200.7

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB-020219	02/02/2019	9979906	Magnesium	0.0328	MG/L	MDL	0.0190	0.100	J	200.7 Rev. 4.4		200.7
FB-020219	02/02/2019	9979906	Calcium	0.0871	MG/L	MDL	0.0330	0.500	J	200.7 Rev. 4.4		200.7
FB-020719	02/07/2019	9982590	Sodium	0.426	MG/L	MDL	0.326	1.00	J	200.7 Rev. 4.4		200.7
FB-020719	02/07/2019	9982590	Calcium	0.0542	MG/L	MDL	0.0330	0.500	J	200.7 Rev. 4.4		200.7
FAY-SW-WC-5-020719	02/07/2019	9982587	Total Dissolved Solids	47.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FB-020619	02/06/2019	9981706	Selenium	0.0250	MG/L	MDL	0.0210	0.0500	J	6010B		3005A
FB-020619	02/06/2019	9987495	Sodium	0.374	MG/L	MDL	0.326	1.00	J	200.7 Rev. 4.4		200.7
FB-020619	02/06/2019	9987495	Calcium	0.0817	MG/L	MDL	0.0330	0.500	J	200.7 Rev. 4.4		200.7
FAY-SW-OLDOF-2J-020419	02/04/2019	9979895	Manganese	0.0783	MG/L	MDL	0.0055	0.100	J	200.7 Rev. 4.4		200.7
FAY-SW-OLDOF-2J-020419	02/04/2019	9979895	Sodium	2.34	MG/L	MDL	1.63	5.00	J	200.7 Rev. 4.4		200.7
FAY-SW-OLDOF-2J-020419	02/04/2019	9979895	Calcium	1.41	MG/L	MDL	0.165	2.50	J	200.7 Rev. 4.4		200.7
FAY-SW-OLDOF-2J-020419	02/04/2019	9979895	Ammonia	0.076	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-OLDOF-2L-020419	02/04/2019	9979897	Nitrate	0.44	MG/L	MDL	0.25	0.50	J	300.0		
FAY-SW-OLDOF-2L-020419	02/04/2019	9979897	Ammonia	0.060	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-OLDOF-3-020419	02/04/2019	9979901	Nitrate	0.41	MG/L	MDL	0.25	0.50	J	300.0		
FAY-SW-OLDOF-3-020419	02/04/2019	9979901	Ammonia	0.052	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-OLDOF-4-020419	02/04/2019	9979903	Ammonia	0.055	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-OLDOF-4-020219	02/02/2019	9979902	Total Organic Carbon	0.98	MG/L	MDL	0.50	1.0	J	5310 C-2000		
FAY-SW-OLDOF-5K-020419	02/04/2019	9979913	Aluminum	0.227	MG/L	MDL	0.153	0.300	J	200.7 Rev. 4.4		200.7
FAY-SW-OLDOF-TR-1-1-020219	02/02/2019	9979892	Total Suspended Solids	2.69	MG/L	MDL	1.00	3.00	J	2540 D-1997		
FAY-SW-OLDOF-TR-1-1-020419	02/04/2019	9979893	Ammonia	0.065	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-SEEP-A-1-020719	02/07/2019	9987515	Nickel	0.0040	MG/L	MDL	0.0031	0.0100	J	6010B		3005A
FAY-SW-SEEP-A-1-020719	02/07/2019	9987515	Zinc	0.0181	MG/L	MDL	0.0030	0.0200	J	6010B		3005A

Site: Fayetteville **Sampling** SURFACE WATER 02/19 **Validation** LABSTATS

Validation Reason The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-10-020719	02/07/2019	9982578	Manganese	0.0095	MG/L	MDL	0.0011	0.0200	J	200.7 Rev. 4.4		200.7
FAY-SW-SEEP-A-11-020719	02/07/2019	9982579	Manganese	0.0162	MG/L	MDL	0.0011	0.0200	J	200.7 Rev. 4.4		200.7
FAY-SW-SEEP-A-11-020719	02/07/2019	9987516	Zinc	0.0173	MG/L	MDL	0.0030	0.0200	J	6010B		3005A
FAY-SW-SEEP-A-11-020719	02/07/2019	9982579	Ammonia	0.061	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-SEEP-A-12-020719	02/07/2019	9982580	Manganese	0.0157	MG/L	MDL	0.0011	0.0200	J	200.7 Rev. 4.4		200.7
FAY-SW-SEEP-A-12-020719	02/07/2019	9982580	Total Dissolved Solids	48.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-A-4-020719	02/07/2019	9982572	Ammonia	0.087	MG/L	MDL	0.050	0.10	J	350.1		
FAY-SW-SEEP-A-4-020719	02/07/2019	9982572	Total Dissolved Solids	58.0	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-A-5-020719	02/07/2019	9982573	Total Dissolved Solids	44.0	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-A-6-020719	02/07/2019	9982574	Total Dissolved Solids	39.5	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-A-7-020719	02/07/2019	9982575	Total Dissolved Solids	57.0	MG/L	MDL	20.0	60.0	J	2540 C-1997		
FAY-SW-SEEP-A-8-020719	02/07/2019	9982576	Ammonia	0.056	MG/L	MDL	0.050	0.10	J	350.1		

ADQM DATA REVIEW
NARRATIVE

Site **Chemours FAY – Fayetteville**

Project **Creeks Seeps Old Outfall 002 FI 5/19**

Project Reviewer **Michael Aucoin, AECOM as a Chemours contractor**

Sampling Dates **May 20-24, May 29-30, June 7, 2019**

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
TestAmerica - Sacramento	537 Modified	PFAS[1]
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds
TestAmerica - Sacramento	EPA 300	Fluoride

[1] Perfluoroalkylsubstances including HFPO-DA.

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on May 22-24, May 29-30, June 1, and June 11, 2019.

Data Review

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process.

Overall the data is acceptable for use without qualification, except as noted below:

- PFO5DA results in some field samples were qualified B and may be biased high, or may be false positives, due to a comparable concentration in the associated field blank.
- Table 3+ sample results were qualified J as estimated, and non-detect results were qualified UJ, and the reporting limit may be biased low, because the lab established holding time was exceeded.
- Several analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to matrix spike recovery outside criteria, and; poor field duplicate, lab replicate, or LCSD precision. Fluoride sample results between the MDL and PQL were qualified J as estimated. See the Data Verification Module (DVM) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DVM Narrative report is attached. The lab reports due to a large page count are stored on an AECOM network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- 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.**

DVM Narrative Report

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Contamination detected in Field Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated field blank(s).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO5DA	0.15	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO5DA	0.15	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO5DA	0.15	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO5DA	0.14	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-D1-2-052119	05/21/2019	280-124212-4	PFO5DA	0.36	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-D1-2-052119	05/21/2019	280-124212-4	PFO5DA	0.36	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	PFO5DA	0.23	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	PFO5DA	0.22	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO5DA	0.045	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO5DA	0.048	ug/L	PQL		0.034	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	N-ethylperfluoro-1-octanesulfonamide	0.0075	UG/L	PQL		0.0075	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	N-ethylperfluoro-1-octanesulfonamide	0.0075	UG/L	PQL		0.0075	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	EVE Acid	0.0049	UG/L	PQL		0.0049	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	EVE Acid	0.0049	UG/L	PQL		0.0049	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFECA-G	0.0082	UG/L	PQL		0.0082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFECA-G	0.0082	UG/L	PQL		0.0082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PES	0.0092	UG/L	PQL		0.0092	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PES	0.0092	UG/L	PQL		0.0092	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFECA B	0.012	UG/L	PQL		0.012	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFECA B	0.012	UG/L	PQL		0.012	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.012	ug/L	PQL		0.012	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.012	ug/L	PQL		0.012	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.022	ug/L	PQL		0.022	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.022	ug/L	PQL		0.022	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFESA-BP1	0.0053	UG/L	PQL		0.0053	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFESA-BP1	0.0053	UG/L	PQL		0.0053	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	N-methyl perfluoro-1-octanesulfonamide	0.0069	ug/L	PQL		0.0069	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	N-methyl perfluoro-1-octanesulfonamide	0.0069	ug/L	PQL		0.0069	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	2-(N-ethyl perfluoro-1-	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
FB7-053019	05/30/2019	280-124599-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB7-053019	05/30/2019	280-124599-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PES	0.0046	UG/L	PQL		0.0046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PES	0.0046	UG/L	PQL		0.0046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PMPA	0.057	UG/L	PQL		0.057	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PMPA	0.057	UG/L	PQL		0.057	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFECA B	0.0060	UG/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFECA B	0.0060	UG/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0060	ug/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0060	ug/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.011	ug/L	PQL		0.011	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.011	ug/L	PQL		0.011	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	N-methyl perfluoro-1-octanesulfonamide	0.0035	ug/L	PQL		0.0035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	N-methyl perfluoro-1-octanesulfonamide	0.0035	ug/L	PQL		0.0035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	N-ethylperfluoro-1-octanesulfonamide	0.0037	UG/L	PQL		0.0037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	N-ethylperfluoro-1-octanesulfonamide	0.0037	UG/L	PQL		0.0037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFECA-G	0.0041	UG/L	PQL		0.0041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFECA-G	0.0041	UG/L	PQL		0.0041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFECA B	0.045	UG/L	PQL		0.045	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFECA B	0.045	UG/L	PQL		0.045	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.045	ug/L	PQL		0.045	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.045	ug/L	PQL		0.045	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.082	ug/L	PQL		0.082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.082	ug/L	PQL		0.082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	N-methyl perfluoro-1-octanesulfonamide	0.026	ug/L	PQL		0.026	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	N-methyl perfluoro-1-octanesulfonamide	0.026	ug/L	PQL		0.026	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	N-ethylperfluoro-1-octanesulfonamide	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	N-ethylperfluoro-1-octanesulfonamide	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFECA-G	0.031	UG/L	PQL		0.031	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFECA-G	0.031	UG/L	PQL		0.031	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFECA B	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFECA B	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.12	ug/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.12	ug/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.22	ug/L	PQL		0.22	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.22	ug/L	PQL		0.22	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFESA-BP1	0.053	UG/L	PQL		0.053	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFESA-BP1	0.053	UG/L	PQL		0.053	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	N-methyl perfluoro-1-octanesulfonamide	0.069	ug/L	PQL		0.069	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	N-methyl perfluoro-1-octanesulfonamide	0.069	ug/L	PQL		0.069	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PES	0.092	UG/L	PQL		0.092	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PES	0.092	UG/L	PQL		0.092	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO5DA	0.067	ug/L	PQL		0.067	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO5DA	0.067	ug/L	PQL		0.067	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	N-ethylperfluoro-1-octanesulfonamide	0.075	UG/L	PQL		0.075	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	N-ethylperfluoro-1-octanesulfonamide	0.075	UG/L	PQL		0.075	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFECA-G	0.082	UG/L	PQL		0.082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFECA-G	0.082	UG/L	PQL		0.082	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	EVE Acid	0.049	UG/L	PQL		0.049	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	EVE Acid	0.049	UG/L	PQL		0.049	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PES	0.023	UG/L	PQL		0.023	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PES	0.023	UG/L	PQL		0.023	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFECA B	0.030	UG/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFECA B	0.030	UG/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	2-(N-ethyl perfluoro-1-	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.055	ug/L	PQL		0.055	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.055	ug/L	PQL		0.055	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	N-methyl perfluoro-1-octanesulfonamide	0.017	ug/L	PQL		0.017	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	N-methyl perfluoro-1-octanesulfonamide	0.017	ug/L	PQL		0.017	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	N-ethylperfluoro-1-octanesulfonamide	0.019	UG/L	PQL		0.019	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	N-ethylperfluoro-1-octanesulfonamide	0.019	UG/L	PQL		0.019	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFECA-G	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFECA-G	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFECA B	0.0060	UG/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFECA B	0.0060	UG/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0060	ug/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0060	ug/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.011	ug/L	PQL		0.011	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.011	ug/L	PQL		0.011	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	N-methyl perfluoro-1-octanesulfonamide	0.0035	ug/L	PQL		0.0035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	N-methyl perfluoro-1-octanesulfonamide	0.0035	ug/L	PQL		0.0035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PES	0.0046	UG/L	PQL		0.0046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PES	0.0046	UG/L	PQL		0.0046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	EVE Acid	0.0024	UG/L	PQL		0.0024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	EVE Acid	0.0024	UG/L	PQL		0.0024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFECA-G	0.0041	UG/L	PQL		0.0041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFECA-G	0.0041	UG/L	PQL		0.0041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PES	0.034	UG/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PES	0.034	UG/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-D1-2-052119	05/21/2019	280-124212-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-D1-2-052119	05/21/2019	280-124212-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-D1-2-052119	05/21/2019	280-124212-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-D1-2-052119	05/21/2019	280-124212-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119-D	05/21/2019	280-124212-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119-D	05/21/2019	280-124212-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119-D	05/21/2019	280-124212-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119-D	05/21/2019	280-124212-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119	05/21/2019	280-124212-5	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPA-5-B-1-052119	05/21/2019	280-124212-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119	05/21/2019	280-124212-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119	05/21/2019	280-124212-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119	05/21/2019	280-124212-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-4-052119	05/21/2019	280-124212-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-4-052119	05/21/2019	280-124212-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-4-052119	05/21/2019	280-124212-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-4-052119	05/21/2019	280-124212-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-TR1-052119	05/21/2019	280-124212-10	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-TR1-052119	05/21/2019	280-124212-10	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-TR1-052119	05/21/2019	280-124212-10	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-TR1-052119	05/21/2019	280-124212-10	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-TR2-052219	05/22/2019	280-124323-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
FAY-SW-WC-1-TR2-052219	05/22/2019	280-124323-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-3-TR2-052319	05/23/2019	280-124323-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-3-TR2-052319	05/23/2019	280-124323-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-3-TR3-052319	05/23/2019	280-124323-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-3-TR3-052319	05/23/2019	280-124323-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-4-TR1-052219	05/22/2019	280-124323-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-4-TR1-052219	05/22/2019	280-124323-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-4-TR1-052219	05/22/2019	280-124323-6	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-4-TR1-052219	05/22/2019	280-124323-6	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB1-052019	05/20/2019	280-124212-13	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB1-052019	05/20/2019	280-124212-13	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB1-052019	05/20/2019	280-124212-13	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB1-052019	05/20/2019	280-124212-13	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB2-052119	05/21/2019	280-124222-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB2-052119	05/21/2019	280-124222-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB2-052119	05/21/2019	280-124222-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FB2-052119	05/21/2019	280-124222-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB4-052319	05/23/2019	280-124323-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB4-052319	05/23/2019	280-124323-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB5-052419	05/24/2019	280-124472-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB5-052419	05/24/2019	280-124472-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB6-052919	05/29/2019	280-124472-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB6-052919	05/29/2019	280-124472-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB6-052919	05/29/2019	280-124472-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB6-052919	05/29/2019	280-124472-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019-D	05/20/2019	280-124212-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019-D	05/20/2019	280-124212-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EXCESS RIVER WATER-052019	05/20/2019	280-124212-11	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EXCESS RIVER WATER-052019	05/20/2019	280-124212-11	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EXCESS RIVER WATER-052019	05/20/2019	280-124212-11	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EXCESS RIVER WATER-052019	05/20/2019	280-124212-11	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-OUTFALL 002-052019	05/20/2019	280-124212-12	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-OUTFALL 002-052019	05/20/2019	280-124212-12	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-OUTFALL 002-052019	05/20/2019	280-124212-12	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-OUTFALL 002-052019	05/20/2019	280-124212-12	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
FAY-SW-CFR-RM-56-060719	06/07/2019	280-124971-10	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719	06/07/2019	280-124971-10	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-56-060719-D	06/07/2019	280-124971-11	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719-D	06/07/2019	280-124971-11	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-2-052919	05/29/2019	280-124472-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-2-052919	05/29/2019	280-124472-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-TR2-1-052919	05/29/2019	280-124472-8	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-TR2-1-052919	05/29/2019	280-124472-8	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-TR2-1-052919	05/29/2019	280-124472-8	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-TR2-1-052919	05/29/2019	280-124472-8	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-56-060719-D	06/07/2019	280-124971-11	Byproduct 4	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719-D	06/07/2019	280-124971-11	Byproduct 4	0.0081	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-060719	06/07/2019	280-124971-21	R-EVE	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-060719	06/07/2019	280-124971-21	R-EVE	0.004	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	R-EVE	0.024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	R-EVE	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	Byproduct 4	0.049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	Byproduct 4	0.05	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 5	0.0052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	Byproduct 5	0.0057	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Byproduct 4	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Byproduct 4	0.004	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Byproduct 5	0.012	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	Byproduct 5	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Byproduct 4	0.0049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Byproduct 4	0.0046	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-KINGS-052319-D	05/23/2019	280-124325-3	Byproduct 5	0.0083	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319-D	05/23/2019	280-124325-3	Byproduct 5	0.0085	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	R-EVE	0.0083	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	R-EVE	0.009	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	Byproduct 4	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	Byproduct 4	0.02	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	Byproduct 5	0.082	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	Byproduct 5	0.084	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-060719	06/07/2019	280-124971-22	R-EVE	0.0063	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-060719	06/07/2019	280-124971-22	R-EVE	0.0064	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-060719	06/07/2019	280-124971-22	Byproduct 4	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-060719	06/07/2019	280-124971-22	Byproduct 4	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-060719	06/07/2019	280-124971-22	Byproduct 5	0.069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-060719	06/07/2019	280-124971-22	Byproduct 5	0.065	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	R-EVE	0.0040	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	R-EVE	0.0042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Byproduct 5	0.031	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

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Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Byproduct 5	0.032	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	Byproduct 4	0.54	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	Byproduct 4	0.59	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	R-EVE	0.60	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	R-EVE	0.64	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	Byproduct 4	1.1	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	Byproduct 4	1.1	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	Byproduct 5	0.98	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR3-1-052119	05/21/2019	280-124222-1	Byproduct 5	0.99	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	R-EVE	0.57	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	R-EVE	0.62	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	Byproduct 4	0.96	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	Byproduct 4	0.99	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	Byproduct 5	1.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR2-1-052119	05/21/2019	280-124222-3	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	R-EVE	5.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	R-EVE	5.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	Byproduct 4	7.9	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	Byproduct 4	8.1	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	Byproduct 5	71	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	Byproduct 5	70.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	PMPA	61	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	PMPA	60.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	PMPA	24	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	PMPA	24.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	PFMOAA	103	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	PFMOAA	100.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019-D	05/20/2019	280-124212-2	PMPA	25	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-1-052019-D	05/20/2019	280-124212-2	PMPA	24.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	R-EVE	0.028	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	R-EVE	0.03	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Byproduct 4	0.041	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Byproduct 4	0.042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Byproduct 5	0.27	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Byproduct 5	0.26	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-EXCESS RIVER WATER-060719	06/07/2019	280-124971-12	R-EVE	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-EXCESS RIVER WATER-060719	06/07/2019	280-124971-12	R-EVE	0.0039	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-EXCESS RIVER WATER-060719	06/07/2019	280-124971-12	Byproduct 4	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-EXCESS RIVER WATER-060719	06/07/2019	280-124971-12	Byproduct 4	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-EXCESS RIVER WATER-060719	06/07/2019	280-124971-12	Byproduct 5	0.0056	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-EXCESS RIVER WATER-060719	06/07/2019	280-124971-12	Byproduct 5	0.0053	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	R-EVE	1.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	R-EVE	0.94	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	Byproduct 4	1.6	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	Byproduct 4	1.6	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	Byproduct 5	6.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	Byproduct 5	6.4	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	PMPA	38	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	PMPA	39.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	PFO3OA	14	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	PFO3OA	14.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	PFO3OA	7.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	PFO3OA	7.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PMPA	1.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PMPA	1.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PEPA	0.49	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PEPA	0.48	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PFO2HxA	0.69	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PFO2HxA	0.7	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PFO3OA	0.13	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919-D	05/29/2019	280-124472-10	PFO3OA	0.13	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719-D	06/07/2019	280-124971-11	Byproduct 5	0.0045	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719-D	06/07/2019	280-124971-11	Byproduct 5	0.005	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-052919	05/29/2019	280-124472-4	PMPA	1.3	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-052919	05/29/2019	280-124472-4	PMPA	1.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-052919	05/29/2019	280-124472-4	PEPA	0.30	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-052919	05/29/2019	280-124472-4	PEPA	0.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-052919	05/29/2019	280-124472-4	PFO2HxA	0.42	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-052919	05/29/2019	280-124472-4	PFO2HxA	0.41	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719	06/07/2019	280-124971-10	Byproduct 4	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-56-060719	06/07/2019	280-124971-10	Byproduct 4	0.0085	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719	06/07/2019	280-124971-10	Byproduct 5	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-060719	06/07/2019	280-124971-10	Byproduct 5	0.0081	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	R-EVE	0.010	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	R-EVE	0.01	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	Byproduct 4	0.020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	Byproduct 4	0.021	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	NVHOS	0.0062	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	NVHOS	0.0069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Hfpo Dimer Acid	15.0	UG/L	PQL		0.0070	J	537 Modified		3535_PFC
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Hfpo Dimer Acid	19.0	UG/L	PQL		0.0071	J	537 Modified		3535_PFC
FAY-SW-SEEPA-1-052019	05/20/2019	280-124212-1	Hfpo Dimer Acid	24.0	UG/L	PQL		0.0071	J	537 Modified		3535_PFC
FAY-SW-SEEPA-1-052019-D	05/20/2019	280-124212-2	Hfpo Dimer Acid	30.0	UG/L	PQL		0.0073	J	537 Modified		3535_PFC

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO5DA	0.11	ug/L	PQL		0.0034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO5DA	0.11	ug/L	PQL		0.0034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	N-ethylperfluoro-1-octanesulfonamide	0.0037	UG/L	PQL		0.0037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	N-ethylperfluoro-1-octanesulfonamide	0.0045	UG/L	PQL		0.0037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO5DA	2.0	ug/L	PQL		0.017	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO5DA	2.1	ug/L	PQL		0.017	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO5DA	8.0	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO5DA	7.9	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO5DA	4.6	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO5DA	4.8	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO5DA	0.57	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO5DA	0.59	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	PFO5DA	0.0020	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	PFO5DA	0.0027	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO5DA	0.12	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO5DA	0.12	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-4-052119	05/21/2019	280-124212-8	Hfpo Dimer Acid	20.0	UG/L	PQL		0.0040	J	537 Modified		3535_PFC

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPA-10-052019	05/20/2019	280-124212-3	Hfpo Dimer Acid	48.0	UG/L	PQL		0.0071	J	537 Modified		3535_PFC
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO5DA	0.061	ug/L	PQL		0.0034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO5DA	0.057	ug/L	PQL		0.0034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-TR1-052119	05/21/2019	280-124212-10	Hfpo Dimer Acid	0.062	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO5DA	0.0040	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO5DA	0.0039	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-5-B-1-052119	05/21/2019	280-124212-5	Hfpo Dimer Acid	0.042	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
FAY-SW-SEEPA-5-052119	05/21/2019	280-124212-9	Hfpo Dimer Acid	29.0	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
FAY-SW-SEEPA-5-B-1-052119-D	05/21/2019	280-124212-6	Hfpo Dimer Acid	0.038	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
FAY-SW-SEEPA-5-D1-2-052119	05/21/2019	280-124212-4	Hfpo Dimer Acid	12.0	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	Hfpo Dimer Acid	12.0	UG/L	PQL		0.0040	J	537 Modified		3535_PFC

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PES	0.046	UG/L	PQL		0.046	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PES	0.21	UG/L	PQL		0.046	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFECA B	0.060	UG/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFECA B	0.17	UG/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.17	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	N-methyl perfluoro-1-octanesulfonamide	0.14	ug/L	PQL		0.035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	N-ethylperfluoro-1-octanesulfonamide	0.12	UG/L	PQL		0.037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFECA-G	0.041	UG/L	PQL		0.041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFECA-G	0.21	UG/L	PQL		0.041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Byproduct 6	0.38	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Byproduct 6	0.47	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919	05/29/2019	280-124472-9	PMPA	1.6	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-5-052919	05/29/2019	280-124472-9	PMPA	2.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-RM-68-060719	06/07/2019	280-124971-20	R-EVE	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-68-060719	06/07/2019	280-124971-20	R-EVE	0.038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-68-060719	06/07/2019	280-124971-20	Byproduct 4	0.020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-68-060719	06/07/2019	280-124971-20	Byproduct 4	0.027	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-68-060719	06/07/2019	280-124971-20	Byproduct 5	0.32	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-68-060719	06/07/2019	280-124971-20	Byproduct 5	0.53	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-060719	06/07/2019	280-124971-21	Byproduct 4	0.0079	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-060719	06/07/2019	280-124971-21	Byproduct 4	0.0095	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-060719	06/07/2019	280-124971-21	Byproduct 5	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-060719	06/07/2019	280-124971-21	Byproduct 5	0.03	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	PFMOAA	0.14	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-GBC-1-060719	06/07/2019	280-124971-4	PFMOAA	0.16	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PMPA	0.010	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PMPA	0.021	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Byproduct 5	0.0079	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	Byproduct 5	0.0094	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	Byproduct 5	0.0076	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	Byproduct 5	0.0086	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	NVHOS	0.0076	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	NVHOS	0.012	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Byproduct 4	0.0096	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	Byproduct 4	0.0084	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	R-EVE	0.26	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-A-TR4-1-052119	05/21/2019	280-124222-4	R-EVE	0.32	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-052119	05/21/2019	280-124257-1	R-EVE	2.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-052119	05/21/2019	280-124257-1	R-EVE	1.6	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-052119	05/21/2019	280-124257-1	Byproduct 4	2.9	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-052119	05/21/2019	280-124257-1	Byproduct 4	2.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-052119	05/21/2019	280-124257-1	Byproduct 5	21	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-1-052119	05/21/2019	280-124257-1	Byproduct 5	16.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2 -052119	05/21/2019	280-124257-2	PFMOAA	11	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2 -052119	05/21/2019	280-124257-2	PFMOAA	12.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2 -052119	05/21/2019	280-124257-2	Byproduct 5	56	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2 -052119	05/21/2019	280-124257-2	Byproduct 5	47.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-B-2 - 052119	05/21/2019	280-124257-2	Byproduct 6	0.25	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-2 - 052119	05/21/2019	280-124257-2	Byproduct 6	0.29	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-052319	05/23/2019	280-124325-4	PFO5DA	0.097	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-052319	05/23/2019	280-124325-4	PFO5DA	0.07	ug/L	PQL		0.050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-052319	05/23/2019	280-124325-4	Byproduct 6	0.052	UG/L	PQL		0.023	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-C-1-052319	05/23/2019	280-124325-4	Byproduct 6	0.035	UG/L	PQL		0.023	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	R-EVE	1.8	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	R-EVE	1.4	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	Byproduct 4	3.9	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	Byproduct 4	2.9	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	Byproduct 5	37	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	Byproduct 5	29.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	NVHOS	0.28	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-TR1-052119	05/21/2019	280-124212-7	NVHOS	0.21	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	R-EVE	0.50	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	R-EVE	0.34	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	Byproduct 4	0.88	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	Byproduct 4	0.62	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	Byproduct 5	1.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	Byproduct 5	0.79	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR2-052119	05/21/2019	280-124257-4	Byproduct 4	6.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR2-052119	05/21/2019	280-124257-4	Byproduct 4	5.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR2-052119	05/21/2019	280-124257-4	Byproduct 5	34	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR2-052119	05/21/2019	280-124257-4	Byproduct 5	28.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Byproduct 5	0.22	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	Byproduct 5	0.26	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PMPA	37	UG/L	PQL		0.43	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PMPA	35.0	UG/L	PQL		0.43	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Hfpo Dimer Acid	40	UG/L	PQL		0.064	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PMPA	35	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PMPA	35.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFMOAA	157	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFMOAA	150.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	EVE Acid	4.3	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	EVE Acid	4.4	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFESA-BP2	0.94	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFESA-BP2	0.93	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Hydro-EVE Acid	2.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Hydro-EVE Acid	2.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO2HxA	39	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO2HxA	39.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO3OA	8.8	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO3OA	8.7	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO4DA	1.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO4DA	1.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO5DA	0.27	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFO5DA	0.26	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PEPA	15	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PEPA	15.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFESA-BP1	2.9	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	PFESA-BP1	2.8	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	R-EVE	3.2	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	R-EVE	3.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Byproduct 4	3.9	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Byproduct 4	3.7	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Byproduct 5	34	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Byproduct 5	32.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Byproduct 6	0.078	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	Byproduct 6	0.074	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	NVHOS	7.7	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	NVHOS	8.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PMPA	87	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PMPA	87.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Hfpo Dimer Acid	85	UG/L	PQL		0.086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.18	ug/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PEPA	50	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PEPA	49.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFESA-BP1	17	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFESA-BP1	17.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO2HxA	18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO2HxA	18.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO3OA	4.2	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO3OA	4.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO4DA	2.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO4DA	2.6	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO5DA	1.2	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFO5DA	1.3	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFMOAA	13	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFMOAA	12.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	EVE Acid	24	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	EVE Acid	26.0	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFESA-BP2	3.8	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	PFESA-BP2	3.9	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Hydro-EVE Acid	8.9	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Hydro-EVE Acid	9.0	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Hfpo Dimer Acid (trial)	84.0	UG/L	PQL		0.086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	R-EVE	11	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	R-EVE	11.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Byproduct 4	12	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Byproduct 4	12.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Byproduct 5	74	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-2-060719	06/07/2019	280-124971-19	Byproduct 5	72.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	NVHOS	4.3	UG/L	PQL		0.040	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	NVHOS	4.1	UG/L	PQL		0.040	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Hfpo Dimer Acid (trial)	4.9	UG/L	PQL		0.0086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	R-EVE	0.17	UG/L	PQL		0.0070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	R-EVE	0.16	UG/L	PQL		0.0070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Byproduct 4	0.29	UG/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Byproduct 4	0.27	UG/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Byproduct 5	0.30	UG/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Byproduct 5	0.29	UG/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Byproduct 6	0.0052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Byproduct 6	0.0049	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	NVHOS	3.2	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-1-060719	06/07/2019	280-124971-16	NVHOS	3.2	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFESA-BP2	0.14	ug/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFESA-BP2	0.13	ug/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Hydro-EVE Acid	0.062	UG/L	PQL		0.0028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Hydro-EVE Acid	0.059	UG/L	PQL		0.0028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PMPA	5.2	UG/L	PQL		0.057	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PMPA	5.0	UG/L	PQL		0.057	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	Hfpo Dimer Acid	5.0	UG/L	PQL		0.0086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO2HxA	5.8	ug/L	PQL		0.0081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO2HxA	5.5	ug/L	PQL		0.0081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO3OA	1.3	ug/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO3OA	1.3	ug/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO4DA	0.47	ug/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFO4DA	0.43	ug/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFMOAA	7.9	ug/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFMOAA	7.6	ug/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PEPA	1.9	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PEPA	1.8	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFESA-BP1	0.0055	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	PFESA-BP1	0.0047	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Hfpo Dimer Acid (trial)	19.0	UG/L	PQL		0.043	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	R-EVE	0.95	UG/L	PQL		0.035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	R-EVE	0.93	UG/L	PQL		0.035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Byproduct 4	1.4	UG/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Byproduct 4	1.4	UG/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Byproduct 5	6.2	UG/L	PQL		0.029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Byproduct 5	6.5	UG/L	PQL		0.029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Byproduct 6	0.029	UG/L	PQL		0.0077	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Byproduct 6	0.031	UG/L	PQL		0.0077	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	NVHOS	0.11	UG/L	PQL		0.0054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-TR1-1-060719	06/07/2019	280-124971-8	NVHOS	0.1	UG/L	PQL		0.0054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFMOAA	59	ug/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFMOAA	61.0	ug/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	EVE Acid	0.087	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	EVE Acid	0.092	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFESA-BP2	0.77	ug/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFESA-BP2	0.77	ug/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Hydro-EVE Acid	0.70	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Hydro-EVE Acid	0.73	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO2HxA	25	ug/L	PQL		0.041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO2HxA	26.0	ug/L	PQL		0.041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO3OA	6.9	ug/L	PQL		0.029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO3OA	7.1	ug/L	PQL		0.029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO4DA	2.6	ug/L	PQL		0.039	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFO4DA	2.6	ug/L	PQL		0.039	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PEPA	11	UG/L	PQL		0.023	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PEPA	11.0	UG/L	PQL		0.023	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFESA-BP1	0.38	UG/L	PQL		0.013	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PFESA-BP1	0.37	UG/L	PQL		0.013	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PMPA	25	UG/L	PQL		0.28	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	PMPA	26.0	UG/L	PQL		0.28	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	Hfpo Dimer Acid	19	UG/L	PQL		0.043	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PMPA	25	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PMPA	25.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Hfpo Dimer Acid	34	UG/L	PQL		0.086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Hfpo Dimer Acid (trial)	34.0	UG/L	PQL		0.086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	R-EVE	1.7	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	R-EVE	1.6	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Byproduct 4	3.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Byproduct 4	2.9	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Byproduct 5	33	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Byproduct 5	33.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Byproduct 6	0.088	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Byproduct 6	0.088	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	NVHOS	0.76	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-4-060719	06/07/2019	280-124971-9	NVHOS	0.79	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFMOAA	122	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFMOAA	120.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	EVE Acid	1.8	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	EVE Acid	1.8	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFESA-BP2	2.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFESA-BP2	2.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Hydro-EVE Acid	2.6	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	Hydro-EVE Acid	2.6	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO2HxA	48	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO2HxA	47.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO3OA	17	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO3OA	17.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO4DA	8.9	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFO4DA	8.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PEPA	9.8	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PEPA	9.7	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFESA-BP1	11	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	PFESA-BP1	11.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Byproduct 4	1.7	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Byproduct 4	1.7	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Byproduct 5	18	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Byproduct 5	17.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Byproduct 6	0.050	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Byproduct 6	0.05	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	NVHOS	1.7	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-3-060719	06/07/2019	280-124971-7	NVHOS	1.7	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFMOAA	72	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFMOAA	72.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	EVE Acid	0.97	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	EVE Acid	0.97	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFESA-BP2	1.3	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFESA-BP2	1.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Hydro-EVE Acid	1.4	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	Hydro-EVE Acid	1.4	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO2HxA	30	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO2HxA	29.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO3OA	11	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO3OA	11.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO4DA	5.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFO4DA	5.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PEPA	6.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PEPA	6.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFESA-BP1	5.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PFESA-BP1	5.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PMPA	17	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	PMPA	17.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PMPA	5.4	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PMPA	5.6	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	R-EVE	0.20	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	R-EVE	0.22	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Byproduct 4	0.39	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Byproduct 4	0.39	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Byproduct 5	1.1	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Byproduct 5	1.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Byproduct 6	0.015	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Byproduct 6	0.015	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	NVHOS	1.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP A-1-060719	06/07/2019	280-124971-6	NVHOS	1.0	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFMOAA	91	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFMOAA	93.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	EVE Acid	0.024	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	EVE Acid	0.025	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFESA-BP2	0.35	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFESA-BP2	0.36	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Hydro-EVE Acid	0.20	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	Hydro-EVE Acid	0.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO2HxA	18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO2HxA	18.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO3OA	4.7	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO3OA	4.9	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO4DA	1.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFO4DA	1.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PEPA	1.8	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PEPA	1.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFESA-BP1	0.30	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	PFESA-BP1	0.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	NVHOS	0.90	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-060719	06/07/2019	280-124971-2	NVHOS	0.92	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	NVHOS	0.0041	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	NVHOS	0.004	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO2HxA	0.0035	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-76-052219	05/22/2019	280-124268-3	PFO2HxA	0.0029	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	NVHOS	0.0028	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-56-052219	05/22/2019	280-124268-1	NVHOS	0.0027	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO2HxA	0.0020	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-RM-08-052219	05/22/2019	280-124268-2	PFO2HxA	0.0028	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PMPA	0.031	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PMPA	0.032	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFMOAA	0.13	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFMOAA	0.14	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	NVHOS	0.0061	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	NVHOS	0.0063	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO2HxA	0.040	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO2HxA	0.041	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO3OA	0.0099	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO3OA	0.01	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO4DA	0.0035	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-BLADEN-052219	05/22/2019	280-124268-4	PFO4DA	0.0036	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	NVHOS	0.81	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	NVHOS	0.81	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFESA-BP2	0.39	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFESA-BP2	0.38	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Hydro-EVE Acid	1.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Hydro-EVE Acid	1.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFMOAA	90	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFMOAA	86.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO2HxA	24	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO2HxA	24.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO3OA	7.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO3OA	7.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO4DA	1.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PFO4DA	1.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PEPA	2.4	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PEPA	2.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PMPA	7.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	PMPA	7.1	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFESA-BP2	0.66	ug/L	PQL		0.061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFESA-BP2	0.62	ug/L	PQL		0.061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Hydro-EVE Acid	2.1	UG/L	PQL		0.056	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Hydro-EVE Acid	2.0	UG/L	PQL		0.056	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	R-EVE	1.9	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	R-EVE	2.0	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Byproduct 4	1.5	UG/L	PQL		0.32	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Byproduct 4	1.5	UG/L	PQL		0.32	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Byproduct 5	3.1	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Byproduct 5	2.8	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Byproduct 6	0.040	UG/L	PQL		0.031	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	Byproduct 6	0.041	UG/L	PQL		0.031	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	NVHOS	0.90	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	NVHOS	0.86	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFMOAA	199	ug/L	PQL		0.42	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFMOAA	190.0	ug/L	PQL		0.42	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PMPA	13	UG/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PMPA	12.0	UG/L	PQL		1.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO2HxA	56	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO2HxA	54.0	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO3OA	17	ug/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO3OA	17.0	ug/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO4DA	3.6	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PFO4DA	3.5	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PEPA	4.0	UG/L	PQL		0.093	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	PEPA	3.9	UG/L	PQL		0.093	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Hfpo Dimer Acid (trial)	38.0	UG/L	PQL		0.064	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	R-EVE	5.7	UG/L	PQL		0.053	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	R-EVE	5.2	UG/L	PQL		0.053	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Byproduct 4	6.0	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Byproduct 4	5.6	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Byproduct 5	37	UG/L	PQL		0.044	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Byproduct 5	35.0	UG/L	PQL		0.044	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Byproduct 6	0.13	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Byproduct 6	0.12	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	NVHOS	2.1	UG/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP C-1-060719	06/07/2019	280-124971-1	NVHOS	2.0	UG/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFMOAA	82	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFMOAA	77.0	ug/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	EVE Acid	2.1	UG/L	PQL		0.018	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	EVE Acid	1.9	UG/L	PQL		0.018	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFESA-BP2	1.4	ug/L	PQL		0.023	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFESA-BP2	1.3	ug/L	PQL		0.023	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Hydro-EVE Acid	3.9	UG/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	Hydro-EVE Acid	3.8	UG/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO2HxA	27	ug/L	PQL		0.061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO2HxA	25.0	ug/L	PQL		0.061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO3OA	4.9	ug/L	PQL		0.044	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO3OA	4.7	ug/L	PQL		0.044	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO4DA	1.3	ug/L	PQL		0.059	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO4DA	1.2	ug/L	PQL		0.059	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO5DA	0.38	ug/L	PQL		0.025	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFO5DA	0.34	ug/L	PQL		0.025	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PEPA	19	UG/L	PQL		0.035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PEPA	18.0	UG/L	PQL		0.035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFESA-BP1	2.3	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP B-TR2-060719	06/07/2019	280-124971-18	PFESA-BP1	2.1	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PEPA	2.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PEPA	2.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	R-EVE	1.0	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	R-EVE	0.97	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Byproduct 4	0.84	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Byproduct 4	0.83	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Byproduct 5	2.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Byproduct 5	2.1	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Byproduct 6	0.017	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP D-1-060719	06/07/2019	280-124971-5	Byproduct 6	0.017	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PMPA	9.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PMPA	8.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFESA-BP2	0.32	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFESA-BP2	0.32	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Hydro-EVE Acid	1.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Hydro-EVE Acid	1.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Byproduct 4	0.97	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Byproduct 4	0.91	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Byproduct 5	2.6	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Byproduct 5	2.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Byproduct 6	0.015	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	Byproduct 6	0.015	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	NVHOS	0.80	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	NVHOS	0.77	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO2HxA	29	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO2HxA	29.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO3OA	7.9	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO3OA	7.7	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO4DA	2.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFO4DA	2.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PMPA	9.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PMPA	9.1	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFMOAA	91	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019	05/30/2019	280-124599-1	PFMOAA	90.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO2HxA	29	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO2HxA	28.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO3OA	8.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO3OA	7.9	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO4DA	2.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFO4DA	2.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PEPA	3.0	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PEPA	2.9	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	R-EVE	1.1	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Byproduct 4	1.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Byproduct 4	1.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Byproduct 5	2.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Byproduct 5	2.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFESA-BP2	0.34	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFESA-BP2	0.32	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Hydro-EVE Acid	1.3	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	Hydro-EVE Acid	1.2	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFMOAA	91	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-D-1-053019-D	05/30/2019	280-124599-2	PFMOAA	88.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	R-EVE	0.015	UG/L	PQL		0.0070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	R-EVE	0.014	UG/L	PQL		0.0070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Byproduct 4	0.11	UG/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Byproduct 4	0.11	UG/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Byproduct 5	0.56	UG/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Byproduct 5	0.55	UG/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Byproduct 6	0.0040	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Byproduct 6	0.0039	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFMOAA	0.48	ug/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFMOAA	0.47	ug/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	EVE Acid	0.0028	UG/L	PQL		0.0024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	EVE Acid	0.0024	UG/L	PQL		0.0024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFESA-BP2	0.21	ug/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFESA-BP2	0.21	ug/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Hydro-EVE Acid	0.0045	UG/L	PQL		0.0028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Hydro-EVE Acid	0.0041	UG/L	PQL		0.0028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO2HxA	0.11	ug/L	PQL		0.0081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO2HxA	0.11	ug/L	PQL		0.0081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO3OA	0.055	ug/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO3OA	0.053	ug/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO4DA	0.046	ug/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFO4DA	0.044	ug/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFESA-BP1	0.014	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	PFESA-BP1	0.014	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	NVHOS	0.042	UG/L	PQL		0.0054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	NVHOS	0.041	UG/L	PQL		0.0054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFESA-BP2	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFESA-BP2	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Hydro-EVE Acid	0.0054	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	Hydro-EVE Acid	0.0053	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFMOAA	0.81	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFMOAA	0.82	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO3OA	0.067	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO3OA	0.066	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO4DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO4DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO5DA	0.037	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FB7-053019	05/30/2019	280-124599-4	PFO5DA	0.034	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO2HxA	15	ug/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO2HxA	15.0	ug/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO3OA	3.5	ug/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO3OA	3.6	ug/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO4DA	1.5	ug/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO4DA	1.6	ug/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO5DA	0.16	ug/L	PQL		0.0067	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFO5DA	0.16	ug/L	PQL		0.0067	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PEPA	16	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PEPA	16.0	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PMPA	34	UG/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PMPA	35.0	UG/L	PQL		0.11	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Hfpo Dimer Acid	19	UG/L	PQL		0.017	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	NVHOS	0.21	UG/L	PQL		0.011	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	NVHOS	0.21	UG/L	PQL		0.011	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO2HxA	0.73	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO2HxA	0.75	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO3OA	0.12	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFO3OA	0.12	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PEPA	0.24	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PEPA	0.23	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Hfpo Dimer Acid (trial)	19.0	UG/L	PQL		0.017	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	R-EVE	0.82	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	R-EVE	0.81	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Byproduct 4	1.2	UG/L	PQL		0.032	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Byproduct 4	1.2	UG/L	PQL		0.032	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Byproduct 5	0.11	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Byproduct 5	0.12	UG/L	PQL		0.012	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Byproduct 6	0.0086	UG/L	PQL		0.0031	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Byproduct 6	0.0088	UG/L	PQL		0.0031	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFESA-BP2	0.18	ug/L	PQL		0.0061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFESA-BP2	0.18	ug/L	PQL		0.0061	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Hydro-EVE Acid	0.083	UG/L	PQL		0.0056	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	Hydro-EVE Acid	0.08	UG/L	PQL		0.0056	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFMOAA	17	ug/L	PQL		0.042	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-060719	06/07/2019	280-124971-17	PFMOAA	17.0	ug/L	PQL		0.042	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PEPA	0.14	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PEPA	0.14	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	NVHOS	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	NVHOS	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PMPA	1.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PMPA	1.1	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFMOAA	1.4	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-053019	05/30/2019	280-124599-3	PFMOAA	1.5	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-OLDOF-2-052419	05/24/2019	280-124472-2	R-EVE	0.17	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-OLDOF-2-052419	05/24/2019	280-124472-2	R-EVE	0.17	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	PFMOAA	0.0078	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319	05/23/2019	280-124325-2	PFMOAA	0.0081	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	PFMOAA	0.23	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-060719	06/07/2019	280-124971-23	PFMOAA	0.24	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3A-052119	05/21/2019	280-124257-5	PFESA-BP1	58	UG/L	PQL		0.13	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3A-052119	05/21/2019	280-124257-5	PFESA-BP1	61.0	UG/L	PQL		0.13	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3A-052119	05/21/2019	280-124257-5	R-EVE	19	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3A-052119	05/21/2019	280-124257-5	R-EVE	19.0	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3A-052119	05/21/2019	280-124257-5	Byproduct 4	22	UG/L	PQL		0.79	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEP-B-3A-052119	05/21/2019	280-124257-5	Byproduct 4	23.0	UG/L	PQL		0.79	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	PFMOAA	118	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPA-3-052119	05/21/2019	280-124212-14	PFMOAA	120.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO2HxA	0.42	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PFO2HxA	0.42	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	PFMOAA	38	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-SEEPB-TR1-052119	05/21/2019	280-124257-3	PFMOAA	42.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PMPA	0.54	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-WC-1-060719	06/07/2019	280-124971-3	PMPA	0.54	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the rejection level. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-CFR-KINGS-052319-D	05/23/2019	280-124325-3	PFMOAA	0.0084	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-CFR-KINGS-052319-D	05/23/2019	280-124325-3	PFMOAA	0.0085	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Creeks Seeps Old Outfall 002 FI 5/19 **Validation** LABSTATS

Validation Reason The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
WSTW-EXCESS RIVER WATER-060719	06/07/2019	280-124971-12	Fluoride	0.12	MG/L	MDL	0.060	0.50	J	300.0		
WSTW-OUTFALL 002-060719	06/07/2019	280-124971-13	Fluoride	0.15	MG/L	MDL	0.060	0.50	J	300.0		
FAY-SW-CFR-BLADEN-060719	06/07/2019	280-124971-22	Fluoride	0.12	MG/L	MDL	0.060	0.50	J	300.0		
FAY-SW-CFR-RM-56-060719-D	06/07/2019	280-124971-11	Fluoride	0.13	MG/L	MDL	0.060	0.50	J	300.0		
FAY-SW-CFR-RM-56-060719	06/07/2019	280-124971-10	Fluoride	0.14	MG/L	MDL	0.060	0.50	J	300.0		
FAY-SW-CFR-RM-68-060719	06/07/2019	280-124971-20	Fluoride	0.13	MG/L	MDL	0.060	0.50	J	300.0		
FAY-SW-CFR-RM-76-060719	06/07/2019	280-124971-21	Fluoride	0.13	MG/L	MDL	0.060	0.50	J	300.0		

ATTACHMENT 3:

Assessment of HFPO-DA and PFMOAA in Outfall 002 Discharge and Evaluation of Potential Control Options

Geosyntec consultants

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

ASSESSMENT OF HFPO-DA AND PFMOAA IN OUTFALL 002 DISCHARGE AND EVALUATION OF POTENTIAL CONTROL OPTIONS

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August 2019

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ACRONYMS AND ABBREVIATIONS

HDPE	High Density Polyethylene
HFPO-DA	Hexafluoropropylene oxide dimer acid
IXM	Ion Exchange Membrane
ng/L	Nanograms per Liter
NCCW	Non-contact Cooling Water
NCDEQ	The North Carolina Department of Environmental Quality
PFAS	Per- and polyfluoroalkyl substances
PFMOAA	perfluoro-2-methoxyacetic acid
PPA	Polymer Processing Aid
SOP	Standard Operating Procedure
SWMM	Stormwater Management Model
SWPPP	Stormwater Pollution Prevention Plan
TSS	Total Suspended Solids
WWTP	Wastewater Treatment Plant
VEN	Vinyl Ethers North

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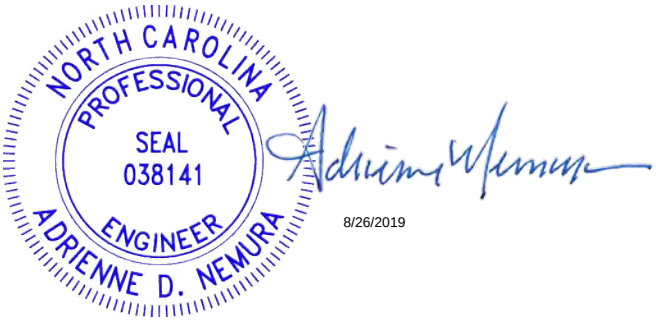
This report has been prepared under the direction of a North Carolina Licensed Engineer, subject to limitations of currently available data in an ongoing site investigation. Geosyntec Consultants of NC, PC is licensed to practice geology in North Carolina. The certification number (Firm's License Number) is C-295. Geosyntec Consultants of NC, PC is licensed to practice engineering in North Carolina. The certification number (Firm's License Number) is C-3500.



8/26/2019

Not considered final until all signatures have been applied.

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NC License No.: C-3500 and C-295

EXECUTIVE SUMMARY

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this report for The Chemours Company FC, LLC (Chemours) to provide an assessment of hexafluoropropylene oxide dimer acid (HFPO-DA) and perfluoro-2-methoxyacetic acid (PFMOAA) detected at Outfall 002 at Chemours Fayetteville Works (the Site). This report is one of four supporting attachments to the *Cape Fear River PFAS Loading Reduction Plan* (Reduction Plan; Geosyntec, 2019a) required by Paragraph 12 of the Consent Order among Chemours, the North Carolina Department of Environmental Quality (NCDEQ) and Cape Fear River Watch. This report has been prepared to present data and a technical analysis related to Outfall 002 to support actions Chemours is proposing in the Reduction Plan along with an evaluation of Consent Order Paragraph 12(d) requirements to assess the potential to reduce HFPO-DA and PFMOAA.

The Site is adjacent to the Cape Fear River and draws water from the Cape Fear River, the majority of which is used as non-contact cooling water (NCCW) and is then transported through the Site Conveyance Network and returned to the river via Outfall 002. Prior to June 2017, Outfall 002 represented the primary transport pathway by which per- and polyfluoroalkyl substances (PFAS) originating from the Facility reached the river. Actions taken by Chemours to divert process wastewater flows away from Outfall 002 reduced HFPO-DA loads to the river by over 95% from pre-June 2017 to 2019, as presented in the Reduction Plan. At present, under normal operating conditions, Outfall 002 contributes between 1% and 4% of the loads of HFPO-DA and PFMOAA observed in the Cape Fear River (Geosyntec, 2019b). The remaining fraction is predominantly the result of historical air deposition. Chemours is implementing air emissions controls to reduce facility-wide PFAS air emissions by 99%. Over time this action, in addition to the actions proposed in the Reduction Plan, will further reduce PFAS at Outfall 002.

Chemours is conducting bimonthly sampling of the Site Conveyance Network pursuant to Consent Order Paragraph 11(c) to assess sources of loading and variability over time in the conveyance network. Chemours has also conducted stormwater sampling at 24 locations during one rainfall event to characterize distributions of HFPO-DA and PFMOAA in stormwater. Chemours is planning to conduct two more stormwater sampling events to further characterize stormwater loads and sources.

Results to date indicate HFPO-DA and PFMOAA loads to Outfall 002 are dominated by three general source categories:

- river intake loading – loading of HFPO-DA and PFMOAA in water drawn from the Cape Fear River;

- dry weather loading – additional loading contributed to flows passing through the Site Conveyance Network;
- stormwater loading – loading added, during wet weather only, from stormwater runoff entering the Site Conveyance Network.

Estimated load percentages of the total load attributable to each category, for the 2018 calendar year, are shown in the table that follows. The process for deriving these estimates based on measured flows and concentrations from the intake and Outfall 002 is described in the report.

Loading Type	HFPO-DA	PFMOAA
River Intake	11%	48%
Dry Weather	44%	21%
Stormwater	45%	31%

The two bimonthly, dry weather sampling events performed to date indicate dry weather loads primarily originate from the open section of the Cooling Water Channel in the Chemours Monomers Ion Exchange Membrane (IXM) manufacturing area and the Open Channel to Outfall 002 near the DuPont Area. Loads from the Chemours Monomers IXM Manufacturing Area may potentially be added from sediments in the Cooling Water Channel and/or other unknown sources. Loads from the Open Channel to Outfall 002 near the DuPont Area may potentially be added by sediments in the channel and/or potential groundwater intrusion. Estimated facility-based loading from these two sources (river intake loads excluded) along with loads from the Wood Lined Trench that transmits NCCW and Wastewater Treatment Plant (WWTP) effluent, are presented for the two 2019 dry weather sampling events in the table below.

	April Event		June Event	
Facility HFPO-DA Dry Weather Loading Source	Load[1] (lbs/day)	% of Total Load at Outfall 002	Load[1] (lbs/day)	% of Total Load at Outfall 002
Wood Lined Trench	0	0%	0.00031	5%
Cooling Water Channel	0.0020	24%	0.0031	48%
Wastewater Treatment Plant Effluent	0.00058	7%	0.00055	9%
Open Channel to Outfall 002	0.0057	69%	0.0025	38%

[1] Loads are calculated based on concentrations measured during the dry weather sampling events and estimated flows on the day sampling occurred from each loading source (using measured flow at Outfall 002 on the day sampling occurred and typical flows from the various loading sources, based on data from December 2017 through May 2019).

Stormwater grab sampling results indicated the highest stormwater concentrations were associated with areas in the Chemours Monomers IXM Area, the Chemours Polymer Processing Aid (PPA) Area and near the WWTP. Detailed stormwater modeling analyses and additional sampling events are underway to determine the relative loadings associated with stormwater from different areas onsite.

Existing abatement of air emissions are expected to further reduce both dry weather and stormwater loads to the Site Conveyance Network. In addition to air abatement actions, eight other potential control approaches that are expected to be capable of reducing loadings at Outfall 002 have been identified in this report. The possible timelines to implement these approaches and estimates of their potential load reduction benefits, for those that can be estimated, are presented. These potential approaches include the following:

- Remove targeted sediments, which could contain PFAS from historical aerial deposition, along the open section of the Cooling Water Channel and in the Open Channel to Outfall 002.
- Investigate, locate, and control other (non-sediment) dry weather sources to the Cooling Water Channel.
- Assess the potential for groundwater intrusion of perched zone groundwater containing HFPO-DA infiltrating into the Open Channel to Outfall 002 and reduce, if occurring.
- Decommission the remaining portion of the terracotta pipe to the WWTP to prevent transport of PFAS that are potentially still present in the pipe or adhered to remnant sediments.
- Continue air abatement measures to reduce PFAS loading to the land surface and over time reduce concentrations in surface soils and on surfaces that are then flushed through the environment.
- Implement targeted stormwater source control and/or treatment, including covering/sealing of certain areas, replacement of materials, sweeping or washing/rinsing, or targeted collection and treatment with carbon filtration or ion exchange.
- Treat stormwater end of pipe, up to a given design flowrate, by constructing a separate collection system for either stormwater or NCCW to segregate these flows and provide treatment of the stormwater.

- Develop and implement an Industrial Stormwater Pollution Prevention Plan (SWPPP) to reduce the potential for stormwater contamination from industrial activities and other sources such as impacted soils or active construction.
- Diversion and treatment of all flows (i.e., stormwater and dry weather flows) end of pipe (at Outfall 002) using carbon filtration, up to a given design flowrate. Similar alternatives include treatment of dry weather flow only (NCCW and WWTP effluent) end of pipe or treatment of stormwater only end of pipe; these alternatives would require collection system separation.

These approaches provide differing levels of potential reductions, time to implement, and cost effectiveness for benefit achieved. The approaches Chemours propose to implement are presented in the *Cape Fear River PFAS Loading Reduction Plan* (Geosyntec, 2019a).

1 INTRODUCTION AND OBJECTIVES

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this report for The Chemours Company FC, LLC (Chemours) to provide an assessment of hexafluoropropylene oxide dimer acid (HFPO-DA) and perfluoro-2-methoxyacetic acid (PFMOAA) detected at Outfall 002 at Chemours Fayetteville Works (the Site). This report is one of four supporting attachments to the *Cape Fear River PFAS Loading Reduction Plan* ("Reduction Plan"; Geosyntec, 2019a) required by Paragraph 12 of the Consent Order among Chemours, the North Carolina Department of Environmental Quality (NCDEQ) and Cape Fear River Watch which was entered into court on February 25, 2019. This report has been prepared to present data and a technical analysis related to Outfall 002 pursuant to requirements of Consent Order Paragraph 12(d). Paragraph 12(d) states:

> *The burden is on Chemours to demonstrate that the concentrations of GenX and perfluoro-1-methoxyacetic acid (PFMOAA) detected in Outfall 002 cannot be reduced by at least 80% from baseline levels, including after measurable storm events, as defined in 40 C.F.R. 122.21(g)(7)(ii), within 2 years.*

This document presents an assessment of HFPO-DA and PFMOAA concentrations at Outfall 002, including past concentrations and areas, activities and processes contributing to detections of these two compounds at Outfall 002. The assessment also presents potential control approaches to reduce concentrations and loadings of HFPO-DA and PFMOAA and evaluates the potential benefits, challenges, and timelines associated with the potential control approaches. Proposed commitments to potential control approaches and an assessment if 80% reductions can be accomplished in two years are presented in the Reduction Plan (Geosyntec, 2019a).

The remainder of this document is organized as follows:

- **Section 2 – Description of Outfall 002 and Site Conveyance Network.** This section presents a description of flows and areas that contribute to the Outfall 002 discharge.
- **Section 3 – HFPO-DA and PFMOAA Data Assessment.** This section presents a description of observed temporal trends in HFPO-DA and PFMOAA concentrations at Outfall 002, calculation of 2018 calendar year loading at Outfall 002, and a description of recent sampling activities and results.

- **Section 4 – Potential Control Approaches.** This section presents a description of potential control approaches for reducing loading to Outfall 002, including estimated potential reductions at Outfall 002 for each approach, potential timelines, and implementation considerations.
- **Section 5 – Summary.** This section presents a summary of Outfall 002 HFPO-DA and PFMOAA data presented in this document and potential control approaches to reduce loading of Site-related HFPO-DA and PFMOAA at Outfall 002.

2 DESCRIPTION OF OUTFALL 002 AND SITE CONVEYANCE NETWORK

This section presents an overview of the Site Conveyance Network, including the different flows that contribute to water discharged at Outfall 002. This discussion addresses current flows and does not include potential future flows scenarios at the Site. The Facility is adjacent to the Cape Fear River and draws water from the river. The Facility returns over 95% of this water via Outfall 002 after being used primarily as non-contact cooling water (NCCW). Rainfall at the Facility that does not infiltrate to groundwater runs off through a series of storm drains and ditches.

The Facility has four chemical production areas, shown in Figure 1 and listed below:

- Chemours Monomers Ion Exchange Membrane (IXM) Area;
- Chemours Polymer Processing Aid (PPA) Area;
- Kuraray America northern and southern leased areas (Kuraray America Leased Areas); and
- DuPont leased area (DuPont Area).

A portion of the intake water from the river is used for process water by Chemours, and the resulting process wastewater is then collected and transported offsite for disposal. Therefore, this process wastewater is not discharged back to the river via Outfall 002.

Some intake river water is also used as non-process water, by Chemours and other Site tenants, and is sent via pipe to the onsite wastewater treatment plant (WWTP). A small amount of purchased potable water used for sanitary facilities is also sent to the WWTP. The WWTP also receives and treats process water from Kuraray and DuPont. Treated WWTP effluent is discharged through Outfall 001, which then combines with flow in the Open Channel to Outfall 002. The specific operations contributing flow to Outfall 001 to the Open Channel include the following:

- Kuraray Americas Inc. – Trosifol® Manufacturing Process

- Kuraray Americas Inc. – SentryGlas® Manufacturing Process
- DuPont Company – Polyvinyl Fluoride Manufacturing Processes
- Stormwater from Kuraray and DuPont Process Areas
- Sanitary (Domestic) Wastewater
- Demineralized Water Regenerate Flow
- Air Compressor Cooling Water

A large portion of river intake water is used as NCCW throughout the Site, which is transported through the Site Conveyance Network to Outfall 002 and discharged into the river, as shown in Figure 2.

NCCW from the Chemours PPA Area and Kuraray America Leased Areas are discharged into the Wood Lined Trench that flows through the western portion of the Site from north to south. The Wood Lined Trench discharges into the concrete-lined Open Channel to Outfall 002, just upstream of where the WWTP discharge combines with the Open Channel. NCCW from the Chemours Monomers IXM area (northeast portion of the Facility) is conveyed via an open channel/ditch, until it is conveyed underground via a pipe on the eastern portion of the Site (starting just upstream of the sediment basins). The NCCW conveyed underground (from north to south) combines with the Open Channel to Outfall 002, downstream of where the WWTP discharges into the channel.

Open, unlined ditches convey NCCW and steam condensate from the DuPont Area (in the southeast portion of the Facility), and these ditches ultimately drain into the lined Open Channel to Outfall 002. However, since the DuPont ditches are not lined, flow in these ditches has been observed to infiltrate before reaching where the ditches combine with the channel to Outfall 002. The Open Channel to Outfall 002 flows along the southern portion of the Site, from west to east, and is discharged to the river through a pipe. The Site Conveyance Network is illustrated in Figure 3.

Non-process stormwater runoff throughout the Site is conveyed via small ditches, stormdrain pipes, roof gutters, and downspouts into the Site Conveyance Network and ultimately discharged via Outfall 002. Operations contributing flow to Outfall 002 include the following:

- River sediment basin water overflow;
- Stormwater from non-process areas;
- Boiler blowdown and condensate;

- Chemours fluoroproducts manufacturing processes NCCW;
- Kuraray Trosifol® manufacturing process NCCW;
- Kuraray SentryGlas® manufacturing process NCCW;
- DuPont polyvinyl fluoride resin processes NCCW;
- DuPont polyvinyl fluoride resin processes reverse osmosis/capacitive deionization reject water;
- Outfall 001 effluent;
- Non-contact river water once-through cooling water;
- Steam condensate; and
- Excess river water.

3 HFPO-DA AND PFMOAA DATA ASSESSMENT

This section presents results from sampling activities at the Site that support assessment of concentration trends and sources for HFPO-DA and PFMOAA detected at Outfall 002.

3.1 HFPO-DA and PFMOAA Temporal Trends

HFPO-DA and PFMOAA analytical results from samples collected from Outfall 002 and from the Cape Fear River (at a location representing the river intake) were evaluated. Reported Outfall 002 concentrations for HFPO-DA and PFMOAA between June 2017 and July 2019 are provided in Table 1 and Table 2, respectively. Reported river intake concentrations for HFPO-DA and PFMOAA between June 2017 and July 2019 are provided in Table 3 and Table 4, respectively. Daily precipitation data from a nearby United States Geological Survey rain gauge are provided in Table 5. HFPO-DA concentrations from June 2017 through July 2019 from samples collected from Outfall 002 are shown in Figure 4. On June 21, 2017, Chemours diverted six process wastewater types from going to the WWTP and containerized and shipped them for offsite disposal. Subsequently, between June and July 2017, HFPO-DA concentrations at Outfall 002 decreased by over 99% [from approximately 80,000 nanograms per liter (ng/L) to 120 ng/L from Outfall samples collected on June 14, 2017 and July 27, 2017].

HFPO-DA concentrations at Outfall 002 from August 2017 through July 2019 are shown in Figure 5. There were several notable events during this period. From October 2017 until June 2018, concentrations at Outfall 002 increased after rainfall and other precipitation events following the October 2017 scrubber upset and subsequent

mobilization of HFPO-DA deposited on the soil due to air deposition to the Site Conveyance Network. Air abatement efforts began in May 2018, and Cooling Water Channel, sediment basin lining and discharge of water from dewatered excavated sediment from the previous sediment ponds to the newly lined sediment ponds occurred in late 2018. Additionally, Thermal Oxidizer construction began in late 2018. Hurricane Florence occurred in mid-September 2018, which resulted in over seven inches of rainfall in a single day to the area.

As shown in Figures 4 and 5, although HFPO-DA concentrations measured at Outfall 002 are variable, there is a general downward trend over time. Additionally, despite the variability in HFPO-DA concentrations, concentrations generally increase during wet weather, indicating that stormwater is a source of HFPO-DA loading to Outfall 002. However, even during dry weather, Outfall 002 concentrations are consistently higher than river intake concentrations, suggesting that the Site Conveyance Network is also contributing HFPO-DA loading.

PFMOAA concentrations from May 2018 through June 2019 are shown in Figure 6. There are limited data available for PFMOAA at Outfall 002, and many of the sample results were non-detects where the detection limit was 210 ng/L. These samples are being reanalyzed at lower detection limits by the laboratories. Although PFMOAA concentrations were frequently below the detection limit, several elevated concentrations were observed at Outfall 002 during 2019. The highest PFMOAA observations at Outfall 002 and the intake sampling location occurred between late May and early June 2019 (Geosyntec, 2019c), which were associated with the use of supplemental rental pumps. The limited number of available PFMOAA sampling results and the frequency of non-detect results contribute to uncertainty in PFMOAA loading analyses.

3.2 HFPO-DA and PFMOAA Calendar Year 2018 – Mass Loading

The 2018 calendar year was established as the period for comparison with recent loadings at Outfall 002 and potential control approaches for this report. Before 2018, all process water had been diverted from Outfall 002.[1]

To calculate mass loading over the 2018 calendar year, measured concentration data for HFPO-DA and PFMOAA were used, in combination with measured flows at Outfall 002.

[1] Process wastewater diversion occurred between June 21, 2017 and November 29, 2017. Subsequent to November 29, 2017, process wastewaters from the Chemours Monomers IXM Area have been sent for offsite disposal.

HFPO-DA and PFMOAA concentrations at Outfall 002 during 2018 are shown in Figure 7 and Figure 8, respectively. Additionally, measured flows from Outfall 001 (the WWTP effluent) and Outfall 002 are shown in Figure 9. During 2018, there were a total of 100 sample results for HFPO-DA and 12 sample results for PFMOAA. All of the HFPO-DA results had detected concentrations while half, i.e. six, of the PFMOAA results were non-detects (detection limit was 210 ng/L).

To calculate loading at Outfall 002, the measured concentrations and flows were multiplied (with unit conversion factors) to determine the mass loading. To enable comparative analysis of loading from different sources of flow (to support evaluation of intervention options), the total loading from Outfall 002 was separated into loads from stormwater versus loading occurring during dry weather flows. Dry weather loading encompasses all flows except for stormwater, which includes the WWTP effluent, NCCW, demineralized water regenerate flow water, river sediment basin water overflow, and boiler blowdown and condensate. Additionally, because the majority of dry weather flow, not including WWTP effluent, is NCCW, this contribution is referred to as "NCCW in the Site Conveyance Network". The Site Conveyance network is illustrated in Figure 1 and Figure 3.

For baseflow load apportionment, flow data for each day was designated as "wet" or "dry" based on the total precipitation depth measured on that day and the two preceding days, with wet days defined as greater than 0.2 inches of precipitation (below this approximate rainfall threshold, minimal stormwater runoff generation is expected). On dry days, flow measured at Outfall 002 was subdivided as follows:

$$Outfall\ 002\ Flow = NCCW\ flow + WWTP\ effluent\ (Outfall\ 001)\ flow$$

On wet days, NCCW flows in the Site Conveyance Network were assumed to be of similar flow volumes to NCCW flows on dry days. Therefore, any flow in addition to WWTP effluent and NCCW in the Site Conveyance Network flows was assumed to be attributed to stormwater, as shown below:

$$Outfall\ 002\ Flow = NCCW\ flow + WWTP\ effluent\ (Outfall\ 001) + Stormwater$$

Based on these assumptions, the flow at Outfall 002 from NCCW in the Site Conveyance Network, WWTP effluent, and stormwater was estimated for each day in the 2018 calendar year, as shown in Figure 9. The 2018 calendar year is in the 97th percentile of total annual rainfall depth including the record rainfall experienced during Hurricane Florence in mid-September 2018. Excluding the record rainfall that occurred during the hurricane, the 2018 calendar year would be in the 44th percentile of total annual rainfall depth, which is close to a median (50^{th} percentile) rainfall year.

HFPO-DA and PFMOAA concentrations measured on both dry and wet days were used to estimate the concentrations that could be attributed to dry weather flows (WWTP effluent and NCCW in the Site Conveyance Network) and wet weather flows. Concentrations were estimated based on the equations shown below.

Where,

C_d = dry day concentration

C_s= stormwater concentration

C_w = wet day concentration

R_{sd} = ratio of stormwater to dry weather concentration

V_s = portion of Outfall 002 flow that is stormwater

V_d = portion of Outfall 002 flow that is from dry weather

- Average stormwater concentration:

$$C_{w\,mean} = C_{d\,mean}V_{d\,mean} + C_{s\,mean}V_{s\,mean}$$

$$C_{s\,mean} = (C_{w\,mean} - C_{d\,mean}\,V_{d\,mean})/\,V_{s\,mean}$$

- Ratio of the stormwater concentration to the average dry day concentration:

$$R_{sd} = C_{s\,mean}\,/C_{d\,mean}$$

- The ratio was used to calculate the stormwater and dry weather concentrations for each day (where V is based on the day of and two preceding days):

$$C_d = C/(R_{sd}\,V_s + \ V_d)$$

$$C_s = C/(V_s + (\frac{1}{R_{sd}})V_d)$$

For wet days, the measured flows and concentrations at Outfall 002 were translated into estimated flows and concentrations from stormwater, NCCW in the Site Conveyance Network, and the WWTP effluent, while dry days were translated into flows and concentrations for NCCW in the Site Conveyance Network and the WWTP effluent.

The flows and concentrations discussed above were used to calculate total loading at Outfall 002 during the 2018 calendar year, subdivided by the estimated contributions from stormwater and dry weather flows (NCCW in the Site Conveyance Network and the WWTP effluent). Figure 10 and Figure 11 show loading at Outfall 002 for the 2018 calendar year for HFPO-DA and PFMOAA, respectively. The approximate loading present in the river intake water (and then subsequently discharged to Outfall 002) is also illustrated.

In mid-September, a record rainfall occurred during Hurricane Florence. There was 17.3 inches of rainfall from September 14-16, 2018, which represents 28% of the total annual rainfall in 2018. The measured flows were estimated to represent 1.4% of the annual flows to Outfall 002, and the loading from September 14-16 accounts for 2.3% of the total 2018 loading (for HFPO-DA). This assumes a concentration of 333 ng/L for HFPO-DA at Outfall 002 during this event, since it was not possible to collect a sample at Outfall 002 during the hurricane[2].

In the time period evaluated, stormwater is a relatively small contribution to Outfall 002 in terms of flow. However, Figures 10 and 11 show that it is a significant contribution to loading (due to its relatively higher concentrations), representing approximately 45% and 31% of HFPO-DA and PFMOAA loading at Outfall 002, respectively. Although concentrations from the WWTP effluent (Outfall 001) were generally higher than concentrations measured at Outfall 002, the WWTP effluent is estimated to contribute a relatively smaller load due to the low flows representing 2% of HFPO-DA loading at Outfall 002.

3.3 Paragraph 11(c) Bimonthly Sampling

Paragraph 11(c) of the executed Consent Order requires that Chemours submit quarterly reports to NCDEQ identifying Per- and polyfluoroalkyl substances (PFAS) constituents and concentrations in all process and non-process wastewater and stormwater at the Facility. To conduct this evaluation, Chemours began conducting bimonthly sampling events in April 2019 to characterize PFAS in these water types. The second bimonthly sampling event occurred in June 2019, and further sampling events will occur bimonthly for up to eighteen months.

Samples collected under Paragraph 11(c) include the raw water intake, process wastewater, non-process wastewater, and stormwater, including water that is discharged through Outfall 002. The proposed sample locations for each sampling event are shown in Figure 12 and are described in the *PFAS Characterization Sampling Plan* (Geosyntec, 2019d). Samples collected are listed in Table 6. Details on general field methods,

[2] Based on the average concentration measured at Outfall 002 during wet weather in the 2018 calendar year.

sampling methods, and field quality assurance/quality control procedures conducted during the bimonthly sampling events are described in the *First Quarterly Report for PFAS Characterization* (Geosyntec, 2019e).

During the April 2019 and June 2019 sampling events, some sample locations identified in the *PFAS Characterization Sampling Plan* (Geosyntec, 2019d) were unable to be sampled (Table 6) as these locations were dry during the sampling event. There was no precipitation in the 72 hours leading up to sample collection.[3]

Concentrations of HFPO-DA and PFMOAA in samples collected during the April 2019 and June 2019 sampling events are presented in Figure 13 and Figure 14, respectively. Sample results for all PFAS reported under Table 3+ Laboratory Standard Operating Procedure (SOP) and EPA Method 537 Mod for the April 2019 and June 2019 sampling events are provided in Table 7 and Table 8, respectively. PFAS results for samples collected from Chemours wastewater locations (Locations 16, 17A, and 17B) are not included, because water from these locations is shipped offsite for disposal and is not discharged through Outfall 002. The data review narrative package and the associated laboratory reports for these samples, and for other samples discussed in this document, are provided in Appendix A. Further details on the data review process can be found in the *Seeps and Creeks Investigation Report* (Geosyntec, 2019f).

The following observations were made for HFPO-DA and PFMOAA concentrations in the April 2019 and June 2019 dry events:

- HFPO-DA was detected at Location 1, the intake water from the Cape Fear River, at 14 ng/L in April and 18 ng/L in June.[4]
- Samples from non-process wastewater locations (6A, 6B, 24A, 24B, and 24C) contained low levels of HFPO-DA (ranging from 13 to 66 ng/L) and were non-detect for PFMOAA. All HFPO-DA concentrations for Chemours non-process wastewater samples were within 8 ng/L of the concurrent sample of intake water at Location 1.

[3] The April sampling event occurred on 4/24/2019; there was 0.46 inches on 4/19/2019 and 0.02 inches of precipitation on 4/20/2019. The June sampling event occurred on 6/27/2019; there was 0.23 inches of precipitation on 6/22/2019.
[4] PFMOAA was not detected at Location 1 during either dry weather sampling event (the detection limit was 210 ng/L for the April event and 5 ng/L for the June event).

- The highest non-process wastewater-related HFPO-DA concentration during the April event was in the sample collected at Location 10 (320 ng/L), a Chemours Monomers IXM Stormwater Discharge area. This section of the channel receives stormwater from roof drainage and has sediment present in the drainage ditch. This location was dry during the June event.
- Elevated HFPO-DA and PFMOAA concentrations were observed at locations 23A (April and June) and 23B (June). These locations and the combined influent to the WWTP (Location 22) were further evaluated through additional sample collection, and possible sources of the elevated HFPO-DA and PFMOAA concentrations are discussed further below in Section 3.5.
- The samples collected at Location 20 (Outfall 002) had detectable concentrations of HFPO-DA (61 ng/L in April and 50 ng/L in June). In April, PFMOAA in the sample collected at Location 20 was non-detect above the reporting limit (210 ng/L), while in June, PFMOAA was detected at 48 ng/L.

The 2018 loading estimate plots (Section 3.2) show a loading of 44% for HFPO-DA to Outfall 002 is contributed through dry weather flows, because the loading estimated due to dry weather flows (NCCW in the Site Conveyance Network and the WWTP effluent) is higher than the estimated river intake loading. Based on the data collected during the April and June sampling events, in addition to typical flows contributed to the Site Conveyance Network from different parts of the Facility, the total loading to Outfall 002 from NCCW in the Site Conveyance Network was separated into the major components of the network (Figure 3 illustrates the major components). As shown in Table 9, the Cooling Water Channel (in the northeast portion of the Facility) and the Open Channel to Outfall 002 (located along the southern border of the Facility[5]) are estimated to contribute the most load to Outfall 002, based on available data. These data show variability in the percent loading from each section of the Site Conveyance Network, suggesting that load reduction estimates of control measures that target particular sections (reported later) will have uncertainty that is proportionate to these ranges.

[5] The Open Channel to Outfall 002 begins where the Wood Lined Trench terminates and flows until Outfall 002. Flows from the WWTP effluent and the Cooling Water Channel also discharge into this channel.

Table 9. Loading Estimates to Outfall 002 Added Throughout the Site Conveyance Network during Dry Weather (for HFPO-DA); Intake contributions are not counted in these values.

Location[1,2,3]	Approximate HFPO-DA Loading Added to Outfall 002 (through Site Conveyance Network)					
	4/24/2019		6/27/2019		Average	
	Load (lb/day)	% of Total Load	Load (lb/day)	% of Total Load	Load (lb/day)	% of Total Load
Wood Lined Trench	0	0%	0.00031	5%	0.00015	2%
Cooling Water Channel	0.0020	24%	0.0031	48%	0.0026	36%
Wastewater Treatment Plant Effluent	0.00058	7%	0.00055	9%	0.00056	8%
Open Channel to Outfall 002	0.0057	69%	0.0025	38%	0.0041	53%

[1] This assessment assumes flow in the ditches from the DuPont Area are infiltrated and no flow discharges into the Open Channel to Outfall 002

[2] The intake loading represented 29% of the total HFPO-DA load exiting Outfall 002 in the April 2019 event and 55% of the total HFPO-DA load exiting Outfall 002 in the June 2019 event.

[3] Loads are calculated based on concentrations measured during the dry weather sampling events and estimated flows on the day sampling occurred from each loading source (using measured flow at Outfall 002 on the day sampled).occurred and typical flows from the various loading sources, based on data from December 2017 through May 2019).

3.4 Stormwater Sampling

Concentrations of HFPO-DA and PFMOAA in stormwater runoff are needed to consider the effectiveness of potential stormwater control measures. A stormwater sampling event was therefore conducted to collect and analyze grab samples of stormwater throughout the Site (i.e., from drainage ditches or channels before stormwater enters the Site Conveyance Network and mixes with dry weather flows). Sampling was planned for storms having these forecasted characteristics: at least 70% chance of rain predicted to last at least 4 hours, at least 0.5 inches of rainfall, and an antecedent dry period lasting at least 72 hours. Grab sample collection started once 0.1 inches of rain had fallen and when runoff was observed to occur. Samples were also analyzed for total and dissolved PFAS, total suspended solids (TSS), and particle size distribution. Additionally, six pressure transducers (micro-divers) were installed in defined channels/ditches collecting

stormwater only in order to collect continuous measurement of pressure/depth[6] throughout sampling period to support estimates of stormwater flows.

Stormwater samples were collected on June 5, 2019. The proposed sample locations are shown in Figure 15. Not all locations planned for sampling were successfully sampled due to lack of flow at some locations and time limitations during the relatively short rain event. Concentrations of HFPO-DA and PFMOAA in samples collected during the June 2019 stormwater sampling event are presented in Figure 16. Sample results for all PFAS reported under Table 3+ Laboratory SOP and EPA Method 537 Mod are provided in Table 10. Additional stormwater sampling events are planned to further assess stormwater PFAS levels and contributing areas within the Facility to potentially support reduction actions.

The following observations were made for HFPO-DA and PFMOAA concentrations in the June 2019 stormwater sampling event:

- Stormwater concentrations were generally higher than those measured at Outfall 002, particularly during dry weather. The median concentration of HFPO-DA measured at Outfall 002 during dry weather (in 2018 and 2019) was 87 ng/L, and the median concentration of HFPO-DA during wet weather was 235 ng/L (additionally, data has shown that concentrations are higher at Outfall 002 during large storm events vs. small storm events). The median stormwater concentration of HFPO-DA measured during the June 2019 stormwater sampling event was 370 ng/L, confirming that stormwater concentrations are higher than other dry weather flow sources to Outfall 002.
- Stormwater concentrations were spatially variable throughout the Facility, with certain sample clusters indicating potential areas of higher loading. If these spatial patterns are corroborated in future sampling events, targeted stormwater treatment could potentially be prioritized in these areas to measurably reduce loading to Outfall 002 during wet weather.
- Both HFPO-DA and PFMOAA were elevated at sampling Location 42 (46,000 ng/L for HFPO-DA, 105,000 ng/L for PFMOAA, 5,400 ng/L for HFPO-DA, and 42,000 ng/L for PFMOAA). These samples represent runoff from rooftop gutters

[6] Two pressure transducers (micro-divers) were also installed to represent atmospheric pressure.

(from the Chemours Monomers IXM area) going to the Site Conveyance Network.

- Location 10 was also elevated (3,500 ng/L for HFPO-DA and 2,200 ng/L for PFMOAA). This sampling location represents stormwater discharge from the Chemours Monomers area. Water mixed with sediment sample results were also elevated in the Chemours Monomers IXM area (discussed in Section 3.6), compared to limited results from other sampling locations.
- Locations 2 and 3 were relatively elevated for HFPO-DA (940 ng/L for Location 2 and 1,800 ng/L for Location 3). These locations drain the northwest corner of the Facility.
- Dissolved PFAS and TSS concentrations in stormwater samples were also analyzed, to understand pollutant form and treatability. Samples were filtered at the laboratory prior to analysis. In these samples, and sample preparation sequence, dissolved concentrations were generally equivalent to total concentrations, indicating that these chemicals are predominantly in dissolved form, which may limit the potential effectiveness of traditional stormwater source control measures (e.g., soil tackifiers and other erosion and sediment controls that focus on holding surface soils in place) and treatment control measures (which more effectively reduce particulate-associated pollutants).
- Additionally, there was no relationship between TSS for either total or dissolved PFAS concentrations. This suggests that the mobilization pathway for PFAS in stormwater is via a land surface wash-off process that occurs without associated particulate wash-off (i.e., a colloidal or salt-like, soluble form of the pollutant may exist on the land surface and is rinsed into suspension during rainfall-runoff).

3.5 Supplemental Wastewater Treatment Plant Sampling

Supplemental wastewater samples were collected on July 16-18, 2019, from locations along the terracotta pipe upstream and downstream of the WWTP to gather additional data on PFAS concentrations in water that is processed at the WWTP before reaching Outfall 001 and then Outfall 002. Simultaneous 24-hour composite samples were collected at the following locations (Figure 17):

- Location 1 (excess river water)
- Location 18 (Kuraray Trosifol® process wastewater)
- Location 23A-1 (Kuraray SentryGlas® process wastewater)

- Location 23A-2 (Kuraray laboratory process wastewater).
- Location 23A (combined process wastewater from Kuraray SentryGlas® and laboratory)
- Location 22 (WWTP combined influent) – during sample collection at this location, sediment caused a blockage in the autosampler tubing, so the sample was composited over approximately 8 hours instead of 24 hours. The sediment may have affected the sample results as described below.
- Location 8 (WWTP effluent at Outfall 001) – this sample was collected one day later than the other samples over 24 hours. One day represents the estimated hydraulic residence time of water flowing through the WWTP.

The samples were sent to the Chemours onsite laboratory and TestAmerica Sacramento (TestAmerica) for Table 3+ Laboratory SOP analysis. Results reported here are from the onsite laboratory and are being used for indicative purposes, as results from TestAmerica are pending at the time of report submission. Concentrations of HFPO-DA and PFMOAA in samples collected upstream and downstream of the WWTP are shown in Figure 18. Sample results for all PFAS reported under Table 3+ Laboratory SOP are provided in Table 11. Below are observations from this sampling event:

- Elevated HFPO-DA and PFMOAA concentrations at Location 22 do not correspond to similar levels directly upstream (Location 23A) or in the effluent (Location 8). The autosampler at this location became clogged with sediment roughly 8 hours into the integration time. The sediment clogging of the sampler, and direct upstream samples having lower concentrations suggests that the elevated PFAS concentrations observed in the sample at Location 22 are affected by sediment.
- Elevated HFPO-DA (9,395 ng/L) was observed at Location 23A-1 (Kuraray SentryGlas® process wastewater) and at Location 22 (2,637 ng/L, the WWTP combined influent). A lower concentration was observed at Location 8 (53.7 ng/L, the WWTP effluent).
- Elevated PFMOAA was observed at Location 23A (597 ng/L, combined Kuraray process water) and at Location 22 (1,589 ng/L, the WWTP combined influent). PFMOAA was non-detect above the reporting limit (10.6 ng/L) in the WWTP effluent (Location 8).
- The elevated HFPO-DA observed in the sample collected from Location 23A-1 (9,395 ng/L) does not appear represent a significant source of mass loading to downstream Location 23A where the HFPO-DA concentration was 65.9 ng/L.

3.6 Supplemental Conveyance Network Sediment Sampling (Dry Weather)

Supplemental dry weather sampling was conducted on July 3, 2019 where sediment samples were collected from Cooling Water Channel locations with sediment accumulation. Sample collection was attempted in the Open Channel to Outfall 002, but the sediment had too many fines to be able to collect the sample through the existing water column and flow. The samples were collected to evaluate the potential for desorption from these sediments to contribute to observed PFAS concentrations at Outfall 002. Composite samples were created from sediment grab samples. The locations of these samples are show in in Figure 19 and are listed below:

- Sediment Location C (SD-DNSS-C, Cooling Water Channel; immediately before joining with the Open Channel to Outfall 002)
- Sediment Location F (SD-DNSS-F, Cooling Water Channel; south of Chemours Monomers IXM Area)
- Sediment Location G (SD-DNSS-G, Cooling Water Channel; north and west of Chemours Monomers IXM Area)

These samples were collected before a Table 3+ solids method had been developed by external laboratories. To facilitate an assessment of the potential presence of Table 3+ PFAS associated with the Site, equal masses of deionized water and sediment (approximately 100-g each) were combined together in a high-density polyethylene (HDPE) bottle and mixed together. The sediment-water mixture samples were sent to the Chemours onsite laboratory and TestAmerica for Table 3+ Laboratory SOP analysis. Results discussed here are from the onsite laboratory since results from TestAmerica are pending. The overlying water was extracted from the samples and analyzed to semi-quantitatively assess the PFAS levels in the samples. Aqueous HFPO-DA and PFMOAA reported results from these analyses are shown in Figure 20. Sample results for all PFAS reported under Table 3+ Laboratory SOP are provided in Table 12.

Reported HFPO-DA and PFMOAA levels were highest at Sediment Location G (1,400 ng/L and 560 ng/L, respectively). Sediment Location F was observed to have HFPO-DA detected at 3,120 ng/L while PFMOAA was non-detect at reporting limit of 11 ng/L. Sediment Location C was observed to have the lowest HFPO-DA concentration at 26 ng/L and PFMOAA was non-detect at a reporting limit of 11 ng/L. These results suggest that sediments present in the Cooling Water Channel around Monomers IXM Area may represent a source of PFAS that can originate from the sediment and contribute to Outfall 002.

3.7 Supplemental Outfall Channel Sampling (Dry Weather)

Supplemental dry weather water samples were collected on May 30, 2019 along the Open Channel to Outfall 002 to evaluate whether possible groundwater infiltration was affecting the variability of PFAS concentrations in the Open Channel. The samples were collected from along the Open Channel to Outfall 002 after the last conveyance network tributary joins the channel (Figure 21). Samples at Locations 20B, 20C, and 20D were collected as spatial composite samples, where three grab samples were collected from just below the water surface using a dip rod at three points along the width of the open channel, then composited together in a stainless-steel vessel and poured into HDPE bottles. Downstream of Location 20D, the sample at Location 20E was collected from within the sump at Outfall 002 as a grab sample using the autosampler at that location.

Concentrations of HFPO-DA and PFMOAA in the supplemental outfall channel samples are presented in Figure 22. Sample results for all PFAS reported under Table 3+ Laboratory SOP and EPA Method 537 Mod are provided in Table 13.

HFPO-DA concentrations in samples collected along the Open Channel, upstream of Outfall 002 (Locations 20B, 20C, and 20D) were either non-detect (reporting limit 86 ng/L) or were detected between 89 ng/L and 130 ng/L. The sample collected at Location 20E, downstream of Outfall 002 in the sump, similarly had detectable HFPO-DA at 110 ng/L.

Each of the supplemental outfall samples had elevated PFMOAA compared to results for Location 20 (2,400 ng/L to 2,800 ng/L), along with several other PFAS that are non-detect or detected at much lower concentrations at Location 20. In addition, temporal composite samples collected around the same time (May 28-31, 2019) from Outfall 002 had elevated concentrations of several PFAS compared to results earlier in 2019 including PFMOAA (Figure 8). These observations are discussed in more detail in the *Observations of Elevated PFAS Concentrations at the Cape Fear River Intake and Outfall 002 Sample Locations in May and June 2019* (Geosyntec, 2019c).

The primary sample at Location 20B, along with the samples at 20C, 20D, and 20E, show an increase in HFPO-DA concentrations upstream to downstream along the Open Channel to Outfall 002 consistent with the April and June 2019 bimonthly sampling event observations. The duplicate sample collected at Location 20B, however, shows an HFPO-DA concentration similar to downstream Location 20E which is inconsistent with earlier observations provided by the same laboratory (TestAmerica). Future bimonthly sampling data will be evaluated to determine if the observations from the April and June events occur again. *The Cape Fear River PFAS Loading Reduction Plan* (Geosyntec, 2019a) also outlines additional assessment activities to first remove any sediment from this

portion of the channel and second to examine if the potential for groundwater intrusion exists.

3.8 Observations from Data Assessment

The 2018 calendar year loading for HFPO-DA and PFMOAA to Outfall 002, as presented in Section 3.2, shows that stormwater and dry weather flows are both significant contributions to the Outfall 002 total 2018 loading. Stormwater is approximately 45% of the total loading and dry weather flows are approximately 55% of the total loading. NCCW in the Site Conveyance Network is approximately 53% of the total loading. The WWTP effluent does not contribute significant loading to Outfall 002, due to the relatively small effluent flows. There is, however, a significant difference between the total loading contributed to Outfall 002 from NCCW in the Site Conveyance Network and estimated loading from the river intake, significant loading is being added along the Site Conveyance Network.

Stormwater sampling results show that stormwater concentrations are higher than dry weather concentrations measured at Outfall 002 and along the Site Conveyance Network. This confirms the hypothesis that stormwater runoff contributes significant loading to Outfall 002, even though it is a relatively small volume contribution compared to other dry weather sources of flow (i.e., NCCW). Additionally, there were several sampling location clusters throughout the Site with elevated concentrations in stormwater.

3.9 Data Needs and On-going Assessment Activities

Critical data gaps related to this assessment were identified, and Chemours is committed to continuing efforts to fill these data gaps. Further data are needed to assess spatial patterns of stormwater and dry weather concentrations of HFPO-DA and PFMOAA throughout the Site. Additional stormwater data will assist in confirming or identifying additional areas with relatively higher stormwater loads and what reduction might be yielded from capturing and treating stormwater from these areas. Additionally, dry weather data will contribute to the understanding of dry weather concentration increases observed along the Cooling Water Channel and Open Channel to Outfall 002 and what control approaches addressing the Site Conveyance Network may potentially yield. Chemours is committed to continuing these sampling campaigns and source investigations to answer key questions and inform the selection and design of future control measures.

4 POTENTIAL CONTROL APPROACHES

This section presents nine potential control approaches and their rationale. Estimated benefits (i.e. reductions in loading from Outfall 002) are also provided.

As shown in Section 3.2, the 2018 calendar year loading to Outfall 002 includes contributions from both stormwater and dry weather sources. In evaluating the ability to potentially achieve the reduction targets for HFPO-DA or PFMOAA, given that neither stormwater nor NCCW in the Site Conveyance Network alone contribute 80% of the load, there is a need for control approaches that address each of these sources. The following subsections outline details of the potential control approaches, and Table 14 summarizes the different control approaches (organized based on their potential to reduce dry weather vs. wet weather [i.e., stormwater] loading) and their potential to reduce HFPO-DA and PFMOAA loading to Outfall 002.

4.1 Investigate and Control Dry Weather Sources to the Cooling Water Channel

Characterization data from the Site Conveyance Network indicate increasing PFAS concentrations along the Cooling Water Channel. The Cooling Water Channel is an open channel around Monomers IXM but then becomes an underground pipe that emerges around the DuPont Area. By investigating, locating, and controlling other (non-sediment) dry weather sources to the Cooling Water Channel, any ongoing source inputs (e.g., existing sediments, new windblown soils, groundwater, stormwater) would be prevented. Presumably, concentrations along this section of the Site Conveyance Network would remain around river intake levels, thereby reducing a source estimated to contribute between 24% to 48% of the dry weather HFPO-DA load from the Site Conveyance Network to Outfall 002. The other actions that would reduce Cooling Water Channel loads are targeted sediment removal (Section 4.2), targeted stormwater source control and treatment (Section 4.6), and a Stormwater Pollution Prevention Plan (SWPPP; Section 4.8)

4.2 Targeted Sediment Removal

Soils onsite contain PFAS from historical aerial deposition. If soils from the Site enter the Site Conveyance Network becoming sediments, they can potential contribute to PFAS loads detected at Outfall 002. Analyses of sediment samples from the Cooling Water Channel demonstrated that PFAS from sediments can enter water, therefore existing sediments along the Conveyance Network have the potential to contribute to PFAS detected at Outfall 002, particularly during conditions when sufficient contact time allows such diffusion processes to occur (e.g., during slower, shallower dry weather flows). Characterization data along certain sections of the Site Conveyance Network and two

dry-weather bimonthly characterization events indicate increases in PFAS concentrations that could potentially be from existing sediments along the Cooling Water Channel and in the Open Channel to Outfall 002.

This potential action involves removing sediment present along sections of the Site Conveyance Network where sediments may have contributed to PFAS loading at Outfall 002: the open section of the Cooling Water Channel and the Open Channel to Outfall 002. This action could potentially be performed by Chemours during the yearly turnaround (next scheduled for October 2019) when the Site pauses activities, including passing water through the Site Conveyance Network, to perform yearly preventative maintenance.

At present, the expected reductions in PFAS loading to Outfall 002 from removing these sediments cannot be accurately quantified.

4.3 Assess Potential for Groundwater Intrusion

Along a portion of the Open Channel to Outfall 002 near the DuPont Area during dry weather, concentrations have been observed to increase along this section of open channel, without observable point source inputs. This suggests a diffuse source along this section of the Open Channel. The source of these increased HFPO-DA concentrations has not been determined but may be potentially related to:

- Sediments in the channel. Sediment samples in the Open Channel were too fine and could not be reliably collected during normal operating periods. These sediments can be removed as per the action described in Section 4.2, and samples of the removed sediment would be sent for analysis of PFAS concentrations; and
- Potentially perched zone groundwater containing HFPO-DA infiltrates into the Open Channel to Outfall 002. Perched zone groundwater levels along the Open Channel near the DuPont Area may potentially be higher than water levels in the Outfall Channel, and groundwater in this area contains HFPO-DA at concentrations higher than in Outfall 002 (66,000 ng/L at PZ-24). The Outfall Channel is lined with a grout-filled revetment mat and underlain with Geotextile to limit connectivity with the surrounding environment. If groundwater levels are higher than water levels in the Open Channel, then groundwater intrusion is possible in principle but may be limited by the materials from which the channel is constructed.

4.4 Decommission and Replace the Remaining Portion of the Terracotta Pipe

A terracotta pipe was used prior to June 21, 2017 to transmit Chemours process wastewater from the Monomers IXM Area to the WWTP. The terracotta pipe is presently still being used to transmit process and some NCCW from Kuraray operations and filter wash water stream from the Power Area to the WWTP. On November 29, 2019, Chemours severed the connection from the Monomers IXM area to the terracotta pipe. In February 2019, Chemours grouted the east-west section of the terracotta pipe to limit the potential for stormwater or groundwater to enter this section of the pipe and then be transmitted to the Cape Fear River via the terracotta pipe and WWTP (Geosyntec, 2019g). Sampling conducted in April, June, and July 2019 of locations along the terracotta pipe indicate that PFAS are still present in the pipe, potentially adhered to remnant sediments or potentially infused onto/into the clay pipe itself as described in Sections 3.3 and 3.5 this report. Kuraray and Chemours are planning to decommission the terracotta pipe and replace it with an above ground pipe.

4.5 Continue Air Abatement Measures

Pursuant to the Consent Order, Chemours is implementing air abatement measures which will "reduce Facility-wide annual air emissions of GenX Compounds by at least 99% from 2017 Total Reported Emissions," including the installation by the end of this year of a Thermal Oxidizer that will control all PFAS routed to it at an efficiency of 99.99%. Chemours has already completed implementation of the following air emissions control measures: enhanced leak detection and repair controls, carbon bed for Vinyl Ethers North (VEN) indoor air fugitives, and carbon bed for PPA indoor air fugitives and scrubber exit (completed by May 2018); installation of secondary scrubber (completed by November 2018); routing of secondary scrubber to the VEN carbon adsorption unit (completed by December 2018); and carbon bed for Vinyl Ethers South indoor air and scrubber exit (completed by June 2019). Pursuant to the Consent Order, Chemours will complete installation of the Thermal Oxidizer by December 2019.

These emissions reductions have and will continue to reduce PFAS loading to the land surface and over time reduce concentrations of PFAS in surface soils and on surfaces as PFAS are flushed through the environment. These reductions will lead to reductions in stormwater concentrations as surface runoff will encounter and mobilize less PFAS on soils and surfaces (and rainfall that contacts the Site will contain less PFAS). At present, it is not possible to accurately estimate the degree of stormwater runoff PFAS reductions that will be achieved in a two- to five-year timeframe. This is due to uncertainties in the fate and transport interactions of all PFAS at the Site with Site soils and surfaces, and a lack of reference sites with similar chemicals and dynamics to provide indicative

estimates of the rate of reduction over time. However, reductions in estimated stormwater concentrations have been observed since 2018 and are believed to be due in part from these air abatement measures.

4.6 Implement Targeted Stormwater Source Control and/or Treatment

Results from the stormwater sampling event indicated areas of elevated PFAS concentrations in stormwater. This suggests that some combination of targeted source control and stormwater collection and treatment could achieve mass loading reductions. At present, only one high resolution stormwater grab sampling event has been possible due to rainfall patterns since April 2019. Consequently, additional data are still being collected to develop a better understanding of stormwater levels and spatial patterns throughout the Site (two additional stormwater grab sampling events remain planned). Potential targeted source control could include capping of certain areas or replacement of materials. Targeted treatment could also consist of either carbon filtration or ion exchange, new stormwater collection systems (e.g., drain inlets or catch basins), pump stations, local storage and pretreatment (as needed), and piping to discharge treated flows back into the Site Conveyance Network.

Additionally, a long-term continuous simulation hydrologic model is being developed for the site, using EPA's Stormwater Management Model (SWMM). The model is based on a local rain gauge data, local hydrologic soil type data, onsite drainage plans, and onsite imperviousness data. The model will be calibrated using onsite flow measurements to determine candidate areas for cost-effective storage and treatment sizing ranges, and the resulting percent runoff volume capture (as required for load reduction estimation).

4.7 Treat Stormwater End of Pipe

A potential control approach involves treating stormwater flows "end of pipe" (i.e., at Outfall 002), up to a given design flowrate. Currently, dry weather flows and stormwater are conveyed to Outfall 002 via a combined network. A potential approach involves constructing a separate collection system for either stormwater or NCCW to achieve segregation of these flows. This would allow for treatment of either the stormwater or dry weather flows end of pipe. Presumably this treatment would prioritize stormwater, given its higher concentrations, so that greater load reduction would be achieved for the same

treatment system design flowrate and cost.[7] Collection system separation and treatment of stormwater from the entire Site would require significant cost and time to plan, design, permit and construct, and significant cost to operate and maintain given the expected required pace of carbon replacement or regeneration.

This option could possibly reduce most of the stormwater load, with the reduction determined based on the proposed storage volume and treatment system design flowrate, which can be translated to a percent of annual stormwater volume that is treated using the SWMM continuous hydrologic model. The required storage volume and treatment flowrate for this scenario would be very large, and the cost is expected to be similarly extremely high relative to other potential control options and to the benefits that would be realized, given the already low contribution of Outfall 002 to river loadings.

4.8 Stormwater Pollution Prevention Plan (SWPPP)

Industrial SWPPPs provide facility-specific guidance on stormwater best management practices, such as good housekeeping practices, exposure minimization, and erosion controls. Implementation of the SWPPP reduces the potential for stormwater contamination from industrial activities and known sources, such as impacted soils or active construction or soil stockpiling.

Based on the one stormwater sampling event, PFAS concentrations were not elevated near construction areas or soil stockpiles. These data also did not indicate any relationship between PFAS and TSS. The presence of sediment in the Cooling Water Channel with PFAS detections, however, suggests that reducing sediment entering and residing in the Site Conveyance Network is a best practice that may limit the potential for PFAS contributions to Outfall 002.

4.9 Treat All Flows End of Pipe

A potential control approach involves treating all flows (i.e., stormwater and dry weather flows) end of pipe (at Outfall 002), up to a given design flowrate. This option would not require collection system separation; therefore, the existing Site Conveyance Network could remain. This would require a new diversion structure above Outfall 002, a new

[7] When little or no stormwater is present, dry weather flows could be pumped to the treatment system as needed, if there is benefit to make constant and maximal use of the treatment system capacity. This dry flow could be drawn from near Outfall 002, or particular, higher concentration sections of the Site Conveyance Network (e.g., the Cooling Water Channel) to "optimize" the load reduction achieved by the treatment system.

pump station, a new storage tank, and a new treatment system similar to that described in the Treat Stormwater End of Pipe control approach (discussed in Section 4.7). Treated flows would be discharged back into the Open Channel above Outfall 002.

It would be possible for this option to achieve the 80% load reduction target, with a design flowrate and storage volume that achieves 100% dry weather flow capture and significant stormwater flow capture (73% of stormwater flow, in the 2018 calendar year). The required storage volume and treatment flowrate for this scenario would be extremely large, and the cost would also be extreme relative to other potential control options and to the benefits that would be realized, given the already low contribution of Outfall 002 to river loadings.

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4.10 Summary of Potential Control Approaches

Table 14 includes a summary of potential control actions, including estimated potential reductions to Outfall 002.

Table 14. Potential Control Approaches and Estimated Load Reductions

Action #	Category	Potential Actions	Potential Completion Date	Potential Load Reduction to Cape Fear River Loading (for HFPO-DA, compared to 2018)[1]	Lower Estimate of Potential Reductions (for HFPO-DA) as compared to 2018[2, 3, 4]	Best Estimate of Potential Reductions (for HFPO-DA) as compared to 2018[2, 3, 4]	Notes on Estimated Reduction
0	**DRY** interventions that could be expected to appreciably reduce load	Completed (Dry Weather) Interventions Since the End of 2018	End of 2018	0.3%	-	8%	Based on observed reductions in dry weather loading since 2018 (calculated from measured flows and concentrations at Outfall 002 in 2018 and 2019. 2019 loads were scaled to represent a full year to compare with 2018 loads).
1		Investigate and Control Dry Weather Sources to the Cooling Water Channel	2-4 years	0.4%	4%	8%	NCCW in the Site Conveyance Network is estimated to contribute 53% of the total 2018 loading to Outfall 002 (of HFPO-DA), although approximately 11% of this is from the river intake water. Therefore, 42% of the Outfall 002 load is generated or added within the Site Conveyance Network (Cooling Water Channel, Wood Lined Trench, Open Channel to Outfall 002). Based on the estimates in Table 9 (which used the [average] observed difference in concentration between the intake and at the bottom of the Cooling Water Channel [Location 15] from both the May and June sampling events), the Cooling Water Channel is assumed to contribute 36% of the loading added to Outfall 002 from the Site Conveyance Network (including the WWTP effluent) during dry weather. The low and "best" estimates for potential reductions assume 25% and 50% reduction of all of the load from the Cooling Water Channel, respectively.
2		Targeted Sediment Removal	1 year	NQ	NQ	NQ	Not quantifiable at this time. Sediments do contribute some loading in the cooling water channel based on analysis results for PFAS in water contacting these sediments, but it is not possible to accurately estimate the degree this contributes to dry weather loading.

Action #	Category	Potential Actions	Potential Completion Date	Potential Load Reduction to Cape Fear River Loading (for HFPO-DA, compared to 2018)[1]	Lower Estimate of Potential Reductions (for HFPO-DA) as compared to 2018[2, 3, 4]	Best Estimate of Potential Reductions (for HFPO-DA) as compared to 2018[2, 3, 4]	Notes on Estimated Reduction
3		Assess Potential for Groundwater Intrusion (Open Channel to Outfall 002)	3-5 years	0.5%	6%	13%	Loading contributions from the Open Channel to Outfall 002 may be attributable in part to sediments present in the channel, potential groundwater entering the channel, or another mechanism not yet identified. Based on the estimates in Table 9 (which used the [average] observed difference in concentration between locations in the Open Channel to Outfall 002 [Locations 7B and 15] and Outfall 002 [Location 20] from both the May and June sampling events), the Open Channel to Outfall 002 is assumed to contribute 53% of the loading added to Outfall 002 from the Site Conveyance Network (including the WWTP effluent) during dry weather. The low and "best" estimates for potential reductions assume 25% and 50% reduction of all of the load from the Open Channel to Outfall 002, respectively.
4		Decommission Terracotta Pipe	2 years	0.1%	1%	2%	The loading from Outfall 001 (WWTP effluent) was estimated to only be 2% of the total Outfall 002 loading (in 2018). Assuming sediment in the pipes is contributing all of the load to the WWTP, 2% reduction would be achieved.
5	**WET** interventions that could be expected to appreciably reduce load	Continue Air Abatement Measures	End of 2019	-	-	-	Not quantifiable at this time. A longer time period is needed to evaluate long-term effects of these measures. Over time this will reduce stormwater loading as HFPO-DA and PFMOAA aerial deposition rates are being reduced by 99%.
6		Implement Targeted Stormwater Source Control and Treatment	4 years	1%	16%	30%	Used the long-term continuous hydrologic model of the Site (including drainage areas to the targeted subareas) to determine best management practices capture volume (approximately 80% of long-term average) and percent of site-wide volume that is from potential targeted areas, then multiplied these by average stormwater concentrations to estimate percent of site-wide load that could be reduced. Assumed 99% concentration reduction of captured stormwater flows.

Action #	Category	Potential Actions	Potential Completion Date	Potential Load Reduction to Cape Fear River Loading (for HFPO-DA, compared to 2018)[1]	Lower Estimate of Potential Reductions (for HFPO-DA) as compared to 2018[2, 3, 4]	Best Estimate of Potential Reductions (for HFPO-DA) as compared to 2018[2, 3, 4]	Notes on Estimated Reduction
7		Treat Stormwater End of Pipe	5 years	2%	31%	40%	Assumed 90% capture of stormwater flows (in 2018) for the best estimate of potential reduction (and 70% capture for the low estimate) and assumed 99% concentration reduction in captured flows.
8	**WET** interventions that would **NOT** be expected to appreciably reduce load	Stormwater Pollution Prevention Plan (SWPPP)	1 year	-	-	-	SWPPP development and implementation will focus on good housekeeping practices, exposure minimization, and erosion control, which are designed to control stormwater pollutant sources from existing industrial activities, materials, and equipment and soils. However, these sources are not believed to be contributing PFAS in stormwater runoff at the site (for example, concentrations of PFAS in stormwater at the site were not associated with TSS), therefore this action is not expected to yield significant reduction of stormwater loads, and no reduction quantification was possible at this time. However, it may be possible that reducing soil erosion in wet weather will reduce sediment accumulation along the Site Conveyance Network, which could then reduce sediment contribution to overlying water during dry weather.
9	Comprehensive **DRY + WET** intervention	Treat All Flows End of Pipe	3 years	3%	-	80%	Assumed treatment of all dry weather and stormwater flows up to a design flowrate that achieves a load reduction at the 80% target. Assumed 99% concentration removal by treatment.

[1] Assumes that the Outfall 002 load contribution is 4.2% of the river load.

[2] Calculations are based on the 2018 calendar year loading being approximately 45% contributions from stormwater and 55% contributions from dry weather flow. These ratios will vary based on the amount of rainfall in future years.

[3] While many of these reductions were estimated using 2019 concentration data (which would more closely represent percent reductions from 2019 loads), reductions are shown consistent across all the control measures (from the 2018 calendar year) for simplicity.

[4] Estimated reductions are only shown for HFPO-DA; The amount of PFMOAA data is too limited to make reduction estimates at present.

5 SUMMARY

The loading estimates for HFPO-DA and PFMOAA to Outfall 002 for the 2018 calendar year show that stormwater and NCCW in the Site Conveyance Network are the primary contributors to the Outfall 002 loading, estimated to comprise 45% and 53% of the 2018 calendar year loading, respectively. The river intake is estimated to contribute approximately 11% of the Outfall 002 loading in 2018. Therefore, approximately 42% of the total Outfall 002 loading is added from NCCW in the Site Conveyance Network. The WWTP effluent (at 2%) does not contribute significant loading to Outfall 002, due to the relatively small effluent flows. The sampling results from within the Site Conveyance Network during dry weather show that the majority of the dry weather load to Outfall 002 appears to be added in the Cooling Water Channel and the Open Channel to Outfall 002. A number of possible diffuse source inputs could potentially explain these increases, and potential control measures are identified to address these. Several of these measures were evaluated and found to potentially significantly reduce dry weather loading to Outfall 002.

Stormwater sampling results show that stormwater concentrations are higher than typical concentrations measured at Outfall 002, confirming that stormwater contributes significant loading to Outfall 002, even though it contributes a relatively small volume compared to dry weather flow sources (in particular, NCCW). Additionally, there were several areas throughout the site with elevated concentrations in stormwater.

Nine potential control approaches were presented. These approaches provide differing levels of reductions, time to implement, and cost effectiveness for benefit achieved. Additional Site stormwater investigations are presently being performed to refine the selection and implementation of control approaches. The Reduction Plan (Geosyntec, 2019a) outlines the proposed reduction actions pursuant to Consent Order Paragraph 12 and an assessment of Consent Order Paragraph 12(d) relating to Outfall 002 reductions of HFPO-DA and PFMOAA.

6 REFERENCES

Geosyntec, 2019a. Cape Fear River PFAS Loading Reduction Plan. Chemours Fayetteville Works. August 26, 2019.

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TABLES

TABLE 1
OUTFALL 002 HFPO-DA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	QA/QC	Concentrations (ng/L)
DA0617-70614	06/14/2017	--	**80,000 J**
DA0617-70615	06/15/2017	--	**44,000 J**
Chemours Outfall 002-061917	06/19/2017	--	**39,000**
DA0617-70619	06/19/2017	--	**42,000**
DA0617-70620	06/20/2017	--	**37,000 J**
DA0617-70620A	06/21/2017	--	**45,000**
DA0617-SE70621	06/22/2017	--	**24,000**
Chemours Outfall 002-626	06/26/2017	--	**19,000**
DA0617-SE70626	06/27/2017	--	**41,000**
DA0617-SE70627	06/28/2017	--	**27,000**
DA0617-SE70628	06/29/2017	--	**15,000**
Chemours Outfall 002-070317	07/03/2017	--	**30,000 J**
DA0717-SE70703	07/04/2017	--	**27,000**
DA0717-SE70704	07/05/2017	--	**17,000**
DA0717-SE70705	07/06/2017	--	**12,000**
DA0717-SE70710	07/11/2017	--	**4,100**
Chemours Outfall 002-071217	07/12/2017	--	**3,300**
DA0717-SE70711	07/12/2017	--	**4,500**
DA0717-SE70712	07/13/2017	--	**3,000**
Chemours Outfall 002-071717	07/17/2017	--	**830**
DA0717-SE70717	07/18/2017	--	**960**
DA0717-SE70718	07/19/2017	--	**880**
DA0717-SE70719	07/20/2017	--	**550**
Chemours Outfall 002-072417	07/24/2017	--	**150**
DA0717-SE70724	07/25/2017	--	**170**
DA0717-SE70725	07/26/2017	--	**130**
DA0717-SE70726	07/27/2017	--	**120**
GW0817-OUTFALL	08/01/2017	--	**110**
O70801	08/01/2017	--	**68**
DA0717-SE70731	08/01/2017	--	**82**
O70802	08/02/2017	--	**66**
O70803	08/03/2017	--	**65**
O70804	08/04/2017	--	**59**
O70807	08/07/2017	--	**57**
O70808	08/08/2017	--	**190**
O70809	08/09/2017	--	**230**
O70810	08/10/2017	--	**120**
O70811	08/11/2017	--	**140**
SE70814	08/15/2017	--	**170**
O70816	08/16/2017	--	**140**
SE70815	08/16/2017	--	**220**
O70817	08/17/2017	--	**100**
O70818	08/18/2017	--	**140**
O70821	08/21/2017	--	**87**
O70822	08/22/2017	--	**95**
O70823	08/23/2017	--	**140**
O70824	08/24/2017	--	**210**
O70825	08/25/2017	--	**130**
O70828	08/28/2017	--	**77**
O70829	08/29/2017	--	**120**
O70830	08/30/2017	--	**91**
O70831	08/31/2017	--	**62**
O70901	09/01/2017	--	**180**
O70905	09/05/2017	--	**70**
O70906	09/06/2017	--	**250**
O70907	09/07/2017	--	**140**
O70908	09/08/2017	--	**69**
O70911	09/11/2017	--	**67 J**
002-091117	09/11/2017	--	**64 J**
O70912	09/12/2017	--	**420**
O70913	09/13/2017	--	**88**
O70914	09/14/2017	--	**58**
O70915	09/15/2017	--	**330 J**
O70918	09/18/2017	--	**79**
O70919	09/19/2017	--	**50**
O70920	09/20/2017	--	**68**
O70921	09/21/2017	--	**110**
O70922	09/22/2017	--	**110**
O70925	09/25/2017	--	**20**
O70926	09/26/2017	--	**51**
Fay-D-outfall	09/27/2017	--	**35**
Fay-D-outfall-D	09/27/2017	Duplicate	**36**
O70927	09/27/2017	--	**55**
O70928	09/28/2017	--	**43**
O70929	09/29/2017	--	**51**
O71002	10/02/2017	--	**35**

TABLE 1
OUTFALL 002 HFPO-DA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	QA/QC	Concentrations (ng/L)
O71003	10/03/2017	--	**65**
O71004	10/04/2017	--	**210**
O71005	10/05/2017	--	**69**
O71006	10/06/2017	--	**250**
Outfall 002-71009	10/09/2017	--	**3,700**
Outfall 002-71012	10/12/2017	--	**740**
Outfall 002-71016	10/16/2017	--	**390**
Outfall 002-71030	10/30/2017	--	**2,400 J**
Outfall 002-71102	11/02/2017	--	**290**
Outfall 002-71106	11/06/2017	--	**86**
Outfall 002-71109	11/09/2017	--	**130 J**
Outfalll 002-71113	11/13/2017	--	**160**
SE71114	11/15/2017	--	**59**
Outfall 002-71116	11/16/2017	--	**130 J**
SE71115	11/16/2017	--	**38 J**
SE71116	11/17/2017	--	**65 J**
Outfall 002-71120	11/20/2017	--	**95**
SE71119	11/20/2017	--	**88**
SE71120	11/21/2017	--	**37**
Outfall 002-71122	11/22/2017	--	**77**
SE71121	11/22/2017	--	**70**
SE71122	11/23/2017	--	**72**
SE71123	11/24/2017	--	**50**
Outfall 002-71127	11/27/2017	--	**130**
SE71126	11/27/2017	--	**45**
SE71127	11/28/2017	--	**34 J**
SE71128	11/29/2017	--	**50**
Outfall 002-71130	11/30/2017	--	**110**
SE71129	11/30/2017	--	**96**
SE71130	12/01/2017	--	**50**
Outfall 002-71204	12/04/2017	--	**120**
SE71203	12/04/2017	--	**76**
SE71204	12/05/2017	--	**160**
SE71205	12/06/2017	--	**150**
Outfall 002-71207	12/07/2017	--	**240**
SE71206	12/07/2017	--	**280**
SE71207	12/08/2017	--	**290**
Outfall 002-71211	12/11/2017	--	**2,100**
Outfall 002-71214	12/14/2017	--	**120**
Outfall 002-71218	12/18/2017	--	**78**
SE71220	12/21/2017	--	**740**
Outfall002-71222	12/22/2017	--	**470**
Outfall 002-71228	12/28/2017	--	**190**
Outfall 002-80102	01/02/2018	--	**96**
Outfall 002-80105	01/05/2018	--	**130**
Outfall 002-80108	01/08/2018	--	**98**
Outfall 002-80111	01/11/2018	--	**320**
Outfall 002-80116	01/16/2018	--	**370**
Outfall 002-80118	01/18/2018	--	**360**
Outfall 002-80122	01/22/2018	--	**1,500**
SE80125	01/26/2018	--	**86**
Outfall 002-80129	01/29/2018	--	**960**
Outfall 002-80201	02/01/2018	--	**410**
080205-Outfall 002	02/05/2018	--	**600**
080208-Outfall 002	02/08/2018	--	**340**
O80212-Outfall 002	02/12/2018	--	**420 J**
O80215-Outfall 002	02/15/2018	--	**120 J**
O80219-Outfall 002	02/19/2018	--	**88**
O80222-Outfall 002	02/22/2018	--	**83**
O80226-Outfall 002	02/26/2018	--	**140**
O80301-Outfall 002	03/01/2018	--	**450**
O80305-Outfall 002	03/05/2018	--	**230 J**
O80308-Outfall 002	03/08/2018	--	**220**
O80312 - Outfall 002	03/12/2018	--	**150**
O80315 - Outfall 002	03/15/2018	--	**240**
O80319-Outfall 002	03/19/2018	--	**140**
O80322-Outfall 002	03/22/2018	--	**300**
O80326 - Outfall 002	03/26/2018	--	**380**
O80329 - Outfall 002	03/29/2018	--	**140**
O80402 - Outfall 002	04/02/2018	--	**91**
O80405 - Outfall 002	04/05/2018	--	**91**
O80409 - Outfall 002	04/09/2018	--	**1,300**
O80412 - Outfall 002	04/12/2018	--	**120 J**
O80416 - Outfall 002	04/16/2018	--	**690**
O80419 - Outfall 002	04/19/2018	--	**46 J**
O80423 - Outfall 002	04/23/2018	--	**280 J**

TABLE 1
OUTFALL 002 HFPO-DA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	QA/QC	Concentrations (ng/L)
O80426 - Outfall 002	04/26/2018	--	**1,100**
O80430 - Outfall 002	04/30/2018	--	**190**
O80503 - Outfall 002	05/03/2018	--	**90**
O80507 - Outfall 002	05/07/2018	--	**85**
FAY-SW-002-1-050918	05/09/2018	--	**45**
80510 - Outfall 002	05/10/2018	--	**68**
O80514 - Outfall 002	05/14/2018	--	**110**
O80517 - Outfall 002	05/17/2018	--	**110**
O50821 - Outfall 002	05/21/2018	--	**370**
O50824 - Outfall 002	05/24/2018	--	**90**
O80529 - Outfall 002	05/29/2018	--	**300**
O80531 - Outfall 002	05/31/2018	--	**120**
O80604 - Outfall 002	06/04/2018	--	**66**
O80607 - Outfall 002	06/07/2018	--	**59**
O80611 - Outfall 002	06/11/2018	--	**54 J**
O80614 - Outfall 002	06/14/2018	--	**220 J**
O80618 - Outfall 002	06/18/2018	--	**71 J**
O80621 - Outfall 002	06/21/2018	--	**120**
O80625 - Outfall 002	06/25/2018	--	**46 J**
O80628 - Outfall 002	06/28/2018	--	**150 J**
O80702 - Outfall 002	07/02/2018	--	**43**
O80705 - Outfall 002	07/05/2018	--	**38**
O80709 - Outfall 002	07/09/2018	--	**110**
O80712 - Outfall 002	07/12/2018	--	**33**
O80716 - Outfall 002	07/16/2018	--	**53**
O80719 - Outfall 002	07/19/2018	--	**39**
O80723 - Outfall 002	07/23/2018	--	**24**
O80726 - Outfall 002	07/26/2018	--	**38**
O80730 - Outfall 002	07/30/2018	--	**39**
O80802 - Outfall 002	08/02/2018	--	**210**
O80806 - Outfall 002	08/06/2018	--	**230**
O80809 - Outfall 002	08/09/2018	--	**50**
O80813 - Outfall 002	08/13/2018	--	**140**
O80816 - Outfall 002	08/16/2018	--	**83**
O80820 - Outfall 002	08/20/2018	--	**56**
O80823 - Outfall 002	08/23/2018	--	**110**
O80827 - Outfall 002	08/27/2018	--	**36**
O80830 - Outfall 002	08/30/2018	--	**34**
O80904 - Outfall 002	09/04/2018	--	**34**
O80906 - Outfall 002	09/06/2018	--	**26**
O80910 - Outfall 002	09/10/2018	--	**27**
O80920 - Outfall 002	09/20/2018	--	**310**
O80924 - Outfall 002	09/24/2018	--	**87**
O80927 - Outfall 002	09/27/2018	--	**120**
O81001 - Outfall 002	10/01/2018	--	**74**
O81004	10/04/2018	--	**60**
O81008 - Outfall 002	10/08/2018	--	**58 J**
O81011	10/11/2018	--	**80**
O81015 - Outfall 002	10/15/2018	--	**400**
O81025 - Outfall 002	10/25/2018	--	**57**
O81029 -Outfall 002	10/29/2018	--	**340**
O81101 - Outfall 002	11/01/2018	--	**53**
O81105 - Outfall 002	11/05/2018	--	**280**
O81108 - Outfall 002	11/08/2018	--	**270**
O81113-OUTFALL002	11/13/2018	--	**390 J**
O81115-OUTFALL002	11/15/2018	--	**390**
O81119-OUTFALL 002	11/19/2018	--	**190**
PF1018-Outfall-002	11/20/2018	--	**70**
O81126-Outfall 002	11/26/2018	--	**350**
O81203-Outfall 002	12/03/2018	--	**560**
O81206-Outfall 002	12/06/2018	--	**72**
O81210-Outfall 002	12/10/2018	--	**710**
O81213-Outfall 002	12/13/2018	--	**200**
O81217-Outfall 002	12/17/2018	--	**440**
O81221 - Outfall 002	12/21/2018	--	**330**
O81227 - Outfall 002	12/27/2018	--	**120**
O81231 OUTFALL 002	12/31/2018	--	**430**
O90103 - OUTFALL 002	01/03/2019	--	**190**
O90107 - OUTFALL 002	01/07/2019	--	**340**
O90110 - OUTFALL 002	01/10/2019	--	**110**
O90114 - Outfall 002	01/14/2019	--	**240**
O90117 - Outfall 002	01/17/2019	--	**92**
O90122 - OUTFALL 002	01/22/2019	--	**190**
O90125 - OUTFALL 002	01/25/2019	--	**340**
O90128-OUTFALL 002	01/28/2019	--	**85**
O90201-OUTFALL 002	02/01/2019	--	**88**

TABLE 1
OUTFALL 002 HFPO-DA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	QA/QC	Concentrations (ng/L)
O90204-Outfall 002	02/04/2019	--	**91**
O90207-Outfall 002	02/07/2019	--	**88**
O90211-OUTFALL 002	02/11/2019	--	**90**
O90214-OUTFALL 002	02/14/2019	--	**240**
O90218-Outfall 002	02/18/2019	--	**170**
O90221-Outfall 002	02/18/2019	--	**130**
O90225-Outfall 002	02/25/2019	--	**350**
90228-outfall 002	02/28/2019	--	**54**
O90304 - Outfall 002	03/04/2019	--	**290**
O90307 - Outfall 002	03/07/2019	--	**62**
O90311 - OUTFALL 002	03/11/2019	--	**110**
O90314 - Outfall 002	03/14/2019	--	**49**
O90318-Outfall 002	03/18/2019	--	**120**
O90321-Outfall 002	03/21/2019	--	**72**
O90325 - Outfall 002	03/25/2019	--	**87**
O90328 - Outfall 002	03/28/2019	--	**110**
090401-Outfall 002	04/01/2019	--	**68**
090405-Outfall 002	04/05/2019	--	**350**
SW2019-OUTFALL02-040819	04/08/2019	--	**48**
O90409 - Outfall 002	04/09/2019	--	**240**
O90412 - Outfall 002	04/12/2019	--	**73**
O90416-OUTFALL 002	04/16/2019	--	**140**
O90418-OUTFALL 002	04/18/2019	--	**48**
O90423-Outfall 002	04/23/2019	--	**140**
O90426- Outfall 002	04/26/2019	--	**59**
O90430-Outfall 002	04/30/2019	--	**58**
O90503-Outfall 002	05/03/2019	--	**56**
O090507-Outfall 002	05/07/2019	--	**190**
O90509-Outfall 002	05/09/2019	--	**290**
O90514-Outfall 002	05/14/2019	--	**83**
O90517- Outfall 002	05/17/2019	--	**47**
O90528 - Outfall 002	05/28/2019	--	**76**
O90531 - Outfall 002	05/31/2019	--	**68**
O90611 - Outfall 002	06/11/2019	--	**250**
O90614 - Outfall 002	06/14/2019	--	**72**
O90618	06/18/2019	--	**27**
O90620	06/20/2019	--	**33**
O90625	06/25/2019	--	**44**
O90627	06/28/2019	--	**28**
O90701	07/01/2019	--	**33**
O90703	07/03/2019	--	**42**
O90708	07/08/2019	--	**320**
O90712	07/12/2019	--	**68**

Notes:
Bold - Analyte detected above associated reporting limit
HFPO-DA - hexafluoropropylene oxide dimer acid
ID - identifier
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
-- - no corresponding QA/QC sample

TABLE 2
OUTFALL 002 PFMOAA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	Concentrations (ng/L)
080503 OUTFALL 002	05/03/2018	**310**
FAY-SW-002-1-050918	05/09/2018	**340**
080524 OUTFALL 002	05/24/2018	**370**
172250 OUTFALL 002	06/04/2018	**700**
180567 OUTFALL 002	06/14/2018	**260**
195273 OUTFALL 002	07/02/2018	<200
207436 OUTFALL 002	07/16/2018	<200
218736 OUTFALL 002	08/02/2018	<200
240652 OUTFALL 002	08/30/2018	<200
249022 OUTFALL 002	09/10/2018	<200
269059 OUTFALL 002	10/04/2018	**230**
PF1018-Outfall-002	11/20/2018	<200
O90204-Outfall 002	02/04/2019	<210
O90207-Outfall 002	02/07/2019	<210
O90211-OUTFALL 002	02/11/2019	<210
O90214-OUTFALL 002	02/14/2019	<210
O90218-Outfall 002	02/18/2019	<210
O90221-Outfall 002	02/21/2019	<210
O90225-Outfall 002	02/25/2019	<210
90228-outfall 002	02/28/2019	<210
O90304 - Outfall 002	03/04/2019	**1,300**
O90307 - Outfall 002	03/07/2019	**720**
O90311 - OUTFALL 002	03/11/2019	<210
O90314 - Outfall 002	03/14/2019	<210
O90318-Outfall 002	03/18/2019	<210
O90321-Outfall 002	03/21/2019	<210
O90325 - Outfall 002	03/25/2019	<210
O90328 - Outfall 002	03/28/2019	<210
090401-Outfall 002	04/01/2019	<210
090405-Outfall 002	04/05/2019	<210
SW2019-OUTFALL02-040819	04/08/2019	<210
O90409 - Outfall 002	04/09/2019	<210
O90412 - Outfall 002	04/12/2019	<210
O90416-OUTFALL 002	04/16/2019	<210
O90418-OUTFALL 002	04/18/2019	<210
O90423 - Outfall 002	04/23/2019	**120**
O90426 - Outfall 002	04/26/2019	**70**
O90430-Outfall 002	04/30/2019	<210
O90503-Outfall 002	05/03/2019	<210
O090507-Outfall 002	05/07/2019	<210
O90509-Outfall 002	05/09/2019	<210
O90514-Outfall 002	05/14/2019	<210
O90517- Outfall 002	05/17/2019	<210
DSTW-OUTFALL 002-052019	05/20/2019	<210
O90528 - Outfall 002	05/28/2019	**5,500**
FAY-DSTW-OUTFALL002-053019	05/30/2019	**2,500**
O90531 - Outfall 002	05/31/2019	**2,100**
O90611 - Outfall 002	06/11/2019	<210
O90614 - Outfall 002	06/14/2019	<210

Notes:
Bold - Analyte detected above associated reporting limit
ID - identifier
ng/L - nanograms per liter
PFMOAA - perfluoro-2-methoxyaceticacid
QA/QC - Quality assurance/ quality control
< - Analyte not detected above associated reporting limit.

TABLE 3
RIVER INTAKE HFPO-DA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	Concentrations (ng/L)
DA0717-RW70706	07/06/2017	**5,300**
River Water Influent-071917	07/19/2017	**330**
24 River Water Influent-726	07/26/2017	**17**
GW0817-INTAKE	08/01/2017	**11**
24 River Water Influent-70802	08/02/2017	**15**
RW70808	08/08/2017	**47**
RW70815	08/15/2017	**17**
RW70823	08/23/2017	**74**
RW70829	08/29/2017	**37**
RW70905	09/05/2017	<10
RW70914	09/14/2017	**78**
RW70920	09/20/2017	**14**
RW70926	09/26/2017	**14**
RW71003	10/03/2017	<10
RW71011	10/11/2017	**11**
RW71016	10/16/2017	**65**
RW71103	11/03/2017	**25**
RW71110	11/10/2017	**110**
RW71115	11/15/2017	**11**
RW71122	11/22/2017	**81**
RW71201	12/01/2017	**63**
RW71208	12/08/2017	**25**
RW71213	12/13/2017	**17**
RW71218	12/18/2017	**44**
RW71228	12/28/2017	**82**
RW80105	01/05/2018	**42**
RW80108	01/08/2018	**20**
RW80117	01/17/2018	**43**
RW80124	01/24/2018	**54**
RW80202	02/02/2018	**29**
RW80207	02/07/2018	<10
RW80214	02/14/2018	**21 J**
R80221	02/21/2018	**12**
R80301	03/01/2018	**41**
R80307	03/07/2018	**26**
R80314	03/14/2018	<10
R80315	03/15/2018	<10
R80320	03/20/2018	**16**
R80328	03/28/2018	<10
R80403	04/03/2018	<10
R80411	04/11/2018	**60 J**
R80419	04/19/2018	**160 J**
R80426	04/26/2018	<10
R80503	05/03/2018	**10**
FAY-D-XRIV-H2O-050918	05/09/2018	**12**
R80509	05/09/2018	**20**
R80514	05/14/2018	**20**
R80524	05/24/2018	**22**
R80530	05/30/2018	**15**
R80607	06/07/2018	**39**
R80614	06/14/2018	**36 J**
River-Water-Intake-062018	06/20/2018	**9.3000**
R80621	06/21/2018	**52**
R80626	06/26/2018	**20 J**
R80706	07/06/2018	**27**
R80711	07/11/2018	<10
R80718	07/18/2018	**39**
R80725	07/25/2018	<10
R80802	08/02/2018	<10
R80808	08/08/2018	<10
R80815	08/15/2018	**23**
R80822	08/22/2018	**33**
R80830	08/30/2018	**17**
R80905	09/05/2018	**13**
R80912	09/12/2018	<10
R80920	09/20/2018	**24**
R80927	09/27/2018	**13**
R81004	10/04/2018	<10
R81010	10/10/2018	**12**
R81018	10/18/2018	<10
R81024	10/24/2018	<10
R81031	10/31/2018	**11**
R81107	11/07/2018	<10
R81114	11/14/2018	<10
PF1018-Excess River Water	11/19/2018	**12 B**
R81120	11/20/2018	**30**
R81127	11/27/2018	<10

TABLE 3
RIVER INTAKE HFPO-DA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	Concentrations (ng/L)
R81205	12/05/2018	**32**
R81213	12/13/2018	**16**
R81219	12/19/2018	**12**
R81227	12/27/2018	**18**
R90102	01/02/2019	**10**
R90108	01/08/2019	<10
R90118	01/18/2019	**82**
R90125	01/25/2019	**11**
R90128	01/28/2019	**15**
R90207	02/07/2019	**19**
R90214	02/14/2019	**12**
R90218	02/18/2019	**10**
R90225	02/25/2019	**11**
R90306	03/06/2019	**21**
R90312	03/12/2019	**10**
R90320	03/20/2019	**16**
R90327	03/27/2019	**20**
R90404	04/04/2019	**19**
SW2019-EXCESSRIVER-040819	04/08/2019	**23**
SW2019-INTAKE-040819	04/08/2019	**19**
R90410	04/10/2019	<10
R90415	04/15/2019	<4.0
R90423	04/23/2019	<10
DSTW-LOC1-042419	04/24/2019	**14**
R90429	04/29/2019	**28**
R90508	05/08/2019	**13**
R90516	05/16/2019	**10**
R90529	05/29/2019	<10
R90606	06/06/2019	**150**
R90612	6/12/2019	<10
R90619	6/19/2019	<10
R90627	6/27/2019	<10
R90703	7/3/2019	**22**
R90710	7/10/2019	**14**

Notes:
Bold - Analyte detected above associated reporting limit
B - Analyte detected in associated blank.
HFPO-DA - hexafluoropropylene oxide dimer acid
ID - identifier
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
UJ – Analyte not detected. Reporting limit may not be accurate or precise
< - Analyte not detected above associated reporting limit.

TABLE 4
RIVER INTAKE PFMOAA CONCENTRATIONS (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Field Sample ID	Sample Date	Concentrations (ng/L)
FAY-D-XRIV-H2O-050918	05/09/2018	<100
River-Water-Intake-062018	06/20/2018	<95
PF1018-Excess River Water	11/19/2018	<200 UJ
R90207	02/07/2019	<210
R90214	02/14/2019	<210
R90218	02/18/2019	<210
R90225	02/25/2019	<210
R90306	03/06/2019	<210
R90312	03/12/2019	<210
R90320	03/20/2019	<210
R90327	03/27/2019	<210
R90404	04/04/2019	<210
SW2019-EXCESSRIVER-040819	04/08/2019	<210
SW2019-INTAKE-040819	04/08/2019	<210
R90410	04/10/2019	<210
R90415	04/15/2019	<210
R90423	04/23/2019	**10**
DSTW-LOC1-042419	04/24/2019	<210 UJ
R90429	04/29/2019	<210
R90508	05/08/2019	<210
R90516	05/16/2019	<210
DSTW-EXCESS RIVER WATER-052019	05/20/2019	<210
R90529	05/29/2019	<210
R90606	06/06/2019	**14,000**
R90612	6/12/2019	<210

Notes:
Bold - Analyte detected above associated reporting limit
ID - identifier
ng/L - nanograms per liter
PFMOAA - perfluoro-2-methoxyaceticacid
QA/QC - Quality assurance/ quality control
UJ – Analyte not detected. Reporting limit may not be accurate or precise
< - Analyte not detected above associated reporting limit.

TABLE 5
TOTAL DAILY PRECIPITATION (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Date	Total Precipitation (inches)
6/1/2017	--
6/2/2017	--
6/3/2017	0.13
6/4/2017	--
6/5/2017	1.66
6/6/2017	--
6/7/2017	--
6/8/2017	0.02
6/9/2017	--
6/10/2017	--
6/11/2017	--
6/12/2017	--
6/13/2017	--
6/14/2017	0.96
6/15/2017	0.03
6/16/2017	0.04
6/17/2017	0.03
6/18/2017	--
6/19/2017	--
6/20/2017	0.74
6/21/2017	0.12
6/22/2017	0.4
6/23/2017	--
6/24/2017	1.93
6/25/2017	0.01
6/26/2017	--
6/27/2017	--
6/28/2017	--
6/29/2017	--
6/30/2017	1.84
7/1/2017	0.01
7/2/2017	--
7/3/2017	0.2
7/4/2017	0.03
7/5/2017	--
7/6/2017	--
7/7/2017	--
7/8/2017	--
7/9/2017	--
7/10/2017	0.82
7/11/2017	--
7/12/2017	--
7/13/2017	--
7/14/2017	--
7/15/2017	0.33
7/16/2017	0.12
7/17/2017	0.05
7/18/2017	0.31
7/19/2017	--
7/20/2017	--
7/21/2017	--
7/22/2017	--
7/23/2017	0.13
7/24/2017	--
7/25/2017	--
7/26/2017	--
7/27/2017	--
7/28/2017	--
7/29/2017	0.44
7/30/2017	--
7/31/2017	--
8/1/2017	--
8/2/2017	--
8/3/2017	--
8/4/2017	0.02
8/5/2017	--
8/6/2017	--
8/7/2017	0.12
8/8/2017	1.4
8/9/2017	0.11
8/10/2017	--
8/11/2017	0.01
8/12/2017	0.47
8/13/2017	1.72
8/14/2017	0.01
8/15/2017	0.05
8/16/2017	--
8/17/2017	0.24
8/18/2017	--
8/19/2017	--
8/20/2017	--
8/21/2017	--
8/22/2017	--
8/23/2017	1.02
8/24/2017	--
8/25/2017	--
8/26/2017	--
8/27/2017	--
8/28/2017	0.22
8/29/2017	0.01
8/30/2017	--
8/31/2017	0.29
9/1/2017	0.93
9/2/2017	0.05
9/3/2017	--
9/4/2017	--
9/5/2017	0.05
9/6/2017	0.57
9/7/2017	--
9/8/2017	--
9/9/2017	--
9/10/2017	--
9/11/2017	0.05
9/12/2017	0.96
9/13/2017	--
9/14/2017	--
9/15/2017	--
9/16/2017	--
9/17/2017	--
9/18/2017	--
9/19/2017	--
9/20/2017	0.28
9/21/2017	--
9/22/2017	--
9/23/2017	--
9/24/2017	--
9/25/2017	--
9/26/2017	--
9/27/2017	--
9/28/2017	--
9/29/2017	--
9/30/2017	--
10/1/2017	--
10/2/2017	--
10/3/2017	--
10/4/2017	--
10/5/2017	--
10/6/2017	--
10/7/2017	1.86
10/8/2017	1.14
10/9/2017	0.08
10/10/2017	--
10/11/2017	--
10/12/2017	--
10/13/2017	--
10/14/2017	--
10/15/2017	--
10/16/2017	0.09
10/17/2017	0.01
10/18/2017	--
10/19/2017	--
10/20/2017	--
10/21/2017	--
10/22/2017	--
10/23/2017	0.15
10/24/2017	0.01
10/25/2017	--
10/26/2017	--
10/27/2017	--
10/28/2017	0.73
10/29/2017	0.03
10/30/2017	--
10/31/2017	--
11/1/2017	--
11/2/2017	--
11/3/2017	--

TABLE 5
TOTAL DAILY PRECIPITATION (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Date	Total Precipitation (inches)
11/4/2017	--
11/5/2017	--
11/6/2017	--
11/7/2017	--
11/8/2017	0.03
11/9/2017	0.22
11/10/2017	0.01
11/11/2017	--
11/12/2017	--
11/13/2017	0.14
11/14/2017	--
11/15/2017	--
11/16/2017	--
11/17/2017	--
11/18/2017	--
11/19/2017	0.06
11/20/2017	--
11/21/2017	--
11/22/2017	0.03
11/23/2017	--
11/24/2017	--
11/25/2017	--
11/26/2017	--
11/27/2017	--
11/28/2017	--
11/29/2017	--
11/30/2017	--
12/1/2017	--
12/2/2017	0.09
12/3/2017	0.01
12/4/2017	--
12/5/2017	--
12/6/2017	0.24
12/7/2017	0.07
12/8/2017	2.43
12/9/2017	0.3
12/10/2017	--
12/11/2017	--
12/12/2017	--
12/13/2017	--
12/14/2017	--
12/15/2017	--
12/16/2017	--
12/17/2017	--
12/18/2017	--
12/19/2017	--
12/20/2017	0.57
12/21/2017	--
12/22/2017	--
12/23/2017	--
12/24/2017	0.03
12/25/2017	0.01

Date	Total Precipitation (inches)
12/26/2017	--
12/27/2017	0.15
12/28/2017	--
12/29/2017	--
12/30/2017	--
12/31/2017	--
1/1/2018	--
1/2/2018	--
1/3/2018	--
1/4/2018	0.01
1/5/2018	--
1/6/2018	--
1/7/2018	--
1/8/2018	--
1/9/2018	--
1/10/2018	--
1/11/2018	0.09
1/12/2018	0.22
1/13/2018	--
1/14/2018	--
1/15/2018	--
1/16/2018	--
1/17/2018	0.2
1/18/2018	0.07
1/19/2018	0.01
1/20/2018	--
1/21/2018	--
1/22/2018	--
1/23/2018	0.08
1/24/2018	--
1/25/2018	--
1/26/2018	--
1/27/2018	--
1/28/2018	1.04
1/29/2018	1.04
1/30/2018	0.03
1/31/2018	--
2/1/2018	--
2/2/2018	0.18
2/3/2018	--
2/4/2018	1.12
2/5/2018	--
2/6/2018	--
2/7/2018	0.08
2/8/2018	0.03
2/9/2018	--
2/10/2018	0.21
2/11/2018	--
2/12/2018	0.01
2/13/2018	--
2/14/2018	--
2/15/2018	--

Date	Total Precipitation (inches)
2/16/2018	--
2/17/2018	--
2/18/2018	--
2/19/2018	0.04
2/20/2018	0.01
2/21/2018	--
2/22/2018	--
2/23/2018	--
2/24/2018	--
2/25/2018	--
2/26/2018	0.22
2/27/2018	0.01
2/28/2018	0.07
3/1/2018	0.9
3/2/2018	--
3/3/2018	--
3/4/2018	--
3/5/2018	--
3/6/2018	0.26
3/7/2018	0.02
3/8/2018	--
3/9/2018	--
3/10/2018	--
3/11/2018	0.02
3/12/2018	0.63
3/13/2018	0.01
3/14/2018	--
3/15/2018	--
3/16/2018	--
3/17/2018	--
3/18/2018	--
3/19/2018	0.01
3/20/2018	0.57
3/21/2018	0.1
3/22/2018	--
3/23/2018	--
3/24/2018	0.43
3/25/2018	0.21
3/26/2018	--
3/27/2018	0.01
3/28/2018	--
3/29/2018	--
3/30/2018	--
3/31/2018	--
4/1/2018	--
4/2/2018	--
4/3/2018	--
4/4/2018	--
4/5/2018	--
4/6/2018	--
4/7/2018	0.68
4/8/2018	0.25

TABLE 5
TOTAL DAILY PRECIPITATION (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Date	Total Precipitation (inches)
4/9/2018	0.04
4/10/2018	--
4/11/2018	--
4/12/2018	--
4/13/2018	--
4/14/2018	--
4/15/2018	1.06
4/16/2018	--
4/17/2018	--
4/18/2018	--
4/19/2018	--
4/20/2018	--
4/21/2018	--
4/22/2018	--
4/23/2018	0.23
4/24/2018	1.18
4/25/2018	--
4/26/2018	--
4/27/2018	0.13
4/28/2018	--
4/29/2018	--
4/30/2018	--
5/1/2018	--
5/2/2018	--
5/3/2018	--
5/4/2018	--
5/5/2018	--
5/6/2018	0.04
5/7/2018	--
5/8/2018	--
5/9/2018	--
5/10/2018	0.08
5/11/2018	--
5/12/2018	--
5/13/2018	--
5/14/2018	--
5/15/2018	--
5/16/2018	0.25
5/17/2018	0.8
5/18/2018	0.01
5/19/2018	0.23
5/20/2018	--
5/21/2018	--
5/22/2018	--
5/23/2018	0.07
5/24/2018	1.86
5/25/2018	--
5/26/2018	0.02
5/27/2018	--
5/28/2018	0.58
5/29/2018	0.13
5/30/2018	--
5/31/2018	--
6/1/2018	--
6/2/2018	--
6/3/2018	--
6/4/2018	--
6/5/2018	--
6/6/2018	--
6/7/2018	--
6/8/2018	--
6/9/2018	0.02
6/10/2018	--
6/11/2018	1.81
6/12/2018	0.73
6/13/2018	--
6/14/2018	--
6/15/2018	--
6/16/2018	--
6/17/2018	--
6/18/2018	0.35
6/19/2018	--
6/20/2018	--
6/21/2018	--
6/22/2018	--
6/23/2018	--
6/24/2018	0.07
6/25/2018	0.45
6/26/2018	0.76
6/27/2018	0.01
6/28/2018	--
6/29/2018	--
6/30/2018	--
7/1/2018	--
7/2/2018	--
7/3/2018	--
7/4/2018	--
7/5/2018	0.38
7/6/2018	0.01
7/7/2018	0.16
7/8/2018	--
7/9/2018	--
7/10/2018	--
7/11/2018	--
7/12/2018	0.12
7/13/2018	--
7/14/2018	--
7/15/2018	--
7/16/2018	--
7/17/2018	0.07
7/18/2018	--
7/19/2018	--
7/20/2018	0.01
7/21/2018	0.01
7/22/2018	0.01
7/23/2018	--
7/24/2018	0.02
7/25/2018	0.09
7/26/2018	--
7/27/2018	--
7/28/2018	1.96
7/29/2018	0.06
7/30/2018	0.78
7/31/2018	0.19
8/1/2018	0.43
8/2/2018	0.66
8/3/2018	0.46
8/4/2018	0.59
8/5/2018	0.08
8/6/2018	0.01
8/7/2018	--
8/8/2018	0.11
8/9/2018	--
8/10/2018	0.12
8/11/2018	0.01
8/12/2018	0.73
8/13/2018	0.43
8/14/2018	--
8/15/2018	--
8/16/2018	--
8/17/2018	0.27
8/18/2018	0.16
8/19/2018	0.17
8/20/2018	0.55
8/21/2018	0.01
8/22/2018	--
8/23/2018	--
8/24/2018	--
8/25/2018	--
8/26/2018	--
8/27/2018	--
8/28/2018	--
8/29/2018	--
8/30/2018	--
8/31/2018	--
9/1/2018	--
9/2/2018	--
9/3/2018	--
9/4/2018	--
9/5/2018	--
9/6/2018	--
9/7/2018	--
9/8/2018	--
9/9/2018	--
9/10/2018	--
9/11/2018	--

TABLE 5
TOTAL DAILY PRECIPITATION (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Date	Total Precipitation (inches)
9/12/2018	--
9/13/2018*	0.68
9/14/2018*	5.6
9/15/2018*	7
9/16/2018*	4.66
9/17/2018	--
9/18/2018	--
9/19/2018	--
9/20/2018	--
9/21/2018	--
9/22/2018	--
9/23/2018	--
9/24/2018	--
9/25/2018	--
9/26/2018	0.35
9/27/2018	0.13
9/28/2018	0.28
9/29/2018	--
9/30/2018	--
10/1/2018	--
10/2/2018	--
10/3/2018	--
10/4/2018	--
10/5/2018	--
10/6/2018	--
10/7/2018	--
10/8/2018	--
10/9/2018	--
10/10/2018	0.07
10/11/2018	0.67
10/12/2018	--
10/13/2018	--
10/14/2018	--
10/15/2018	--
10/16/2018	0.24
10/17/2018	0.03
10/18/2018	--
10/19/2018	--
10/20/2018	--
10/21/2018	--
10/22/2018	--
10/23/2018	--
10/24/2018	--
10/25/2018	--
10/26/2018	1.05
10/27/2018	0.02
10/28/2018	--
10/29/2018	--
10/30/2018	--
10/31/2018	--
11/1/2018	0.11
11/2/2018	0.04

Date	Total Precipitation (inches)
11/3/2018	--
11/4/2018	0.08
11/5/2018	0.18
11/6/2018	0.04
11/7/2018	0.05
11/8/2018	0.3
11/9/2018	0.04
11/10/2018	0.01
11/11/2018	--
11/12/2018	1.5
11/13/2018	1.57
11/14/2018	0.07
11/15/2018	0.64
11/16/2018	--
11/17/2018	--
11/18/2018	--
11/19/2018	0.11
11/20/2018	--
11/21/2018	--
11/22/2018	--
11/23/2018	--
11/24/2018	1.09
11/25/2018	--
11/26/2018	--
11/27/2018	--
11/28/2018	--
11/29/2018	--
11/30/2018	--
12/1/2018	1.11
12/2/2018	0.01
12/3/2018	--
12/4/2018	--
12/5/2018	--
12/6/2018	--
12/7/2018	--
12/8/2018	0.39
12/9/2018	1.56
12/10/2018	0.35
12/11/2018	0.02
12/12/2018	--
12/13/2018	--
12/14/2018	1.49
12/15/2018	0.43
12/16/2018	0.01
12/17/2018	--
12/18/2018	--
12/19/2018	--
12/20/2018	0.39
12/21/2018	0.15
12/22/2018	--
12/23/2018	--
12/24/2018	--

Date	Total Precipitation (inches)
12/25/2018	--
12/26/2018	--
12/27/2018	0.05
12/28/2018	0.6
12/29/2018	0.01
12/30/2018	0.2
12/31/2018	--
1/1/2019	0.01
1/2/2019	--
1/3/2019	0.22
1/4/2019	0.76
1/5/2019	--
1/6/2019	--
1/7/2019	--
1/8/2019	--
1/9/2019	--
1/10/2019	--
1/11/2019	--
1/12/2019	--
1/13/2019	0.7
1/14/2019	--
1/15/2019	--
1/16/2019	--
1/17/2019	0.17
1/18/2019	--
1/19/2019	--
1/20/2019	0.5
1/21/2019	--
1/22/2019	--
1/23/2019	--
1/24/2019	0.83
1/25/2019	--
1/26/2019	--
1/27/2019	--
1/28/2019	--
1/29/2019	0.09
1/30/2019	--
1/31/2019	--
2/1/2019	--
2/2/2019	--
2/3/2019	--
2/4/2019	--
2/5/2019	--
2/6/2019	--
2/7/2019	--
2/8/2019	--
2/9/2019	--
2/10/2019	--
2/11/2019	0.25
2/12/2019	0.25
2/13/2019	0.02
2/14/2019	--

TABLE 5
TOTAL DAILY PRECIPITATION (JUNE 2017 - JULY 2019)
Chemours Fayetteville Works, North Carolina

Date	Total Precipitation (inches)
2/15/2019	--
2/16/2019	0.6
2/17/2019	0.04
2/18/2019	0.12
2/19/2019	0.11
2/20/2019	0.19
2/21/2019	0.16
2/22/2019	0.28
2/23/2019	0.46
2/24/2019	0.01
2/25/2019	--
2/26/2019	--
2/27/2019	--
2/28/2019	--
3/1/2019	0.68
3/2/2019	0.01
3/3/2019	1.04
3/4/2019	0.14
3/5/2019	--
3/6/2019	--
3/7/2019	--
3/8/2019	0.51
3/9/2019	0.07
3/10/2019	--
3/11/2019	--
3/12/2019	--
3/13/2019	--
3/14/2019	--
3/15/2019	0.7
3/16/2019	--
3/17/2019	--
3/18/2019	--
3/19/2019	--
3/20/2019	0.19
3/21/2019	0.15
3/22/2019	0.01
3/23/2019	--
3/24/2019	--
3/25/2019	0.53
3/26/2019	0.07
3/27/2019	--
3/28/2019	--
3/29/2019	--
3/30/2019	--
3/31/2019	--
4/1/2019	--
4/2/2019	1.02
4/3/2019	--
4/4/2019	--
4/5/2019	1.03
4/6/2019	--
4/7/2019	--

Date	Total Precipitation (inches)
4/8/2019	--
4/9/2019	0.03
4/10/2019	--
4/11/2019	--
4/12/2019	1.1
4/13/2019	1.18
4/14/2019	0.23
4/15/2019	--
4/16/2019	--
4/17/2019	--
4/18/2019	--
4/19/2019	0.48
4/20/2019	--
4/21/2019	--
4/22/2019	--
4/23/2019	--
4/24/2019	--
4/25/2019	--
4/26/2019	0.05
4/27/2019	--
4/28/2019	--
4/29/2019	--
4/30/2019	--
5/1/2019	--
5/2/2019	--
5/3/2019	--
5/4/2019	0.16
5/5/2019	0.39
5/6/2019	--
5/7/2019	--
5/8/2019	--
5/9/2019	--
5/10/2019	--
5/11/2019	--
5/12/2019	0.13
5/13/2019	--
5/14/2019	--
5/15/2019	--
5/16/2019	--
5/17/2019	--
5/18/2019	--
5/19/2019	--
5/20/2019	0.24
5/21/2019	--
5/22/2019	--
5/23/2019	--
5/24/2019	--
5/25/2019	--
5/26/2019	--
5/27/2019	--
5/28/2019	--
5/29/2019	--

Date	Total Precipitation (inches)
5/30/2019	--
5/31/2019	0.1
6/1/2019	--
6/2/2019	--
6/3/2019	--
6/4/2019	--
6/5/2019	0.84
6/6/2019	0.01
6/7/2019	--
6/8/2019	0.01
6/9/2019	2.19
6/10/2019	0.79
6/11/2019	0.06
6/12/2019	0.39
6/13/2019	0.02
6/14/2019	--
6/15/2019	--
6/16/2019	--
6/17/2019	--
6/18/2019	--
6/19/2019	--
6/20/2019	0.08
6/21/2019	--
6/22/2019	0.23
6/23/2019	--
6/24/2019	--
6/25/2019	--
6/26/2019	--
6/27/2019	--
6/28/2019	--
6/29/2019	--
6/30/2019	--
7/1/2019	--
7/2/2019	0.03
7/3/2019	--
7/4/2019	1.72
7/5/2019	--
7/6/2019	--
7/7/2019	--
7/8/2019	0.43
7/9/2019	--
7/10/2019	0.01
7/11/2019	--
7/12/2019	0.15
7/13/2019	--
7/14/2019	--

Notes:
Precipitation data obtained from USGS rain gauge at W.O. Huske Dam.
* - The USGS rain gauge did not collect data during Hurricane Florence. Precipitation data for September 13-16, 2018 was obtained from the onsite rain gauge.
USGS - United States Geological
-- - below USGS measurement threshold

TABLE 6
BIMONTHLY SAMPLE LOCATIONS - PARAGRAPH 11C
Chemours Fayetteville Works, North Carolina

Sample Number	Sample Location Description	Sampling Method	Sample Category				Sample Collected	
			Intake/ Outfall	Process water	Non-process wastewater	Stormwater	April	June
1	Discharge point of excess river water (i.e., water drawn from the Cape Fear River, but not used as process water or NCCW) to characterize background levels of PFAS	Temporal Composite	Intake				✓	✓
2	Kuraray northern leased area stormwater discharge	Temporal Composite				✓	--	--
3	Chemours PPA area stormwater discharge	Temporal Composite				✓	--	--
4	Combined stormwater discharge from Kuraray northern leased area and Chemours PPA area	Temporal Composite				✓	--	--
5	Kuraray southern leased area stormwater	Temporal Composite				✓	--	--
6A	Kuraray southern leased area NCCW discharge - Vacuum Condenser	Grab			✓		✓	✓
6B	Kuraray southern leased area NCCW discharge - Resins Area	Grab			✓		✓	✓
7A	Combined stormwater and NCCW discharge from western portion of the Facility	Temporal Composite			✓	✓	✓	✓
7B	Combined stormwater and NCCW discharge from western portion of the Facility and treated discharge from WWTP	Grab*		✓	✓	✓	✓	✓
8	Outfall 001 treated non-Chemours process wastewater discharge to open channel to Outfall 002	Temporal Composite		✓	✓		✓	✓
9	Chemours Monomers IXM NCCW and stormwater discharge including stormwater from Vinyl Ethers South and Vinyl Ethers North	Temporal Composite			✓	✓	✓	✓
10	Chemours Monomers IXM area stormwater discharge	Temporal Composite				✓	✓	--
11	Stormwater discharge from portion of grassy field to north of decommissioned Chemours Teflon area.	Temporal Composite				✓	--	--
12	DuPont area southern drainage ditch stormwater discharge and NCCW	Temporal Composite			✓	✓	--	--
13	DuPont area northern drainage ditch stormwater discharge and NCCW	Temporal Composite			✓	✓	--	--
14	DuPont area southeast stormwater and NCCW discharge	Temporal Composite			✓	✓	✓	✓
15	Combined stormwater and NCCW discharge from eastern portion of the Facility	Temporal Composite			✓	✓	✓	✓
18	Kuraray process wastewater	Grab		✓			✓	✓
19A	DuPont process wastewater, Plant 1	Grab		✓			✓	✓
19B	DuPont process wastewater, Plant 2	Grab		✓			✓	✓
20	Outfall 002 pipe to Cape Fear River upstream of sump	Temporal Composite	Outfall				✓	✓
21A	Sediment Basin South	Grab			✓	✓	✓	✓
21B	Sediment Basin North	Grab			✓	✓	--	--
22	WWTP combined influent	Grab		✓	✓		✓	✓
23A	Kuraray northern leased area combined process wastewater and NCCW; manhole on Terra Cotta Pipe	Grab		✓	✓		✓	✓
23B	Kuraray laboratory process wastewater	Grab		✓			--	✓
24A	Chemours Monomers IXM Vinyl Ethers South NCCW	Grab			✓		✓	✓
24B	Chemours Monomers IXM Line 3 and Line 4 Extruder NCCW	Grab			✓		✓	✓
24C	Chemours Monomers IXM Water Return Header NCCW	Grab			✓		✓	✓

Notes
Sample numbers refer to locations identified in Figure 2.
Temporal composite samples were integrated over 4 hours.
Locations 2, 3, 4, 5, 11, 12, and 13 were not sampled in April or June because they were dry. Location 10 was not sampled in June because it was dry.
Location 21B was not sampled in April or June because this sediment pond was not in use at the time of sampling.
Location 23B was added to the Sampling Plan after April 2019. A sample was not collected in April.
-- - sample not collected
* - Location 7B was collected as a grab sample in April and June due to limited autosampler availability.
IXM - ion exchange membrane
NCCW - non-contact cooling water
PFAS - per- and polyfluoroalkyl substances
PPA - polymer processing aid
WWTP - Wastewater treatment plant

TABLE 7
ANALYTICAL RESULTS - APRIL 2019
PARAGRAPH 11C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	1	6A	6B	7A	7B
Field Sample ID	DSTW-LOC1-042419	DSTW-LOC6A-042419	DSTW-LOC6B-042419	DSTW-LOC7A-042419	DSTW-LOC7B-042419
Date Sampled	04/24/2019	04/24/2019	04/24/2019	04/24/2019	04/24/2019
QA/QC	--	--	--	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<47	<47	<47	<47	<47
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	<210 UJ	<210	<210	<210 UJ	<210
PFO2HxA	<81	<81	<81	<81	<81
PFO3OA	<58	<58	<58	<58	<58
PFO4DA	<79	<79	<79	<79	<79
PMPA	<570	<570	<570	<570	<570
Hydro-EVE Acid	<28	<28	<28	<28	<28
EVE Acid	<24	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60	<60
R-EVE	<70	<70	<70	<70	<70
PFO5DA	<34	<34	<34	<34	<34
Byproduct 4	<160	<160	<160	<160	<160
Byproduct 5	<58	<58	<58	<58	<58
Byproduct 6	<15	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54	<54
PES	<46	<46	<46	<46	<46
PFESA-BP1	<27	<27	<27	<27	<27
PFESA-BP2	<30	<30	<30	<30	<30
EPA Method 537 Mod (ng/L)					
HFPO-DA	**14**	**13**	**41**	**14**	**21**
Perfluorobutanoic Acid	**7.1**	**7.6**	**7.1**	**7**	**5.2**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**7**	**7.4**	**7.4**	**7.4**	**7**
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanoic acid	**8.1**	**8.6**	**9.3**	**8.8**	**7.9**
Perfluorohexanoic Acid	**9.2**	**9.2**	**9.3**	**8.3**	**8.2**
Perfluoropentanoic Acid	**7**	**7.4**	**7.2**	**6.5**	**7.2**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	**2.3**	**2.4**	**2.3**	**2.3**	**2.3**
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**3.3**	**3.7**	**3.6**	**3.4**	**3.5**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanesulfonic acid	**12**	**14**	**14**	**14**	**14**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
8:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
4:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<37	<37 UJ	<37 UJ	<37	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60	**900 J**
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	<35	<35 UJ	<35 UJ	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	**2**	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
F-53B Major	<2.0	<2.0	<2.0	<2.0	<2.0
F-53B Minor	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 7
ANALYTICAL RESULTS - APRIL 2019
PARAGRAPH 11C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	8	9	10	14	15
Field Sample ID	DSTW-LOC8-042419	DSTW-LOC9-042419	DSTW-LOC10-042419	DSTW-LOC14-042419	DSTW-LOC15-042419
Date Sampled	04/24/2019	04/24/2019	04/24/2019	04/24/2019	04/24/2019
QA/QC	--	--	--	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<47	<47	**47**	<47	<47
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	**1,200 J**	<210 UJ	<210 UJ	<210 UJ	<210 UJ
PFO2HxA	**480**	<81	**94**	<81	<81
PFO3OA	**150**	<58	<58	<58	<58
PFO4DA	<79	<79	<79	<79	<79
PMPA	<570	<570	**570**	<570	<570
Hydro-EVE Acid	<28	<28	<28	<28	<28
EVE Acid	<24	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60	<60
R-EVE	<70	<70	**70**	<70 UJ	<70
PFO5DA	**51**	<34	<34	<34	**34**
Byproduct 4	<160	<160	<160	<160 UJ	<160
Byproduct 5	**690**	<58	**92**	<58 UJ	<58
Byproduct 6	<15	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54	<54
PES	<46	<46	<46	<46	<46
PFESA-BP1	<27	<27	**84**	<27	<27
PFESA-BP2	**240**	<30	<30	<30	<30
EPA Method 537 Mod (ng/L)					
HFPO-DA	**120**	**29**	**320**	**12**	**34**
Perfluorobutanoic Acid	**5.7**	**6.9**	**10**	**4.7**	**6.5**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**3.7**	**7.5**	**8.4**	**3.1**	**7.5**
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanoic acid	**8.2**	**8.9**	**10**	**5.8**	**8.5**
Perfluorohexanoic Acid	**4.9**	**9**	**9.3**	**4.4**	**7.9**
Perfluoropentanoic Acid	**4.2**	**8.6**	**17**	**3.8**	**8.2**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	**2.4**	**2.2**	**2.1**	<2.0	**2.3**
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**3.1**	**3.3**	**3.5**	**3**	**3.5**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanesulfonic acid	<2.0	**14**	**12**	**11**	**14**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
8:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
4:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<37	<37	<37	<37	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60	<60
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<35	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
F-53B Major	<2.0	<2.0	<2.0	<2.0	<2.0
F-53B Minor	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 7
ANALYTICAL RESULTS - APRIL 2019
PARAGRAPH 11C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	16	17A	17B	18	19A
Field Sample ID	DSTW-LOC16-042419	DSTW-LOC17A-042419	DSTW-LOC17B-042419	DSTW-LOC18-042419	DSTW-LOC19A-042419
Date Sampled	04/24/2019	04/24/2019	04/24/2019	04/24/2019	04/24/2019
QA/QC	--	--	--	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<35,000	**110,000**	**47,000**	<47	<47
PFECA-G	<31,000	<41,000	<41,000	<41	<41
PFMOAA	**160,000**	<210,000	**1,770,000**	<210	<210
PFO2HxA	**133,000**	<81,000	<81,000	<81	<81
PFO3OA	**44,000**	<58,000	<58,000	<58	<58
PFO4DA	<59,000	<79,000	<79,000	<79	<79
PMPA	**539,000**	<570,000	<570,000	<570	<570
Hydro-EVE Acid	**95,000**	<28,000	<28,000	<28	<28
EVE Acid	**787,000**	<24,000	<24,000	<24	<24
PFECA B	<45,000	<60,000	<60,000	<60	<60
R-EVE	**1,590,000**	<70,000	<70,000	<70	<70
PFO5DA	<25,000	<34,000	<34,000	<34	<34
Byproduct 4	**2,410,000**	<160,000	<160,000	<160	<160
Byproduct 5	**330,000**	<58,000	<58,000	<58	<58
Byproduct 6	**54,000**	<15,000	<15,000	<15	<15
NVHOS	**259,000**	<54,000	<54,000	<54	<54
PES	<34,000	<46,000	<46,000	<46	<46
PFESA-BP1	**1,445,000**	<27,000	<27,000	<27	<27
PFESA-BP2	**248,000**	<30,000	<30,000	<30	<30
EPA Method 537 Mod (ng/L)					
HFPO-DA	**2,100,000**	**860,000,000**	**550,000,000**	**59**	**30 J**
Perfluorobutanoic Acid	**30,000**	<4,400,000	<8,800	**5.3**	**4.3 J**
Perfluorodecanoic Acid	**240**	<3,900,000	**28,000**	<2.0	<2.0 UJ
Perfluorododecanoic Acid	<51	<6,900,000	<14,000	<2.0	<2.0 UJ
Perfluoroheptanoic Acid	**13,000**	<3,100,000	<6,300	**3**	<2.0 UJ
Perfluorononanoic Acid	**7,500**	<3,400,000	<6,800	<2.0	<2.0 UJ
Perfluorooctanoic acid	**440**	<11,000,000	**1,800,000**	**6.7**	**2.6 J**
Perfluorohexanoic Acid	**1,700**	<7,300,000	<15,000	**4.3**	<2.0 UJ
Perfluoropentanoic Acid	**53,000**	<6,100,000	<12,000	**3.7**	**2.6 J**
Perfluorotetradecanoic Acid	<27	<3,600,000	<7,300	<2.0	<2.0 UJ
Perfluorotridecanoic Acid	**300**	<16,000,000	<33,000	<2.0	<2.0 UJ
Perfluoroundecanoic Acid	**1,900**	<14,000,000	<28,000	<2.0	<2.0 UJ
Perfluorobutane Sulfonic Acid	<18	<2,500,000	<5,000	<2.0	<2.0 UJ
Perfluorodecane Sulfonic Acid	<29	<4,000,000	<8,000	<2.0	<2.0 UJ
Perfluoroheptane sulfonic acid (PFHpS)	<18	<2,400,000	<4,800	<2.0	<2.0 UJ
Perfluorohexane Sulfonic Acid	<16	**4,100,000**	<4,300	**2.1**	<2.0 UJ
Perfluorononanesulfonic acid	<15	<2,000,000	<4,000	<2.0	<2.0 UJ
Perfluorooctanesulfonic acid	<50	<6,800,000	<14,000	**7.3**	<2.0 UJ
Perfluoropentane sulfonic acid (PFPeS)	<28	<3,800,000	<7,500	<2.0	<2.0 UJ
10:2 Fluorotelomer sulfonate	**170**	<2,400,000	<4,800	<2.0	<2.0
8:2 Fluorotelomersulfonic acid	<480	<65,000,000	<130,000	<20	<20
6:2 Fluorotelomer sulfonate	<370	<25,000,000	<50,000	<20	<20 UJ
4:2 Fluorotelomersulfonic acid	<370	<25,000,000	<50,000	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<180	<24,000,000	<48,000	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<28,000	<37,000	<37,000	<37 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<45,000	<60,000	<60,000	<60	<60
N-methyl perfluorooctane sulfonamidoacetic acid	<290	<39,000,000	<78,000	<20	<20
N-methyl perfluoro-1-octanesulfonamide	<26,000	<35,000	<35,000	<35 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<82,000	<110,000	<110,000	<110	<110
Perfluorododecane sulfonic acid (PFDoS)	<41	<5,600,000	<11,000	<2.0	<2.0 UJ
Perfluorohexadecanoic acid (PFHxDA)	<82	<11,000,000	<22,000	<2.0	<2.0 UJ
Perfluorooctadecanoic acid	<42	<5,800,000	<12,000	<2.0	<2.0 UJ
Perfluorooctane Sulfonamide	<32	<4,400,000	<8,800	<2.0	<2.0 UJ
ADONA	<18	<2,400,000	<4,800	<2.1	<2.1 UJ
NaDONA	<18	<2,400,000	<4,800	<2.1	<2.1 UJ
F-53B Major	**900**	<3,000,000	<6,000	<2.0	<2.0 UJ
F-53B Minor	<29	<4,000,000	<8,000	<2.0	<2.0 UJ

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 7
ANALYTICAL RESULTS - APRIL 2019
PARAGRAPH 11C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	19B	20	20	21A	22
Field Sample ID	DSTW-LOC19B-042419	DSTW-LOC20-042419	DSTW-LOC20-042419-D	DSTW-LOC21A-042419	DSTW-LOC22-042419
Date Sampled	04/24/2019	04/24/2019	04/24/2019	04/24/2019	04/24/2019
QA/QC	--	--	Blind Field Duplicate	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<47	<47	<47	<47	<47
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	<210	<210 UJ	<210 UJ	<210	<210
PFO2HxA	<81	<81	<81	<81	<81
PFO3OA	<58	<58	<58	<58	<58
PFO4DA	<79	<79	<79	<79	<79
PMPA	<570	<570	<570	<570	<570
Hydro-EVE Acid	<28	<28	<28	<28	<28
EVE Acid	<24	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60	<60
R-EVE	<70	<70	<70	<70 UJ	<70 UJ
PFO5DA	<34	<34	<34	<34	<34
Byproduct 4	<160	<160	<160	<160	<160
Byproduct 5	<58	<58	<58	<58 UJ	<58 UJ
Byproduct 6	<15	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54	<54
PES	<46	<46	<46	<46	<46
PFESA-BP1	<27	<27	<27	<27	<27
PFESA-BP2	<30	<30	<30	<30	<30
EPA Method 537 Mod (ng/L)					
HFPO-DA	**22**	**61**	**63**	**33**	**170**
Perfluorobutanoic Acid	**4.4**	**6.5**	**5.9**	**5**	<3.5 UJ
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<3.1
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<5.5
Perfluoroheptanoic Acid	**2.2**	**7.1**	**7**	**3**	**7.1**
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.7
Perfluorooctanoic acid	**4.9**	**8.7**	**8.5**	**5.6**	<8.5
Perfluorohexanoic Acid	**3.4**	**7.8**	**7.7**	**4.4**	<5.8
Perfluoropentanoic Acid	**3.6**	**6.7**	**7.6**	**4.8**	**20**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	**2.9**
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<13
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<11
Perfluorobutane Sulfonic Acid	<2.0	**2.2**	**2.2**	**2**	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<3.2
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	**3.5**	**3.5**	**3**	**4.5**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanesulfonic acid	**3.2**	**13**	**13**	**9.1**	<5.4
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<3.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
8:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<52
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
4:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37	<37	<37 UJ	<37 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60	<60
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<31
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35	<35	<35 UJ	<35 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<4.5
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<8.9
Perfluorooctadecanoic acid	<2.0	<2.0 UJ	<2.0	<2.0	<4.6
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<3.5
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
F-53B Major	<2.0	<2.0	<2.0	<2.0	<2.4
F-53B Minor	<2.0	<2.0	<2.0	<2.0	<3.2

Notes:
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ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE 7
ANALYTICAL RESULTS - APRIL 2019
PARAGRAPH 11C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	23A	24A	24A	24B	24C
Field Sample ID	DSTW-LOC23A-042419	DSTW-LOC24A-042419	D	DSTW-LOC24B-042419	DSTW-LOC24C-042419
Date Sampled	04/24/2019	04/24/2019	04/24/2019	04/24/2019	04/24/2019
QA/QC	--	--	Blind Field Duplicate	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<47	<47	<47	<47	<47
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	**1,300**	<210	<210	<210 UJ	<210 UJ
PFO2HxA	**480**	<81	<81	<81	<81
PFO3OA	**140**	<58	<58	<58	<58
PFO4DA	<79	<79	<79	<79	<79
PMPA	**700**	<570	<570	<570	<570
Hydro-EVE Acid	**32**	<28	<28	<28	<28
EVE Acid	**65**	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60	<60
R-EVE	<70	<70 UJ	<70	<70	<70
PFO5DA	<34	<34	<34	<34	<34
Byproduct 4	**180**	<160	<160	<160	<160
Byproduct 5	**2,200**	<58 UJ	<58 UJ	<58	<58
Byproduct 6	<15	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54	<54
PES	<46	<46	<46	<46	<46
PFESA-BP1	**2,700**	<27	<27	<27	**35**
PFESA-BP2	**140**	<30	<30	<30	<30
EPA Method 537 Mod (ng/L)					
HFPO-DA	**270**	**16 J**	**14**	**14**	**19**
Perfluorobutanoic Acid	**160**	**6.3**	**5.8**	**5.5**	**4.7**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<16	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**3.6**	**7**	**7.3**	**6**	**5.9**
Perfluorononanoic Acid	<2.0	**2**	<2.0	<2.0	<2.0
Perfluorooctanoic acid	**20**	**9.5**	**9.7**	**7.7**	**7.3**
Perfluorohexanoic Acid	**6.6**	**8.5**	**8.8**	**8**	**7**
Perfluoropentanoic Acid	**13**	**7**	**6.7**	**6.2**	**6.4**
Perfluorotetradecanoic Acid	<2.0	<5.9	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<14	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	**2.3**	**2.3**	**2.2**	**2**
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**2**	**3.9**	**3.8**	**3.3**	**3.4**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanesulfonic acid	**2.9**	**25**	**21**	**12**	**15**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
8:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
4:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<37	<37 UJ	<37 UJ	<37	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60	<60
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	<35	<35 UJ	<35 UJ	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
F-53B Major	<2.0	<2.0	<2.0	<2.0	<2.0
F-53B Minor	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:
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TABLE 7
ANALYTICAL RESULTS - APRIL 2019
PARAGRAPH 11C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	EQBLK	EQBLK	EQBLK	FBLK	TBLK
Field Sample ID	DSTW-EB-01-042419	DSTW-EB-02-042419	DSTW-EB-03-042419	DSTW-FB-042419	DSTW-TB-042519
Date Sampled	04/24/2019	04/24/2019	04/24/2019	04/24/2019	04/25/2019
QA/QC	Equipment Blank - Dip Rod	Equipment Blank - Peristaltic Pump	Equipment Blank - Autosampler	Field Blank	Trip Blank
Table 3+ Lab SOP (ng/L)					
PEPA	<47	<47	<47	<47	<47
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	<210	<210	<210	<210 UJ	<210
PFO2HxA	<81	<81	<81	<81	<81
PFO3OA	<58	<58	<58	<58	<58
PFO4DA	<79	<79	<79	<79	<79
PMPA	<570	<570	<570	<570	<570
Hydro-EVE Acid	<28	<28	<28	<28	<28
EVE Acid	<24	<24	<24	<24	<24
PFECA B	<60	<60	<60	<60	<60
R-EVE	<70	<70	<70	<70	<70
PFO5DA	<34	<34	<34	<34	<34
Byproduct 4	<160	<160	<160	<160	<160
Byproduct 5	<58	<58	<58	<58	<58
Byproduct 6	<15	<15	<15	<15	<15
NVHOS	<54	<54	<54	<54	<54
PES	<46	<46	<46	<46	<46
PFESA-BP1	<27	<27	<27	<27	<27
PFESA-BP2	<30	<30	<30	<30	<30
EPA Method 537 Mod (ng/L)					
HFPO-DA	<4.0	<4.0	<4.0	<4.0	<4.0
Perfluorobutanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
8:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
4:2 Fluorotelomersulfonic acid	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37	<37	<37
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	**820 J**	**850 J**	**780 J**	<60	<60
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<35	<35	<35
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
F-53B Major	<2.0	<2.0	<2.0	<2.0	<2.0
F-53B Minor	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 8
ANALYTICAL RESULTS - JUNE 2019
PARAGRAPH 11 C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	LOC1	LOC6A	LOC6B	LOC7A	LOC7B
Field Sample ID	STW-LOC1-062819	STW-LOC-6A-062719	STW-LOC-6B-062719	STW-LOC7A-062819	STW-LOC7B-062719
Date Sampled	06/28/2019	06/27/2019	06/27/2019	06/28/2019	06/27/2019
QA/QC	--	--	--	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<20	<47	<47	<20	<20
PFECA-G	<2.0	<41	<41	<2.0	<2.0
PFMOAA	<5.0	<210	<210	<5.0	**69**
PFO2HxA	**14**	<81	<81	**14**	**25**
PFO3OA	**2.5**	<58	<58	**2.2**	**10**
PFO4DA	<2.0	<79	<79	<2.0	**9.7**
PMPA	**23**	<570	<570	**22**	**21**
Hydro-EVE Acid	--	--	--	--	--
EVE Acid	--	--	--	--	--
PFECA B	--	--	--	--	--
R-EVE	--	--	--	--	--
PFO5DA	<2.0	<34 UJ	<34 UJ	<2.0	**24**
Byproduct 4	--	--	--	--	--
Byproduct 5	--	--	--	--	--
Byproduct 6	--	--	--	--	--
NVHOS	--	--	--	--	--
PES	--	--	--	--	--
PFESA-BP1	<2.0	<27	<27	<2.0	<2.0
PFESA-BP2	<2.0	<30	<30	<2.0	**120**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<60	<60	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<110	<110	<2.0	<2.0
N-ethylperfluoro-1-octanesulfonamide	**2**	<37	<37	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<35	<35	<2.0	<2.0
EPA Method 537 Mod (ng/L)					
HFPO-DA	**18**	**66**	**24**	**22**	**18**
Perfluorobutanoic Acid	**8.3**	**11**	**9.2**	**8.8**	**8.9**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**14**	**13**	**13**	**14**	**14**
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	**8.5**	**8.3**	**9.6**	**9.4**	**8.9**
Perfluorohexanoic Acid	**21**	**22**	**20**	**20**	**21**
Perfluoropentanoic Acid	**17**	**18**	**17**	**19**	**18**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	**3.7**	**3.6**	**3.6**	**3.6**	**3.4**
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**5**	**5.3**	**5.6**	**5.2**	**5.4**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	**11**	**14**	**16**	**15**	**15**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1

Notes:
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EPA - Environmental Protection Agency
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
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TABLE 8
ANALYTICAL RESULTS - JUNE 2019
PARAGRAPH 11 C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	LOC7B	LOC8	LOC9	LOC14	LOC15
Field Sample ID	STW-LOC7B-062719-D	STW-LOC8-062819	STW-LOC9-062819	STW-LOC14-062819	STW-LOC15-062819
Date Sampled	06/27/2019	06/28/2019	06/28/2019	06/28/2019	06/28/2019
QA/QC	Field Duplicate	--	--	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<20	**34**	<20	<20	<20
PFECA-G	<2.0	<4.1	<4.1	<2.0	<2.0
PFMOAA	**65**	<21	<21	<5.0	**12**
PFO2HxA	**25**	**360**	**20**	**15**	**16**
PFO3OA	**10**	**200**	<5.8	**2.5**	**3.2**
PFO4DA	**10**	**210**	<7.9	<2.0	<2.0
PMPA	**19**	<57	<57	**22**	**25**
Hydro-EVE Acid	--	--	--	--	--
EVE Acid	--	--	--	--	--
PFECA B	--	--	--	--	--
R-EVE	--	--	--	--	--
PFO5DA	**26**	**520**	<3.4	<2.0	<2.0
Byproduct 4	--	--	--	--	--
Byproduct 5	--	--	--	--	--
Byproduct 6	--	--	--	--	--
NVHOS	--	--	--	--	--
PES	--	--	--	--	--
PFESA-BP1	<2.0	**37**	**2,300**	<2.0	**880**
PFESA-BP2	**130**	**2,600**	**120**	<2.0	**41**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<6.0	<6.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<11	<11	<2.0	<2.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<3.7	<3.7	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<3.5	<3.5	<2.0	<2.0
EPA Method 537 Mod (ng/L)					
HFPO-DA	**18**	**100**	**77**	**22**	**45**
Perfluorobutanoic Acid	**8.7**	**18**	**9.2**	**13**	**9.4**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**15**	**16**	**13**	**24**	**14**
Perfluorononanoic Acid	<2.0	**4.8**	**2**	**2.3**	<2.0
PFOA	**9.3**	**12**	**9.3**	**14**	**9.5**
Perfluorohexanoic Acid	**21**	**25**	**21**	**36**	**22**
Perfluoropentanoic Acid	**17**	**22**	**19**	**28**	**18**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	**3.7**	**4.3**	**3.7**	**5.7**	**3.7**
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**5.5**	**4.7**	**5.5**	**7.9**	**5.7**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	**16**	**2.9**	**15**	**22**	**15**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1

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TABLE 8
ANALYTICAL RESULTS - JUNE 2019
PARAGRAPH 11 C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	LOC18	LOC19A	LOC19B	LOC20	LOC21A
Field Sample ID	STW-LOC-18-062719	STW-LOC-19A-062719	STW-LOC-19B-062719	STW-LOC20-062819	STW-LOC-21A-062719
Date Sampled	06/27/2019	06/27/2019	06/27/2019	06/28/2019	06/27/2019
QA/QC	--	--	--	--	--
Table 3+ Lab SOP (ng/L)					
PEPA	<47	<47	<47	<20	<47
PFECA-G	<41	<41	<41	<2.0	<41
PFMOAA	<210	<210	<210	**48**	<210
PFO2HxA	<81	<81	<81	**28**	<81
PFO3OA	<58	<58	<58	**9.3**	<58
PFO4DA	<79	<79	<79	**8.7**	<79
PMPA	<570	<570	<570	**30**	<570
Hydro-EVE Acid	--	--	--	--	--
EVE Acid	--	--	--	--	--
PFECA B	--	--	--	--	--
R-EVE	--	--	--	--	--
PFO5DA	<34 UJ	<34 UJ	<34 UJ	**20**	<34 UJ
Byproduct 4	--	--	--	--	--
Byproduct 5	--	--	--	--	--
Byproduct 6	--	--	--	--	--
NVHOS	--	--	--	--	--
PES	--	--	--	--	--
PFESA-BP1	**27**	**27**	<27	**260**	<27
PFESA-BP2	<30	<30	<30	**110**	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<2.0	<60
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<2.0	<110
N-ethylperfluoro-1-octanesulfonamide	<37	<37	<37	<2.0	<37
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<35	<2.0	<35
EPA Method 537 Mod (ng/L)					
HFPO-DA	**4.1**	**4.5 J**	**9.6**	**50**	**40**
Perfluorobutanoic Acid	<3.3	**2.4 J**	**3**	**8.8**	**9.8**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**2.4**	**3.3 J**	**4**	**15**	**14**
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	**3.1 J**	**3.1**	**9.3**	**9.8**
Perfluorohexanoic Acid	**3.5**	**6.1 J**	**6.8**	**23**	**23**
Perfluoropentanoic Acid	**3.6**	**5.3**	**6**	**17**	**21**
Perfluorotetradecanoic Acid	<2.0	<2.0 UJ	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	**3.8**	**4**
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	**5.8**	**6.2**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	**2.2**	**15**	**14**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20 UJ	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1 UJ	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1 UJ	<2.1	<2.1	<2.1

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TABLE 8
ANALYTICAL RESULTS - JUNE 2019
PARAGRAPH 11 C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	LOC22	LOC23A	LOC23B	LOC24A	LOC24A
Field Sample ID	STW-LOC-22-062719	STW-LOC-23A-062719	STW-LOC-23B-062719	STW-LOC-24A-062719	STW-LOC-24A-062719-D
Date Sampled	06/27/2019	06/27/2019	06/27/2019	06/27/2019	06/27/2019
QA/QC	--	--	--	--	Field Duplicate
Table 3+ Lab SOP (ng/L)					
PEPA	**310**	**560**	**9,200**	<47	<47
PFECA-G	<41	<41	<41	<41	<41
PFMOAA	<210	**320**	<210	<210	<210
PFO2HxA	<81	**240**	**200**	<81	<81
PFO3OA	<58	**87**	**78**	<58	<58
PFO4DA	<79	<79	**79**	<79	<79
PMPA	**780**	**1,300**	**21,000**	<570	<570
Hydro-EVE Acid	--	--	--	--	--
EVE Acid	--	--	--	--	--
PFECA B	--	--	--	--	--
R-EVE	--	--	--	--	--
PFO5DA	<34 UJ	<34 UJ	**98 J**	<34 UJ	<34 UJ
Byproduct 4	--	--	--	--	--
Byproduct 5	--	--	--	--	--
Byproduct 6	--	--	--	--	--
NVHOS	--	--	--	--	--
PES	--	--	--	--	--
PFESA-BP1	**1,400**	**17,000**	**210**	<27	<27
PFESA-BP2	**130**	**740**	**130**	<30	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60	<60	<60	<60	<60
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110
N-ethylperfluoro-1-octanesulfonamide	<37	<37	<37	<37	<37
N-methyl perfluoro-1-octanesulfonamide	<35	<35	<35	<35	<35
EPA Method 537 Mod (ng/L)					
HFPO-DA	**130 J**	**170**	**3,200**	**26**	**26**
Perfluorobutanoic Acid	**37 J**	**70**	**580**	**9.7**	**9.4**
Perfluorodecanoic Acid	**2.4**	**2.8**	<2.0	<2.0	**2.2**
Perfluorododecanoic Acid	<2.0	**6.9**	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**12**	**14**	**10**	**13**	**13**
Perfluorononanoic Acid	**2.3**	**2.9**	**2.5**	<2.0	**2.7**
PFOA	**9.8**	**30**	**29**	**8.8 J**	**11 J**
Perfluorohexanoic Acid	**21 J**	**24**	**12**	**21**	**21**
Perfluoropentanoic Acid	**22**	**29**	**68**	**17**	**17**
Perfluorotetradecanoic Acid	<2.0	**30**	<2.0 UJ	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	**16**	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	**4.3**	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	**3.4**	**3.8**	**2.5**	**3.5**	**3.4**
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**5.6**	**5.8**	<2.0	**5.3**	**6**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	**18**	**19**	**5.0**	**17 J**	**30 J**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<3.5	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<37	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	**20 J**	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	**42**	<2.0 UJ	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	**21**	<2.0 UJ	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1 UJ	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1 UJ	<2.1	<2.1	<2.1	<2.1

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TABLE 8
ANALYTICAL RESULTS - JUNE 2019
PARAGRAPH 11 C SAMPLING EVENT
Chemours Fayetteville Works, North Carolina

Location ID	LOC24B	LOC24C	TBLK	EQBLK	EQBLK	FBLK
Field Sample ID	STW-LOC24B-062719	STW-LOC24C-062719	STW-TBLK-1	STW-EQBLK-1	STW-EQBLK-2	STW-LOC-FBLK-1
Date Sampled	06/27/2019	06/27/2019	06/28/2019	06/28/2019	06/27/2019	06/27/2019
QA/QC	--	--	Trip Blank	Equipment Blank	Equipment Blank	Field Blank
Table 3+ Lab SOP (ng/L)						
PEPA	<20	<20	<20	<20	<20	<20
PFECA-G	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFMOAA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PFO2HxA	**8.1**	**8.6**	<2.0	<2.0	<2.0	<2.0
PFO3OA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	**17**	**14**	<10	<10	<10	<10
Hydro-EVE Acid	--	--	--	--	--	--
EVE Acid	--	--	--	--	--	--
PFECA B	--	--	--	--	--	--
R-EVE	--	--	--	--	--	--
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Byproduct 4	--	--	--	--	--	--
Byproduct 5	--	--	--	--	--	--
Byproduct 6	--	--	--	--	--	--
NVHOS	--	--	--	--	--	--
PES	--	--	--	--	--	--
PFESA-BP1	**77**	**3.5**	<2.0	<2.0	<2.0	<2.0
PFESA-BP2	**3.3**	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	**2**	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
EPA Method 537 Mod (ng/L)						
HFPO-DA	**10**	**16**	<4.0	<4.0	<4.0	<4.0
Perfluorobutanoic Acid	**9.6**	**8**	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**13**	**13**	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	**8.3**	**7.9**	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	**19**	**21**	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	**17**	**17**	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	**3.5**	**3.8**	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**5**	**5.1**	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	**14**	**15**	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency
J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC2	LOC2	LOC3	LOC3
Field Sample ID	ASTW-LOC2-060519	ASTW-LOC2-060519-Z	ASTW-LOC3-060519	ASTW-LOC3-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**160 J**	**150 J**	<47 UJ	**23 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<2.0 UJ
PFMOAA	<210 UJ	**32 J**	<210 UJ	**28 J**
PFO2HxA	**110 J**	**87 J**	<81 UJ	**24 J**
PFO3OA	<58 UJ	**16 J**	<58 UJ	**7.0 J**
PFO4DA	<79 UJ	**13 J**	<79 UJ	**5.5 J**
PMPA	**650 J**	**430 J**	<570 UJ	**79 J**
Hydro-EVE Acid	<28 UJ	**2.4 J**	<28 UJ	<2.0 UJ
EVE Acid	<24 UJ	<2.0 UJ	<24 UJ	<2.0 UJ
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
R-EVE	<70 UJ	**95 J**	<70 UJ	**13 J**
PFO5DA	<34 UJ	**8.6 J**	<34 UJ	**3.7 J**
Byproduct 4	<160 UJ	**190 J**	<160 UJ	**39 J**
Byproduct 5	<58 UJ	**170 J**	<58 UJ	**9.1 J**
Byproduct 6	<15 UJ	<2.0 UJ	<15 UJ	<2.0 UJ
NVHOS	<54 UJ	**8.9 J**	<54 UJ	**3.2 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<2.0 UJ
PFESA-BP1	<27 UJ	**23 J**	<27 UJ	<2.0 UJ
PFESA-BP2	<30 UJ	**17 J**	<30 UJ	**4.0 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<2.0 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**940**	**1,100**	**1,800**	**1,400**
Perfluorobutanoic Acid	**12**	**11**	**2.1**	**3.3**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**2.5**	**2.6**	**2.2**	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	**16**	**17**	**19**	**15**
Perfluorohexanoic Acid	**2.9**	**2.6**	<2.0	<2.0
Perfluoropentanoic Acid	**4.7**	**4.8**	<2.0	**2.4**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	**2.3**	**2.4**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<51	<50	<47	<51
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**18,000,000 J**	--	**9,200,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC5	LOC5	LOC10	LOC10
Field Sample ID	ASTW-LOC5-060519	ASTW-LOC5-060519-Z	ASTW-LOC10-060519	ASTW-LOC10-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	<47 UJ	**58 J**	**1,500 J**	**1,300 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<41 UJ
PFMOAA	<210 UJ	**7.4 J**	**2,200 J**	**2,500 J**
PFO2HxA	<81 UJ	**22 J**	**1,400 J**	**1,500 J**
PFO3OA	<58 UJ	**2.7 J**	**660 J**	**500 J**
PFO4DA	<79 UJ	**2.7 J**	**380 J**	**420 J**
PMPA	<570 UJ	**190 J**	**3,700 J**	**2,900 J**
Hydro-EVE Acid	<28 UJ	<2.0 UJ	**75 J**	**80 J**
EVE Acid	<24 UJ	<2.0 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	**11 J**	**340 J**	**330 J**
PFO5DA	<34 UJ	**4.6 J**	**420 J**	**390 J**
Byproduct 4	<160 UJ	**100 J**	**940 J**	**980 J**
Byproduct 5	<58 UJ	**24 J**	**620 J**	**640 J**
Byproduct 6	<15 UJ	<2.0 UJ	**26 J**	**29 J**
NVHOS	<54 UJ	**2.5 J**	**320 J**	**310 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<46 UJ
PFESA-BP1	<27 UJ	**9.1 J**	**820 J**	**660 J**
PFESA-BP2	<30 UJ	**4.2 J**	**630 J**	**550 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**160**	**140**	**3,500**	**5,100**
Perfluorobutanoic Acid	**4.4**	**5.9**	**99**	**95**
Perfluorodecanoic Acid	<2.0	<2.0	**4.3**	**3.5**
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	**24**	**23**
Perfluorononanoic Acid	<2.0	<2.0	**8.9**	**8.2**
PFOA	**3.9**	**3**	**26**	**25**
Perfluorohexanoic Acid	**2.6**	**2.5**	**23**	**21**
Perfluoropentanoic Acid	<2.0	<2.0	**100**	**110**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	**3.6**	**3.2**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	**2.3**	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**26,000,000 J**	--	**24,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC26	LOC26	LOC27	LOC27
Field Sample ID	ASTW-LOC26-060519	ASTW-LOC26-060519-Z	ASTW-LOC27-060519	ASTW-LOC27-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	<47 UJ	<20 UJ	**47 J**	**30 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<2.0 UJ
PFMOAA	<210 UJ	<5.0 UJ	<210 UJ	**40 J**
PFO2HxA	<81 UJ	**3.8 J**	<81 UJ	**34 J**
PFO3OA	<58 UJ	<2.0 UJ	<58 UJ	**7.9 J**
PFO4DA	<79 UJ	<2.0 UJ	<79 UJ	**4.7 J**
PMPA	<570 UJ	**30 J**	<570 UJ	**120 J**
Hydro-EVE Acid	<28 UJ	<2.0 UJ	<28 UJ	<2.0 UJ
EVE Acid	<24 UJ	<2.0 UJ	<24 UJ	<2.0 UJ
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
R-EVE	<70 UJ	**3.1 J**	<70 UJ	**20 J**
PFO5DA	<34 UJ	<2.0 UJ	<34 UJ	**6.2 J**
Byproduct 4	<160 UJ	**8.9 J**	<160 UJ	**110 J**
Byproduct 5	<58 UJ	**4.1 J**	<58 UJ	**28 J**
Byproduct 6	<15 UJ	<2.0 UJ	<15 UJ	<2.0 UJ
NVHOS	<54 UJ	<2.0 UJ	<54 UJ	**4.8 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<2.0 UJ
PFESA-BP1	<27 UJ	**2.7 J**	<27 UJ	**2.8 J**
PFESA-BP2	<30 UJ	<2.0 UJ	<30 UJ	**5.8 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<2.0 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**46 B**	**41**	**170**	**200**
Perfluorobutanoic Acid	<2.0	**2.6**	**4.9**	**6.6**
Perfluorodecanoic Acid	<2.0	<2.0	**11**	**10**
Perfluorododecanoic Acid	<2.0	<2.0	**8**	**6.1**
Perfluoroheptanoic Acid	<2.0	<2.0	**4.2**	**3.8**
Perfluorononanoic Acid	<2.0	<2.0	**4.5**	**3.8**
PFOA	<2.0	<2.0	**11**	**10**
Perfluorohexanoic Acid	<2.0	<2.0	**8.8**	**6.5**
Perfluoropentanoic Acid	<2.0	<2.0	**5.1**	**6.2**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	**2**	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	**6.7**	**4.8**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	**6.7**	**6.1**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	**84**	**69**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	**9 J**	**9.2**
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**5,600,000 J**	--	**50,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC28	LOC28	LOC30	LOC30
Field Sample ID	ASTW-LOC28-060519	ASTW-LOC28-060519-Z	ASTW-LOC30-060519	ASTW-LOC30-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	<47 UJ	**32 J**	**210 J**	**210 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<41 UJ
PFMOAA	<210 UJ	**11 J**	<210 UJ	<210 UJ
PFO2HxA	<81 UJ	**17 J**	**190 J**	**200 J**
PFO3OA	<58 UJ	**2.3 J**	**100 J**	**110 J**
PFO4DA	<79 UJ	**2.5 J**	**79 J**	**84 J**
PMPA	**790 B**	**110 J**	**650 J**	**650 J**
Hydro-EVE Acid	<28 UJ	<2.0 UJ	<28 UJ	<28 UJ
EVE Acid	<24 UJ	<2.0 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	**9.0 J**	<70 UJ	<70 UJ
PFO5DA	<34 UJ	**4.5 J**	**100 J**	**100 J**
Byproduct 4	<160 UJ	**40 J**	<160 UJ	**160 J**
Byproduct 5	<58 UJ	**15 J**	**100 J**	**130 J**
Byproduct 6	<15 UJ	<2.0 UJ	<15 UJ	<15 UJ
NVHOS	<54 UJ	**3.0 J**	<54 UJ	**59 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<46 UJ
PFESA-BP1	<27 UJ	**3.5 J**	<27 UJ	<27 UJ
PFESA-BP2	<30 UJ	**4.8 J**	**90 J**	**73 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**140**	**160**	**830**	**760**
Perfluorobutanoic Acid	**2.2**	**5.1**	**20**	**21**
Perfluorodecanoic Acid	**3.4**	**2.4**	<2.0	<2.0
Perfluorododecanoic Acid	**2**	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	**4.3**	**4.4**
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	**6.1**	**5.5**	**6**	**5.6**
Perfluorohexanoic Acid	<2.0	**2.7**	**4.8**	**4.3**
Perfluoropentanoic Acid	<2.0	**2.3**	**13**	**15**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	**2**	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<46	<50
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**36,000,000 J**	--	**28,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC31	LOC31	LOC31	LOC31
Field Sample ID	ASTW-LOC31-060519	ASTW-LOC31-060519-D	ASTW-LOC31-060519-Z	ASTW-LOC31-060519-Z-D
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Total	Dissolved	Dissolved
QA/QC	--	Field Duplicate	--	Field Duplicate
Table 3+ Lab SOP (ng/L)				
PEPA	<47 UJ	<47 UJ	<47 UJ	<47 UJ
PFECA-G	<41 UJ	<41 UJ	<41 UJ	<41 UJ
PFMOAA	<210 UJ	<210 UJ	<210 UJ	<210 UJ
PFO2HxA	<81 UJ	<81 UJ	<81 UJ	<81 UJ
PFO3OA	<58 UJ	<58 UJ	<58 UJ	<58 UJ
PFO4DA	<79 UJ	<79 UJ	<79 UJ	<79 UJ
PMPA	<570 UJ	<570 UJ	<570 UJ	<570 UJ
Hydro-EVE Acid	<28 UJ	<28 UJ	<28 UJ	<28 UJ
EVE Acid	<24 UJ	<24 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<60 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	<70 UJ	<70 UJ	<70 UJ
PFO5DA	<34 UJ	<34 UJ	<34 UJ	<34 UJ
Byproduct 4	<160 UJ	<160 UJ	<160 UJ	<160 UJ
Byproduct 5	<58 UJ	<58 UJ	<58 UJ	<58 UJ
Byproduct 6	<15 UJ	<15 UJ	<15 UJ	<15 UJ
NVHOS	<54 UJ	<54 UJ	<54 UJ	<54 UJ
PES	<46 UJ	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	<27 UJ	<27 UJ	<27 UJ	<27 UJ
PFESA-BP2	<30 UJ	<30 UJ	<30 UJ	<30 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	**37 J**	<37 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**54 J**	**50**	**43**	**48**
Perfluorobutanoic Acid	**3.5**	**3.6**	**3.5**	**3.5**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	**3.4**	**4.2**
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	**2.7**	**2.2**
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0 UJ	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0 UJ	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**6,800,000 J**	<5,000,000 R	--	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC32	LOC32	LOC33	LOC33
Field Sample ID	ASTW-LOC32-060519	ASTW-LOC32-060519-Z	ASTW-LOC33-060519	ASTW-LOC33-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	<47 UJ	**130 J**	**590 J**	**540 J**
PFECA-G	<41 UJ	<41 UJ	<41 UJ	<41 UJ
PFMOAA	<210 UJ	<210 UJ	<210 UJ	<210 UJ
PFO2HxA	<81 UJ	<81 UJ	**220 J**	**240 J**
PFO3OA	<58 UJ	<58 UJ	<58 UJ	**81 J**
PFO4DA	<79 UJ	<79 UJ	**130 J**	**97 J**
PMPA	**690 J**	<570 UJ	**1,800 J**	**1,500 J**
Hydro-EVE Acid	<28 UJ	<28 UJ	**28 J**	**39 J**
EVE Acid	<24 UJ	<24 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<60 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	<70 UJ	<70 UJ	**110 J**
PFO5DA	**180 J**	**81 J**	**480 J**	**400 J**
Byproduct 4	<160 UJ	<160 UJ	**160 J**	**190 J**
Byproduct 5	<58 UJ	**66 J**	**150 J**	**180 J**
Byproduct 6	<15 UJ	<15 UJ	<15 UJ	<15 UJ
NVHOS	<54 UJ	<54 UJ	**100 J**	**86 J**
PES	<46 UJ	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	**27 J**	**27 J**	**140 J**	**130 J**
PFESA-BP2	**190 J**	**170 J**	**320 J**	**290 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**320**	**300**	**880**	**890**
Perfluorobutanoic Acid	**12**	**12**	**46**	**47**
Perfluorodecanoic Acid	**2.2**	**2.3**	**5.7**	**5.1**
Perfluorododecanoic Acid	<2.0	**2.3**	**2.9**	**2.3**
Perfluoroheptanoic Acid	**5.9**	**5.7**	**8.5**	**8.5**
Perfluorononanoic Acid	**5.6**	**6.3**	**7.3**	**6.3**
PFOA	**22**	**22**	**91**	**81**
Perfluorohexanoic Acid	**2.4**	**2.5**	**9.3**	**9.2**
Perfluoropentanoic Acid	**28**	**32**	**35**	**37**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	**2.3**	**2.7**	**2**
Perfluoroundecanoic Acid	**5.9**	**8.5**	**5.4**	**6.1**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	**4.3**	**5**	**10**	**12**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<50
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**300,000,000 J**	--	**210,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC34	LOC34	LOC35	LOC35
Field Sample ID	ASTW-LOC34-060519	ASTW-LOC34-060519-Z	ASTW-LOC35-1-060519	ASTW-LOC35-1-060519-D
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Total
QA/QC	--	--	--	Field Duplicate
Table 3+ Lab SOP (ng/L)				
PEPA	<47 UJ	**190 J**	**140 J**	<47 UJ
PFECA-G	<41 UJ	<41 UJ	<41 UJ	<41 UJ
PFMOAA	**210 J**	**350 J**	<210 UJ	**12,000 J**
PFO2HxA	**180 J**	**160 J**	**180 J**	**2,400 J**
PFO3OA	<58 UJ	**58 J**	**58 J**	**1,300 J**
PFO4DA	<79 UJ	<79 UJ	<79 UJ	**1,000 J**
PMPA	**910 J**	**640 J**	<570 UJ	**570 J**
Hydro-EVE Acid	<28 UJ	<28 UJ	<28 UJ	**53 J**
EVE Acid	<24 UJ	<24 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<60 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	<70 UJ	<70 UJ	<70 UJ
PFO5DA	**800 J**	**460 J**	**95 J**	**700 J**
Byproduct 4	<160 UJ	<160 UJ	<160 UJ	<160 UJ
Byproduct 5	<58 UJ	**78 J**	**380 J**	**620 J**
Byproduct 6	<15 UJ	<15 UJ	<15 UJ	**29 J**
NVHOS	<54 UJ	<54 UJ	<54 UJ	**380 J**
PES	<46 UJ	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	**59 J**	**44 J**	**27 J**	**87 J**
PFESA-BP2	**130 J**	**100 J**	**230 J**	**1,700 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**360**	**330**	**200 J**	**120 J**
Perfluorobutanoic Acid	**21**	**20**	**16**	**17**
Perfluorodecanoic Acid	**11**	**10**	**3.4**	<2.0
Perfluorododecanoic Acid	**14**	**15**	<2.0	<2.0
Perfluoroheptanoic Acid	**3.9**	**3.6**	<2	**2.4**
Perfluorononanoic Acid	**3.9**	**5**	**2.8**	**4.3**
PFOA	**67**	**72**	**3.7**	**3.9**
Perfluorohexanoic Acid	**3.5**	**3.5**	**3.8**	**4.2**
Perfluoropentanoic Acid	**12**	**13**	**6.7**	**7.5**
Perfluorotetradecanoic Acid	**3.9 J**	**3.3**	<2.0	<2.0
Perfluorotridecanoic Acid	**23**	**32**	<2.0	<2.0
Perfluoroundecanoic Acid	**58**	**60**	**6.3 J**	**5.6**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	**25**	**31**	**2.5**	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	**4.6**	**5.9**	**2.4**	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0 UJ	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**810,000,000 J**	--	**23,000,000 J**	**22,000,000 J**

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC35	LOC35	LOC35	LOC35
Field Sample ID	ASTW-LOC35-1-060519-Z	ASTW-LOC35-1-060519-Z-D	ASTW-LOC35-2-060519	ASTW-LOC35-2-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Dissolved	Dissolved	Total	Dissolved
QA/QC	--	Field Duplicate	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**150 J**	**81 J**	**97 J**	**100 J**
PFECA-G	<41 UJ	<41 UJ	<41 UJ	<41 UJ
PFMOAA	**380 J**	**10,000 J**	**10,000 J**	**8,900 J**
PFO2HxA	**130 J**	**2,400 J**	**2,300 J**	**2,100 J**
PFO3OA	<58 UJ	**1,100 J**	**1,000 J**	**910 J**
PFO4DA	<79 UJ	**880 J**	**780 J**	**680 J**
PMPA	<570 UJ	<570 UJ	<570 UJ	<570 UJ
Hydro-EVE Acid	<28 UJ	**48 J**	**56 J**	**44 J**
EVE Acid	<24 UJ	<24 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<60 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	<70 UJ	<70 UJ	<70 UJ
PFO5DA	**100 J**	**560 J**	**580 J**	**420 J**
Byproduct 4	<160 UJ	<160 UJ	<160 UJ	**160 J**
Byproduct 5	**330 J**	**660 J**	**730 J**	**520 J**
Byproduct 6	<15 UJ	**28 J**	**29 J**	**26 J**
NVHOS	<54 UJ	**370 J**	**380 J**	**350 J**
PES	<46 UJ	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	**38 J**	**110 J**	**99 J**	**83 J**
PFESA-BP2	**220 J**	**1,500 J**	**1,600 J**	**1,400 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**150 J**	**100 J**	**130**	**110**
Perfluorobutanoic Acid	**15**	**16**	**19**	**17**
Perfluorodecanoic Acid	**3.5**	<2.0	**2.4**	<2.0
Perfluorododecanoic Acid	**2.3**	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**2.2**	**2.2**	**2.6**	**2.3**
Perfluorononanoic Acid	**2.8**	**3.4**	**3.6**	**3.4**
PFOA	**3.5**	**3.5**	**4.1**	**3.4**
Perfluorohexanoic Acid	**3.9**	**4**	**5.5**	**4.8**
Perfluoropentanoic Acid	**7.8**	**7.3**	**8.6**	**7.6**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	**6.6 J**	**4.3 J**	**5.3**	**3.5**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	**2.1**	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	**3.5**	<2.0	**3.9**	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	**2.8**	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0 UJ	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	--	--	**16,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC36	LOC36	LOC36	LOC36
Field Sample ID	ASTW-LOC36-060519	ASTW-LOC36-060519-D	ASTW-LOC36-060519-Z	ASTW-LOC36-060519-Z-D
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Total	Dissolved	Dissolved
QA/QC	--	Field Duplicate	--	Field Duplicate
Table 3+ Lab SOP (ng/L)				
PEPA	**140 J**	**130 J**	**130 J**	**150 J**
PFECA-G	<41 UJ	<41 UJ	<2.0 UJ	<2.0 UJ
PFMOAA	<210 UJ	<210 UJ	**38 J**	**96 J**
PFO2HxA	**170 J**	**180 J**	**72 J**	**230 J**
PFO3OA	<58 UJ	<58 UJ	**17 J**	**65 J**
PFO4DA	<79 UJ	<79 UJ	**16 J**	**40 J**
PMPA	**660 J**	<570 UJ	**290 J**	**380 J**
Hydro-EVE Acid	<28 UJ	<28 UJ	**4.4 J**	**15 J**
EVE Acid	<24 UJ	<24 UJ	<2.0 UJ	**3.5 J**
PFECA B	<60 UJ	<60 UJ	<2.0 UJ	<2.0 UJ
R-EVE	<70 UJ	<70 UJ	**20 J**	**65 J**
PFO5DA	**79 J**	**88 J**	**39 J**	**110 J**
Byproduct 4	<160 UJ	<160 UJ	**99 J**	**290 J**
Byproduct 5	**150 J**	**130 J**	**120 J**	**540 J**
Byproduct 6	<15 UJ	<15 UJ	<2.0 UJ	**2.2 J**
NVHOS	<54 UJ	<54 UJ	**7.4 J**	**19 J**
PES	<46 UJ	<46 UJ	<2.0 UJ	<2.0 UJ
PFESA-BP1	<27 UJ	<27 UJ	**4.2 J**	**16 J**
PFESA-BP2	**49 J**	**48 J**	**23 J**	**52 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	**60 J**	<60 UJ	<2.0 UJ	<2.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<2.0 UJ	<2.0 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<2.0 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<2.0 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**310 J**	**300**	**280 J**	**390 J**
Perfluorobutanoic Acid	**13 J**	**14**	**11 J**	**20 J**
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.9	**2.1**	<2.0	**3.6**
Perfluorononanoic Acid	<2.0	<2.0	<2.0	**2.1**
PFOA	<3.7	**2.9**	<2.6	**4.3**
Perfluorohexanoic Acid	<3.7	<2.0	<2.0	**2.1**
Perfluoropentanoic Acid	**61 J**	**84 J**	**54 J**	**140 J**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2	**2.3**	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<5.2	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<11	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0 UJ	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**23,000,000 J**	**80,000,000 J**	--	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC37	LOC37	LOC38	LOC38
Field Sample ID	ASTW-LOC37-060519	ASTW-LOC37-060519-Z	ASTW-LOC38-1-060519	ASTW-LOC38-1-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**340 J**	**340 J**	**730 J**	**530 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<2.0 UJ
PFMOAA	**240 J**	**180 J**	**280 J**	**220 J**
PFO2HxA	**240 J**	**210 J**	**170 J**	**140 J**
PFO3OA	<58 UJ	**31 J**	<58 UJ	**34 J**
PFO4DA	<79 UJ	**31 J**	<79 UJ	**17 J**
PMPA	**1,200 J**	**1,000 J**	**2,200 J**	**2,000 J**
Hydro-EVE Acid	<28 UJ	**5.3 J**	<28 UJ	**11 J**
EVE Acid	<24 UJ	<2.0 UJ	<24 UJ	**9.4 J**
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	**11 J**
R-EVE	<70 UJ	**55 J**	**140 J**	**210 J**
PFO5DA	**100 J**	**64 J**	**47 J**	**16 J**
Byproduct 4	<160 UJ	**340 J**	**250 J**	**770 J**
Byproduct 5	<58 UJ	**53 J**	**58 J**	**160 J**
Byproduct 6	<15 UJ	<2.0 UJ	<15 UJ	<2.0 UJ
NVHOS	<54 UJ	**7.6 J**	<54 UJ	**56 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<2.3 UJ
PFESA-BP1	<27 UJ	**22 J**	**260 J**	**280 J**
PFESA-BP2	**31 J**	**26 J**	**66 J**	**65 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<3.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<5.5 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**380**	**480**	**940**	**850**
Perfluorobutanoic Acid	**20**	**21**	**51**	**49**
Perfluorodecanoic Acid	<2.0	<2.0	**3.4**	**3.7**
Perfluorododecanoic Acid	<2.0	<2.0	**3.7**	**2.4**
Perfluoroheptanoic Acid	**3.1**	**3**	**5**	**4.3**
Perfluorononanoic Acid	**2.1**	**2.4**	**7.9**	**7.6**
PFOA	**3.3**	**3.4**	**6.5**	**5.9**
Perfluorohexanoic Acid	**4.3**	**4.7**	**5.1**	**4.7**
Perfluoropentanoic Acid	**14**	**12**	**14**	**14**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	**3.7**	<2.0
Perfluoroundecanoic Acid	**2.2**	**2.3**	**8.9**	**7.7**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	**3.3**	**2.7**	**5.3**	**5.9**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<51	<50
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**63,000,000 J**	--	**22,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC38	LOC38	LOC39	LOC39
Field Sample ID	ASTW-LOC38-2-060519	ASTW-LOC38-2-060519-Z	ASTW-LOC39-1-060519	ASTW-LOC39-1-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**520 J**	**370 J**	**500 J**	**430 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<2.0 UJ
PFMOAA	<210 UJ	**84 J**	<210 UJ	**48 J**
PFO2HxA	**160 J**	**100 J**	**100 J**	**74 J**
PFO3OA	<58 UJ	**19 J**	<58 UJ	**20 J**
PFO4DA	<79 UJ	**12 J**	<79 UJ	**16 J**
PMPA	**1,500 J**	**1,000 J**	**1,500 J**	**1,000 J**
Hydro-EVE Acid	<28 UJ	**6.5 J**	<28 UJ	**9.3 J**
EVE Acid	<24 UJ	**9.8 J**	<24 UJ	**3.7 J**
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
R-EVE	<70 UJ	**26 J**	<70 UJ	**110 J**
PFO5DA	**53 J**	**20 J**	<34 UJ	**17 J**
Byproduct 4	<160 UJ	**69 J**	<160 UJ	**270 J**
Byproduct 5	<58 UJ	**50 J**	<58 UJ	**110 J**
Byproduct 6	<15 UJ	<2.0 UJ	<15 UJ	<2.0 UJ
NVHOS	<54 UJ	**9.3 J**	<54 UJ	**13 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<2.0 UJ
PFESA-BP1	**75 J**	**96 J**	**41 J**	**34 J**
PFESA-BP2	**49 J**	**32 J**	**44 J**	**29 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<2.0 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**590**	**560**	**470**	**600**
Perfluorobutanoic Acid	**26**	**23**	**23**	**22**
Perfluorodecanoic Acid	<2.0	<2.0	**3.8**	**2.8**
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**3.1**	**2.5**	**5.8**	**5.4**
Perfluorononanoic Acid	<2.0	<2.0	**8.5**	**7.5**
PFOA	**3.6**	**3.4**	**12**	**10**
Perfluorohexanoic Acid	**5.4**	**4.4**	**5.3**	**4.8**
Perfluoropentanoic Acid	**13**	**7.3**	**11**	**11**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	**3.6**	**2.2**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	**2.7**	**2.4**
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	**5.6**	**3.1**	**21**	**18**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.8	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<45
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**20,000,000 J**	--	**160,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC39	LOC39	LOC40	LOC40
Field Sample ID	ASTW-LOC39-2-060519	ASTW-LOC39-2-060519-Z	ASTW-LOC40-060519	ASTW-LOC40-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**720 J**	**590 J**	**130 J**	**110 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<2.0 UJ
PFMOAA	<210 UJ	**66 J**	<210 UJ	**32 J**
PFO2HxA	**130 J**	**100 J**	**81 J**	**51 J**
PFO3OA	<58 UJ	**30 J**	<58 UJ	**9.0 J**
PFO4DA	<79 UJ	**16 J**	<79 UJ	**8.6 J**
PMPA	**1,800 J**	**1,400 J**	**730 J**	**350 J**
Hydro-EVE Acid	<28 UJ	**12 J**	<28 UJ	<2.0 UJ
EVE Acid	<24 UJ	**5.2 J**	<24 UJ	<2.0 UJ
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
R-EVE	<70 UJ	**110 J**	<70 UJ	**11 J**
PFO5DA	**42 J**	**19 J**	<34 UJ	**11 J**
Byproduct 4	<160 UJ	**170 J**	<160 UJ	**85 J**
Byproduct 5	<58 UJ	**120 J**	**120 J**	**270 J**
Byproduct 6	<15 UJ	<2.0 UJ	<15 UJ	<2.0 UJ
NVHOS	<54 UJ	**17 J**	<54 UJ	**6.3 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<2.0 UJ
PFESA-BP1	**45 J**	**48 J**	<27 UJ	**19 J**
PFESA-BP2	**49 J**	**44 J**	<30 UJ	**15 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<2.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<2.0 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**660**	**860**	**250**	**230**
Perfluorobutanoic Acid	**36**	**36**	**7.1**	**7.1**
Perfluorodecanoic Acid	**7.5**	**5.8**	<2.0	<2.0
Perfluorododecanoic Acid	**3.1**	**2.4**	<2.0	<2.0
Perfluoroheptanoic Acid	**9.7**	**10**	<2.0	<2.0
Perfluorononanoic Acid	**11**	**11**	<2.0	<2.0
PFOA	**15**	**15**	**3.6**	**2.8**
Perfluorohexanoic Acid	**10**	**9.8**	**2.3**	**2.3**
Perfluoropentanoic Acid	**17**	**17**	**3.3**	**3.2**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	**9.1**	**6.6**	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	**4.3**	**4.3**	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	**40**	**34**	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**20,000,000 J**	--	<5,000,000 UJ	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC41	LOC41	LOC42	LOC42
Field Sample ID	ASTW-LOC41-060519	ASTW-LOC41-060519-Z	ASTW-LOC42-1-060519	ASTW-LOC42-1-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**140 J**	**110 J**	**1,600 J**	**1,500 J**
PFECA-G	<41 UJ	<2.0 UJ	<41 UJ	<41 UJ
PFMOAA	<210 UJ	**34 J**	**105,000 J**	**108,000 J**
PFO2HxA	**81 J**	**56 J**	**30,000 J**	**31,000 J**
PFO3OA	<58 UJ	**11 J**	**12,000 J**	**13,000 J**
PFO4DA	<79 UJ	**7.1 J**	**8,000 J**	**9,900 J**
PMPA	**900 J**	**370 J**	**4,400 J**	**4,300 J**
Hydro-EVE Acid	<28 UJ	**2.2 J**	**1,500 J**	**1,500 J**
EVE Acid	<24 UJ	<2.0 UJ	**86 J**	**71 J**
PFECA B	<60 UJ	<2.0 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	**12 J**	**1,700 J**	**1,800 J**
PFO5DA	<34 UJ	**12 J**	**4,900 J**	**5,100 J**
Byproduct 4	<160 UJ	**95 J**	**3,300 J**	**3,400 J**
Byproduct 5	**150 J**	**410 J**	**1,400 J**	**1,300 J**
Byproduct 6	<15 UJ	<2.0 UJ	**390 J**	**410 J**
NVHOS	<54 UJ	**6.9 J**	**4,300 J**	**4,400 J**
PES	<46 UJ	<2.0 UJ	<46 UJ	<46 UJ
PFESA-BP1	<27 UJ	**25 J**	**1,900 J**	**1,700 J**
PFESA-BP2	<30 UJ	**18 J**	**7,200 J**	**6,900 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**290**	**250**	**46,000**	**54,000**
Perfluorobutanoic Acid	**7.6**	**7.9**	**390**	**390**
Perfluorodecanoic Acid	<2.0	<2.0	**12**	**12**
Perfluorododecanoic Acid	<2.0	<2.0	**6.7**	**6.1**
Perfluoroheptanoic Acid	<2.0	<2.0	**420**	**450**
Perfluorononanoic Acid	<2.0	<2.0	**160**	**160**
PFOA	**4.2**	**4**	**33**	**32**
Perfluorohexanoic Acid	**2.6**	**3.1**	**100**	**100**
Perfluoropentanoic Acid	**3.4**	**3.1**	**1,400**	**1,400**
Perfluorotetradecanoic Acid	<2.0	**2.2**	**2**	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	**11**	**7.7**
Perfluoroundecanoic Acid	<2.0	<2.0	**55**	**44**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	**2.8**
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<200	<190
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	**2.8**	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**6,800,000 J**	--	**21,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC42	LOC42	LOC43	LOC43
Field Sample ID	ASTW-LOC42-2-060519	ASTW-LOC42-2-060519-Z	ASTW-LOC43-060519	ASTW-LOC43-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**750 J**	**680 J**	**580 J**	**640 J**
PFECA-G	<41 UJ	<41 UJ	<41 UJ	<41 UJ
PFMOAA	**42,000 J**	**46,000 J**	**26,000 J**	**30,000 J**
PFO2HxA	**13,000 J**	**12,000 J**	**7,300 J**	**8,700 J**
PFO3OA	**8,400 J**	**7,800 J**	**3,800 J**	**4,400 J**
PFO4DA	**7,900 J**	**5,800 J**	**3,300 J**	**4,200 J**
PMPA	**1,900 J**	**1,700 J**	**1,700 J**	**1,400 J**
Hydro-EVE Acid	**160 J**	**150 J**	**170 J**	**210 J**
EVE Acid	**33 J**	**28 J**	**31 J**	**35 J**
PFECA B	<60 UJ	<60 UJ	<60 UJ	<60 UJ
R-EVE	**430 J**	**430 J**	**270 J**	**320 J**
PFO5DA	**4,200 J**	**3,300 J**	**2,500 J**	**2,800 J**
Byproduct 4	**710 J**	**630 J**	**890 J**	**940 J**
Byproduct 5	**970 J**	**890 J**	**1,600 J**	**1,700 J**
Byproduct 6	**40 J**	**43 J**	**28 J**	**38 J**
NVHOS	**400 J**	**470 J**	**420 J**	**500 J**
PES	<46 UJ	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	**1,500 J**	**1,500 J**	**1,100 J**	**1,200 J**
PFESA-BP2	**940 J**	**910 J**	**770 J**	**800 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**5,400**	**4,500**	**4,800**	**5,900**
Perfluorobutanoic Acid	**110**	**110**	**140**	**130**
Perfluorodecanoic Acid	**3**	**2.3**	**2.3**	**2.5**
Perfluorododecanoic Acid	<2.0	<2.0	**4.2**	**5.5**
Perfluoroheptanoic Acid	**50**	**50**	**37**	**36**
Perfluorononanoic Acid	**24**	**22**	**13**	**13**
PFOA	**6.1**	**7.2**	**12**	**10**
Perfluorohexanoic Acid	**22**	**20**	**23**	**25**
Perfluoropentanoic Acid	**150**	**140**	**150**	**150**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	**3.3**
Perfluorotridecanoic Acid	<2.0	<2.0	**3.7**	**7.2**
Perfluoroundecanoic Acid	**8.6**	**7.1**	**5.3**	**5.2**
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<470	<530	<510
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**10,000,000 J**	--	**14,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC52	LOC52	LOC53	LOC53
Field Sample ID	ASTW-LOC52-060519	ASTW-LOC52-060519-Z	ASTW-LOC53-060519	ASTW-LOC53-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Dissolved
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
PEPA	**4,100 J**	**4,700 J**	**180 J**	**120 J**
PFECA-G	<41 UJ	**4.1 J**	<41 UJ	<2.0 UJ
PFMOAA	**490 J**	**1,200 J**	**520 J**	**630 J**
PFO2HxA	**1,400 J**	**2,100 J**	**360 J**	**270 J**
PFO3OA	**360 J**	**440 J**	**170 J**	**110 J**
PFO4DA	**250 J**	**370 J**	**91 J**	**55 J**
PMPA	**9,400 J**	**11,000 J**	**1,100 J**	**390 J**
Hydro-EVE Acid	**55 J**	**69 J**	<28 UJ	**2.5 J**
EVE Acid	<24 UJ	**16 J**	<24 UJ	<2.0 UJ
PFECA B	<60 UJ	<6.0 UJ	<60 UJ	<2.0 UJ
R-EVE	**310 J**	**450 J**	<70 UJ	**83 J**
PFO5DA	**190 J**	**130 J**	<34 UJ	**25 J**
Byproduct 4	**1,400 J**	**2,100 J**	<160 UJ	**760 J**
Byproduct 5	**650 J**	**1,000 J**	<58 UJ	**77 J**
Byproduct 6	<15 UJ	**14 J**	<15 UJ	**4.4 J**
NVHOS	**220 J**	**330 J**	<54 UJ	**26 J**
PES	<46 UJ	<4.6 UJ	<46 UJ	<2.0 UJ
PFESA-BP1	**540 J**	**580 J**	**27 J**	**16 J**
PFESA-BP2	**650 J**	**600 J**	**74 J**	**64 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<6.0 UJ	<60 UJ	<2.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<11 UJ	<110 UJ	<2.0 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<3.7 UJ	<37 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<3.5 UJ	<35 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	**16,000**	**14,000**	**490**	**440**
Perfluorobutanoic Acid	**110**	**120**	**4.1**	**9.7**
Perfluorodecanoic Acid	**3.1**	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**17**	**20**	**3**	**2.6**
Perfluorononanoic Acid	**4.8**	**4.1**	<2.0	<2.0
PFOA	**16**	**15**	**2.6**	**2.4**
Perfluorohexanoic Acid	**17**	**19**	<2.0	<2.0
Perfluoropentanoic Acid	**57**	**62**	**7.9**	**14**
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	**2**	**2.1**	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<25	<45
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**78,000,000 J**	--	**17,000,000 J**	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	LOC55	LOC55	TB	TB	TB
Field Sample ID	ASTW-LOC55-060519	ASTW-LOC55-060519-Z	TB-1-060519	TB-10-060519	TB-11-060519
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Dissolved	Total	Total	Total
QA/QC	--	--	Trip Blank	Trip Blank	Trip Blank
Table 3+ Lab SOP (ng/L)					
PEPA	**110 J**	**85 J**	--	<47 UJ	<47 UJ
PFECA-G	<41 UJ	<2.0 UJ	--	<41 UJ	<41 UJ
PFMOAA	<210 UJ	**28 J**	--	<210 UJ	<210 UJ
PFO2HxA	<81 UJ	**32 J**	--	<81 UJ	<81 UJ
PFO3OA	<58 UJ	**5.8 J**	--	<58 UJ	<58 UJ
PFO4DA	<79 UJ	**16 J**	--	<79 UJ	<79 UJ
PMPA	**730 J**	**260 J**	--	<570 UJ	<570 UJ
Hydro-EVE Acid	<28 UJ	**8.7 J**	--	<28 UJ	<28 UJ
EVE Acid	<24 UJ	<2.0 UJ	--	<24 UJ	<24 UJ
PFECA B	<60 UJ	<2.0 UJ	--	<60 UJ	<60 UJ
R-EVE	<70 UJ	**76 J**	--	<70 UJ	<70 UJ
PFO5DA	**170 J**	**92 J**	--	<34 UJ	<34 UJ
Byproduct 4	<160 UJ	**210 J**	--	<160 UJ	<160 UJ
Byproduct 5	<58 UJ	**37 J**	--	<58 UJ	<58 UJ
Byproduct 6	<15 UJ	**2.6 J**	--	<15 UJ	<15 UJ
NVHOS	<54 UJ	**6.8 J**	--	<54 UJ	<54 UJ
PES	<46 UJ	<2.0 UJ	--	<46 UJ	<46 UJ
PFESA-BP1	<27 UJ	**13 J**	--	<27 UJ	<27 UJ
PFESA-BP2	**87 J**	**76 J**	--	<30 UJ	<30 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<2.0 UJ	--	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0 UJ	--	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<2.0 UJ	--	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<2.0 UJ	--	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)					
HFPO-DA	**160**	**140**	<15	<4.0	<4.0
Perfluorobutanoic Acid	**15**	**14**	<3.5	<2.0	<2.0
Perfluorodecanoic Acid	**4.7**	**3.1**	<3.1	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<5.5	<2.0	<2.0
Perfluoroheptanoic Acid	**2**	<2.0	<2.5	<2.0	<2.0
Perfluorononanoic Acid	**5.6**	**4.6**	<2.7	<2.0	<2.0
PFOA	**33**	**33**	<8.5	<2.0	<2.0
Perfluorohexanoic Acid	**2.1**	<2.0	<5.8	<2.0	<2.0
Perfluoropentanoic Acid	**3.5**	**4.5**	<4.9	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.9	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<13	<2.0	<2.0
Perfluoroundecanoic Acid	**3.4**	**2.2**	<11	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<3.2	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	**3.6**	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	**6.9**	**5.5**	<5.4	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<3.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<52	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<31	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<4.5	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<8.9	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<4.6	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<3.5	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<3.2	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.4	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	**290,000,000 J**	--	<5,000,000 UJ	--	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	TB	TB	TB	TB	TB
Field Sample ID	TB-12-060519	TB-13-060519	TB-14-060519	TB-15-060519	TB-3-060519
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Total	Total	Total	Total
QA/QC	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Table 3+ Lab SOP (ng/L)					
PEPA	<47 UJ	<47 UJ	<47 UJ	<47 UJ	--
PFECA-G	<41 UJ	<41 UJ	<41 UJ	<41 UJ	--
PFMOAA	<210 UJ	<210 UJ	<210 UJ	<210 UJ	--
PFO2HxA	<81 UJ	<81 UJ	<81 UJ	<81 UJ	--
PFO3OA	<58 UJ	<58 UJ	<58 UJ	<58 UJ	--
PFO4DA	<79 UJ	<79 UJ	<79 UJ	<79 UJ	--
PMPA	<570 UJ	<570 UJ	<570 UJ	<570 UJ	--
Hydro-EVE Acid	<28 UJ	<28 UJ	<28 UJ	<28 UJ	--
EVE Acid	<24 UJ	<24 UJ	<24 UJ	<24 UJ	--
PFECA B	<60 UJ	<60 UJ	<60 UJ	<60 UJ	--
R-EVE	<70 UJ	<70 UJ	<70 UJ	<70 UJ	--
PFO5DA	<34 UJ	<34 UJ	<34 UJ	<34 UJ	--
Byproduct 4	<160 UJ	<160 UJ	<160 UJ	<160 UJ	--
Byproduct 5	<58 UJ	<58 UJ	<58 UJ	<58 UJ	--
Byproduct 6	<15 UJ	<15 UJ	<15 UJ	<15 UJ	--
NVHOS	<54 UJ	<54 UJ	<54 UJ	<54 UJ	--
PES	<46 UJ	<46 UJ	<46 UJ	<46 UJ	--
PFESA-BP1	<27 UJ	<27 UJ	<27 UJ	<27 UJ	--
PFESA-BP2	<30 UJ	<30 UJ	<30 UJ	<30 UJ	--
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ	<60 UJ	--
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ	<110 UJ	--
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ	--
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ	--
EPA Method 537 Mod (ng/L)					
HFPO-DA	**10**	<4.0	<4.0	<4.0	**10**
Perfluorobutanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.1
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	--	--	--	--	<10,000,000 UJ

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	TB	TB	TB	TB	TB
Field Sample ID	TB-4-060519	TB-5-060519	TB-6-060519	TB-7-060519	TB-8-060519
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Total	Total	Total	Total
QA/QC	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Table 3+ Lab SOP (ng/L)					
PEPA	<47 UJ	<47 UJ	--	<47 UJ	<47 UJ
PFECA-G	<41 UJ	<41 UJ	--	<41 UJ	<41 UJ
PFMOAA	<210 UJ	<210 UJ	--	<210 UJ	<210 UJ
PFO2HxA	<81 UJ	<81 UJ	--	<81 UJ	<81 UJ
PFO3OA	<58 UJ	<58 UJ	--	<58 UJ	<58 UJ
PFO4DA	<79 UJ	<79 UJ	--	<79 UJ	<79 UJ
PMPA	**590 J**	<570 UJ	--	<570 UJ	<570 UJ
Hydro-EVE Acid	<28 UJ	<28 UJ	--	<28 UJ	<28 UJ
EVE Acid	<24 UJ	<24 UJ	--	<24 UJ	<24 UJ
PFECA B	<60 UJ	<60 UJ	--	<60 UJ	<60 UJ
R-EVE	<70 UJ	<70 UJ	--	<70 UJ	<70 UJ
PFO5DA	<34 UJ	<34 UJ	--	<34 UJ	<34 UJ
Byproduct 4	<160 UJ	<160 UJ	--	<160 UJ	<160 UJ
Byproduct 5	<58 UJ	<58 UJ	--	<58 UJ	<58 UJ
Byproduct 6	<15 UJ	<15 UJ	--	<15 UJ	<15 UJ
NVHOS	<54 UJ	<54 UJ	--	<54 UJ	<54 UJ
PES	<46 UJ	<46 UJ	--	<46 UJ	<46 UJ
PFESA-BP1	<27 UJ	<27 UJ	--	<27 UJ	<27 UJ
PFESA-BP2	<30 UJ	<30 UJ	--	<30 UJ	<30 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	--	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	--	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	--	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	--	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)					
HFPO-DA	**25**	<4.0	<4.0	<4.0	<4.0
Perfluorobutanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	**3.9**	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	**3.7**	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	--	--	--	--	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 10
ANALYTICAL RESULTS - STORMWATER SAMPLING
Chemours Fayetteville Works, North Carolina

Location ID	TB	TBLK	FBLK	FBLK
Field Sample ID	TB-9-060519	TB-2-060519	ASTW-FB-060519	ASTW-FB-060519-Z
Date Sampled	06/05/2019	06/05/2019	06/05/2019	06/05/2019
Total/ Dissolved	Total	Total	Total	Dissolved
QA/QC	Trip Blank	Trip Blank	Field Blank	Field Blank
Table 3+ Lab SOP (ng/L)				
PEPA	<47 UJ	--	<47 UJ	<20 UJ
PFECA-G	<41 UJ	--	<41 UJ	<2.0 UJ
PFMOAA	<210 UJ	--	<210 UJ	<5.0 UJ
PFO2HxA	<81 UJ	--	<81 UJ	<2.0 UJ
PFO3OA	<58 UJ	--	<58 UJ	<2.0 UJ
PFO4DA	<79 UJ	--	<79 UJ	<2.0 UJ
PMPA	<570 UJ	--	<570 UJ	<10 UJ
Hydro-EVE Acid	<28 UJ	--	<28 UJ	<2.0 UJ
EVE Acid	<24 UJ	--	<24 UJ	<2.0 UJ
PFECA B	<60 UJ	--	<60 UJ	<2.0 UJ
R-EVE	<70 UJ	--	<70 UJ	<2.0 UJ
PFO5DA	<34 UJ	--	<34 UJ	<2.0 UJ
Byproduct 4	<160 UJ	--	<160 UJ	<2.0 UJ
Byproduct 5	<58 UJ	--	<58 UJ	<2.0 UJ
Byproduct 6	<15 UJ	--	<15 UJ	<2.0 UJ
NVHOS	<54 UJ	--	<54 UJ	<2.0 UJ
PES	<46 UJ	--	<46 UJ	<2.0 UJ
PFESA-BP1	<27 UJ	--	<27 UJ	<2.0 UJ
PFESA-BP2	<30 UJ	--	<30 UJ	<2.0 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	--	<60 UJ	<2.0 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	--	<110 UJ	<2.0 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	--	<37 UJ	<2.0 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	--	<35 UJ	<2.0 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	<4.0	<4.0	<4.0	<4.0
Perfluorobutanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic acid	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0
Perfluoropentane sulfonic acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<20	<20	<20	<20
6:2 Fluorotelomer sulfonate	<20	<20	<20	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<20	<20	<20	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
N-methyl perfluorooctane sulfonamidoacetic acid	<20	<20	<20	<20
Perfluorododecane sulfonic acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
ADONA	<2.1	<2.1	<2.1	<2.1
NaDONA	<2.1	<2.1	<2.1	<2.1
Total Suspended Solids (ng/L)	--	--	<5,000,000 R	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise.
-- - No data reported
< - Analyte not detected above associated reporting limit.

TABLE 11
ANALYTICAL RESULTS - WASTEWATER TREATMENT PLANT
Chemours Fayetteville Works, North Carolina

Location ID	1	8	18	22
Field Sample ID	WWTP_LOC1_071619.d	WWTP_LOC8_071819.d	WWTP_LOC18_071619.d	WWTP_LOC22_071619.d
Date Sampled	7/16/2019	7/18/2019	7/16/2019	7/16/2019
QA/QC	--	--	--	--
Table 3+ Lab SOP (ng/L)				
HFPO-DA	<11.7	**53.7**	<11.7	**2,637**
PEPA	<23.5	<23.5	<23.5	**684**
PFECA G	<6.2	<6.2	<6.2	<6.2
PFMOAA	<10.6	<10.6	<10.6	**1,589**
PFO2HxA	**9.3**	**148**	**5.3**	**2,213**
PFO3OA	<9.2	**69.7**	<9.2	**2,602**
PFO4DA	<8.2	**66.4**	<8.2	**12,459**
PMPA	<4.8	<4.8	<4.8	**886**
Hydro-EVE Acid	<2	**8.7**	<2	**1,194**
EVE Acid	<5.2	<5.2	<5.2	**2,902**
PFECA B	<3.5	<3.5	<3.5	<3.5
R-EVE	<10.7	<10.7	<10.7	**15.8**
PFO5DA	<7	**134**	<7	**22,912**
Byproduct 4	<7.3	<7.3	<7.3	**60.2**
Byproduct 5	<6.7	**11.1**	<6.7	**268**
Byproduct 6	**1.3**	**22.0**	**1.4**	**439**
NVHOS	<11.4	**141**	<11.4	**8,598**
PES	<1.2	<1.2	<1.2	**4.6**
Byproduct 1	<9.4	**10.7**	<9.4	**591**
Byproduct 2	<7.3	**1,207**	<7.3	**11,843**
PFPA	**156**	<16.3	<16.3	**2,213**

Notes:
Bold - Analyte detected above associated reporting limit
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.

TABLE 11
ANALYTICAL RESULTS - WASTEWATER TREATMENT PLANT
Chemours Fayetteville Works, North Carolina

Location ID	23	23A1	23A2	EQBLK
Field Sample ID	WWTP_LOC23_071619.d	WWTP_LOC23A1_071619.d	WWTP_LOC23A2_071619.d	WWTP_LOCEB_071819.d
Date Sampled	7/16/2019	7/16/2019	7/16/2019	7/18/2019
QA/QC	--	--	--	Equipment Blank
Table 3+ Lab SOP (ng/L)				
HFPO-DA	**65.9**	**9,394**	**12.7**	<11.7
PEPA	<23.5	<23.5	<23.5	<23.5
PFECA G	<6.2	<6.2	<6.2	<6.2
PFMOAA	**597**	<10.6	<10.6	<10.6
PFO2HxA	**214**	**22.0**	**10.9**	<4.8
PFO3OA	**59.6**	<9.2	<9.2	<9.2
PFO4DA	**23.7**	<8.2	<8.2	<8.2
PMPA	<4.8	**6.0**	<4.8	<4.8
Hydro-EVE Acid	**25.7**	**4.6**	<2	<2
EVE Acid	**74.4**	<5.2	<5.2	<5.2
PFECA B	<3.5	<3.5	<3.5	<3.5
R-EVE	<10.7	<10.7	<10.7	<10.7
PFO5DA	**11.7**	<7	<7	<7
Byproduct 4	**27.1**	<7.3	<7.3	<7.3
Byproduct 5	**1,419**	<6.7	<6.7	<6.7
Byproduct 6	**2.5**	**1.3**	**1.3**	**1.3**
NVHOS	**41.9**	<11.4	<11.4	<11.4
PES	<1.2	<1.2	<1.2	<1.2
Byproduct 1	**7,007**	<9.4	<9.4	<9.4
Byproduct 2	**315**	**14.6**	<7.3	<7.3
PFPA	**118**	**79.8**	<16.3	<16.3

Notes:
Bold - Analyte detected above associated reporting limit
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.

TABLE 12
ANALYTICAL RESULTS - COOLING WATER CHANNEL SEDIMENTS
Chemours Fayetteville Works, North Carolina

Location ID	SD-C	SD-F	SD-G	SD-G	SD-G
Field Sample ID	SD-DNSS-C-070319	SD-DNSS-F-070319	SD-DNSS-G-070319-1	SD-DNSS-G-070319-2	SD-DNSS-G-070219-D
Date Sampled	7/3/2019	7/3/2019	7/3/2019	7/3/2019	7/3/2019
QA/QC	--	--	--	--	Field Duplicate
Table 3+ Lab SOP (ng/L)					
HFPO-DA	**26.5**	**317**	**1,130**	**1,194**	**1,383**
PEPA	<23.5	<23.5	**28.0**	**28.5**	**30.9**
PFECA G	**0.6**	**0.6**	**1.3**	**0.8**	**0.7**
PFMOAA	<10.6	<10.6	**682**	**563**	**559**
PFO2HxA	**8.3**	**65.3**	**2,596**	**2,314**	**2,485**
PFO3OA	**2.9**	**26.7**	**1,871**	**1,744**	**1,962**
PFO4DA	**4.8**	**20.3**	**1,960**	**1,809**	**2,054**
PMPA	<4.8	<4.8	**28.0**	**29.4**	**32.8**
Hydro-EVE Acid	**4.6**	**7.6**	**152**	**164**	**205**
EVE Acid	**10.8**	**25.3**	**24.5**	**20.7**	**26.8**
PFECA B	<3.5	<3.5	<3.5	<3.5	<3.5
R-EVE	**0.4**	**0.3**	**4.0**	**2.1**	**2.4**
PFO5DA	**7.0**	**26.1**	**746**	**708**	**871**
Byproduct 4	**5.6**	**11.1**	**27.9**	**26.4**	**28.5**
Byproduct 5	**105**	**176**	**137**	**137**	**145**
Byproduct 6	**3.0**	**11.3**	**46.4**	**49.5**	**59.4**
NVHOS	**1.1**	**6.7**	**771**	**846**	**1,030**
PES	**0.5**	**0.5**	**0.7**	**0.5**	**0.7**
Byproduct 1	**1,779**	**4,573**	**219**	**188**	**263**
Byproduct 2	**143**	**120**	**2,054**	**2,176**	**2,897**

Notes:
Bold - Analyte detected above associated reporting limit
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.

TABLE 13
ANALYTICAL RESULTS - ADDITIONAL OUTFALL 002 SAMPLES
Chemours Fayetteville Works, North Carolina

Location ID	20B	20B	20C	20D
Field Sample ID	FAY-SW-20B-053019	FAY-SW-DUP-053019	FAY-SW-20C-053019	FAY-SW-20D-053019
Date Sampled	05/30/2019	05/30/2019	05/30/2019	05/30/2019
QA/QC	--	Field Duplicate	--	--
Table 3+ Lab SOP (ng/L)				
HFPO-DA	<86	**130**	<86	**89**
PEPA	<47 UJ	<47 UJ	<47 UJ	<47 UJ
PFECA-G	<41 UJ	<41 UJ	<41 UJ	<41 UJ
PFMOAA	**2,400 J**	**2,500 J**	**2,800 J**	**2,600 J**
PFO2HxA	**640 J**	**680 J**	**680 J**	**660 J**
PFO3OA	**300 J**	**320 J**	**340 J**	**320 J**
PFO4DA	**220 J**	**220 J**	**250 J**	**230 J**
PMPA	<570 UJ	<570 UJ	**570 J**	<570 UJ
Hydro-EVE Acid	<28 UJ	<28 UJ	<28 UJ	<28 UJ
EVE Acid	<24 UJ	<24 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<60 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	**70 J**	<70 UJ	<70 UJ
PFO5DA	**140 J**	**140 J**	**160 J**	**150 J**
Byproduct 4	**210 J**	**280 J**	**220 J**	**240 J**
Byproduct 5	**1,300 J**	**1,500 J**	**1,700 J**	**1,300 J**
Byproduct 6	<15 UJ	<15 UJ	<15 UJ	<15 UJ
NVHOS	**110 J**	**110 J**	**140 J**	**110 J**
PES	<46 UJ	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	<27 UJ	<27 UJ	**36 J**	**32 J**
PFESA-BP2	**200 J**	**200 J**	**210 J**	**210 J**
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)				
HFPO-DA	--	--	--	--
Perfluorobutanoic Acid	--	--	--	--
Perfluorodecanoic Acid	--	--	--	--
Perfluorododecanoic Acid	--	--	--	--
Perfluoroheptanoic Acid	--	--	--	--
Perfluorononanoic Acid	--	--	--	--
PFOA	--	--	--	--
Perfluorohexanoic Acid	--	--	--	--
Perfluoropentanoic Acid	--	--	--	--
Perfluorotetradecanoic Acid	--	--	--	--
Perfluorotridecanoic Acid	--	--	--	--
Perfluoroundecanoic Acid	--	--	--	--
Perfluorobutane Sulfonic Acid	--	--	--	--
Perfluorodecane Sulfonic Acid	--	--	--	--
Perfluoroheptane sulfonic acid (PFHpS)	--	--	--	--
Perfluorohexane Sulfonic Acid	--	--	--	--
Perfluorononanesulfonic acid	--	--	--	--
PFOS	--	--	--	--
Perfluoropentane sulfonic acid (PFPeS)	--	--	--	--
10:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	--	--
6:2 Fluorotelomer sulfonate	--	--	--	--
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	--	--
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	--	--
Perfluorododecane sulfonic acid (PFDoS)	--	--	--	--
Perfluorohexadecanoic acid (PFHxDA)	--	--	--	--
Perfluorooctadecanoic acid	--	--	--	--
Perfluorooctane Sulfonamide	--	--	--	--

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise
-- - No data reported
< - Analyte not detected above associated reporting limit.

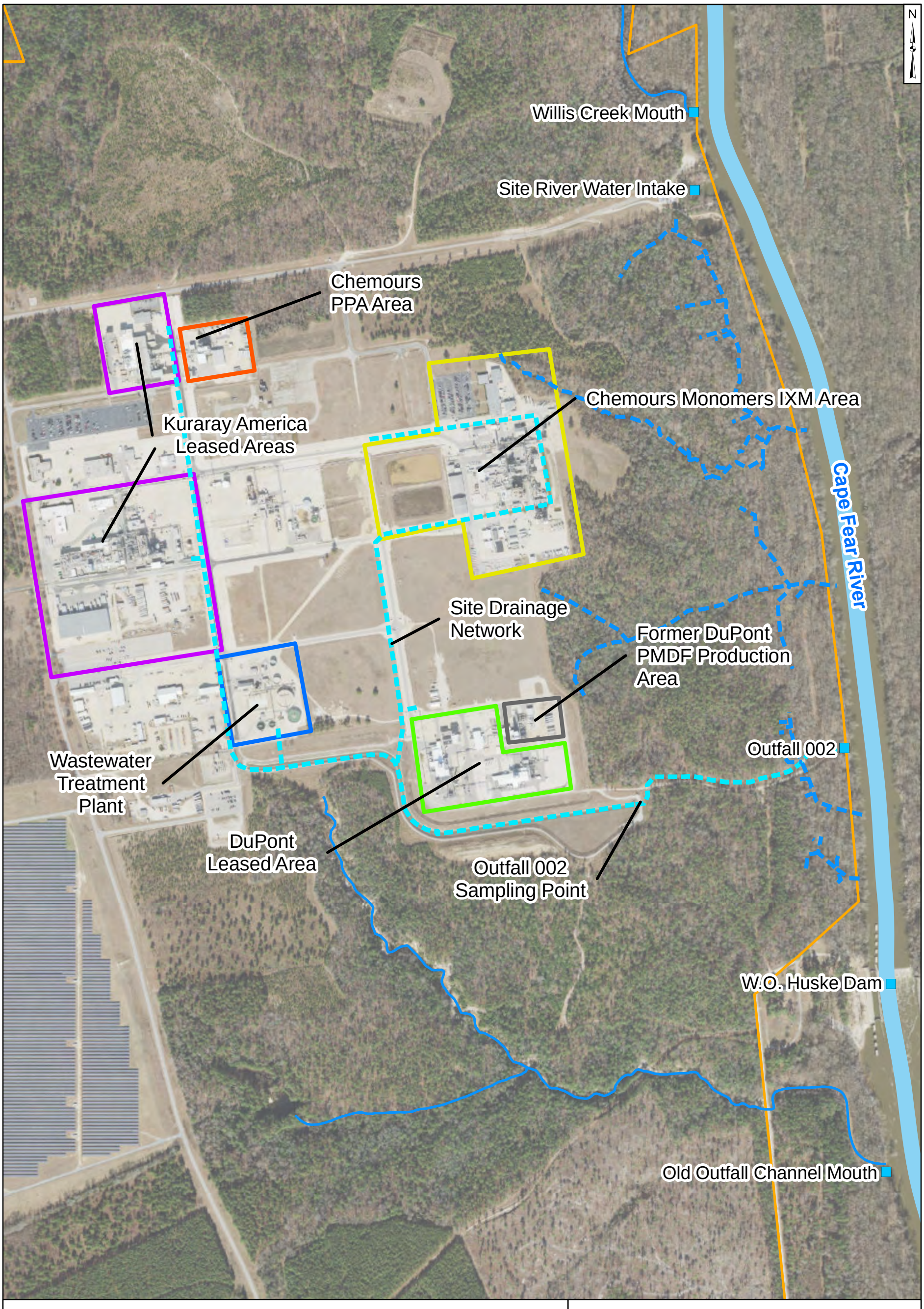
TABLE 13
ANALYTICAL RESULTS - ADDITIONAL OUTFALL 002 SAMPLES
Chemours Fayetteville Works, North Carolina

Location ID	20E	EQBLK	FBLK
Field Sample ID	053019	EB3-053019	FB7-053019
Date Sampled	05/30/2019	05/30/2019	05/30/2019
QA/QC	--	Equipment Blank	Field Blank
Table 3+ Lab SOP (ng/L)			
HFPO-DA	**110**	<86	--
PEPA	<47 UJ	<47 UJ	<47 UJ
PFECA-G	<41 UJ	<41 UJ	<41 UJ
PFMOAA	**2,500 J**	<210 UJ	<210 UJ
PFO2HxA	**640 J**	<81 UJ	<81 UJ
PFO3OA	**320 J**	<58 UJ	<58 UJ
PFO4DA	**220 J**	<79 UJ	<79 UJ
PMPA	**640 J**	<570 UJ	<570 UJ
Hydro-EVE Acid	<28 UJ	<28 UJ	<28 UJ
EVE Acid	<24 UJ	<24 UJ	<24 UJ
PFECA B	<60 UJ	<60 UJ	<60 UJ
R-EVE	<70 UJ	<70 UJ	<70 UJ
PFO5DA	**140 J**	<34 UJ	**37 J**
Byproduct 4	**230 J**	<160 UJ	<160 UJ
Byproduct 5	**1,300 J**	<58 UJ	<58 UJ
Byproduct 6	<15 UJ	<15 UJ	<15 UJ
NVHOS	**100 J**	<54 UJ	<54 UJ
PES	<46 UJ	<46 UJ	<46 UJ
PFESA-BP1	**30 J**	<27 UJ	<27 UJ
PFESA-BP2	**190 J**	<30 UJ	<30 UJ
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<60 UJ	<60 UJ	<60 UJ
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<110 UJ	<110 UJ
N-ethylperfluoro-1-octanesulfonamide	<37 UJ	<37 UJ	<37 UJ
N-methyl perfluoro-1-octanesulfonamide	<35 UJ	<35 UJ	<35 UJ
EPA Method 537 Mod (ng/L)			
HFPO-DA	--	--	<4.0
Perfluorobutanoic Acid	--	--	<2.0
Perfluorodecanoic Acid	--	--	<2.0
Perfluorododecanoic Acid	--	--	<2.0
Perfluoroheptanoic Acid	--	--	<2.0
Perfluorononanoic Acid	--	--	<2.0
PFOA	--	--	<2.0
Perfluorohexanoic Acid	--	--	<2.0
Perfluoropentanoic Acid	--	--	<2.0
Perfluorotetradecanoic Acid	--	--	<2.0
Perfluorotridecanoic Acid	--	--	<2.0
Perfluoroundecanoic Acid	--	--	<2.0
Perfluorobutane Sulfonic Acid	--	--	<2.0
Perfluorodecane Sulfonic Acid	--	--	<2.0
Perfluoroheptane sulfonic acid (PFHpS)	--	--	<2.0
Perfluorohexane Sulfonic Acid	--	--	<2.0
Perfluorononanesulfonic acid	--	--	<2.0
PFOS	--	--	<2.0
Perfluoropentane sulfonic acid (PFPeS)	--	--	<2.0
10:2 Fluorotelomer sulfonate	--	--	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	--	--	<20
6:2 Fluorotelomer sulfonate	--	--	<20
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	--	--	<20
N-ethyl perfluorooctane sulfonamidoacetic acid	--	--	<20
N-methyl perfluorooctane sulfonamidoacetic acid	--	--	<20
Perfluorododecane sulfonic acid (PFDoS)	--	--	<2.0
Perfluorohexadecanoic acid (PFHxDA)	--	--	<2.0
Perfluorooctadecanoic acid	--	--	<2.0
Perfluorooctane Sulfonamide	--	--	<2.0

Notes:
Bold - Analyte detected above associated reporting limit
EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter
QA/QC - Quality assurance/ quality control
SOP - standard operating procedure
UJ – Analyte not detected. Reporting limit may not be accurate or precise
-- - No data reported
< - Analyte not detected above associated reporting limit.

FIGURES



Legend

- Site Features
- Cape Fear River
- Nearby Tributaries
- Observed Seep (Natural Drainage)
- Drainage Network
- Site Boundary

Areas at Site

- Chemours Monomers Ion Exchange Membrance (IXM) Area
- Chemours Polymer Processing Aid (PPA) Area
- DuPont Leased Area
- Former DuPont PMDF Production Area
- Kuraray America Leased Areas
- Wastewater Treatment Plant

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

500 250 0 500 Feet

Facility Production Areas and Site Conveyance Network

Chemours Fayetteville Works, North Carolina

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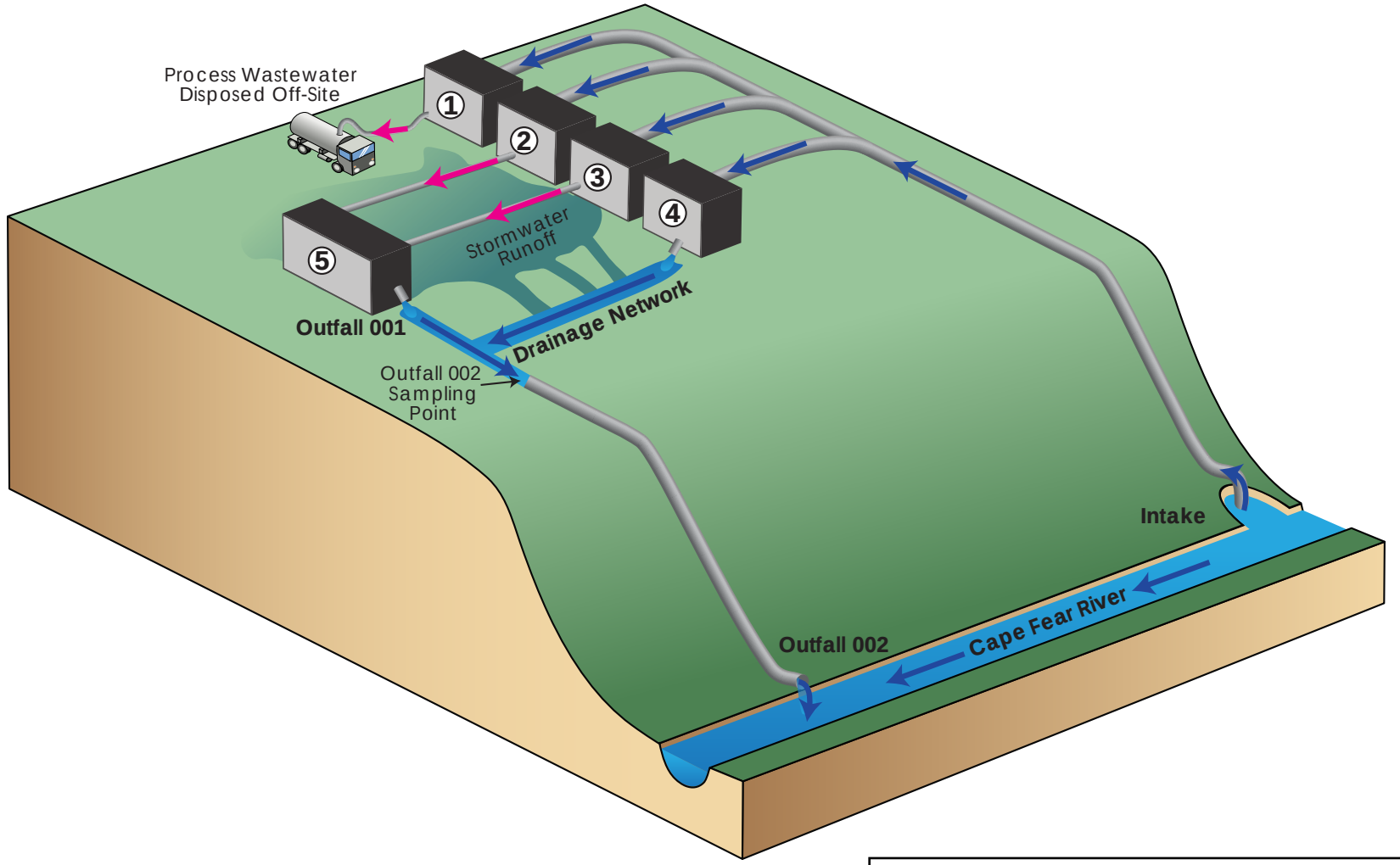
Figure 1



① Chemours Process Water Users
② Chemours Non-Process Water Users
③ Tenant Water Users
④ Non-Contact Cooling Water Users
⑤ Wastewater Treatment Plant

Note: Figure not to scale

Conceptual Schematic of Site Water Balance

Chemours Fayetteville Works, North Carolina

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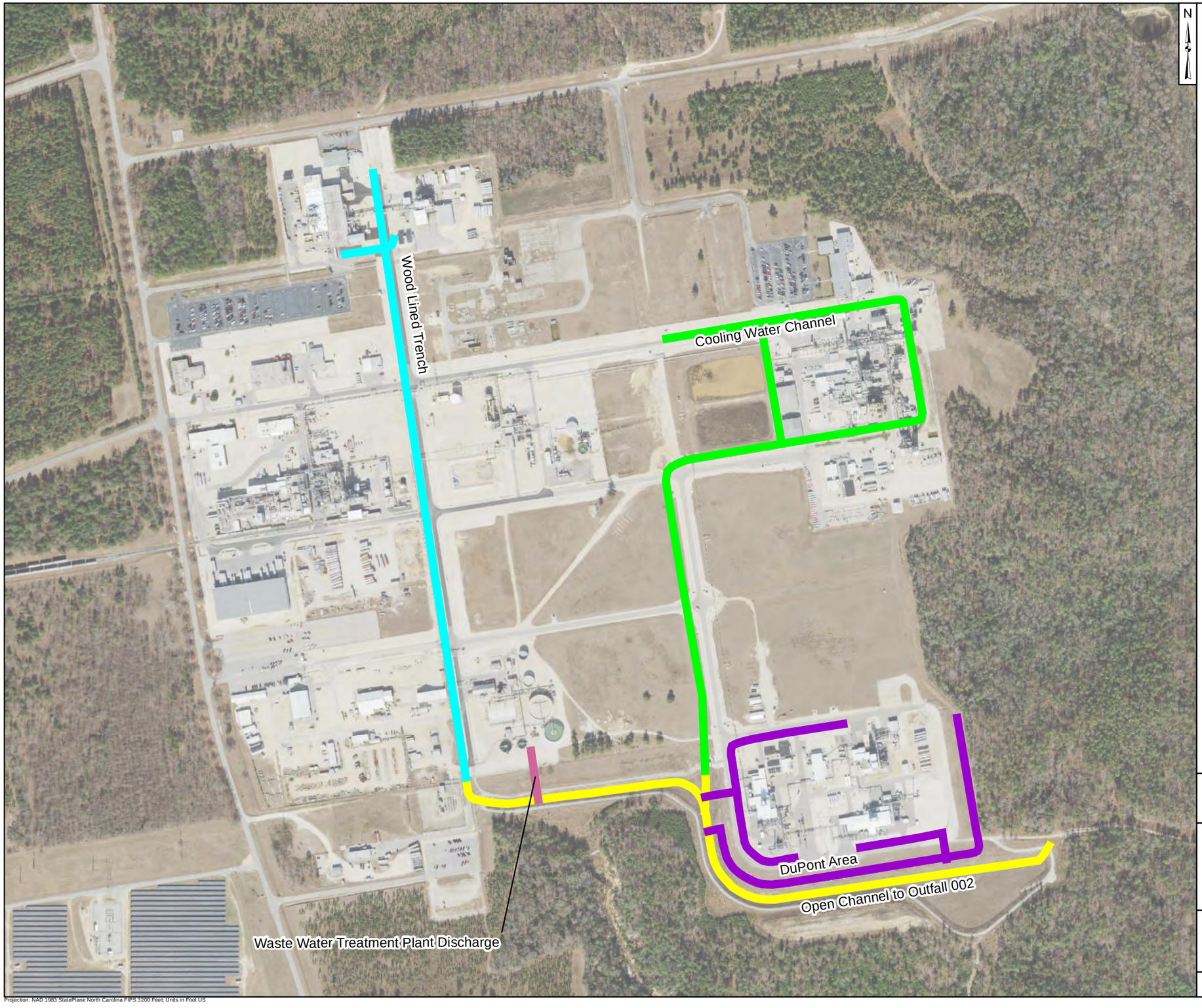
Figure **2**



Legend

- Wood Lined Trench
- Wastewater Treatment Plant Discharge
- Cooling Water Channel
- Open Channel to Outfall 002
- DuPont Area Ditches

500 250 0 500 Feet

Site Conveyance Network

Chemours Fayetteville Works, North Carolina

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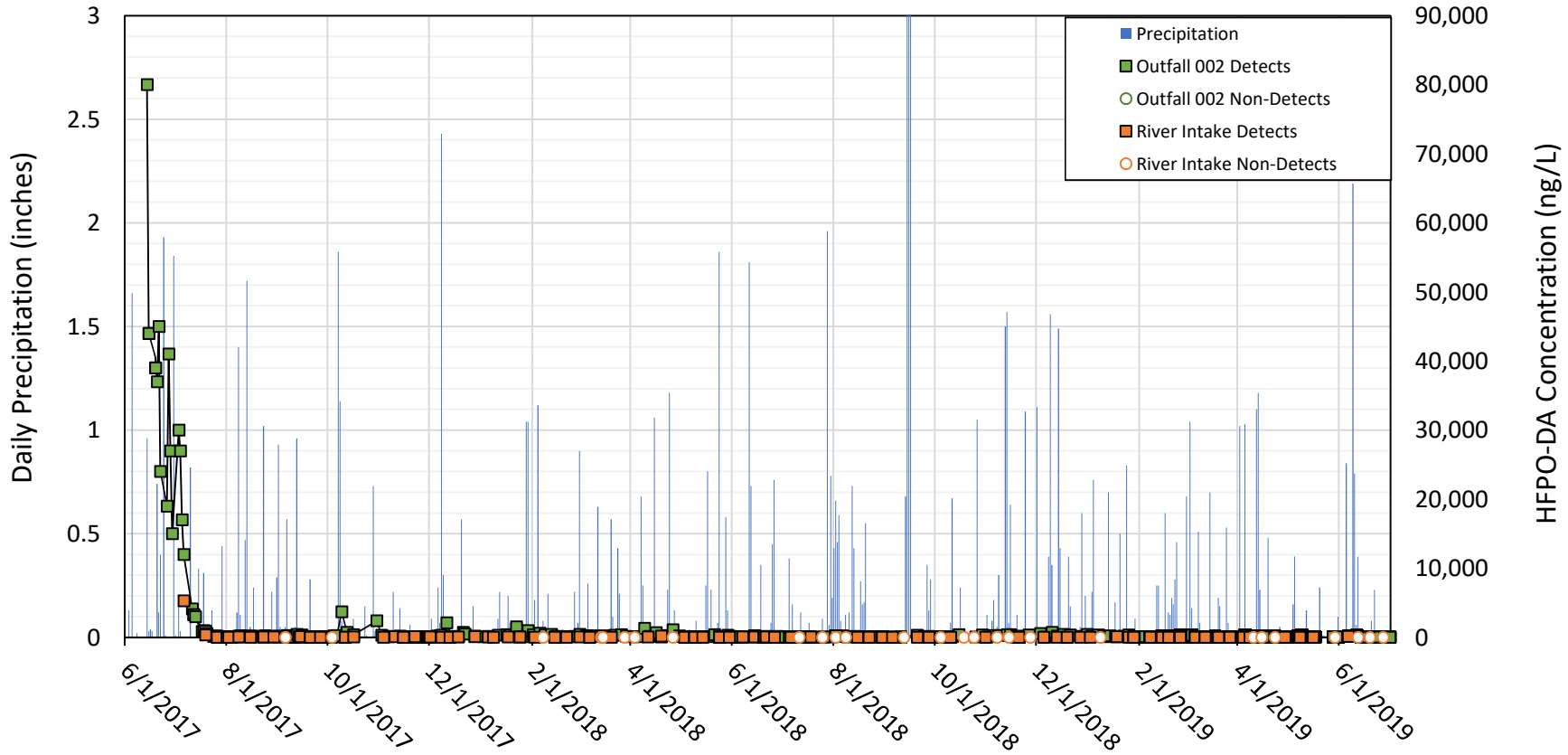
Figure 3

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



Notes:
- Outfall 002 samples are a combination of 1-day and 3-day composite and grab samples.
- Precipitation data plotted is the 24-hour rainfall amount for each day.
- Precipitation data obtained from USGS rain gauge at W.O. Huske Dam. Precipitation data for September 13-16, 2018 obtained from onsite rain gauge, since USGS rain gauge did not collect data during Hurricane Florence.

Acronyms:
- HFPO-DA - Hexafluoropropylene oxide dimer acid
- ng / L: nanograms per liter
- USGS: United States Geological Survey

Precipitation Data and Outfall 002 HFPO-DA Concentrations (June 2017 - July 2019)

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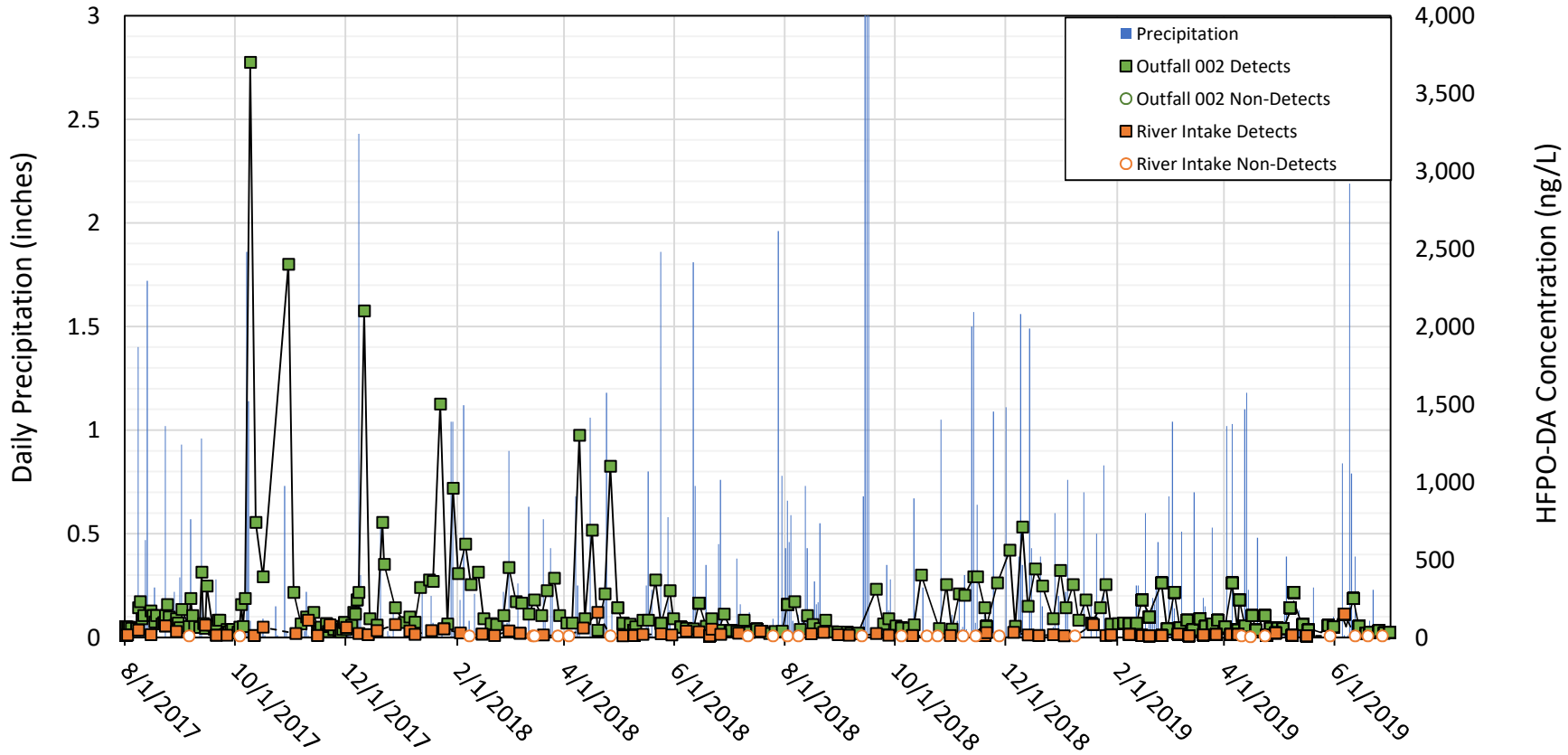
Figure 4



Notes:
- Outfall 002 samples are a combination of 1-day and 3-day composite and grab samples.
- Precipitation data plotted is the 24-hour rainfall amount for each day.
- Precipitation data obtained from USGS rain gauge at W.O. Huske Dam. Precipitation data for September 13-16, 2018 obtained from onsite rain gauge, since USGS rain gauge did not collect data during Hurricane Florence.

Acronyms:
- HFPO-DA - Hexafluoropropylene oxide dimer acid
- ng / L: nanograms per liter
- USGS: United States Geological Survey

Precipitation Data and Outfall 002 HFPO-DA Concentrations (August 2017 - July 2019)
Chemours Fayetteville Works, North Carolina

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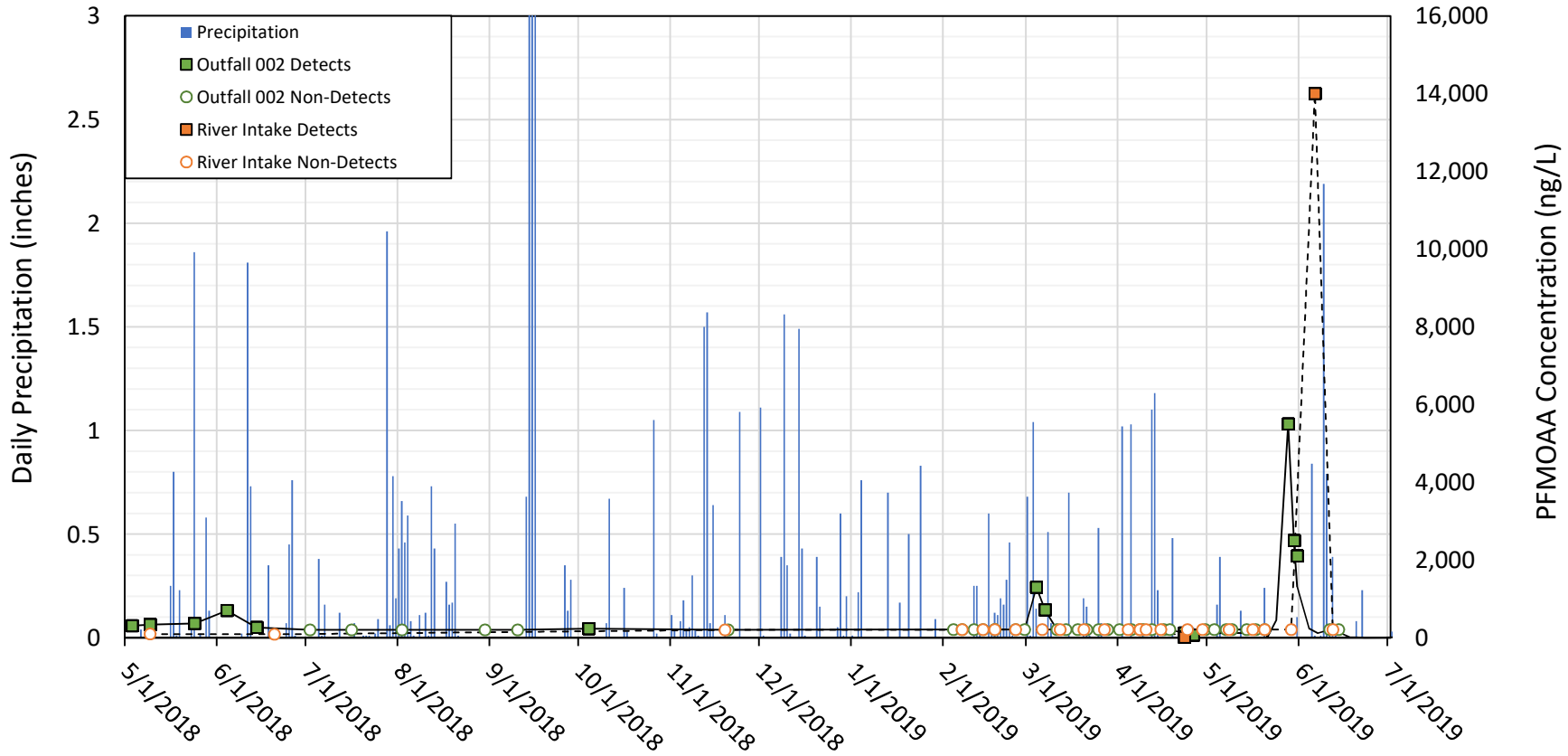
Figure
5



Notes:

- Outfall 002 samples are a combination of 1-day and 3-day composite and grab samples.
- Precipitation data plotted is the 24-hour rainfall amount for each day.
- Precipitation data obtained from USGS rain gauge at W.O. Huske Dam. Precipitation data for September 13-16, 2018 obtained from onsite rain gauge, since USGS rain gauge did not collect data during Hurricane Florence.
- Intake and Outfall 002 PFMOAA concentrations in late May and early June 2019 are described in the *Observations of Elevated PFAS Concentrations at the Cape Fear River Intake and Outfall 002 Sample Locations in May and June 2019 Memorandum* (Geosyntec, 2019B)

Acronyms:

- ng / L: nanograms per liter
- PFMOAA - Perfluoro-2-methoxyaceticacid
- USGS: United States Geological Survey

Precipitation Data and Outfall 002 PFMOAA Concentrations (May 2018 - July 2019)

Chemours Fayetteville Works, North Carolina

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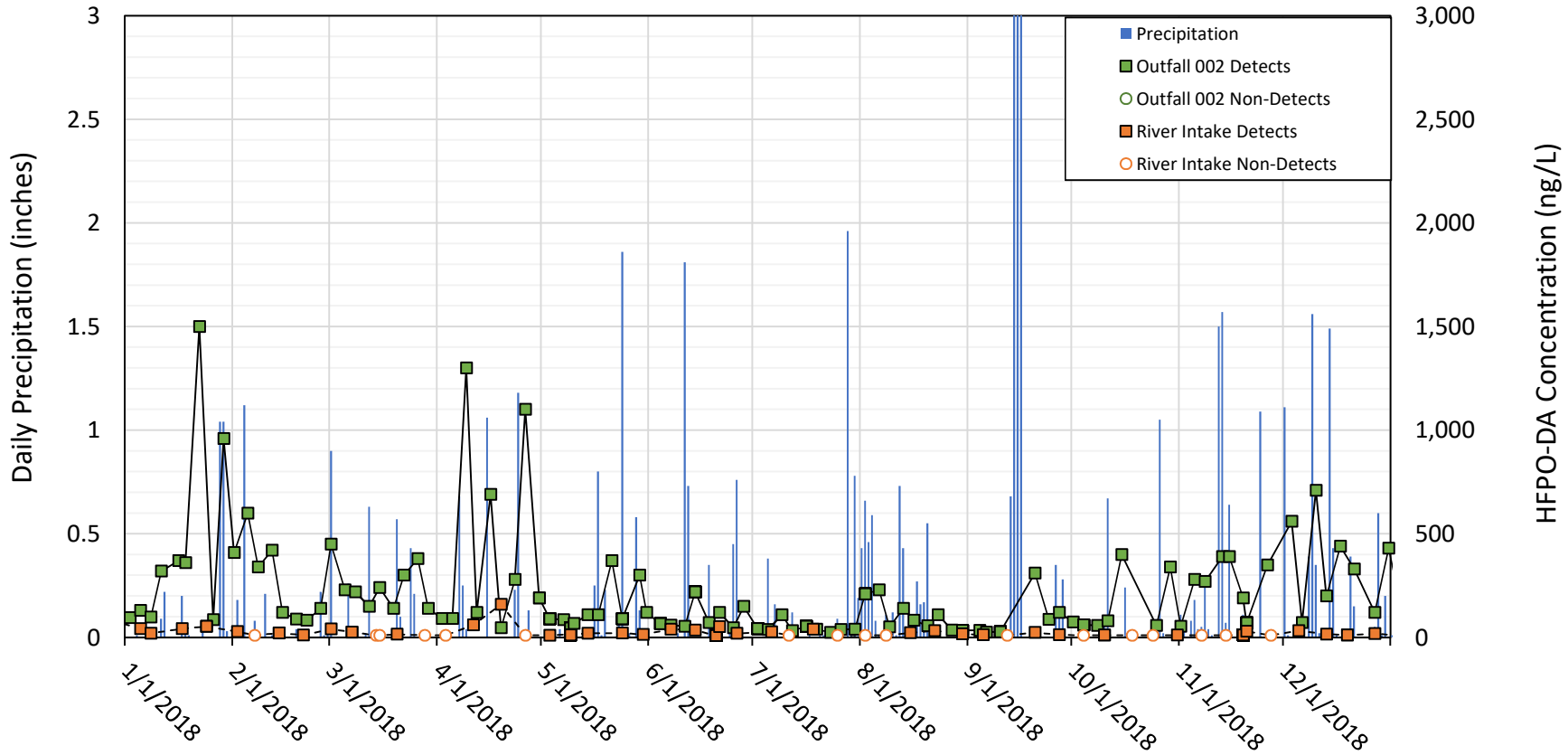
Figure

6



Notes:
- Outfall 002 samples are a combination of 1-day and 3-day composite and grab samples.
- Precipitation data plotted is the 24-hour rainfall amount for each day.
- Precipitation data obtained from USGS rain gauge at W.O. Huske Dam. Precipitation data for September 13-16, 2018 obtained from onsite rain gauge, since USGS rain gauge did not collect data during Hurricane Florence.

Acronyms:
- HFPO-DA - Hexafluoropropylene oxide dimer acid
- ng / L: nanograms per liter
- USGS: United States Geological Survey

Calendar Year 2018 HFPO-DA Concentrations at Outfall 002
Chemours Fayetteville Works, North Carolina

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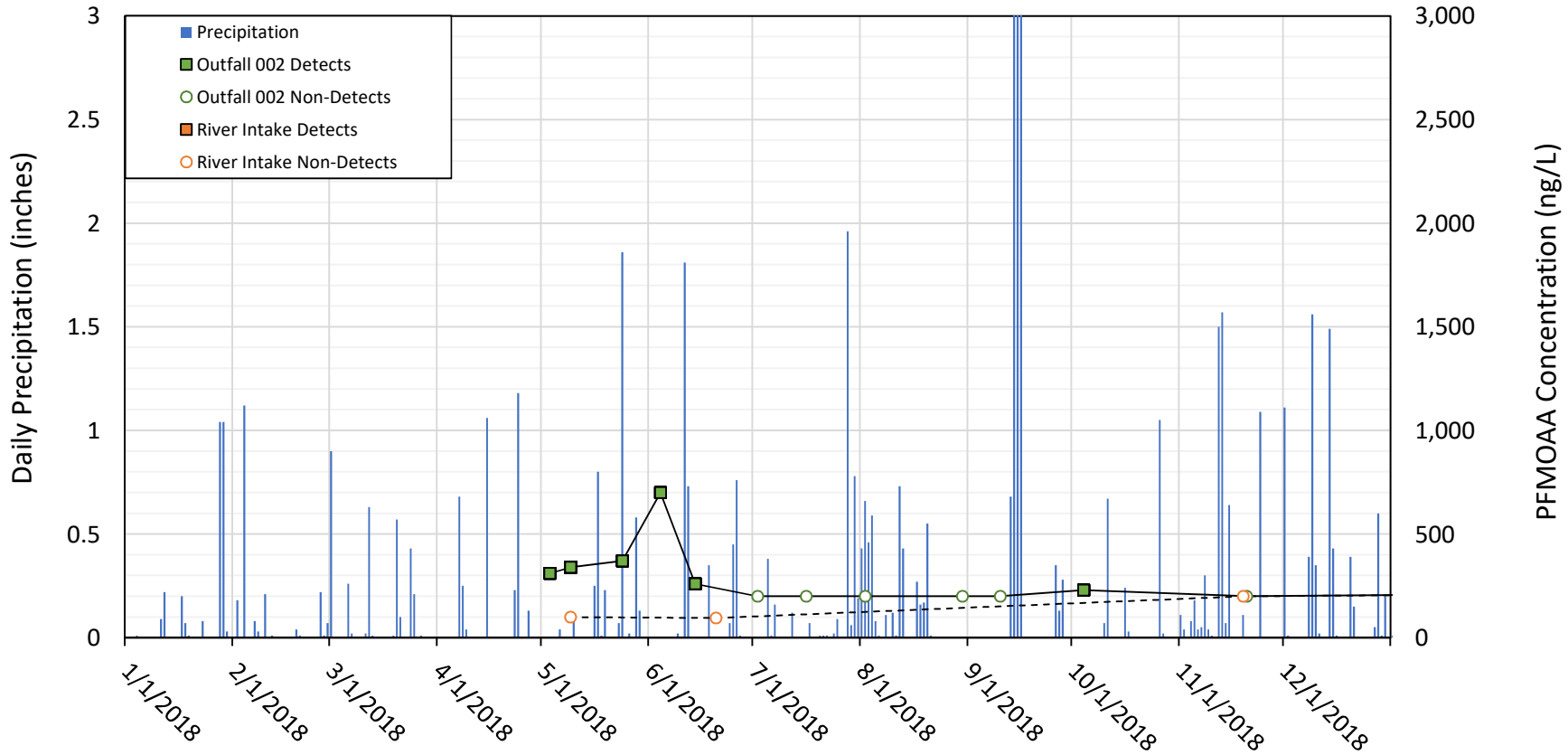
Figure
7



Notes:
- Outfall 002 samples are a combination of 1-day and 3-day composite and grab samples.
- Precipitation data plotted is the 24-hour rainfall amount for each day.
- Precipitation data obtained from USGS rain gauge at W.O. Huske Dam. Precipitation data for September 13-16, 2018 obtained from onsite rain gauge, since USGS rain gauge did not collect data during Hurricane Florence.

Acronyms:
- ng / L: nanograms per liter
- PFMOAA - Perfluoro-2-methoxyaceticacid
- USGS: United States Geological Survey

Calendar Year 2018 PFMOAA Concentrations at Outfall 002
Chemours Fayetteville Works, North Carolina

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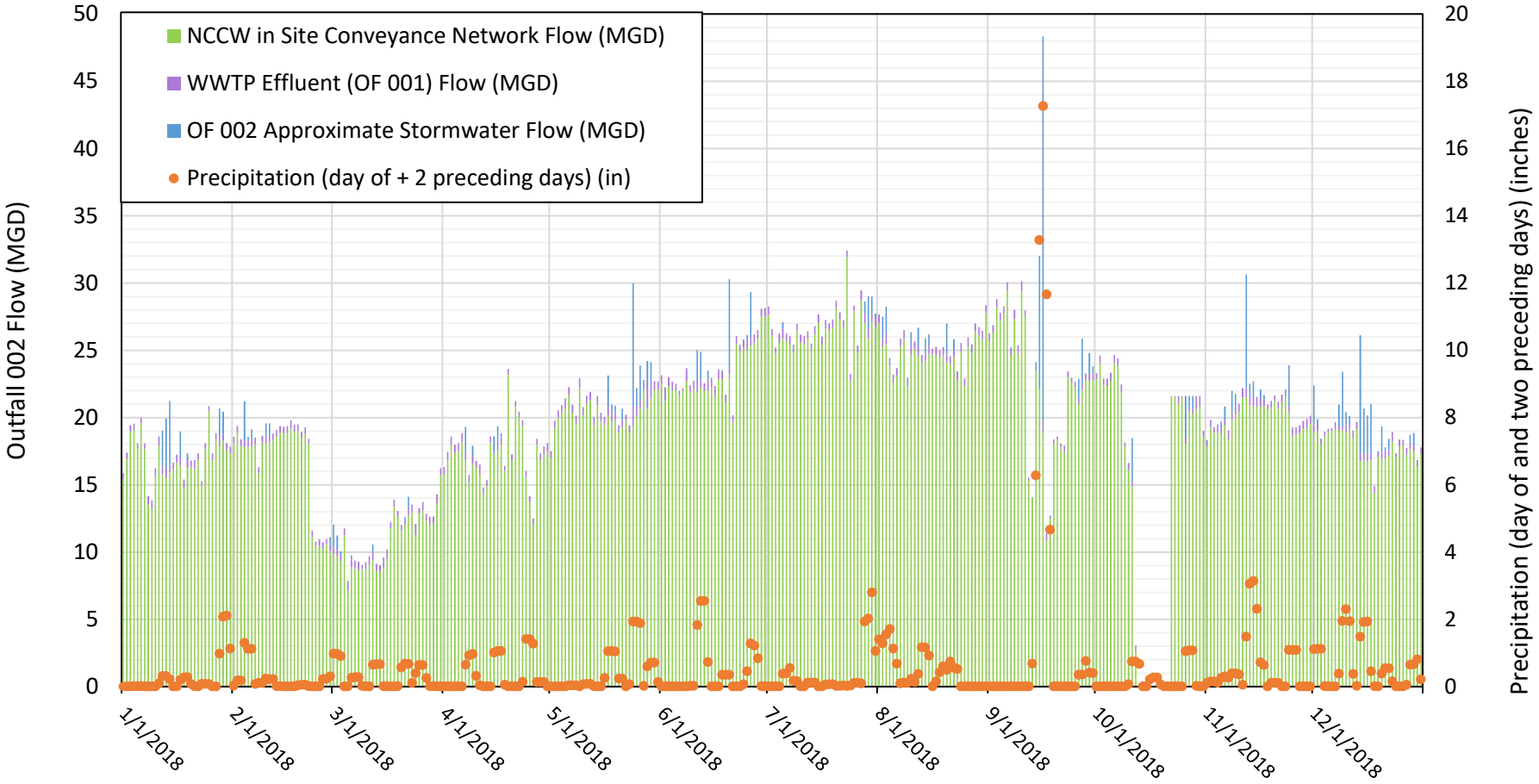
Figure
8



Acronyms:

- MGD - millions of gallons per day
- in - inches
- NCCW - non-contact cooling water
- WWTP - wastewater treatment plant

Calendar Year 2018 Outfall 002 Flow and Precipitation
Chemours Fayetteville Works, North Carolina

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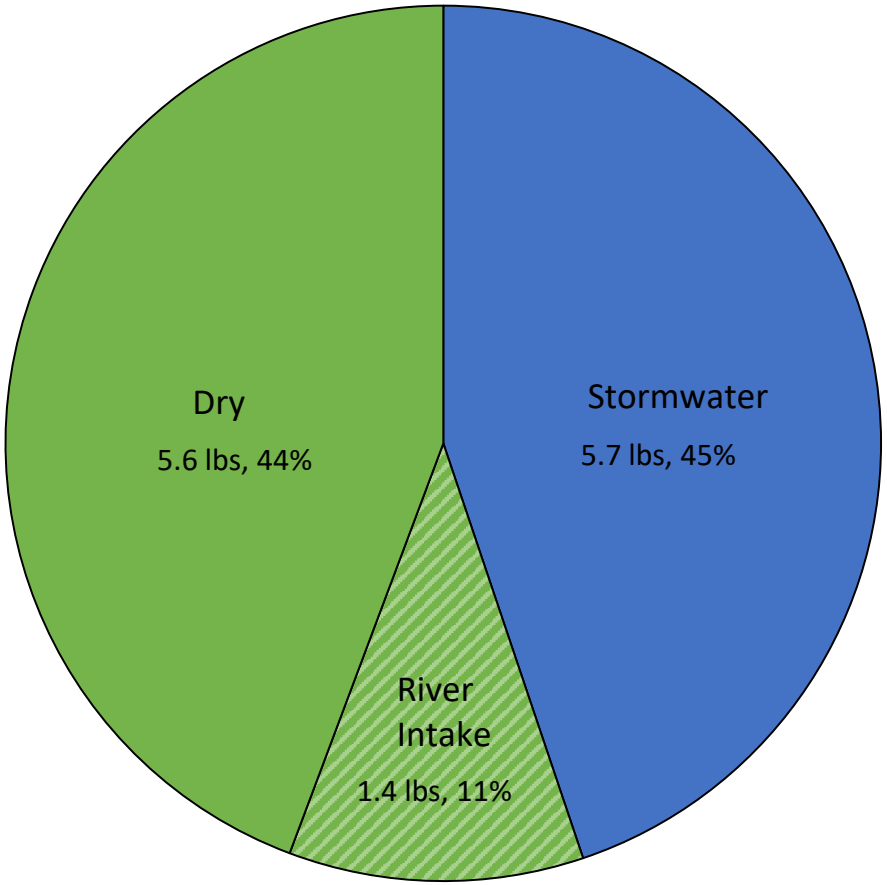
Figure 9



Acronyms:
- HFPO-DA - Hexafluoropropylene oxide dimer acid
- lbs - pounds

Calendar Year 2018 HFPO-DA Loading at Outfall 002
Chemours Fayetteville Works, North Carolina

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NC License No.: C-3500 and C-295

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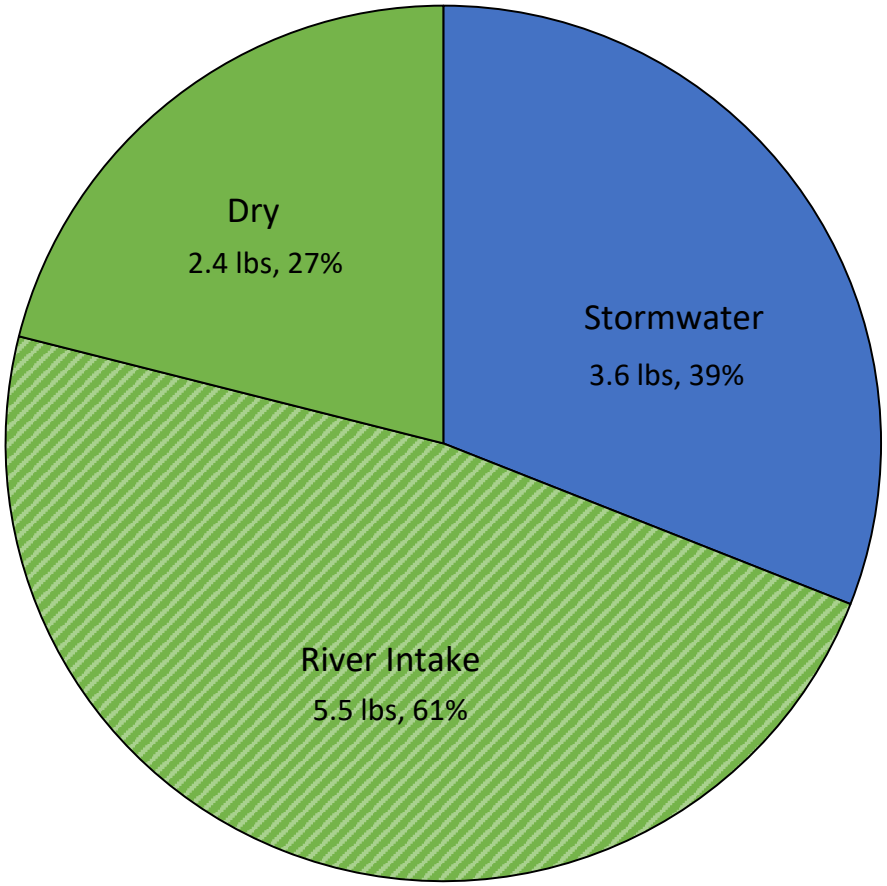
Figure **10**



Acronyms:
- lbs - pounds
- PFMOAA - Perfluoro-2-methoxyaceticacid

Calendar Year 2018 PFMOAA Loading at Outfall 002
Chemours Fayetteville Works, North Carolina

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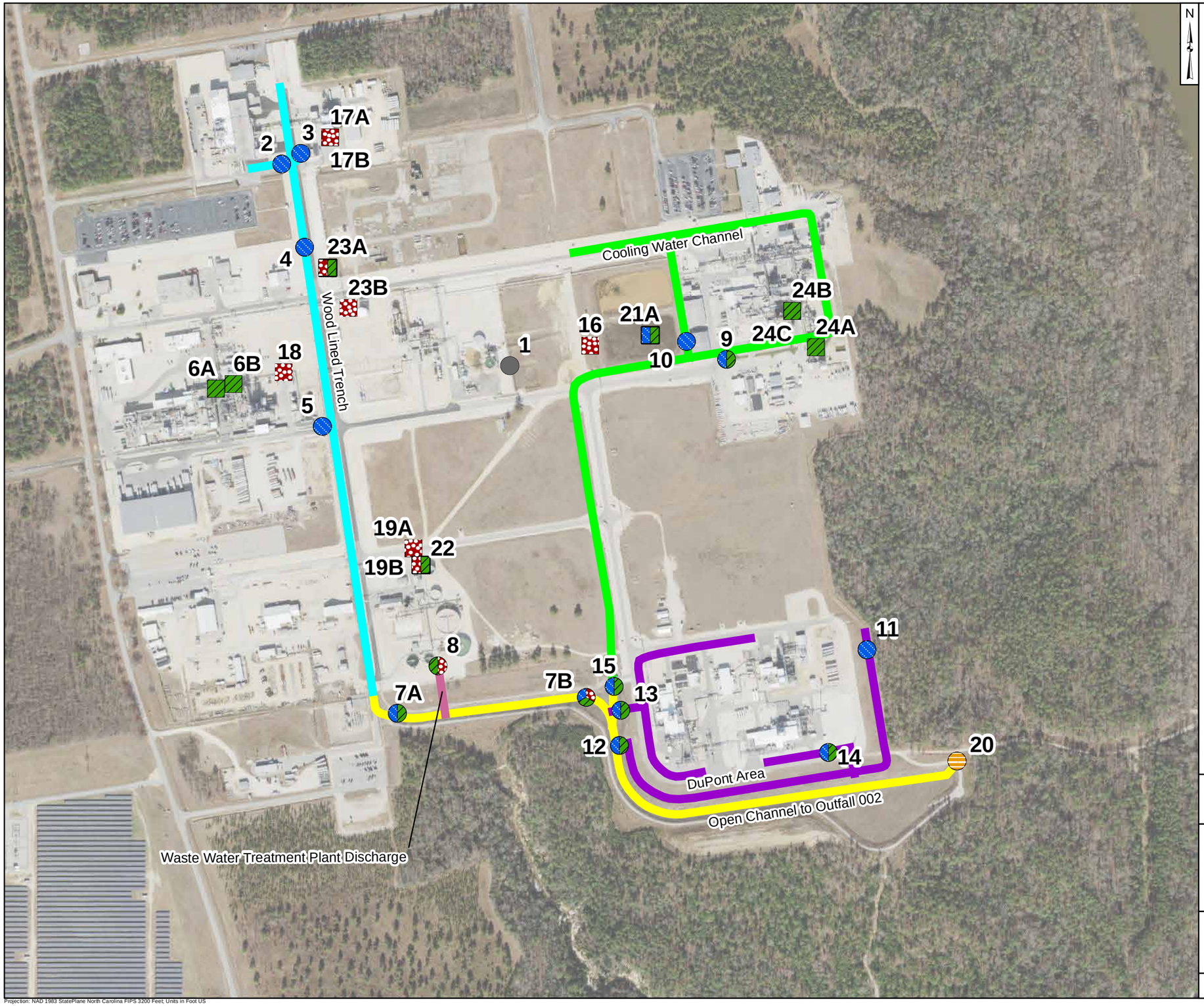
NC License No.: C-3500 and C-295

Raleigh | August 2019

Figure
11



Legend

- Temporal Composite Sample
- Grab Sample

Sample Location Category

- Outfall 002
- Intake
- Process wastewater
- Non-process wastewater
- Stormwater

Discharge Areas

- Wood Lined Trench
- Wastewater Treatment Plant Discharge
- Cooling Water Channel
- Open Channel to Outfall 002
- DuPont Area Ditches

500 250 0 500 Feet

Paragraph 11(b) Sample Locations

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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NC License No.: C-3500 and C-295

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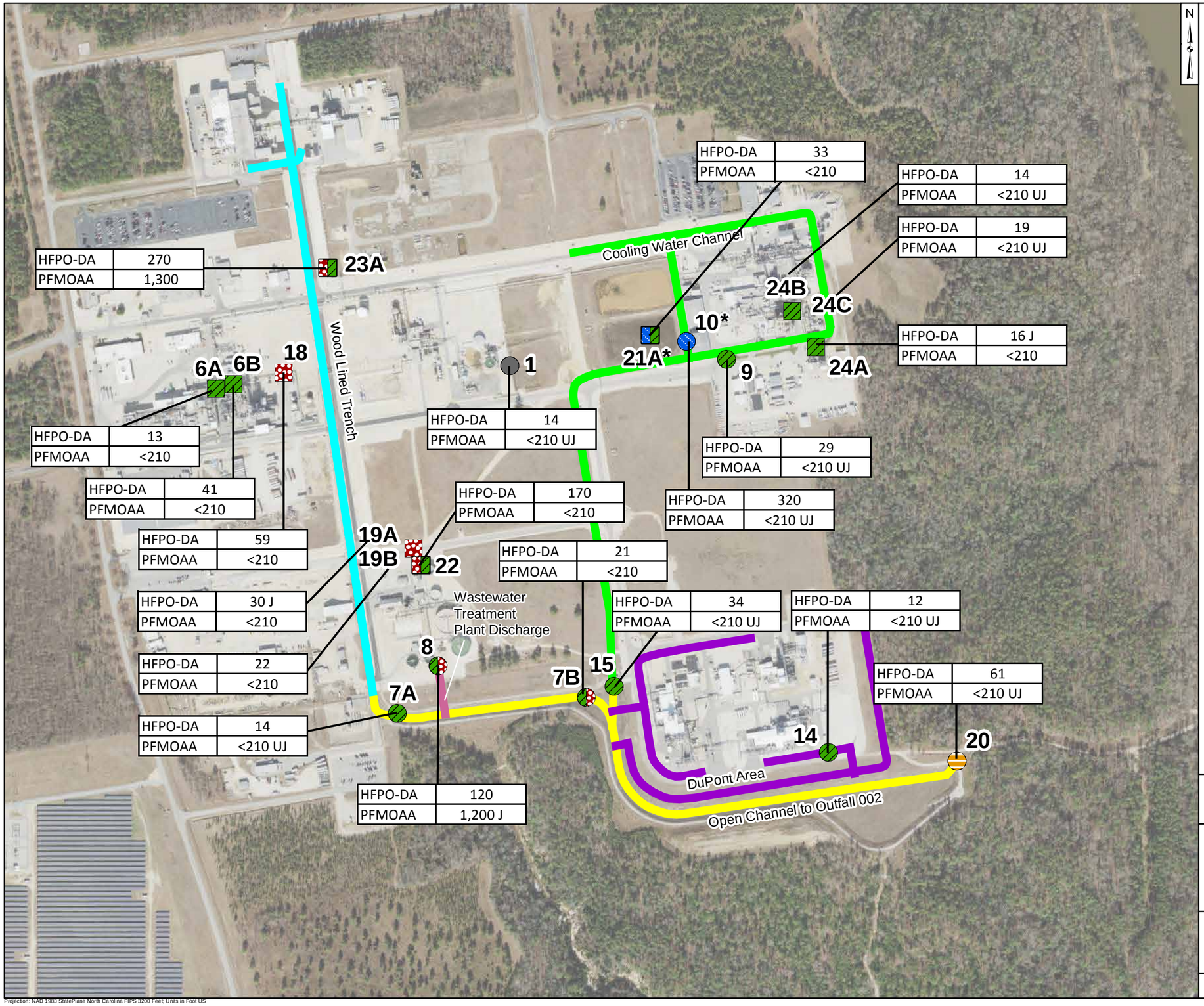
Figure 12

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



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

Legend

- Temporal Composite Sample
- Grab Sample

Sample Location Category

- Outfall 002
- Intake
- Process wastewater
- Non-process wastewater
- Stormwater if present

Ditch Types

- Wood Lined Trench
- Wastewater Treatment Plant Discharge
- Cooling Water Channel
- Open Channel to Outfall 002
- DuPont Area Ditches

Constituent	Result (ng/L)
HFPO-DA	33
PFMOAA	<210

Notes:
Samples collected on April 24, 2019.
All concentrations are in nanograms per liter.
Location 20 collected from channel upstream of sump.
Temporal composite samples collected over 4 hour interval.
J – estimated value
UJ - Estimated reporting limit
HFPO-DA - Hexafluoropropylene oxide dimer acid
PFMOAA - Perfluoro-2-methoxyacetic acid
* detained stormwater

500 250 0 500 Feet

HFPO-DA and PFMOAA Concentrations
April 2019 Dry Event

Chemours Fayetteville Works, North Carolina

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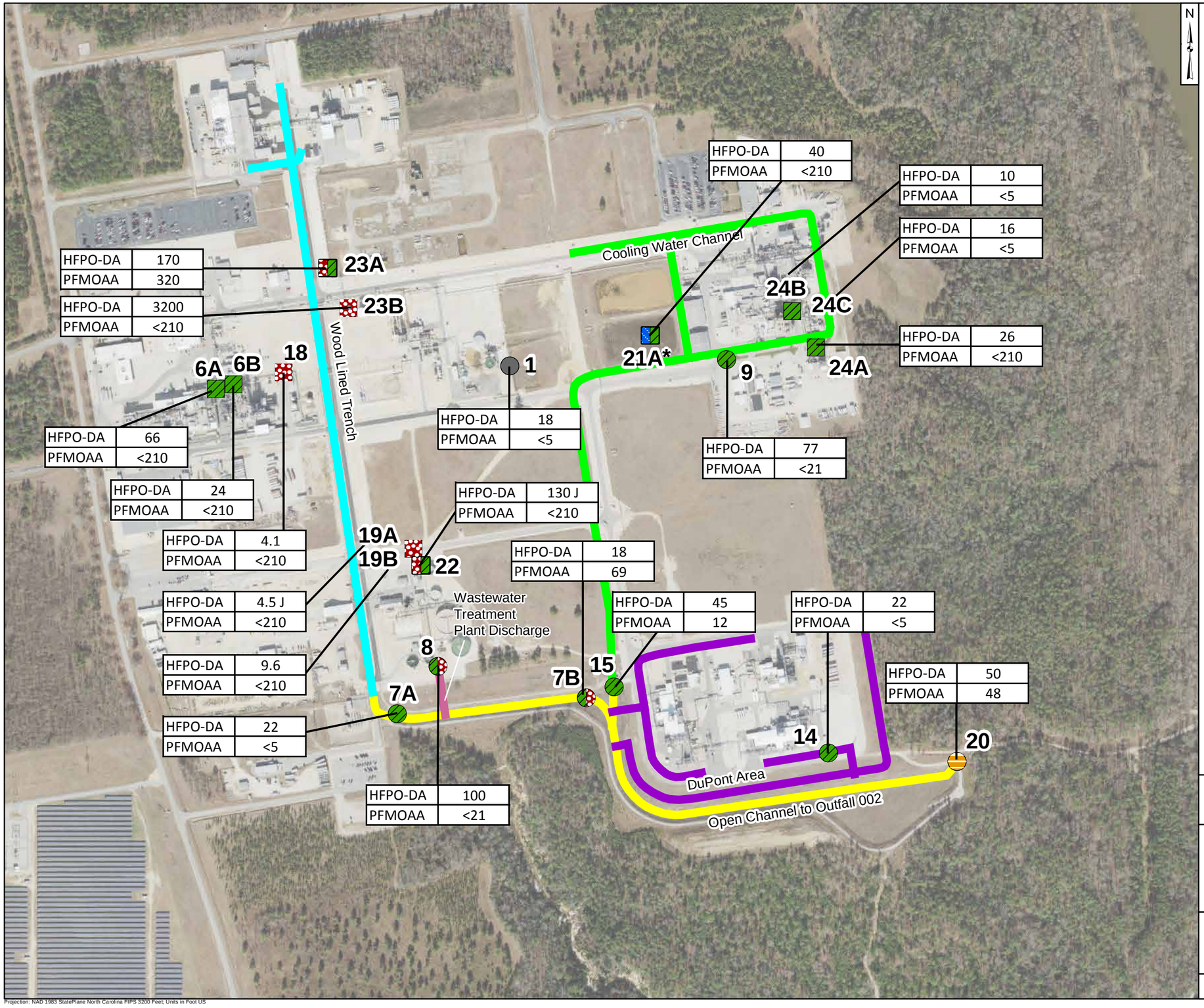
Figure 13



Legend

- Temporal Composite Sample
- Grab Sample

Sample Location Category

- Outfall 002
- Intake
- Process wastewater
- Non-process wastewater
- Stormwater if present

Ditch Types

- Wood Lined Trench
- Wastewater Treatment Plant Discharge
- Cooling Water Channel
- Open Channel to Outfall 002
- DuPont Area Ditches

Constituent	Result (ng/L)
HFPO-DA	12.7
PFMOAA	<10.6

Notes:
Samples collected on June 27, 2019.
All concentrations are in nanograms per liter.
Temporal composite samples collected over 4 hour interval.
J - estimated value
HFPO-DA - Hexafluoropropylene oxide dimer acid
PFMOAA - Perfluoro-2-methoxyacetic acid
* detained stormwater

500 250 0 500 Feet

HFPO-DA and PFMOAA Concentrations
June 2019 Dry Event

Chemours Fayetteville Works, North Carolina

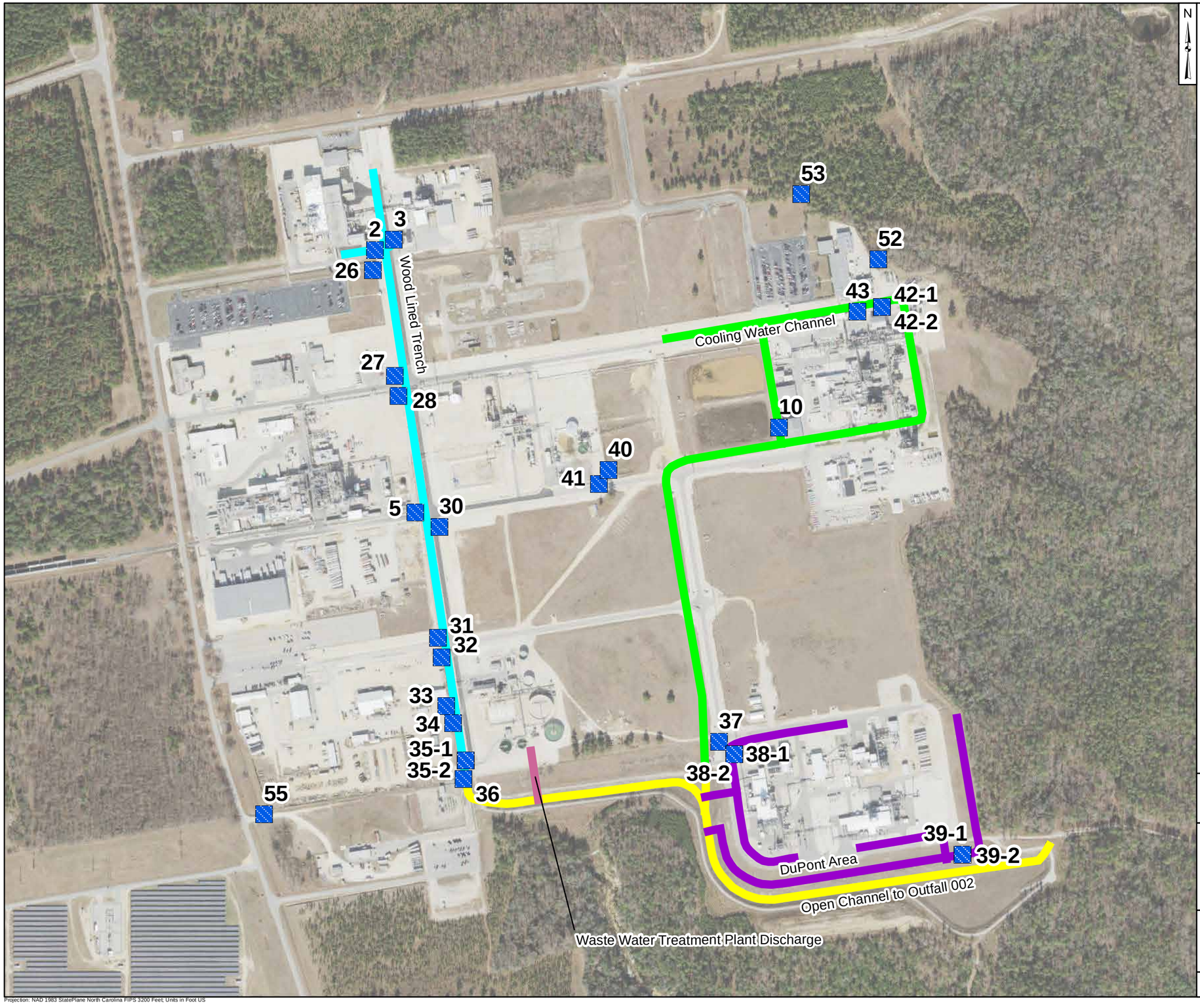
Geosyntec consultants

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

Raleigh | August 2019

Figure 14

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



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

Stormwater Sampling Locations

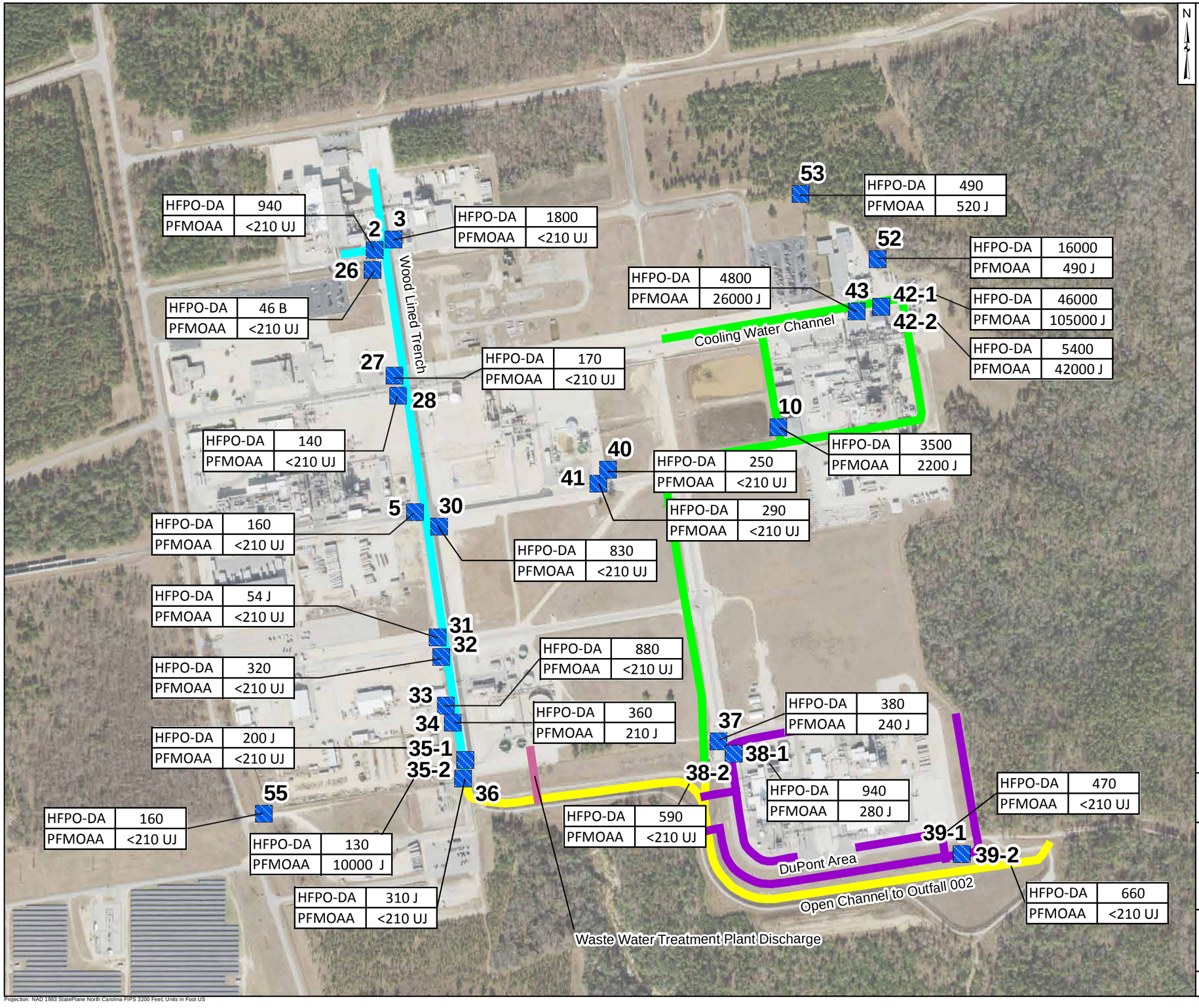
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | August 2019

Figure 15



Legend

- Stormwater Grab Sample Location

Discharge Areas

- Wood Lined Trench
- Waste Water Treatment Plant Discharge
- Cooling Water Channel
- Open Channel to Outfall 002
- DuPont Area Ditches

Constituent	Result (ng/L)
HFPO-DA	490
PFMOAA	520

Notes:
ng/L - nanograms per liter
B - detection in associated blank
J - estimated value
UJ - estimated reporting limit
HFPO-DA - Hexafluoropropylene oxide dimer acid
PFMOAA - Perfluoro-2-methoxyacetic acid

500 250 0 500 Feet

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

HFPO-DA and PFMOAA Concentrations
June 2019 Storm Event

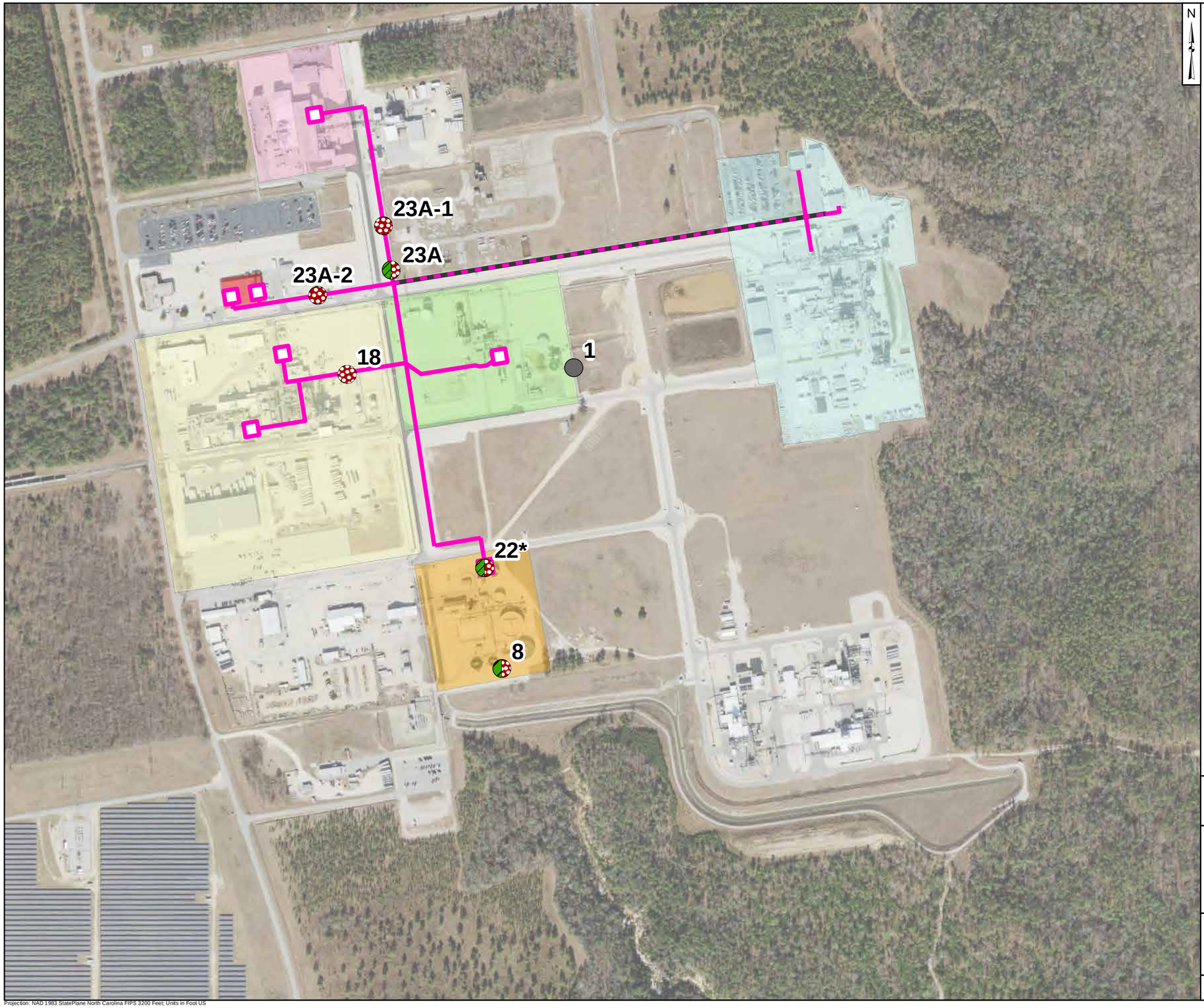
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | August 2019

Figure 16



N

Legend

- Pipe Connection to Facility
- Terracotta Pipe and Piping Connected to Terracotta Pipe
- Grouted Pipe Section
- Temporal Composite Sample

Site Areas

- Chemours Monomer IXM Area
- Kuraray Trosifol® Manufacturing Operations
- Kuraray Laboratory
- Kuraray SentryGlas® Manufacturing Operations
- Power - Filtered and Demineralized Water Production
- Wastewater Treatment Plant

Sample Location Category

- Intake
- Process wastewater
- Non-process wastewater

Notes:
Samples were collected as 24-hr composite samples.
All samples were collected simultaneously except Location 8, which was collected 1 hydraulic residence time after the other locations.
* Due to a sediment blockage, sample was only collected over 8 hours. Results may potentially be influenced by presence of sediment.
Aerial imagery provided by Esri basemaps (2017).

500 250 0 500 Feet

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

Wastewater Treatment Plant Sampling Locations

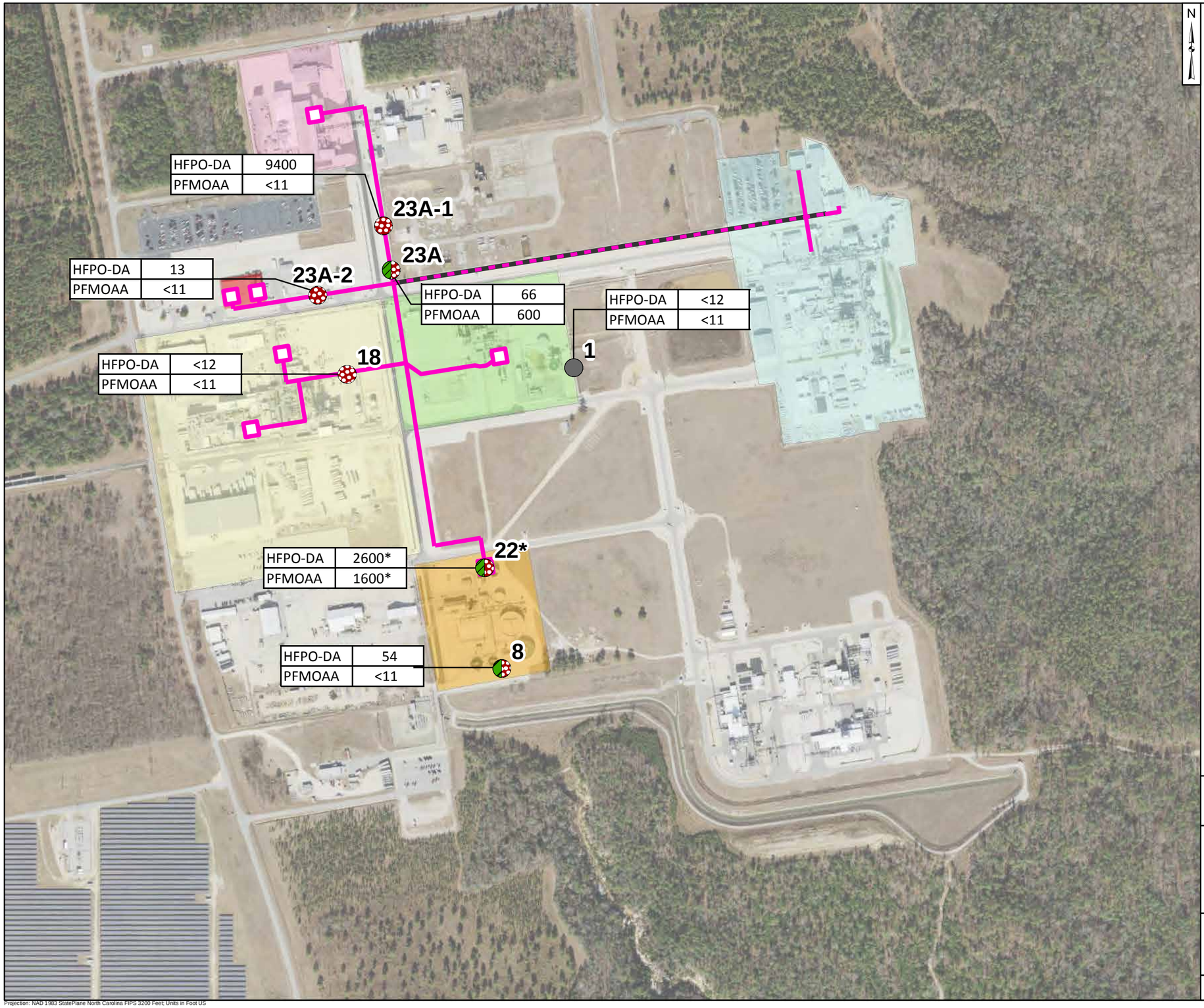
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | August 2019

Figure 17



Legend

- Pipe Connection to Facility
- Terracotta Pipe and Piping Connected to Terracotta Pipe
- Grouted Pipe Section
- Temporal Composite Sample

Site Areas

- Chemours Monomer IXM Area
- Kuraray Trosifol® Manufacturing Operations
- Kuraray Laboratory
- Kuraray SentryGlas® Manufacturing Operations
- Power - Filtered and Demineralized Water Production
- Wastewater Treatment Plant

Sample Location Category

- Intake
- Process wastewater
- Non-process wastewater

Constituent	Result (ng/L)
HFPO-DA	13
PFMOAA	<11

Notes:
Samples were collected as 24-hr composite samples.
All samples were collected simultaneously except Location 8, which was collected 1 hydraulic residence time after the other locations.
Data reported here are from the Fayetteville Works onsite laboratory. Sample results from TestAmerica were still pending at time of report preparation.
* Due to a sediment blockage, sample was only collected over 8 hours. Results may potentially be influenced by presence of sediment.
ng/L - nanograms per liter
Aerial imagery provided by Esri basemaps (2017).

500 250 0 500 Feet

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

HFPO-DA and PFMOAA Concentrations
Wastewater Treatment Plant Sampling

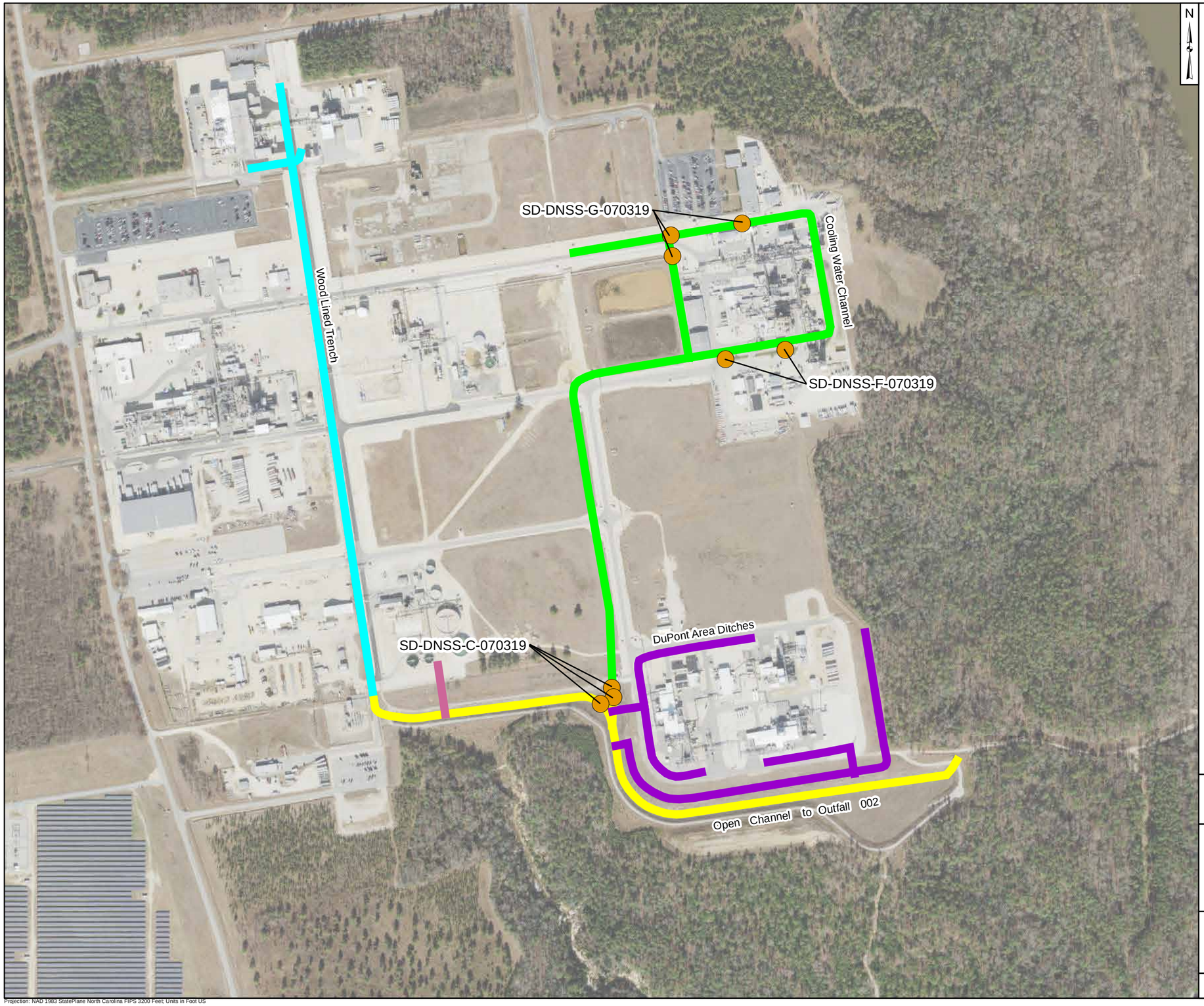
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | August 2019

Figure **18**



Legend

Composite Sediment Sample Location

Ditch Types

- Wood Lined Trench
- Wastewater Treatment Plant Discharge
- Cooling Water Channel
- Open Channel to Outfall 002
- DuPont Area Ditches

Notes:
1. Sediment samples collected July 3, 2019.
2. Samples were collected from individual locations then composited for analysis.
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

500 250 0 500 Feet

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

Composite Sediment Sample Locations

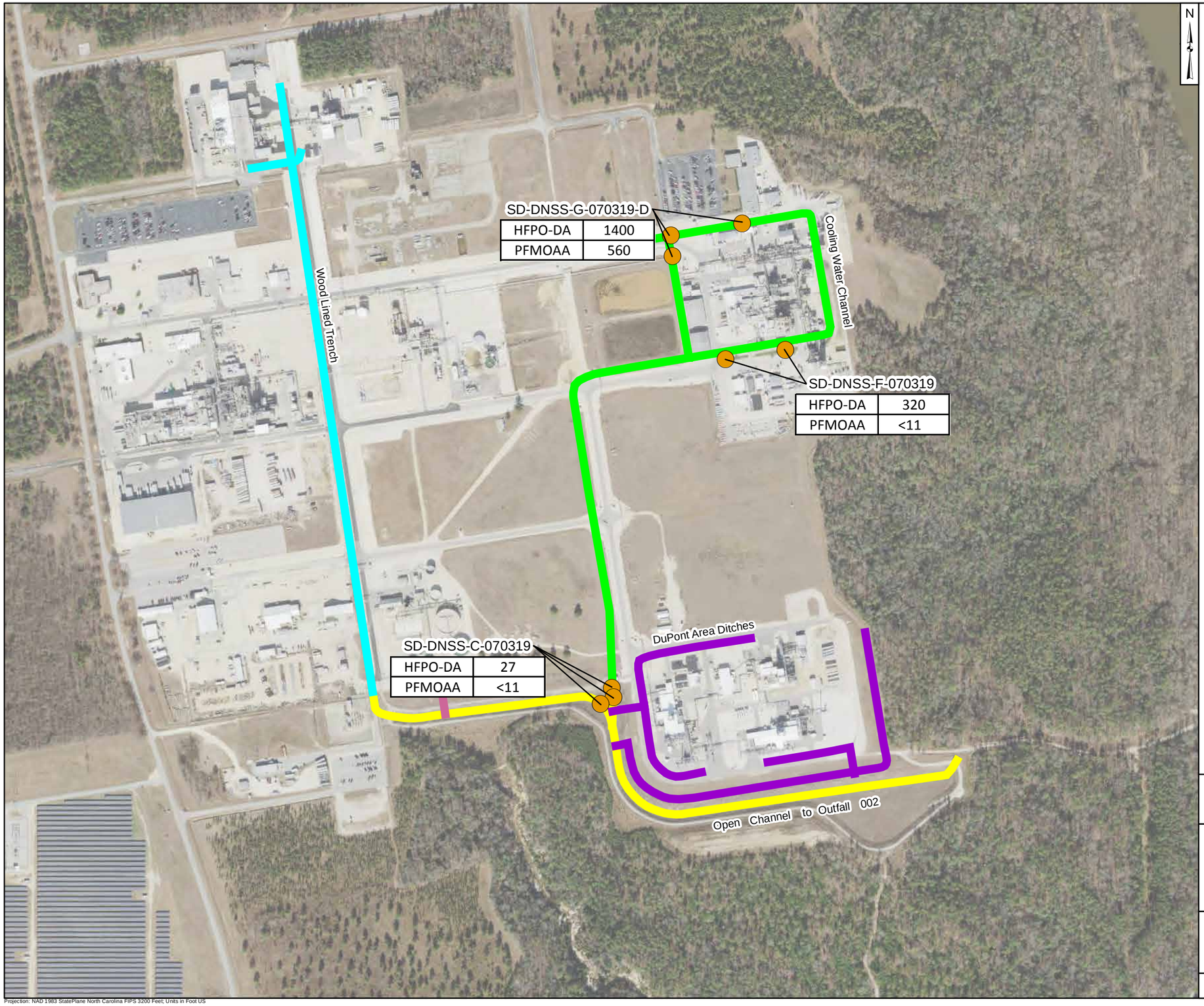
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | August 2019

Figure **19**



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

Legend

Composite Sediment Sample Location

Ditch Types

- Wood Lined Trench
- Wastewater Treatment Plant Discharge
- Cooling Water Channel
- Open Channel to Outfall 002
- DuPont Area Ditches

Constituent	Result (ng/L)
HFPO-DA	1400
PFMOAA	560

Notes:
ng/L - nanograms per liter

1. Sediment samples collected July 3, 2019.
2. Duplicate results for Location SD-DNSS-G-070319 are reported here since parent sample was analyzed as separate samples instead of being composited from all locations. All results are provided in Table X.
3. Data reported here are from the Fayetteville Works onsite laboratory. Sample results from TestAmerica were still pending at time of report preparation.
4. Equal masses of deionized water and sediment (approximately 100-g each) were combined together in a high-density polyethylene (HDPE) bottle and mixed together. The resulting overlying water was then analyzed.
5. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

500 250 0 500 Feet

Results of Deionized Water Added to Composite Sediment Samples

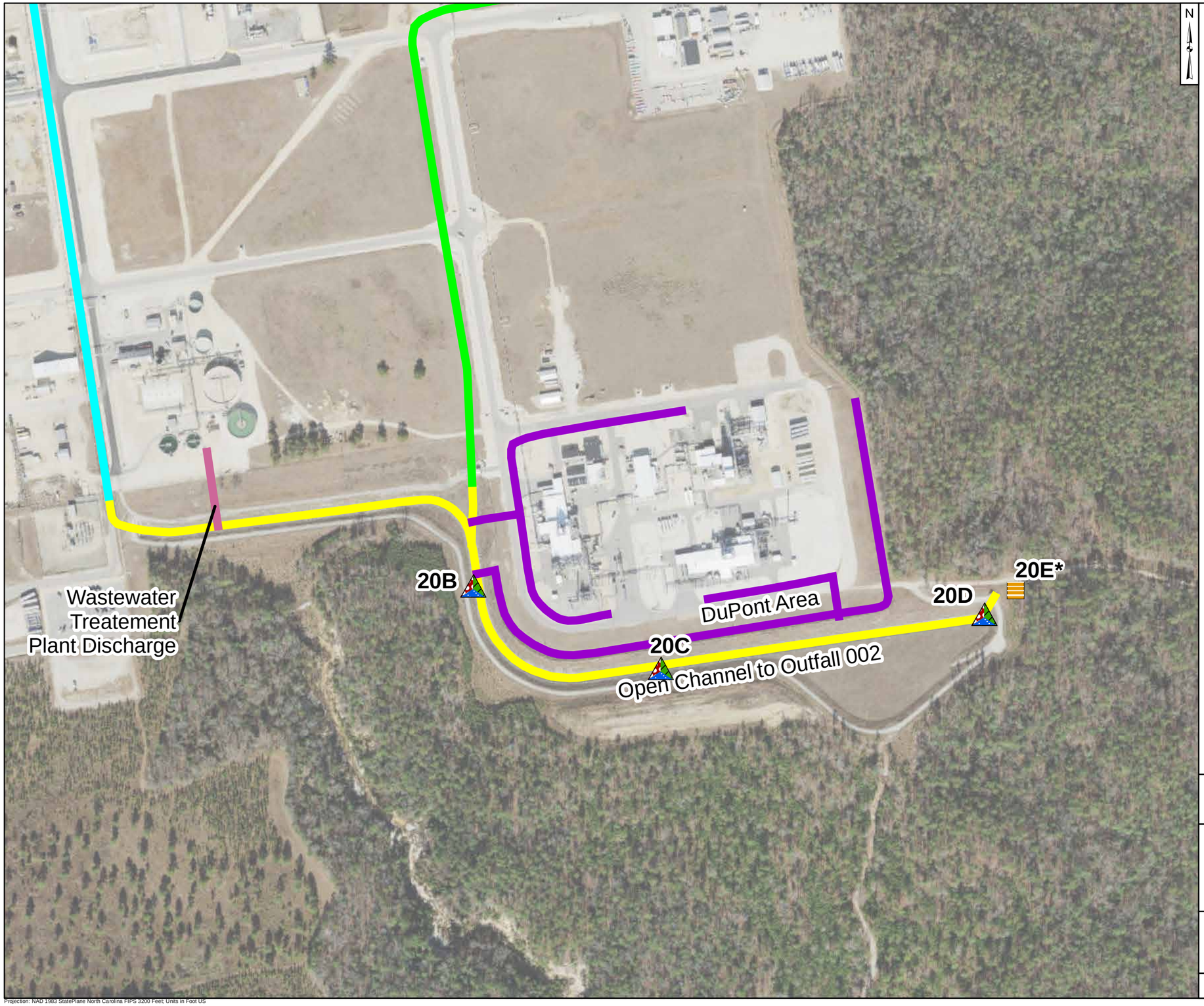
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | August 2019

Figure 20



N

Legend

Grab Sample

Spatial Composite Sample

Sample Location Category

Outfall 002

Process wastewater

Non-process wastewater

Stormwater

Ditch Types

Wood Lined Trench

Wastewater Treatment Plant Discharge

Cooling Water Channel

Open Channel to Outfall 002

DuPont Area Ditches

Notes:
Spatial composite samples collected as three grab samples along channel cross section then composited together.
Samples collected 30 May 2019.
* Location 20E was collected from the sump at the end of the Open Channel.

400 200 0 400 Feet

Additional Outfall 002 Sample Locations

Chemours Fayetteville Works, North Carolina

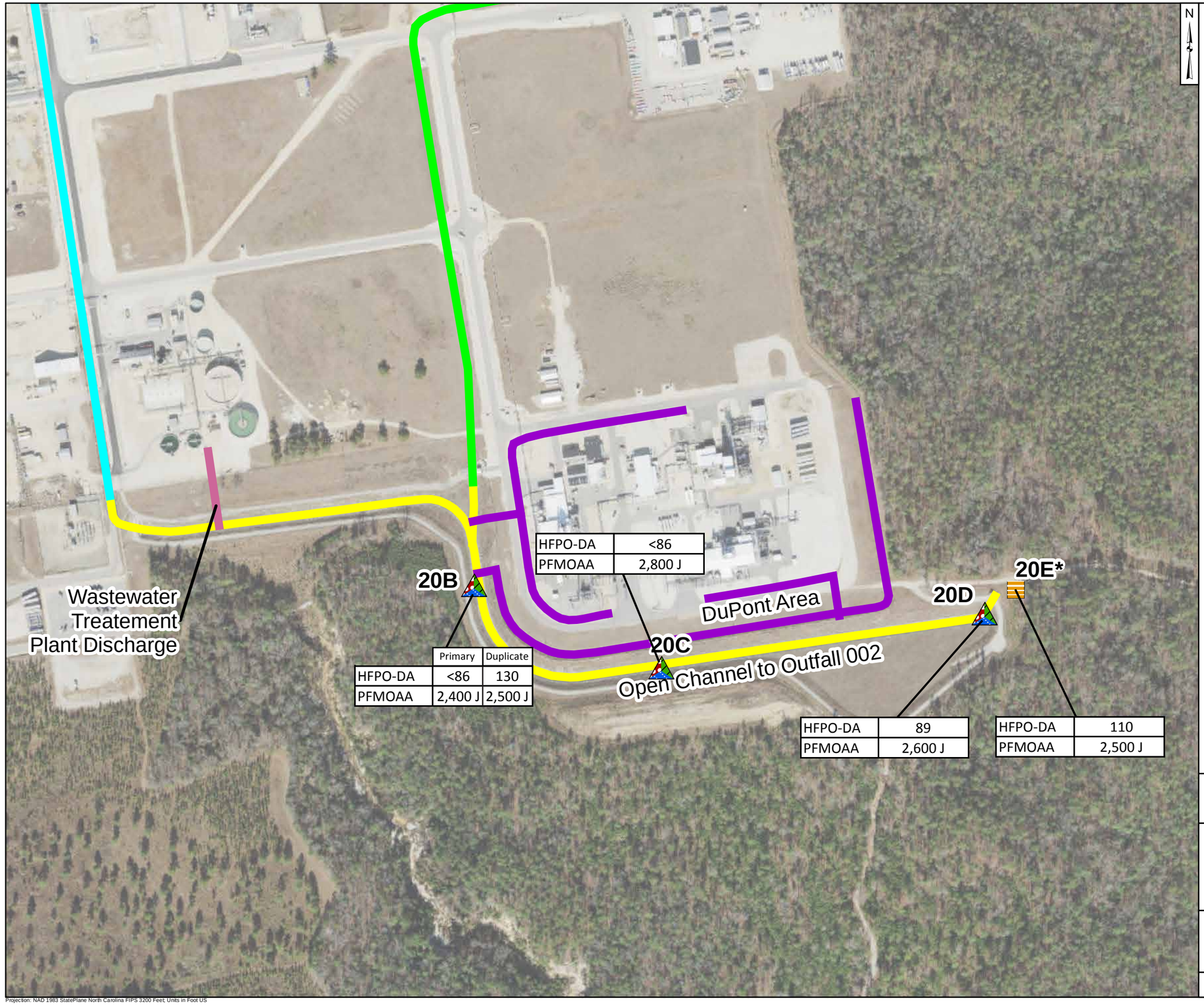
Geosyntec consultants

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

Raleigh | August 2019

Figure 21

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



Legend

Grab Sample

Spatial Composite Sample

Sample Location Category

Outfall 002

Process wastewater

Non-process wastewater

Stormwater

Ditch Types

Wood Lined Trench

Wastewater Treatment Plant Discharge

Cooling Water Channel

Open Channel to Outfall 002

DuPont Area Ditches

Notes:
J - estimated value
All concentrations are in nanograms per liter.
Spatial composite samples collected as three grab samples along channel cross section then composited together.
Samples collected 30 May 2019.
Intake and Outfall 002 PFMOAA concentrations in late May and early June 2019 are described in the Observations of Elevated PFAS Concentrations at the Cape Fear River Intake and Outfall 002 Sample Locations in May and June 2019 Memorandum (Geosyntec, 2019B).
* Location 20E was collected from the sump at the end of the Open Channel.

400 200 0 400 Feet

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

HFPO-DA and PFMOAA Concentrations – Additional Outfall 002 Samples - May 2019 Event

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | August 2019

Figure 22

APPENDIX A

Laboratory Reports & DVM Report

Note: Laboratory Reports provided separately

ADQM DATA REVIEW
NARRATIVE

Site **Chemours FAY – Fayetteville**

Project **2019 Additional Sampling**

Project Reviewer **Michael Aucoin, AECOM as a Chemours contractor**

Sampling Dates **June 5, 2019**

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
TestAmerica - Sacramento	537 Modified	PFAS[1]
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds
TestAmerica - Sacramento	SM 2540 D-1997	TSS

[1] Perfluoroalkylsubstances, a list of 33 compounds including HFPO-DA.

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on June 8, 2019.
- Field sample IDs ending with -Z were submitted for lab filtration to provide dissolved pfas and Table 3+ results.

Data Review

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process.

Overall the data is acceptable for use without qualification, except as noted below:

- Non-detect results for TSS in one sample and one field blank were qualified R and are considered to be unusable due to analysis greater than two times the analytical hold time.
- The HFPO-DA result in one field sample and PMPA results in two field samples were qualified B and may be biased high, or may be false positives, due to a comparable concentration in the associated trip (travel) blank.
- Table 3+ sample results were qualified J as estimated, and non-detect results were qualified UJ, and the reporting limit may be biased low, because the lab established holding time was exceeded.
- Several analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to matrix spike or surrogate recovery outside criteria, and; poor field duplicate, lab replicate, or LCSD precision. See the Data Verification Module

(DVM) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DVM Narrative report is attached. The lab reports due to a large page count are stored on an AECOM network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- 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.**

DVM Narrative Report

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded by a factor of 2. The reported non-detect result is unusable.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Total Suspended Solids	5.0	MG/L	MDL	5.0	5.0	R	2540 D-1997		
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Total Suspended Solids	5.0	MG/L	MDL	5.0	5.0	R	2540 D-1997		

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Contamination detected in trip blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated trip blank(s).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Hfpo Dimer Acid	0.046	UG/L	PQL		0.0040	B	537 Modified		3535_PFC
ASTW-LOC28-060519	06/05/2019	320-51135-3	PMPA	0.79	UG/L	PQL		0.57	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PMPA	0.72	UG/L	PQL		0.57	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC27-060519	06/05/2019	320-51135-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	2-(N-methyl perfluoro-1-	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	NVHOS	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	NVHOS	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	2-(N-methyl perfluoro-1-octanesulfonamido)	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	NVHOS	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	NVHOS	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFESA-BP1	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFMOAA	0.0050	ug/L	PQL		0.0050	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFESA-BP2	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Byproduct 4	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Byproduct 5	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Byproduct 5	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519-Z	06/05/2019	320-51275-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-FB-060519	06/05/2019	320-51141-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	2-(N-methyl perfluoro-1-octanesulfonamido)	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z-D	06/05/2019	320-51220-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	2-(N-methyl perfluoro-1-octanesulfonamido)	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-D	06/05/2019	320-51215-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0030	ug/L	PQL		0.0030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0030	ug/L	PQL		0.0030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0055	ug/L	PQL		0.0055	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0055	ug/L	PQL		0.0055	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PES	0.0023	UG/L	PQL		0.0023	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PES	0.0023	UG/L	PQL		0.0023	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	2-(N-methyl perfluoro-1-	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Total Suspended Solids	5.0	MG/L	MDL	5.0	5.0	UJ	2540 D-1997		
ASTW-LOC40-060519	06/05/2019	320-51134-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	2-(N-methyl perfluoro-1-	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	2-(N-ethyl perfluoro-1-	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC43-060519	06/05/2019	320-51140-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Byproduct 6	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PES	0.0046	UG/L	PQL		0.0046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PES	0.0046	UG/L	PQL		0.0046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFECA B	0.0060	UG/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFECA B	0.0060	UG/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0060	ug/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0060	ug/L	PQL		0.0060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.011	ug/L	PQL		0.011	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.011	ug/L	PQL		0.011	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	N-methyl perfluoro-1-octanesulfonamide	0.0035	ug/L	PQL		0.0035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	N-methyl perfluoro-1-octanesulfonamide	0.0035	ug/L	PQL		0.0035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	N-ethylperfluoro-1-octanesulfonamide	0.0037	UG/L	PQL		0.0037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	N-ethylperfluoro-1-octanesulfonamide	0.0037	UG/L	PQL		0.0037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PES	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	2-(N-ethyl perfluoro-1-octanesulfonamido)	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-1-060519	06/05/2019	320-51089-4	Total Suspended Solids	5.0	MG/L	MDL	5.0	5.0	UJ	2540 D-1997		
TB-10-060519	06/05/2019	320-51128-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-10-060519	06/05/2019	320-51128-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-10-060519	06/05/2019	320-51128-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-10-060519	06/05/2019	320-51128-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-10-060519	06/05/2019	320-51128-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-11-060519	06/05/2019	320-51133-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-11-060519	06/05/2019	320-51133-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-11-060519	06/05/2019	320-51133-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-11-060519	06/05/2019	320-51133-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-12-060519	06/05/2019	320-51134-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-12-060519	06/05/2019	320-51134-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-12-060519	06/05/2019	320-51134-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-12-060519	06/05/2019	320-51134-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-13-060519	06/05/2019	320-51139-6	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-13-060519	06/05/2019	320-51139-6	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-13-060519	06/05/2019	320-51139-6	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-14-060519	06/05/2019	320-51140-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-14-060519	06/05/2019	320-51140-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-14-060519	06/05/2019	320-51140-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-14-060519	06/05/2019	320-51140-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-15-060519	06/05/2019	320-51139-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-15-060519	06/05/2019	320-51139-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-15-060519	06/05/2019	320-51139-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-15-060519	06/05/2019	320-51139-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-3-060519	06/05/2019	320-51089-6	Total Suspended Solids	10	MG/L	MDL	10	10	UJ	2540 D-1997		
TB-4-060519	06/05/2019	320-51135-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-4-060519	06/05/2019	320-51135-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-4-060519	06/05/2019	320-51135-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-4-060519	06/05/2019	320-51135-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-5-060519	06/05/2019	320-51141-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
TB-5-060519	06/05/2019	320-51141-3	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-5-060519	06/05/2019	320-51141-3	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-5-060519	06/05/2019	320-51141-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	2-(N-methyl perfluoro-1-octanesulfonamido)	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			-ethanol									
TB-7-060519	06/05/2019	320-51141-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
TB-7-060519	06/05/2019	320-51141-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-7-060519	06/05/2019	320-51141-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-7-060519	06/05/2019	320-51141-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-8-060519	06/05/2019	320-51141-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-8-060519	06/05/2019	320-51141-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-8-060519	06/05/2019	320-51141-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-9-060519	06/05/2019	320-51136-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-9-060519	06/05/2019	320-51136-4	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
TB-9-060519	06/05/2019	320-51136-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-9-060519	06/05/2019	320-51136-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519-Z	06/05/2019	320-51220-2	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
ASTW-LOC31-060519	06/05/2019	320-51215-2	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
ASTW-LOC36-060519	06/05/2019	320-51139-1	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	R-EVE	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	R-EVE	0.1	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Byproduct 4	0.17	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Byproduct 4	0.16	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Byproduct 5	0.12	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Byproduct 5	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Byproduct 5	0.050	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Byproduct 5	0.053	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Hfpo Dimer Acid	0.054	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	R-EVE	0.0090	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	R-EVE	0.0083	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Byproduct 4	0.040	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Byproduct 4	0.038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Byproduct 5	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	Byproduct 5	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO3OA	0.17	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO3OA	0.17	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	R-EVE	0.065	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	R-EVE	0.064	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Byproduct 4	0.29	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Byproduct 4	0.29	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Byproduct 5	0.54	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Byproduct 5	0.54	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFMOAA	0.096	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFMOAA	0.094	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFESA-BP2	0.052	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFESA-BP2	0.052	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Hydro-EVE Acid	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Hydro-EVE Acid	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Perfluorobutanoic Acid	0.02	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO2HxA	0.23	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO2HxA	0.24	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO3OA	0.065	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO3OA	0.064	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO4DA	0.040	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO4DA	0.041	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO5DA	0.11	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFO5DA	0.12	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Perfluoropentanoic Acid	0.14	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFESA-BP1	0.016	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PFESA-BP1	0.015	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Hfpo Dimer Acid	0.39	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	NVHOS	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	NVHOS	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	R-EVE	0.020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	R-EVE	0.021	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Byproduct 4	0.099	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Byproduct 4	0.1	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Byproduct 5	0.12	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Byproduct 5	0.13	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFESA-BP2	0.023	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFESA-BP2	0.024	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Hydro-EVE Acid	0.0044	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Hydro-EVE Acid	0.0045	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFMOAA	0.038	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFMOAA	0.038	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Perfluorobutanoic Acid	0.011	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO2HxA	0.072	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO2HxA	0.076	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO3OA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO3OA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO4DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO4DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO5DA	0.039	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFO5DA	0.041	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Perfluoropentanoic Acid	0.054	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFESA-BP1	0.0042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PFESA-BP1	0.0044	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Hfpo Dimer Acid	0.28	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	NVHOS	0.0074	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	NVHOS	0.008	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Total Suspended Solids	80	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Perfluoropentanoic Acid	0.084	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519	06/05/2019	320-51139-1	Total Suspended Solids	23	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC36-060519	06/05/2019	320-51139-1	Perfluoropentanoic Acid	0.061	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Byproduct 5	0.66	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Byproduct 5	0.67	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFESA-BP2	1.5	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFESA-BP2	1.6	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFMOAA	10	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFMOAA	10.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO2HxA	2.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO2HxA	2.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO3OA	1.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO3OA	1.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO4DA	0.88	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO4DA	0.86	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO5DA	0.56	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFO5DA	0.57	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PEPA	0.081	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PEPA	0.089	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFESA-BP1	0.11	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	PFESA-BP1	0.11	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Perfluoroundecanoic Acid	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Hfpo Dimer Acid	0.1	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	NVHOS	0.37	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	NVHOS	0.36	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Byproduct 5	0.33	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Byproduct 5	0.34	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFESA-BP2	0.22	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFESA-BP2	0.22	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFMOAA	0.38	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFMOAA	0.35	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO5DA	0.10	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO5DA	0.11	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO2HxA	0.13	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFO2HxA	0.14	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PEPA	0.15	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PEPA	0.16	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFESA-BP1	0.038	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	PFESA-BP1	0.039	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Perfluoroundecanoic Acid	0.0066	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Hfpo Dimer Acid	0.15	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Byproduct 5	0.62	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Byproduct 5	0.63	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFESA-BP2	1.7	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFESA-BP2	1.7	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFMOAA	12	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFMOAA	12.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO2HxA	2.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO2HxA	2.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO3OA	1.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO3OA	1.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO4DA	1.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO4DA	1.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO5DA	0.70	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFO5DA	0.69	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFESA-BP1	0.087	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PFESA-BP1	0.086	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Hfpo Dimer Acid	0.12	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	NVHOS	0.38	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	NVHOS	0.37	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Byproduct 5	0.38	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Byproduct 5	0.39	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFESA-BP2	0.23	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFESA-BP2	0.24	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO5DA	0.095	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO5DA	0.098	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO2HxA	0.18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO2HxA	0.18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO3OA	0.058	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFO3OA	0.065	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PEPA	0.14	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PEPA	0.15	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFESA-BP1	0.027	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	PFESA-BP1	0.027	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Hfpo Dimer Acid	0.2	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC31-060519	06/05/2019	320-51215-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	N-ethylperfluoro-1-octanesulfonamide	0.17	UG/L	PQL		0.037	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFESA-BP2	0.018	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFESA-BP2	0.018	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Hydro-EVE Acid	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Hydro-EVE Acid	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Byproduct 5	0.41	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Byproduct 5	0.44	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFMOAA	0.034	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFMOAA	0.036	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFESA-BP1	0.025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFESA-BP1	0.026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	NVHOS	0.0069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	NVHOS	0.0073	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	R-EVE	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	R-EVE	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Byproduct 4	0.085	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Byproduct 4	0.081	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Byproduct 5	0.27	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	Byproduct 5	0.26	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFMOAA	0.032	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFMOAA	0.031	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFESA-BP1	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFESA-BP1	0.017	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	NVHOS	0.0063	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	NVHOS	0.0063	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	R-EVE	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	R-EVE	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Byproduct 4	0.27	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Byproduct 4	0.27	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Byproduct 5	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Byproduct 5	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFMOAA	0.048	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFMOAA	0.048	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	EVE Acid	0.0037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	EVE Acid	0.0037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Hydro-EVE Acid	0.0093	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	Hydro-EVE Acid	0.0092	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFESA-BP1	0.034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFESA-BP1	0.031	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	NVHOS	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	NVHOS	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	R-EVE	0.21	UG/L	PQL		0.0035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	R-EVE	0.22	UG/L	PQL		0.0035	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Byproduct 4	0.77	UG/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Byproduct 4	0.82	UG/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Byproduct 5	0.16	UG/L	PQL		0.0029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Byproduct 5	0.17	UG/L	PQL		0.0029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFMOAA	0.22	ug/L	PQL		0.011	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFMOAA	0.23	ug/L	PQL		0.011	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	EVE Acid	0.0094	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	EVE Acid	0.0096	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFESA-BP2	0.065	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFESA-BP2	0.065	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Hydro-EVE Acid	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	Hydro-EVE Acid	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO5DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO5DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFESA-BP1	0.28	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFESA-BP1	0.27	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	NVHOS	0.056	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	NVHOS	0.056	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFESA-BP2	0.026	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFESA-BP2	0.026	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Hydro-EVE Acid	0.0053	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Hydro-EVE Acid	0.0052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	R-EVE	0.055	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	R-EVE	0.052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Byproduct 4	0.34	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Byproduct 4	0.32	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Byproduct 5	0.053	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	Byproduct 5	0.052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFMOAA	0.18	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFMOAA	0.18	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO5DA	0.064	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO5DA	0.066	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFESA-BP1	0.022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFESA-BP1	0.022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	NVHOS	0.0076	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	NVHOS	0.0075	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Byproduct 6	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	Byproduct 6	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	EVE Acid	0.0035	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	EVE Acid	0.0034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFESA-BP2	0.0040	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFESA-BP2	0.0038	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFESA-BP2	0.55	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFESA-BP2	0.51	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Hydro-EVE Acid	0.080	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Hydro-EVE Acid	0.077	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFMOAA	2.5	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFMOAA	2.4	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO5DA	0.39	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO5DA	0.38	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFESA-BP1	0.66	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFESA-BP1	0.64	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	NVHOS	0.31	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	NVHOS	0.32	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO5DA	0.0086	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO5DA	0.0092	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFESA-BP1	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFESA-BP1	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	NVHOS	0.0089	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	NVHOS	0.0089	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	R-EVE	0.33	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	R-EVE	0.32	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Byproduct 4	0.98	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Byproduct 4	0.95	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Byproduct 5	0.64	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Byproduct 5	0.64	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Byproduct 6	0.029	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	Byproduct 6	0.029	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	R-EVE	0.095	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	R-EVE	0.091	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Byproduct 4	0.19	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Byproduct 4	0.19	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Byproduct 5	0.17	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Byproduct 5	0.17	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFMOAA	0.032	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFMOAA	0.032	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	R-EVE	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	R-EVE	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Byproduct 4	0.039	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Byproduct 4	0.038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Byproduct 5	0.0091	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	Byproduct 5	0.0089	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFMOAA	0.028	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFMOAA	0.029	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO5DA	0.0037	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO5DA	0.0029	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	NVHOS	0.0032	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	NVHOS	0.0032	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO4DA	0.0025	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO4DA	0.0026	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	R-EVE	0.020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	R-EVE	0.019	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Byproduct 4	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Byproduct 4	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Byproduct 5	0.028	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	Byproduct 5	0.029	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	NVHOS	0.0048	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	NVHOS	0.005	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	R-EVE	0.0031	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	R-EVE	0.0027	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Byproduct 5	0.0041	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Byproduct 5	0.0038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFESA-BP2	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFESA-BP2	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Hydro-EVE Acid	0.0024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	Hydro-EVE Acid	0.0024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFESA-BP1	0.0027	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFESA-BP1	0.0026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFESA-BP2	0.0058	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFESA-BP2	0.0059	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFMOAA	0.040	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFMOAA	0.04	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO5DA	0.0062	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO5DA	0.0062	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFESA-BP1	0.0028	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFESA-BP1	0.003	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	R-EVE	0.076	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	R-EVE	0.081	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Byproduct 4	0.21	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Byproduct 4	0.22	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Byproduct 5	0.037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Byproduct 5	0.038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Byproduct 6	0.0026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Byproduct 6	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFESA-BP2	0.076	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFESA-BP2	0.075	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Hydro-EVE Acid	0.0087	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	Hydro-EVE Acid	0.0088	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFMOAA	0.028	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFMOAA	0.026	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO5DA	0.092	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO5DA	0.086	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFESA-BP1	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFESA-BP1	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	NVHOS	0.0068	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	NVHOS	0.0069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFESA-BP2	0.064	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFESA-BP2	0.066	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Hydro-EVE Acid	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Hydro-EVE Acid	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	R-EVE	0.083	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	R-EVE	0.081	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Byproduct 4	0.76	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Byproduct 4	0.75	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Byproduct 5	0.077	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Byproduct 5	0.077	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Byproduct 6	0.0044	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	Byproduct 6	0.0045	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFMOAA	0.63	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFMOAA	0.64	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFESA-BP1	0.016	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFESA-BP1	0.017	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	NVHOS	0.026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	NVHOS	0.026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFMOAA	1.2	ug/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFMOAA	1.2	ug/L	PQL		0.021	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	EVE Acid	0.016	UG/L	PQL		0.0024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	EVE Acid	0.015	UG/L	PQL		0.0024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFESA-BP2	0.60	ug/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFESA-BP2	0.59	ug/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Hydro-EVE Acid	0.069	UG/L	PQL		0.0028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Hydro-EVE Acid	0.067	UG/L	PQL		0.0028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFECA-G	0.0041	UG/L	PQL		0.0041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFECA-G	0.0041	UG/L	PQL		0.0041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	R-EVE	0.45	UG/L	PQL		0.0070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	R-EVE	0.43	UG/L	PQL		0.0070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Byproduct 4	2.1	UG/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Byproduct 4	2.0	UG/L	PQL		0.016	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Byproduct 5	1.0	UG/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Byproduct 5	0.99	UG/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Byproduct 6	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	Byproduct 6	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO5DA	0.13	ug/L	PQL		0.0034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO5DA	0.13	ug/L	PQL		0.0034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFESA-BP1	0.58	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFESA-BP1	0.54	UG/L	PQL		0.0027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	NVHOS	0.33	UG/L	PQL		0.0054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	NVHOS	0.33	UG/L	PQL		0.0054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	R-EVE	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	R-EVE	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Byproduct 4	0.10	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Byproduct 4	0.1	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Byproduct 5	0.024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	Byproduct 5	0.025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFESA-BP2	0.0042	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFESA-BP2	0.0041	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFMOAA	0.0074	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFMOAA	0.0074	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO5DA	0.0046	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO5DA	0.0041	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFESA-BP1	0.0091	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFESA-BP1	0.009	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	NVHOS	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	NVHOS	0.0026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	R-EVE	0.32	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	R-EVE	0.33	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Byproduct 4	0.94	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Byproduct 4	0.93	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Byproduct 5	1.7	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Byproduct 5	1.7	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Byproduct 6	0.038	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Byproduct 6	0.038	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFMOAA	30	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFMOAA	31.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	EVE Acid	0.035	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	EVE Acid	0.037	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFESA-BP2	0.80	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFESA-BP2	0.81	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Hydro-EVE Acid	0.21	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	Hydro-EVE Acid	0.21	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFESA-BP1	1.2	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFESA-BP1	1.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	NVHOS	0.50	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	NVHOS	0.51	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	R-EVE	1.8	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	R-EVE	1.7	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Byproduct 4	3.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Byproduct 4	3.3	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Byproduct 5	1.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Byproduct 6	0.41	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Byproduct 6	0.41	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFMOAA	108	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFMOAA	110.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	EVE Acid	0.071	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	EVE Acid	0.075	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFESA-BP2	6.9	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFESA-BP2	6.9	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Hydro-EVE Acid	1.5	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	Hydro-EVE Acid	1.4	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFESA-BP1	1.7	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFESA-BP1	1.7	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	NVHOS	4.4	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	NVHOS	4.4	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Detects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Perfluorotetradecanoic Acid	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC27-060519	06/05/2019	320-51135-2	10:2 Fluorotelomer sulfonate	0.009	ug/L	PQL		0.0020	J	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	R-EVE	0.012	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	R-EVE	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Byproduct 4	0.095	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	Byproduct 4	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO5DA	0.012	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO5DA	0.01	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFESA-BP2	0.015	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFESA-BP2	0.012	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO4DA	0.0086	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO4DA	0.0069	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO5DA	0.011	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO5DA	0.0092	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Byproduct 5	0.12	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFESA-BP2	0.029	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFESA-BP2	0.025	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO5DA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO5DA	0.015	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO4DA	0.017	ug/L	PQL		0.0039	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO4DA	0.014	ug/L	PQL		0.0039	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Total Suspended Solids	22	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC37-060519	06/05/2019	320-51139-2	Total Suspended Solids	63	MG/L	MDL	10	10	J	2540 D-1997		
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Perfluorobutanoic Acid (trial)	0.0066	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Perfluoropentanoic Acid (trial)	0.021	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	Hfpo Dimer Acid (trial)	0.19	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC36-060519	06/05/2019	320-51139-1	Perfluorobutanoic Acid (trial)	0.0075	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519	06/05/2019	320-51139-1	Perfluoropentanoic Acid (trial)	0.027	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519	06/05/2019	320-51139-1	Hfpo Dimer Acid (trial)	0.19	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC36-060519	06/05/2019	320-51139-1	Perfluorobutanoic Acid	0.013	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC36-060519	06/05/2019	320-51139-1	Hfpo Dimer Acid	0.31	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFESA-BP1	0.083	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFESA-BP1	0.068	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Perfluoroundecanoic Acid (trial)	0.0066	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519-Z	06/05/2019	320-51232-3	Hfpo Dimer Acid (trial)	0.15	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Perfluoroundecanoic Acid (trial)	0.0063	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Hfpo Dimer Acid (trial)	0.2	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Perfluoroundecanoic Acid	0.0063	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO5DA	0.80	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO5DA	0.96	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Total Suspended Solids	28	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC30-060519	06/05/2019	320-51215-1	PEPA	0.21	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PEPA	0.23	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	Total Suspended Solids	300	MG/L	MDL	10	10	J	2540 D-1997		
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO5DA	0.18	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFO5DA	0.23	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC31-060519	06/05/2019	320-51215-2	Total Suspended Solids	6.8	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO5DA	0.42	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO5DA	0.37	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Byproduct 4	0.0089	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	Byproduct 4	0.0077	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO5DA	0.17	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFO5DA	0.11	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO5DA	0.025	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO5DA	0.03	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO4DA	0.25	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO4DA	0.31	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO4DA	4.2	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO4DA	4.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO5DA	2.8	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO5DA	3.4	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFESA-BP2	0.91	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFESA-BP2	0.74	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO5DA	3.3	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO5DA	2.8	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO5DA	5.1	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO5DA	3.6	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** 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 Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Total Suspended Solids	10	MG/L	MDL	5.0	5.0	J	2540 D-1997		

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Total Suspended Solids	16	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	NVHOS	4.3	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	NVHOS	4.6	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PMPA	0.37	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PMPA	0.39	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO2HxA	0.056	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO2HxA	0.057	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO3OA	0.011	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO3OA	0.012	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO4DA	0.0071	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PFO4DA	0.0078	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PEPA	0.11	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519-Z	06/05/2019	320-51276-3	PEPA	0.11	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO2HxA	0.081	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PFO2HxA	0.1	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	Total Suspended Solids	6.8	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC41-060519	06/05/2019	320-51134-3	PEPA	0.14	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PEPA	0.14	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PMPA	0.90	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC41-060519	06/05/2019	320-51134-3	PMPA	0.93	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PMPA	0.35	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PMPA	0.35	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO2HxA	0.051	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO2HxA	0.048	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO3OA	0.0090	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PFO3OA	0.0086	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PEPA	0.11	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519-Z	06/05/2019	320-51276-2	PEPA	0.11	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO2HxA	0.081	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PFO2HxA	0.087	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PEPA	0.13	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PEPA	0.12	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PMPA	0.73	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC40-060519	06/05/2019	320-51134-2	PMPA	0.72	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFMOAA	0.066	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFMOAA	0.065	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	EVE Acid	0.0052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	EVE Acid	0.0051	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFESA-BP2	0.044	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFESA-BP2	0.043	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Hydro-EVE Acid	0.012	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	Hydro-EVE Acid	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO2HxA	0.10	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO2HxA	0.098	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO3OA	0.030	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO3OA	0.029	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO4DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO4DA	0.015	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO5DA	0.019	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFO5DA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PEPA	0.59	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PEPA	0.58	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFESA-BP1	0.048	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PFESA-BP1	0.046	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PMPA	1.4	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	PMPA	1.3	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	Total Suspended Solids	20	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	NVHOS	0.017	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519-Z	06/05/2019	320-51241-3	NVHOS	0.016	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFESA-BP2	0.049	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFESA-BP2	0.047	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO5DA	0.042	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO5DA	0.045	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO2HxA	0.13	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFO2HxA	0.12	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PEPA	0.72	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PEPA	0.74	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFESA-BP1	0.045	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PFESA-BP1	0.042	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PMPA	1.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-2-060519	06/05/2019	320-51136-3	PMPA	1.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO2HxA	0.074	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO2HxA	0.074	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO3OA	0.020	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO3OA	0.019	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO4DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PFO4DA	0.015	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PEPA	0.43	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PEPA	0.44	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PMPA	1.0	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519-Z	06/05/2019	320-51276-1	PMPA	1.0	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	Total Suspended Solids	160	MG/L	MDL	25	25	J	2540 D-1997		
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFESA-BP2	0.044	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFESA-BP2	0.041	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO2HxA	0.10	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFO2HxA	0.097	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PMPA	1.00	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PMPA	1.0	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PEPA	0.50	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PEPA	0.53	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFESA-BP1	0.041	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PFESA-BP1	0.046	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PMPA	1.5	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC39-1-060519	06/05/2019	320-51134-1	PMPA	1.6	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	R-EVE	0.026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	R-EVE	0.028	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Byproduct 4	0.069	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Byproduct 4	0.07	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFMOAA	0.084	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFMOAA	0.084	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	EVE Acid	0.0098	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	EVE Acid	0.01	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFESA-BP2	0.032	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFESA-BP2	0.032	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Hydro-EVE Acid	0.0065	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	Hydro-EVE Acid	0.0067	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO2HxA	0.100	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO2HxA	0.1	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO3OA	0.019	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO3OA	0.02	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO4DA	0.012	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO4DA	0.013	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO5DA	0.020	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFO5DA	0.021	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PEPA	0.37	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PEPA	0.38	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFESA-BP1	0.096	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	PFESA-BP1	0.099	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	NVHOS	0.0093	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519-Z	06/05/2019	320-51241-2	NVHOS	0.0094	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	Total Suspended Solids	20	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO5DA	0.053	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO5DA	0.051	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFESA-BP2	0.049	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFESA-BP2	0.044	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO2HxA	0.16	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFO2HxA	0.14	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PMPA	2.0	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PMPA	2.0	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFECA B	0.011	UG/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFECA B	0.011	UG/L	PQL		0.0030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PEPA	0.52	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PEPA	0.49	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFESA-BP1	0.075	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PFESA-BP1	0.062	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PMPA	1.5	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-2-060519	06/05/2019	320-51136-2	PMPA	1.4	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO2HxA	0.14	ug/L	PQL		0.0041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO2HxA	0.14	ug/L	PQL		0.0041	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO3OA	0.034	ug/L	PQL		0.0029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PFO3OA	0.034	ug/L	PQL		0.0029	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PEPA	0.53	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519-Z	06/05/2019	320-51251-3	PEPA	0.52	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFESA-BP2	0.066	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFESA-BP2	0.061	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	R-EVE	0.14	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	R-EVE	0.14	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Byproduct 4	0.25	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Byproduct 4	0.27	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Byproduct 5	0.058	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	Byproduct 5	0.064	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFMOAA	0.28	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFMOAA	0.33	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO5DA	0.047	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO5DA	0.047	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO2HxA	0.17	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFO2HxA	0.18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PEPA	0.73	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PEPA	0.78	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFESA-BP1	0.26	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PFESA-BP1	0.28	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PMPA	2.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC38-1-060519	06/05/2019	320-51139-3	PMPA	2.3	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PMPA	1.0	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PMPA	1.0	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO3OA	0.031	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO3OA	0.034	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO4DA	0.031	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO4DA	0.031	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PEPA	0.34	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PEPA	0.34	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFESA-BP2	0.031	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFESA-BP2	0.03	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFMOAA	0.24	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFMOAA	0.25	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO5DA	0.10	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO5DA	0.11	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO2HxA	0.24	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PFO2HxA	0.24	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PMPA	1.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PMPA	1.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PEPA	0.34	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519	06/05/2019	320-51139-2	PEPA	0.34	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PEPA	0.15	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PEPA	0.15	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PMPA	0.38	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z-D	06/05/2019	320-51251-4	PMPA	0.38	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PEPA	0.13	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PEPA	0.13	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PMPA	0.29	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-Z	06/05/2019	320-51251-1	PMPA	0.3	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Byproduct 5	0.13	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFESA-BP2	0.048	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFESA-BP2	0.046	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO5DA	0.088	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO5DA	0.091	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO2HxA	0.18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PFO2HxA	0.17	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO5DA	0.079	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO5DA	0.074	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PEPA	0.13	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519-D	06/05/2019	320-51139-5	PEPA	0.12	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFESA-BP2	0.049	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFESA-BP2	0.047	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO2HxA	0.17	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PFO2HxA	0.18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PEPA	0.14	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PEPA	0.13	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.074	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PMPA	0.66	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC36-060519	06/05/2019	320-51139-1	PMPA	0.61	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Byproduct 4	0.16	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Byproduct 4	0.16	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Byproduct 5	0.52	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Byproduct 5	0.49	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Byproduct 6	0.026	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Byproduct 6	0.025	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFESA-BP2	1.4	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFESA-BP2	1.3	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Hydro-EVE Acid	0.044	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	Hydro-EVE Acid	0.043	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFMOAA	8.9	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFMOAA	8.7	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO2HxA	2.1	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO2HxA	2.1	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO3OA	0.91	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO3OA	0.91	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO4DA	0.68	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO4DA	0.68	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO5DA	0.42	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PFO5DA	0.38	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PEPA	0.100	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	PEPA	0.082	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Byproduct 5	0.73	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Byproduct 5	0.77	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Byproduct 6	0.029	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Byproduct 6	0.03	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	NVHOS	0.35	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519-Z	06/05/2019	320-51241-1	NVHOS	0.33	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFESA-BP2	1.6	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFESA-BP2	1.6	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Hydro-EVE Acid	0.056	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	Hydro-EVE Acid	0.062	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFMOAA	10	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFMOAA	10.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO2HxA	2.3	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO2HxA	2.3	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO3OA	1.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO3OA	1.1	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO4DA	0.78	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO4DA	0.74	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO5DA	0.58	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFO5DA	0.58	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PEPA	0.097	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PEPA	0.093	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFESA-BP1	0.099	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	PFESA-BP1	0.089	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Byproduct 6	0.028	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Byproduct 6	0.028	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	NVHOS	0.38	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-2-060519	06/05/2019	320-51136-1	NVHOS	0.39	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Hydro-EVE Acid	0.048	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-Z-D	06/05/2019	320-51232-4	Hydro-EVE Acid	0.05	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Total Suspended Solids	22	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC33-060519	06/05/2019	320-51089-1	Total Suspended Solids	210	MG/L	MDL	10	10	J	2540 D-1997		

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Byproduct 6	0.029	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Byproduct 6	0.03	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Hydro-EVE Acid	0.053	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	Hydro-EVE Acid	0.055	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PMPA	0.57	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519-D	06/05/2019	320-51089-5	PMPA	0.58	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC35-1-060519	06/05/2019	320-51089-3	Total Suspended Solids	23	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Byproduct 5	0.078	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	Byproduct 5	0.083	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFESA-BP2	0.10	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFESA-BP2	0.1	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFMOAA	0.35	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFMOAA	0.32	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO5DA	0.46	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO5DA	0.45	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO2HxA	0.16	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO2HxA	0.16	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO3OA	0.058	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFO3OA	0.06	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PEPA	0.19	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PEPA	0.2	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFESA-BP1	0.044	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PFESA-BP1	0.037	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PMPA	0.64	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519-Z	06/05/2019	320-51232-2	PMPA	0.63	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	Total Suspended Solids	810	MG/L	MDL	50	50	J	2540 D-1997		
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFESA-BP2	0.13	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFESA-BP2	0.12	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFMOAA	0.21	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFMOAA	0.24	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO2HxA	0.18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFO2HxA	0.18	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PMPA	1.5	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PMPA	1.6	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFESA-BP1	0.059	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PFESA-BP1	0.053	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PMPA	0.91	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC34-060519	06/05/2019	320-51089-2	PMPA	0.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	R-EVE	0.11	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	R-EVE	0.12	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Byproduct 4	0.19	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Byproduct 4	0.22	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Byproduct 5	0.18	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Byproduct 5	0.19	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFESA-BP2	0.29	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFESA-BP2	0.29	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Hydro-EVE Acid	0.039	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	Hydro-EVE Acid	0.038	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO2HxA	0.24	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO2HxA	0.25	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO3OA	0.081	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO3OA	0.076	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO4DA	0.097	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO4DA	0.096	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO5DA	0.40	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFO5DA	0.43	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PEPA	0.54	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PEPA	0.55	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFESA-BP1	0.13	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	PFESA-BP1	0.13	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	NVHOS	0.086	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519-Z	06/05/2019	320-51232-1	NVHOS	0.093	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Byproduct 4	0.16	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Byproduct 4	0.17	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Byproduct 5	0.15	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Byproduct 5	0.16	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFESA-BP2	0.32	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFESA-BP2	0.33	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO4DA	0.13	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO4DA	0.14	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO5DA	0.48	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO5DA	0.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO2HxA	0.22	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFO2HxA	0.22	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PEPA	0.59	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PEPA	0.65	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFESA-BP1	0.14	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PFESA-BP1	0.14	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PMPA	1.8	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	PMPA	2.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	NVHOS	0.100	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC33-060519	06/05/2019	320-51089-1	NVHOS	0.11	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Byproduct 5	0.066	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	Byproduct 5	0.071	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFESA-BP2	0.17	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFESA-BP2	0.18	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO5DA	0.081	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFO5DA	0.087	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Byproduct 4	0.16	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Byproduct 4	0.18	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Byproduct 5	0.13	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	Byproduct 5	0.14	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFESA-BP2	0.073	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFESA-BP2	0.073	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO2HxA	0.20	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO2HxA	0.19	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO3OA	0.11	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO3OA	0.12	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO4DA	0.084	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO4DA	0.079	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO5DA	0.10	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PFO5DA	0.11	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PEPA	0.21	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PEPA	0.22	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	NVHOS	0.059	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	NVHOS	0.063	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Byproduct 5	0.10	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	Byproduct 5	0.12	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFESA-BP2	0.090	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFESA-BP2	0.09	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO2HxA	0.19	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO2HxA	0.19	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO3OA	0.10	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO3OA	0.11	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO4DA	0.079	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO4DA	0.082	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO5DA	0.10	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PFO5DA	0.11	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PMPA	0.65	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519	06/05/2019	320-51215-1	PMPA	0.65	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PEPA	0.13	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PEPA	0.13	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFESA-BP1	0.027	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519-Z	06/05/2019	320-51220-4	PFESA-BP1	0.033	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PMPA	0.65	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC30-060519-Z	06/05/2019	320-51220-1	PMPA	0.65	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFESA-BP2	0.19	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFESA-BP2	0.18	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFESA-BP1	0.027	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PFESA-BP1	0.03	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PMPA	0.69	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC32-060519	06/05/2019	320-51215-5	PMPA	0.78	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO2HxA	1.5	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO2HxA	1.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO3OA	0.50	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO3OA	0.49	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO4DA	0.42	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PFO4DA	0.39	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PEPA	1.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PEPA	1.3	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PMPA	2.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519-Z	06/05/2019	320-51271-3	PMPA	2.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFESA-BP2	0.63	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFESA-BP2	0.65	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Hydro-EVE Acid	0.075	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Hydro-EVE Acid	0.079	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Total Suspended Solids	24	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC10-060519	06/05/2019	320-51128-3	R-EVE	0.34	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	R-EVE	0.36	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Byproduct 4	0.94	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Byproduct 4	1.0	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Byproduct 5	0.62	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Byproduct 5	0.67	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Byproduct 6	0.026	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	Byproduct 6	0.027	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFMOAA	2.2	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFMOAA	2.2	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PMPA	3.7	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PMPA	3.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO2HxA	1.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO2HxA	1.5	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO3OA	0.66	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO3OA	0.72	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO4DA	0.38	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFO4DA	0.36	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PEPA	1.5	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PEPA	1.5	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFESA-BP1	0.82	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	PFESA-BP1	0.85	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	NVHOS	0.32	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC10-060519	06/05/2019	320-51128-3	NVHOS	0.33	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO2HxA	0.087	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO2HxA	0.085	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO3OA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO3OA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO4DA	0.013	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PFO4DA	0.013	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PEPA	0.15	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PEPA	0.15	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO2HxA	0.11	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PFO2HxA	0.1	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PMPA	0.65	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PMPA	0.63	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	Total Suspended Solids	18	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC2-060519	06/05/2019	320-51140-3	PEPA	0.16	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC2-060519	06/05/2019	320-51140-3	PEPA	0.15	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PMPA	0.030	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PMPA	0.029	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PMPA	0.43	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC2-060519-Z	06/05/2019	320-51243-3	PMPA	0.44	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519	06/05/2019	320-51135-1	Total Suspended Solids	5.6	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PMPA	0.079	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PMPA	0.077	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO2HxA	0.024	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO2HxA	0.023	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO3OA	0.0070	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO3OA	0.0075	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO4DA	0.0055	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PFO4DA	0.0051	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PEPA	0.023	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519-Z	06/05/2019	320-51271-1	PEPA	0.023	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFESA-BP2	0.0048	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFESA-BP2	0.0048	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFMOAA	0.011	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFMOAA	0.011	ug/L	PQL		0.0050	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO2HxA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO2HxA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO3OA	0.0023	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO3OA	0.0023	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO5DA	0.0045	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFO5DA	0.0051	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC3-060519	06/05/2019	320-51128-1	Total Suspended Solids	9.2	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PEPA	0.032	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PEPA	0.031	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFESA-BP1	0.0035	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PFESA-BP1	0.0035	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PMPA	0.11	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	PMPA	0.11	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	NVHOS	0.0030	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC28-060519-Z	06/05/2019	320-51274-3	NVHOS	0.003	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PEPA	0.047	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	PEPA	0.069	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519	06/05/2019	320-51135-2	Total Suspended Solids	50	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO2HxA	0.0038	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC26-060519-Z	06/05/2019	320-51274-1	PFO2HxA	0.0038	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO2HxA	0.034	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO2HxA	0.032	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO3OA	0.0079	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO3OA	0.0077	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO4DA	0.0047	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PFO4DA	0.0046	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PEPA	0.030	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PEPA	0.03	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PMPA	0.12	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC27-060519-Z	06/05/2019	320-51274-2	PMPA	0.12	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC28-060519	06/05/2019	320-51135-3	Total Suspended Solids	36	MG/L	MDL	5.0	5.0	J	2540 D-1997		

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PMPA	4.4	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PMPA	4.6	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PMPA	0.59	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
TB-4-060519	06/05/2019	320-51135-4	PMPA	0.57	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO2HxA	0.032	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO2HxA	0.032	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO3OA	0.0058	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO3OA	0.0058	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO4DA	0.016	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PFO4DA	0.017	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PEPA	0.085	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PEPA	0.084	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PMPA	0.26	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519-Z	06/05/2019	320-51278-3	PMPA	0.26	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	Total Suspended Solids	290	MG/L	MDL	50	50	J	2540 D-1997		
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFESA-BP2	0.087	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PFESA-BP2	0.085	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PEPA	0.11	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PEPA	0.1	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PMPA	0.73	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC55-060519	06/05/2019	320-51133-3	PMPA	0.69	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PMPA	0.39	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PMPA	0.38	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO2HxA	0.27	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO2HxA	0.27	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO3OA	0.11	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO3OA	0.11	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO4DA	0.055	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PFO4DA	0.058	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PEPA	0.12	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519-Z	06/05/2019	320-51278-2	PEPA	0.12	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	Total Suspended Solids	17	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFESA-BP2	0.074	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFESA-BP2	0.071	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFMOAA	0.52	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFMOAA	0.6	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PMPA	1.1	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PMPA	1.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO2HxA	0.36	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO2HxA	0.36	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO4DA	0.091	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFO4DA	0.094	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PEPA	0.18	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PEPA	0.19	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFESA-BP1	0.027	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC53-060519	06/05/2019	320-51133-2	PFESA-BP1	0.029	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO2HxA	2.1	ug/L	PQL		0.0081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO2HxA	2.1	ug/L	PQL		0.0081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO3OA	0.44	ug/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO3OA	0.39	ug/L	PQL		0.0058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO4DA	0.37	ug/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PFO4DA	0.35	ug/L	PQL		0.0079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PEPA	4.7	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PEPA	4.7	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PMPA	11	UG/L	PQL		0.057	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519-Z	06/05/2019	320-51278-1	PMPA	11.0	UG/L	PQL		0.057	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Total Suspended Solids	78	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC52-060519	06/05/2019	320-51133-1	R-EVE	0.31	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	R-EVE	0.31	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Byproduct 4	1.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Byproduct 4	1.4	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Byproduct 5	0.65	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Byproduct 5	0.66	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFESA-BP2	0.65	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFESA-BP2	0.68	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Hydro-EVE Acid	0.055	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	Hydro-EVE Acid	0.05	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFMOAA	0.49	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFMOAA	0.51	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO2HxA	1.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO2HxA	1.5	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO3OA	0.36	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO3OA	0.35	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO5DA	0.19	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFO5DA	0.17	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PEPA	4.1	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PEPA	4.1	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFESA-BP1	0.54	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PFESA-BP1	0.58	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PMPA	9.4	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	PMPA	9.7	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	NVHOS	0.22	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC52-060519	06/05/2019	320-51133-1	NVHOS	0.22	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO2HxA	0.022	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO2HxA	0.021	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO3OA	0.0027	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO3OA	0.0026	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO4DA	0.0027	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PFO4DA	0.003	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PEPA	0.058	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PEPA	0.059	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PMPA	0.19	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519-Z	06/05/2019	320-51271-2	PMPA	0.18	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PMPA	1.4	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PMPA	1.4	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC5-060519	06/05/2019	320-51128-2	Total Suspended Solids	26	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO2HxA	8.7	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO2HxA	8.7	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO3OA	4.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PFO3OA	4.5	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PEPA	0.64	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519-Z	06/05/2019	320-51243-2	PEPA	0.64	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Total Suspended Solids	14	MG/L	MDL	5.0	5.0	J	2540 D-1997		
ASTW-LOC43-060519	06/05/2019	320-51140-2	R-EVE	0.27	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	R-EVE	0.24	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Byproduct 4	0.89	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Byproduct 4	0.81	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Byproduct 5	1.6	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Byproduct 5	1.6	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Byproduct 6	0.028	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Byproduct 6	0.029	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFMOAA	26	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFMOAA	26.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	EVE Acid	0.031	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	EVE Acid	0.03	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFESA-BP2	0.77	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFESA-BP2	0.77	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Hydro-EVE Acid	0.17	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	Hydro-EVE Acid	0.18	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO2HxA	7.3	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO2HxA	7.4	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO3OA	3.8	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO3OA	3.9	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO4DA	3.3	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO4DA	3.4	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO5DA	2.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFO5DA	2.5	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PEPA	0.58	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PEPA	0.58	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFESA-BP1	1.1	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PFESA-BP1	1.1	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PMPA	1.7	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	PMPA	1.7	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PMPA	1.7	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PMPA	1.6	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	R-EVE	0.43	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	R-EVE	0.4	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Byproduct 4	0.63	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Byproduct 4	0.59	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Byproduct 5	0.89	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Byproduct 5	0.85	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Byproduct 6	0.043	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Byproduct 6	0.038	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	NVHOS	0.42	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC43-060519	06/05/2019	320-51140-2	NVHOS	0.43	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFMOAA	46	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFMOAA	44.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	EVE Acid	0.028	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	EVE Acid	0.028	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Hydro-EVE Acid	0.15	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	Hydro-EVE Acid	0.15	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO2HxA	12	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO2HxA	11.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO3OA	7.8	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO3OA	7.6	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO4DA	5.8	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFO4DA	5.7	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PEPA	0.68	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PEPA	0.66	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFESA-BP1	1.5	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	PFESA-BP1	1.3	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	R-EVE	0.43	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	R-EVE	0.42	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Byproduct 4	0.71	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Byproduct 4	0.75	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Byproduct 5	0.97	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Byproduct 5	1.0	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Byproduct 6	0.040	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Byproduct 6	0.041	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	NVHOS	0.47	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-2-060519-Z	06/05/2019	320-51275-1	NVHOS	0.45	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFMOAA	42	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFMOAA	44.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	EVE Acid	0.033	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	EVE Acid	0.034	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFESA-BP2	0.94	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFESA-BP2	0.94	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Hydro-EVE Acid	0.16	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	Hydro-EVE Acid	0.15	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO2HxA	13	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO2HxA	13.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO3OA	8.4	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO3OA	8.8	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO4DA	7.9	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO4DA	8.1	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO5DA	4.2	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFO5DA	4.2	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PEPA	0.75	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PEPA	0.79	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFESA-BP1	1.5	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PFESA-BP1	1.5	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PMPA	1.9	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	PMPA	2.0	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PMPA	4.3	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PMPA	4.2	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	NVHOS	0.40	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-2-060519	06/05/2019	320-51141-1	NVHOS	0.41	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO2HxA	31	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO2HxA	31.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO3OA	13	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO3OA	13.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO4DA	9.9	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PFO4DA	11.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PEPA	1.5	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-1-060519-Z	06/05/2019	320-51243-1	PEPA	1.5	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Total Suspended Solids	21	MG/L	MDL	10	10	J	2540 D-1997		
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	R-EVE	1.7	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	R-EVE	1.9	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Byproduct 4	3.3	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Byproduct 4	3.6	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Byproduct 5	1.4	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Byproduct 5	1.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Byproduct 6	0.39	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Byproduct 6	0.42	UG/L	PQL		0.015	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFMOAA	105	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFMOAA	110.0	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	EVE Acid	0.086	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	EVE Acid	0.091	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFESA-BP2	7.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFESA-BP2	7.8	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Hydro-EVE Acid	1.5	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	Hydro-EVE Acid	1.6	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO2HxA	30	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO2HxA	32.0	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO3OA	12	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO3OA	13.0	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO4DA	8.0	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO4DA	8.5	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO5DA	4.9	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFO5DA	5.0	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PEPA	1.6	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PEPA	1.7	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFESA-BP1	1.9	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC42-1-060519	06/05/2019	320-51140-1	PFESA-BP1	2.0	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Additional Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO2HxA	0.21	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
ASTW-LOC37-060519-Z	06/05/2019	320-51251-2	PFO2HxA	0.21	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

ADQM DATA REVIEW
NARRATIVE

Site **Chemours FAY – Fayetteville**

Project **2019 Dry Stormwater Sampling**

Project Reviewer **Michael Aucoin, AECOM as a Chemours contractor**

Sampling Dates **April 24 - 25, 2019**

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
TestAmerica - Sacramento	537 Modified	PFAS[1]
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds

[1] Perfluoroalkylsubstances, a list of 33 compounds including HFPO-DA.

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on April 26, 2019, except for a waste acid sample (LOC17A) received on May 17, 2019.

Data Review

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process.

Overall the data is acceptable for use without qualification, except as noted below:

- Non-detect results for PPF Acid in one sample were qualified R and are considered to be unusable due to very poor matrix spike (MS) relative percent recoveries (RPR). The lab revised reports to apply a Z qualifier for four Table 3+ compounds (DFSA, MMF, MTP, PPF Acid), indicating poor performance in the presence of matrix effects, including inconsistent sample results. The data reviewer qualified these analytical results J as estimated, and non-detect results were qualified UJ indicating an estimated reporting limit, unless the DVM had already applied a B or R qualifier. Subsequently DFSA, MMF, MTP, and PPF Acid were dropped from the method. These compounds were not reported for the waste acid sample.
- Professional judgement was used to overwrite R qualifiers, indicating an unusable result, that were assigned by the DVM due to very poor matrix recoveries for PFMOAA and MTP in one sample. The qualifiers were updated to UJ, indicating an estimated reporting limit, because the surrogate compound was a measurable labeled isotope compound, which is used for quantitation and provides a sample specific recovery correction of the sample results.

- Some of the analytical results have been qualified B, and may be biased high, or may be a false positive, because an associated field or equipment blank contained a comparable concentration.
- Several analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to poor recovery of surrogate, laboratory blank spike, or matrix spike compounds; sample preparation and/or analysis which exceeded the laboratory hold times; and poor laboratory blank spike, matrix spike, field duplicate or lab replicate precision. See the Data Verification Module (DVM) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DVM Narrative report is attached. The lab reports due to a large page count are stored on an AECOM network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- 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.**

DVM Narrative Report

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the data rejection level. The reported non-detect result is unusable.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	PPF Acid	0.38	UG/L	PQL		0.38	R	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	PPF Acid	0.38	UG/L	PQL		0.38	R	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC7B-042419	04/24/2019	320-49623-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.90	ug/L	PQL		0.060	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7B-042419	04/24/2019	320-49623-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.79	ug/L	PQL		0.060	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Contamination detected in Field Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated field blank(s).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	PPF Acid	1.1	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	PPF Acid	0.93	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC1-042419	04/24/2019	320-49620-3	PPF Acid	0.82	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC1-042419	04/24/2019	320-49620-3	PPF Acid	0.72	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC15-042419	04/24/2019	320-49620-9	PPF Acid	1.1	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC15-042419	04/24/2019	320-49620-9	PPF Acid	1.1	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419	04/24/2019	320-49620-11	PPF Acid	0.85	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419	04/24/2019	320-49620-11	PPF Acid	0.88	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419-D	04/24/2019	320-49620-12	PPF Acid	0.89	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419-D	04/24/2019	320-49620-12	PPF Acid	0.96	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24B-042419	04/24/2019	320-49620-1	PPF Acid	0.79	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24B-042419	04/24/2019	320-49620-1	PPF Acid	0.56	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24C-042419	04/24/2019	320-49620-2	PPF Acid	0.53	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24C-042419	04/24/2019	320-49620-2	PPF Acid	0.59	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7A-042419	04/24/2019	320-49620-4	PPF Acid	0.96	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7A-042419	04/24/2019	320-49620-4	PPF Acid	0.82	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Contamination detected in Field Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated field blank(s).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC9-042419	04/24/2019	320-49620-6	PPF Acid	0.82	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC9-042419	04/24/2019	320-49620-6	PPF Acid	0.79	UG/L	PQL		0.38	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Nondetects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	Perfluorobutanoic Acid	0.0035	UG/L	PQL		0.0035	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	ADONA	0.0021	UG/L	PQL		0.0021	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	NaDONA	0.0021	ug/L	PQL		0.0021	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluoropentane sulfonic acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	6:2 Fluorotelomer sulfonate	0.020	ug/L	PQL		0.020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluoroheptanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluoroheptane sulfonic acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorononanesulfonic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	F-53B Major	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Nondetects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorododecane sulfonic acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	F-53B Minor	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	NVHOS	54	UG/L	PQL		54	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	NVHOS	54	UG/L	PQL		54	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PES	46	UG/L	PQL		46	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PES	46	UG/L	PQL		46	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PMPA	570	UG/L	PQL		570	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PMPA	570	UG/L	PQL		570	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFECA B	60	UG/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFECA B	60	UG/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	60	ug/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	60	ug/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	110	ug/L	PQL		110	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	110	ug/L	PQL		110	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	N-methyl perfluoro-1-octanesulfonamide	26	ug/L	PQL		26	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	N-methyl perfluoro-1-octanesulfonamide	26	ug/L	PQL		26	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	DFSA	3100	UG/L	PQL		3100	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	DFSA	3100	UG/L	PQL		3100	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	EVE Acid	24	UG/L	PQL		24	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	EVE Acid	24	UG/L	PQL		24	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFESA-BP2	30	ug/L	PQL		30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFESA-BP2	30	ug/L	PQL		30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Hydro-EVE Acid	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Hydro-EVE Acid	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFECA-G	41	UG/L	PQL		41	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFECA-G	41	UG/L	PQL		41	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	R-EVE	70	UG/L	PQL		70	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	R-EVE	70	UG/L	PQL		70	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Byproduct 4	160	UG/L	PQL		160	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Byproduct 4	160	UG/L	PQL		160	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Byproduct 5	58	UG/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Byproduct 5	58	UG/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Byproduct 6	15	UG/L	PQL		15	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	Byproduct 6	15	UG/L	PQL		15	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PES	34	UG/L	PQL		34	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PES	34	UG/L	PQL		34	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO4DA	59	ug/L	PQL		59	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO4DA	59	ug/L	PQL		59	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO5DA	25	ug/L	PQL		25	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO5DA	25	ug/L	PQL		25	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	N-ethylperfluoro-1-octanesulfonamide	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	N-ethylperfluoro-1-octanesulfonamide	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFESA-BP1	27	UG/L	PQL		27	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFESA-BP1	27	UG/L	PQL		27	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	N-methyl perfluoro-1-octanesulfonamide	35	ug/L	PQL		35	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	N-methyl perfluoro-1-octanesulfonamide	35	ug/L	PQL		35	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO2HxA	81	ug/L	PQL		81	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO2HxA	81	ug/L	PQL		81	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO3OA	58	ug/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO3OA	58	ug/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO4DA	79	ug/L	PQL		79	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO4DA	79	ug/L	PQL		79	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO5DA	34	ug/L	PQL		34	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFO5DA	34	ug/L	PQL		34	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	N-ethylperfluoro-1-octanesulfonamide	37	UG/L	PQL		37	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	N-ethylperfluoro-1-octanesulfonamide	37	UG/L	PQL		37	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFMOAA	210	ug/L	PQL		210	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFMOAA	210	ug/L	PQL		210	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	EVE Acid	24	UG/L	PQL		24	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	EVE Acid	24	UG/L	PQL		24	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFESA-BP2	30	ug/L	PQL		30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFESA-BP2	30	ug/L	PQL		30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Hydro-EVE Acid	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Hydro-EVE Acid	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFECA-G	41	UG/L	PQL		41	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PFECA-G	41	UG/L	PQL		41	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	R-EVE	70	UG/L	PQL		70	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	R-EVE	70	UG/L	PQL		70	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Byproduct 4	160	UG/L	PQL		160	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Byproduct 4	160	UG/L	PQL		160	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Byproduct 5	58	UG/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Byproduct 5	58	UG/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Byproduct 6	15	UG/L	PQL		15	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	Byproduct 6	15	UG/L	PQL		15	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	NVHOS	54	UG/L	PQL		54	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	NVHOS	54	UG/L	PQL		54	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PES	46	UG/L	PQL		46	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PES	46	UG/L	PQL		46	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PMPA	570	UG/L	PQL		570	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PMPA	570	UG/L	PQL		570	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	MMF	3600	UG/L	PQL		3600	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	MMF	3600	UG/L	PQL		3600	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFECA B	60	UG/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFECA B	60	UG/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	60	ug/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	60	ug/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	110	ug/L	PQL		110	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	110	ug/L	PQL		110	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	MMF	2700	UG/L	PQL		2700	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	MMF	2700	UG/L	PQL		2700	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFECA B	45	UG/L	PQL		45	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFECA B	45	UG/L	PQL		45	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	45	ug/L	PQL		45	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	45	ug/L	PQL		45	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	82	ug/L	PQL		82	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	82	ug/L	PQL		82	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PEPA	35	UG/L	PQL		35	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PEPA	35	UG/L	PQL		35	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFECA-G	31	UG/L	PQL		31	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFECA-G	31	UG/L	PQL		31	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFESA-BP1	27	UG/L	PQL		27	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFESA-BP1	27	UG/L	PQL		27	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	N-methyl perfluoro-1-octanesulfonamide	35	ug/L	PQL		35	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	N-methyl perfluoro-1-octanesulfonamide	35	ug/L	PQL		35	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO2HxA	81	ug/L	PQL		81	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO2HxA	81	ug/L	PQL		81	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO3OA	58	ug/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO3OA	58	ug/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO4DA	79	ug/L	PQL		79	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO4DA	79	ug/L	PQL		79	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO5DA	34	ug/L	PQL		34	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFO5DA	34	ug/L	PQL		34	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	N-ethylperfluoro-1-octanesulfonamide	37	UG/L	PQL		37	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	N-ethylperfluoro-1-octanesulfonamide	37	UG/L	PQL		37	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC9-042419	04/24/2019	320-49620-6	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC9-042419	04/24/2019	320-49620-6	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC9-042419	04/24/2019	320-49620-6	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC9-042419	04/24/2019	320-49620-6	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC8-042419	04/24/2019	320-49620-5	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC8-042419	04/24/2019	320-49620-5	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC8-042419	04/24/2019	320-49620-5	PPF Acid	0.38	UG/L	PQL		0.38	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC8-042419	04/24/2019	320-49620-5	PPF Acid	0.38	UG/L	PQL		0.38	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7A-042419	04/24/2019	320-49620-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7A-042419	04/24/2019	320-49620-4	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7A-042419	04/24/2019	320-49620-4	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7A-042419	04/24/2019	320-49620-4	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24C-042419	04/24/2019	320-49620-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24C-042419	04/24/2019	320-49620-2	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC24C-042419	04/24/2019	320-49620-2	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24C-042419	04/24/2019	320-49620-2	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24B-042419	04/24/2019	320-49620-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24B-042419	04/24/2019	320-49620-1	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24B-042419	04/24/2019	320-49620-1	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24B-042419	04/24/2019	320-49620-1	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419-D	04/24/2019	320-49620-12	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419-D	04/24/2019	320-49620-12	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419-D	04/24/2019	320-49620-12	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419-D	04/24/2019	320-49620-12	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419	04/24/2019	320-49620-11	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419	04/24/2019	320-49620-11	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC20-042419	04/24/2019	320-49620-11	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
DSTW-LOC20-042419	04/24/2019	320-49620-11	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	MTP	120	UG/L	PQL		120	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	MTP	120	UG/L	PQL		120	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC15-042419	04/24/2019	320-49620-9	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC15-042419	04/24/2019	320-49620-9	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC15-042419	04/24/2019	320-49620-9	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC15-042419	04/24/2019	320-49620-9	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-FB-042419	04/24/2019	320-49620-10	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-FB-042419	04/24/2019	320-49620-10	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-FB-042419	04/24/2019	320-49620-10	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-FB-042419	04/24/2019	320-49620-10	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC1-042419	04/24/2019	320-49620-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC1-042419	04/24/2019	320-49620-3	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC1-042419	04/24/2019	320-49620-3	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC1-042419	04/24/2019	320-49620-3	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	MTP	91	UG/L	PQL		91	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	MTP	91	UG/L	PQL		91	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC20-042419	04/24/2019	320-49620-11	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
DSTW-LOC7B-042419	04/24/2019	320-49623-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC7B-042419	04/24/2019	320-49623-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6A-042419	04/24/2019	320-49624-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6A-042419	04/24/2019	320-49624-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6A-042419	04/24/2019	320-49624-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6A-042419	04/24/2019	320-49624-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PPF Acid	0.38	UG/L	PQL		0.38	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PPF Acid	0.38	UG/L	PQL		0.38	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	DFSA	3.1	UG/L	PQL		3.1	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	DFSA	3.1	UG/L	PQL		3.1	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-01-042419	04/24/2019	320-49623-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-01-042419	04/24/2019	320-49623-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-02-042419	04/24/2019	320-49623-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-02-042419	04/24/2019	320-49623-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method SOP	Pre-prep	Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the data rejection level. The reported non-detect result is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	MTP	0.12	UG/L	PQL		0.12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	MMF	7.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	MMF	5.7	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	MMF	17	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	MMF	15	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC18-042419	04/24/2019	320-49624-5	MMF	13.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	MMF	12	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	MMF	11.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	MMF	19	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	Hfpo Dimer Acid	0.016	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
DSTW-LOC8-042419	04/24/2019	320-49620-5	DFSA	8.8	UG/L	PQL		3.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	MMF	14.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	MMF	9.5	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	MMF	8.8	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	MMF	3.6	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC14-042419	04/24/2019	320-49620-8	MMF	4.9	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Detects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	PFOA	0.0026	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluoropentanoic Acid	0.0026	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Hfpo Dimer Acid	0.03	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
DSTW-LOC19A-042419	04/24/2019	320-49624-6	Perfluorobutanoic Acid	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PEPA	47	UG/L	PQL		47	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PEPA	180.0	UG/L	PQL		47	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	PEPA	0.047	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC10-042419	04/24/2019	320-49620-7	PEPA	0.12	UG/L	PQL		0.047	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	MMF	15.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC21A-042419	04/24/2019	320-49624-8	MMF	15.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	MMF	19.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC8-042419	04/24/2019	320-49620-5	DFSA	4.8	UG/L	PQL		3.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC8-042419	04/24/2019	320-49620-5	PFMOAA	1.5	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PPF Acid	48750	UG/L	PQL		380	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PPF Acid	49000.0	UG/L	PQL		380	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	R-EVE	1590	UG/L	PQL		53	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	R-EVE	1700.0	UG/L	PQL		53	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Byproduct 4	2410	UG/L	PQL		120	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Byproduct 4	2500.0	UG/L	PQL		120	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Byproduct 5	330	UG/L	PQL		44	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Byproduct 5	360.0	UG/L	PQL		44	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Byproduct 6	54	UG/L	PQL		12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Byproduct 6	55.0	UG/L	PQL		12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFESA-BP1	1445	UG/L	PQL		20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFESA-BP1	1500.0	UG/L	PQL		20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PPF Acid	353	UG/L	PQL		280	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PPF Acid	390.0	UG/L	PQL		280	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	DFSA	50100	UG/L	PQL		2300	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	DFSA	56000.0	UG/L	PQL		2300	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFMOAA	160	ug/L	PQL		160	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFMOAA	170.0	ug/L	PQL		160	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	EVE Acid	787	UG/L	PQL		18	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	EVE Acid	820.0	UG/L	PQL		18	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFESA-BP2	248	ug/L	PQL		23	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFESA-BP2	250.0	ug/L	PQL		23	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Hydro-EVE Acid	95	UG/L	PQL		21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	Hydro-EVE Acid	99.0	UG/L	PQL		21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PMPA	539	UG/L	PQL		430	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PMPA	600.0	UG/L	PQL		430	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	NVHOS	259	UG/L	PQL		40	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	NVHOS	270.0	UG/L	PQL		40	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFMOAA	1770	ug/L	PQL		210	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17B-042419	04/24/2019	320-49624-4	PFMOAA	2000.0	ug/L	PQL		210	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO2HxA	133	ug/L	PQL		61	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO2HxA	140.0	ug/L	PQL		61	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO3OA	44	ug/L	PQL		44	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC16-042419	04/24/2019	320-49624-3	PFO3OA	53.0	ug/L	PQL		44	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PEPA	110	UG/L	PQL		47	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC17A-042419	04/24/2019	320-50472-1	PEPA	110.0	UG/L	PQL		47	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFMOAA	1.3	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFMOAA	1.3	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	EVE Acid	0.065	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	EVE Acid	0.063	UG/L	PQL		0.024	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFESA-BP2	0.14	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFESA-BP2	0.13	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Hydro-EVE Acid	0.032	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Hydro-EVE Acid	0.03	UG/L	PQL		0.028	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFESA-BP1	2.7	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFESA-BP1	2.6	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PMPA	0.70	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PMPA	0.59	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Byproduct 4	0.18	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Byproduct 4	0.18	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Byproduct 5	2.2	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	Byproduct 5	2.1	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO2HxA	0.48	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO2HxA	0.5	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO3OA	0.14	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC23A-042419	04/24/2019	320-49624-10	PFO3OA	0.14	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-FB-042419	04/24/2019	320-49620-10	PPF Acid	0.72	UG/L	PQL		0.38	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-FB-042419	04/24/2019	320-49620-10	PPF Acid	0.94	UG/L	PQL		0.38	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	MTP	0.12	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19A-042419	04/24/2019	320-49624-6	MTP	0.13	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	MTP	0.12	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC19B-042419	04/24/2019	320-49624-7	MTP	0.12	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	MTP	0.12	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419-D	04/24/2019	320-49624-12	MTP	0.12	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	MTP	0.14	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	MTP	0.14	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6A-042419	04/24/2019	320-49624-1	MTP	0.20	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6A-042419	04/24/2019	320-49624-1	MTP	0.22	UG/L	PQL		0.12	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC8-042419	04/24/2019	320-49620-5	PFMOAA	1.2	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Dry Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
DSTW-EB-03-042419	04/24/2019	320-49623-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.78	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-03-042419	04/24/2019	320-49623-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.86	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-02-042419	04/24/2019	320-49623-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.85	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-02-042419	04/24/2019	320-49623-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.82	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	MMF	7.0	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC22-042419	04/24/2019	320-49624-9	MMF	6.7	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC24A-042419	04/24/2019	320-49624-11	MMF	15	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-01-042419	04/24/2019	320-49623-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.82	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-EB-01-042419	04/24/2019	320-49623-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.82	ug/L	PQL		0.060	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
DSTW-LOC6B-042419	04/24/2019	320-49624-2	MMF	15	UG/L	PQL		3.6	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

ADQM DATA REVIEW
NARRATIVE

Site **Chemours FAY – Fayetteville**

Project **2019 Stormwater Sampling**

Project Reviewer **Michael Aucoin, AECOM as a Chemours contractor**

Sampling Dates **June 27 - 28, 2019**

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
TestAmerica - Sacramento	537 Modified	PFAS[1]
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds

[1] Perfluoroalkylsubstances, a list of 33 compounds including HFPO-DA.

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on July 2, 11, and 16, 2019.

Data Review

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process.

Overall the data is acceptable for use without qualification, except as noted below:

- Several analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to poor or very poor recovery of a surrogate or laboratory blank spike; sample analysis which exceeded the laboratory hold time; and poor field duplicate or lab replicate precision. See the Data Verification Module (DVM) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DVM Narrative report is attached. The lab reports due to a large page count are stored on an AECOM network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- 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.**

DVM Narrative Report

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Nondetects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-18-062719	06/27/2019	320-51907-4	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-18-062719	06/27/2019	320-51907-4	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	6:2 Fluorotelomer sulfonate	0.020	ug/L	PQL		0.020	UJ	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	ADONA	0.0021	UG/L	PQL		0.0021	UJ	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	NaDONA	0.0021	ug/L	PQL		0.0021	UJ	537 Modified		3535_PFC
STW-LOC-22-062719	06/27/2019	320-51907-8	ADONA	0.0021	UG/L	PQL		0.0021	UJ	537 Modified		3535_PFC
STW-LOC-22-062719	06/27/2019	320-51907-8	NaDONA	0.0021	ug/L	PQL		0.0021	UJ	537 Modified		3535_PFC
STW-LOC-23B-062719	06/27/2019	320-51907-10	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-23B-062719	06/27/2019	320-51907-10	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-23B-062719	06/27/2019	320-51907-10	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	NVHOS	54	UG/L	PQL		54	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PES	46	UG/L	PQL		46	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PMPA	570	UG/L	PQL		570	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFECA B	60	UG/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	60	ug/L	PQL		60	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	110	ug/L	PQL		110	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PEPA	47	UG/L	PQL		47	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFESA-BP1	27	UG/L	PQL		27	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	N-methyl perfluoro-1-octanesulfonamide	35	ug/L	PQL		35	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFO2HxA	81	ug/L	PQL		81	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFO3OA	58	ug/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFO4DA	79	ug/L	PQL		79	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFO5DA	34	ug/L	PQL		34	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFMOAA	210	ug/L	PQL		210	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	EVE Acid	24	UG/L	PQL		24	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFESA-BP2	30	ug/L	PQL		30	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	Hydro-EVE Acid	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	PFECA-G	41	UG/L	PQL		41	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	R-EVE	70	UG/L	PQL		70	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	Byproduct 4	160	UG/L	PQL		160	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	Byproduct 5	58	UG/L	PQL		58	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	Byproduct 6	15	UG/L	PQL		15	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	NVHOS	21	UG/L	PQL		21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PES	18	UG/L	PQL		18	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PMPA	230	UG/L	PQL		230	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFECA B	24	UG/L	PQL		24	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	24	ug/L	PQL		24	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	44	ug/L	PQL		44	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFESA-BP1	11	UG/L	PQL		11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	N-methyl perfluoro-1-octanesulfonamide	14	ug/L	PQL		14	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFO2HxA	32	ug/L	PQL		32	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFO3OA	23	ug/L	PQL		23	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFO4DA	31	ug/L	PQL		31	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFO5DA	13	ug/L	PQL		13	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	N-ethylperfluoro-1-octanesulfonamide	15	UG/L	PQL		15	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFMOAA	85	ug/L	PQL		85	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	EVE Acid	9.7	UG/L	PQL		9.7	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFESA-BP2	12	ug/L	PQL		12	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	Hydro-EVE Acid	11	UG/L	PQL		11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PFECA-G	16	UG/L	PQL		16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	R-EVE	28	UG/L	PQL		28	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	Byproduct 4	63	UG/L	PQL		63	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	Byproduct 5	23	UG/L	PQL		23	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	Byproduct 6	6.2	UG/L	PQL		6.2	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-18-062719	06/27/2019	320-51907-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-18-062719	06/27/2019	320-51907-4	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-19A-062719	06/27/2019	320-51907-5	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-19A-062719	06/27/2019	320-51907-5	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-19B-062719	06/27/2019	320-51907-6	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-19B-062719	06/27/2019	320-51907-6	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-21A-062719	06/27/2019	320-51907-7	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-21A-062719	06/27/2019	320-51907-7	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-22-062719	06/27/2019	320-51907-8	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-22-062719	06/27/2019	320-51907-8	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-23A-062719	06/27/2019	320-51907-9	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-23A-062719	06/27/2019	320-51907-9	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-24A-062719	06/27/2019	320-51907-11	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-24A-062719	06/27/2019	320-51907-11	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-24A-062719-D	06/27/2019	320-51907-12	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-24A-062719-D	06/27/2019	320-51907-12	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-6A-062719	06/27/2019	320-51907-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-6A-062719	06/27/2019	320-51907-1	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-6B-062719	06/27/2019	320-51907-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-6B-062719	06/27/2019	320-51907-2	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason One or more surrogates had relative percent recovery (RPR) values less than the data rejection level. The reporting limit is considered to be an estimated value.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-19A-062719	06/27/2019	320-51907-5	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-19B-062719	06/27/2019	320-51907-6	Perfluorooctadecanoic acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC
STW-LOC-19B-062719	06/27/2019	320-51907-6	Perfluorohexadecanoic acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-24A-062719	06/27/2019	320-51907-11	PFOS	0.017	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-24A-062719	06/27/2019	320-51907-11	PFOA	0.0088	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-24A-062719-D	06/27/2019	320-51907-12	PFOS	0.03	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-24A-062719-D	06/27/2019	320-51907-12	PFOA	0.011	UG/L	PQL		0.0020	J	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Detects).

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-23B-062719	06/27/2019	320-51907-10	6:2 Fluorotelomer sulfonate	0.02	ug/L	PQL		0.020	J	537 Modified		3535_PFC
STW-LOC-22-062719	06/27/2019	320-51907-8	Hfpo Dimer Acid	0.13	UG/L	PQL		0.0040	J	537 Modified		3535_PFC
STW-LOC-22-062719	06/27/2019	320-51907-8	Perfluorohexanoic Acid	0.021	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	Perfluorohexanoic Acid	0.0061	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	PFOA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	Perfluorobutanoic Acid	0.0024	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	Perfluoroheptanoic Acid	0.0033	UG/L	PQL		0.0020	J	537 Modified		3535_PFC
STW-LOC-19A-062719	06/27/2019	320-51907-5	Hfpo Dimer Acid	0.0045	UG/L	PQL		0.0040	J	537 Modified		3535_PFC

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason Quality review criteria exceeded between the REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-16-062819	06/28/2019	320-51907-3	PFO5DA	14.0	ug/L	PQL		0.34	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-22-062719	06/27/2019	320-51907-8	PFESA-BP2	0.13	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-22-062719	06/27/2019	320-51907-8	PFESA-BP2	0.15	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	Hfpo Dimer Acid (trial)	370000.0	UG/L	PQL		34	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17B-062719	06/27/2019	320-52276-1	PEPA	66.0	UG/L	PQL		19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC17A-062719	06/27/2019	320-52169-1	N-ethylperfluoro-1-octanesulfonamide	52.0	UG/L	PQL		37	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-23B-062719	06/27/2019	320-51907-10	PFO5DA	0.098	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-23B-062719	06/27/2019	320-51907-10	PFO5DA	0.082	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
STW-LOC-16-062819	06/28/2019	320-51907-3	PFO5DA	11	ug/L	PQL		0.34	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** 2019 Stormwater Sampling **Validation** LABSTATS

Validation Reason One or more surrogates had relative percent recovery (RPR) values less than the data rejection level. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
STW-LOC-22-062719	06/27/2019	320-51907-8	Perfluorobutanoic Acid	0.037	UG/L	PQL		0.0035	J	537 Modified		3535_PFC

ADQM DATA REVIEW
NARRATIVE

Site **Chemours FAY – Fayetteville**

Project **Additional Outfall Samples**

Project Reviewer **Michael Aucoin, AECOM as a Chemours contractor**

Sampling Dates **May 30, 2019**

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
TestAmerica - Sacramento	Cl. Spec. Table 3 Compound SOP	Table 3+ compounds

Sample Receipt

The following items are noted for this data set:

- All samples were received in satisfactory condition and within EPA temperature guidelines on June 1, 2019.

Data Review

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process.

Overall the data is acceptable for use without qualification, except as noted below:

- All of the Table 3+ analytical results have been qualified J as estimated, and non-detect results qualified UJ indicating an estimated reporting limit, due to analysis which exceeded the laboratory established hold time. The result for Byproduct 5 in one sample was qualified J, and may be biased high, due to an MS RPR that exceeded criteria. See the Data Verification Module (DVM) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DVM Narrative report is attached. The lab report due to a large page count is stored on an AECOM network shared drive and is available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- 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.**

DVM Narrative Report

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
EB3-053019	05/30/2019	280-124597-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	NVHOS	0.054	UG/L	PQL		0.054	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
EB3-053019	05/30/2019	280-124597-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO2HxA	0.081	ug/L	PQL		0.081	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO3OA	0.058	ug/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO4DA	0.079	ug/L	PQL		0.079	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFO5DA	0.034	ug/L	PQL		0.034	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFMOAA	0.21	ug/L	PQL		0.21	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
EB3-053019	05/30/2019	280-124597-5	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFESA-BP2	0.030	ug/L	PQL		0.030	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Hfpo Dimer Acid (trial)	0.086	UG/L	PQL		0.086	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Byproduct 4	0.16	UG/L	PQL		0.16	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Byproduct 5	0.058	UG/L	PQL		0.058	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
EB3-053019	05/30/2019	280-124597-5	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Hfpo Dimer Acid (trial)	0.086	UG/L	PQL		0.086	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Hfpo Dimer Acid (trial)	0.086	UG/L	PQL		0.086	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Hfpo Dimer Acid (trial)	0.086	UG/L	PQL		0.086	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	R-EVE	0.070	UG/L	PQL		0.070	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PES	0.046	UG/L	PQL		0.046	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PMPA	0.57	UG/L	PQL		0.57	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFECA B	0.060	UG/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.060	ug/L	PQL		0.060	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	2-(N-methyl perfluoro-1-	0.11	ug/L	PQL		0.11	UJ	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
			octanesulfonamido)-ethanol							SOP		
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PEPA	0.047	UG/L	PQL		0.047	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFESA-BP1	0.027	UG/L	PQL		0.027	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	N-methyl perfluoro-1-octanesulfonamide	0.035	ug/L	PQL		0.035	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	N-ethylperfluoro-1-octanesulfonamide	0.037	UG/L	PQL		0.037	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	EVE Acid	0.024	UG/L	PQL		0.024	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Hydro-EVE Acid	0.028	UG/L	PQL		0.028	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFECA-G	0.041	UG/L	PQL		0.041	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Byproduct 6	0.015	UG/L	PQL		0.015	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Byproduct 5	1.4	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Hfpo Dimer Acid (trial)	0.12	UG/L	PQL		0.086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	R-EVE	0.070	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	R-EVE	0.087	UG/L	PQL		0.070	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Byproduct 4	0.28	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Byproduct 4	0.3	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Byproduct 5	1.5	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	Byproduct 5	1.6	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFESA-BP2	0.20	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFESA-BP2	0.21	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFMOAA	2.5	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFMOAA	2.7	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	NVHOS	0.11	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	NVHOS	0.12	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFESA-BP2	0.21	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFESA-BP2	0.21	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO2HxA	0.68	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO2HxA	0.7	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO3OA	0.32	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO3OA	0.33	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO4DA	0.22	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO4DA	0.24	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO5DA	0.14	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-DUP-053019	05/30/2019	280-124597-7	PFO5DA	0.14	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Byproduct 4	0.24	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Byproduct 4	0.26	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFMOAA	2.6	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFMOAA	2.7	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	NVHOS	0.11	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	NVHOS	0.11	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO2HxA	0.66	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO2HxA	0.66	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO3OA	0.32	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

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Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO3OA	0.32	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO4DA	0.23	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO4DA	0.24	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO5DA	0.15	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFO5DA	0.15	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFESA-BP1	0.032	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20D-053019	05/30/2019	280-124597-4	PFESA-BP1	0.036	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Byproduct 4	0.22	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Byproduct 4	0.23	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Byproduct 5	1.7	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	Byproduct 5	1.7	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFESA-BP2	0.21	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFESA-BP2	0.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFMOAA	2.8	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFMOAA	2.8	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO2HxA	0.68	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO2HxA	0.67	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO3OA	0.34	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO3OA	0.34	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO4DA	0.25	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO4DA	0.26	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO5DA	0.16	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFO5DA	0.16	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFESA-BP1	0.036	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PFESA-BP1	0.04	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PMPA	0.57	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	PMPA	0.66	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	NVHOS	0.14	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20C-053019	05/30/2019	280-124597-1	NVHOS	0.12	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Byproduct 4	0.21	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Byproduct 4	0.22	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	Byproduct 5	1.3	UG/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFESA-BP2	0.20	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFESA-BP2	0.19	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFMOAA	2.4	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFMOAA	2.4	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	NVHOS	0.11	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	NVHOS	0.11	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Byproduct 4	0.23	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Byproduct 4	0.28	UG/L	PQL		0.16	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO2HxA	0.64	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO2HxA	0.66	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO3OA	0.30	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO3OA	0.29	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO4DA	0.22	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO4DA	0.23	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO5DA	0.14	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-SW-20B-053019	05/30/2019	280-124597-2	PFO5DA	0.14	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	Hfpo Dimer Acid (trial)	0.11	UG/L	PQL		0.086	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFESA-BP2	0.19	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling** Additional Outfall Samples **Validation** LABSTATS

Validation Reason The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sample	Lab Sample	Analyte	Result	Unit	Typ	MDL	PQL	Validation	Analytical Method	Pre-prep	Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFESA-BP2	0.2	ug/L	PQL		0.030	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFMOAA	2.5	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFMOAA	2.6	ug/L	PQL		0.21	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PMPA	0.64	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PMPA	0.67	UG/L	PQL		0.57	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO2HxA	0.64	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO2HxA	0.62	ug/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO3OA	0.32	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO3OA	0.3	ug/L	PQL		0.058	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO4DA	0.22	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO4DA	0.21	ug/L	PQL		0.079	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO5DA	0.14	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFO5DA	0.13	ug/L	PQL		0.034	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFESA-BP1	0.030	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	PFESA-BP1	0.027	UG/L	PQL		0.027	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	NVHOS	0.10	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
FAY-DSTW-OUTFALL002-053019	05/30/2019	280-124597-3	NVHOS	0.11	UG/L	PQL		0.054	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Geosyntec consultants

Geosyntec Consultants of NC, PC

DECOMMISSIONING SUMMARY OF GROUTING OF EAST-WEST SECTION OF TERRACOTTA PIPE FROM CHEMOURS MONOMERS IXM AREA

Chemours Fayetteville Works, NC

Prepared for

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Geosyntec Project Number TR0795

August 2019

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Figure 1: Terracotta Pipe Location
Figure 2: Terracotta Grouted Pipe Section and Manhole Locations

ACRONYMS AND ABBREVIATIONS

%	Percent
Chemours	The Chemours Company FC, LLC
Geosyntec	Geosyntec Consultants of NC, P.C.
IXM	Ion Exchange Membrane
Kuraray	Kuraray America Inc.
PFAS	per- and polyfluoroalkyl substances
the Site	Chemours Fayetteville Works Facility
WWTP	Wastewater treatment plant

1. INTRODUCTION AND OBJECTIVES

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this memorandum for The Chemours Company FC, LLC (Chemours) to summarize grouting performed by G.A. West & Co., Inc. and supervised by Chemours of the east-west section of the terracotta pipe that originates in the Chemours Monomers Ion Exchange Membrane (IXM) Area at the Chemours Fayetteville Works Site (the Site) that occurred in February 2019. This grouting represents continued action by Chemours to mitigate the potential for PFAS originating from the terracotta pipe to be transmitted to the Cape Fear River via transit through the pipe to the Wastewater Treatment Plant (WWTP) and then to Outfall 002. Chemours intends by Fall 2021 to fully decommission the terracotta pipe and transmit existing flows through the terracotta pipe to the Wastewater Treatment Plant using new, aboveground piping.

The terracotta pipe was designed to convey wastewaters from the various manufacturing areas on the Site to the wastewater treatment plant (WWTP) (Figure 1). The table below summarizes inputs of wastewaters transmitted via the terracotta pipe.

Wastewater Contributions to Terracotta Pipe	Contribution Status
Kuraray SentryGlas® Process Wastewater	Active
Kuraray Laboratory Wastewater	Active
Kuraray Trosifol® Process Wastewater	Active
Site Demineralized Water Production Wastewater	Active
Chemours Monomers IXM Process Wastewater	Discontinued Nov-2017

The two Kuraray America, Inc. (Kuraray) Areas, SentryGlas® and Trosifol®, and the Site demineralized water production operations located in the "Power" Area actively transmit water to the WWTP via the terracotta pipe. Neither Kuraray or the water production activities use or produce per- and polyfluoroalkyl substances (PFAS). Prior to June 21, 2017 Chemours transmitted PFAS containing process wastewater to the WWTP from the "Monomers IXM Area" via the terracotta pipe. Between June 21, 2017 and November 29, 2017 Chemours diverted all process wastewater flows from the Chemours Monomers IXM Area from the WWTP and presently sends them for offsite disposal. On November 29, 2017 Chemours severed the terracotta pipe connection from the Chemours Monomers IXM Area to prevent the potential for aqueous process wastewater to be conveyed by the terracotta pipe. While there have been no known contributions of process water from the Monomers IXM Area transmitted to the WWTP via the terracotta pipe

since November 29, 2017, there was the possibility that perched groundwater could enter the east-west section of the terracotta pipe after heavy rain events (Parsons, 2018). Heavy rain events could lead to groundwater levels higher than the bottom of the terracotta pipe near Monomers IXM. This water could then be transmitted to the WWTP and Outfall 002 and the Cape Fear River. To mitigate this possibility Chemours grouted the presently unused east-west section of the terracotta pipe that formerly connected the Monomers IXM Area with the main north-south running section of the terracotta pipe. This grouted portion of the pipe (Figure 1), is referred to as the "east-west" section of the terracotta pipe.

2. TERRACOTTA PIPE GROUTING ACTIVITIES

The east-west portion of the terracotta pipe was grouted by G.A. West & Co., Inc. during the week of February 21, 2019, with oversight by Chemours. Forty (40) cubic yards of flowable fill grout (a mixture of cement, sand and water) were applied under gravity to fill sections of the east-west portion of the terracotta pipe and associated manholes. Pipe vents were installed to vent trapped air and were also used as observation points.

There were eight manholes along the east-west section of terracotta pipe from Chemours Monomers IXM Area. These manholes and the connecting pipe sections between them have been fully grouted (Figure 2). Manholes were used as access points for grouting the pipe. After the pipe sections were filled with grout, the continual addition of grout filled in the manholes. Figure 2 shows photographs of the manholes post grouting. Therefore, this section of the terracotta pipe is expected to be unable to either receive or transmit any type of water (e.g. groundwater, stormwater, process water, etc.,). The section of pipe between Manhole 8 and Manhole 9 had approximately 70 percent (%) of its volume grouted. Kuraray process waters flow through Manhole 9, and consequently this manhole was not filled with grout. The grouting activities mitigate and are intended to prevent transmission of any waters through this section of the terracotta pipe, including waters from upstream pipe or any potentially infiltrating stormwater or groundwater.

3. SUMMARY

In summary, the February 2019 grouting of the east-west section of the terracotta pipe that formerly conveyed process wastewater from the Chemours Monomers IXM Area mitigates the possibility of either groundwater or stormwater entering this section of the pipe and being transmitted to the WWTP and subsequently Outfall 002 and the Cape Fear River. This action represents continued action by Chemours to mitigate potential contributions of PFAS to the WWTP and ultimately through outfall 002 and into the Cape Fear River via the terracotta pipe. By Fall 2021 Chemours intends to fully decommission

remaining terracotta pipe sections connected to the WWTP. The present flows through the terracotta pipe to the WWTP (flows from Kuraray and Power) will be transmitted through new aboveground piping.

4. REFERENCES

Terracotta Sewer Pipe Area Investigation Report, Parsons, December 2018.

FIGURES

Kuraray SentryGlas®
Manufacturing Operations

Kuraray Laboratory

Kuraray Trosifol®
Manufacturing Operations

Power - Filtered and
Demineralized
Water Production

Chemours Monomers
IXM Area

Wastewater Treatment Plant

N

Legend

- Pipe Connection to Facility
- Terracotta Pipe and Piping Connected to Terracotta Pipe
- Grouted Pipe Section

500 250 0 500 Feet

Terracotta Pipe Location

Chemours Fayetteville Works, North Carolina

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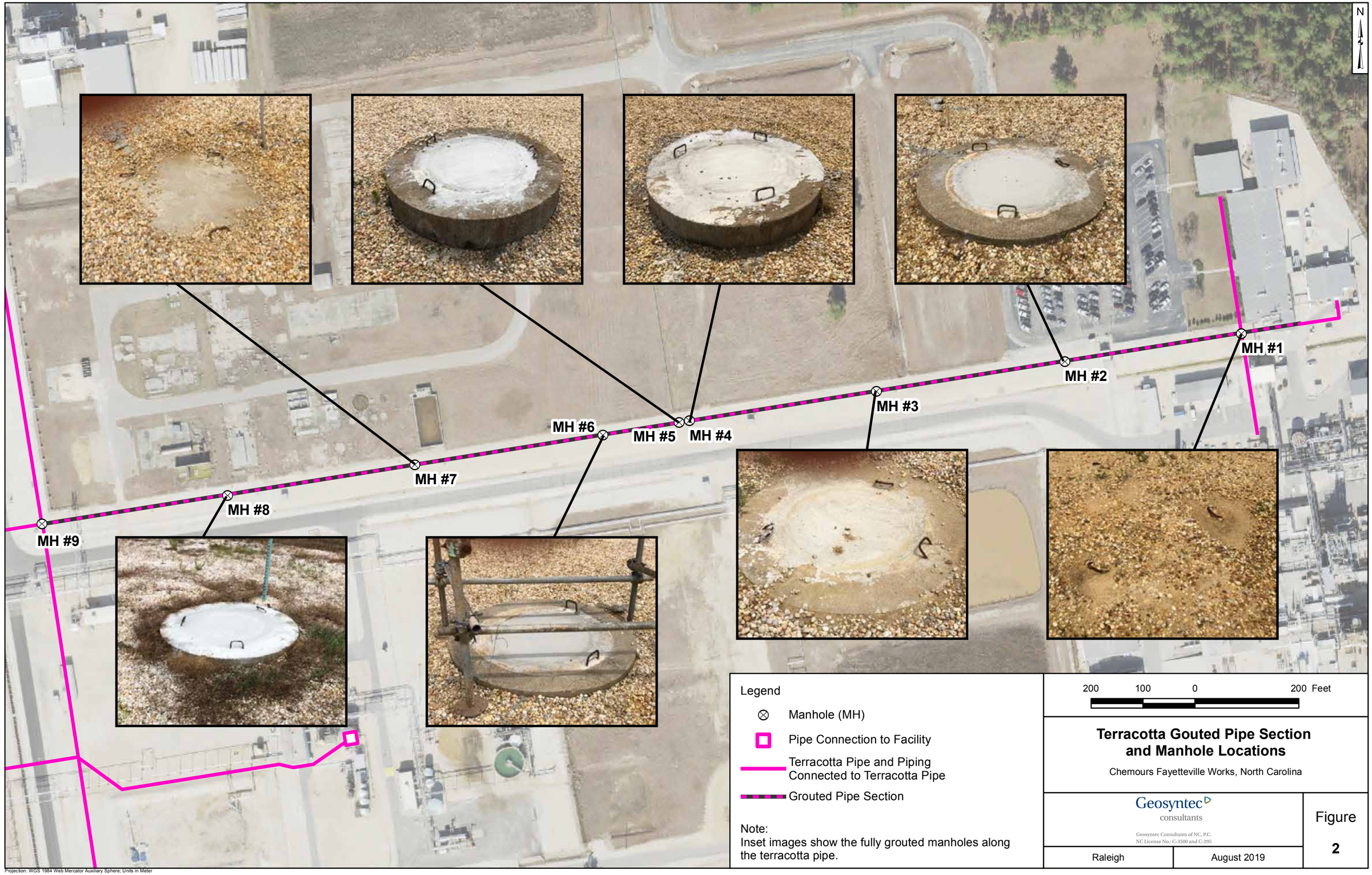
Figure 1

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



Legend

- Manhole (MH)
- Pipe Connection to Facility
- Terracotta Pipe and Piping Connected to Terracotta Pipe
- Grouted Pipe Section

Note:
Inset images show the fully grouted manholes along the terracotta pipe.

200 100 0 200 Feet

Terracotta Gouted Pipe Section and Manhole Locations

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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Figure 2

Projection: WGS 1984 Web Mercator Auxiliary Sphere; Units in Meter

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ATTACHMENT 5

HFPO-DA LOADING REDUCTIONS ESTIMATE

This document presents an analysis supporting the *Cape Fear River PFAS Loading Reduction Plan* (the Reduction Plan). This assessment was completed to understand the range of HFPO-DA loading reductions achieved since June 2017. Specifically, this document presents estimates of the following reductions in PFAS loading:

- HFPO-DA loading reductions to Outfall 002;
- HFPO-DA loading reductions to the Cape Fear River; and
- HFPO-DA loading reductions to the environment.

HFPO-DA Loading Reductions to Outfall 002

Actions taken by Chemours reduced HFPO-DA loading to Outfall 002 by over 99% throughout 2018 when compared to pre-June and mid-June 2017. This assessment was performed by calculating the mass loading at Outfall 002 for June 14 and 15, 2017. At that time Chemours had not yet begun diverting process wastewater from the Monomers IXM Area away from the Wastewater Treatment Plant (WWTP) whereupon they were discharged to Outfall 002. These samples are used as an approximation of pre-June 2017 loadings. The reported concentration of HFPO-DA from these two samples (80,000 and 44,000 nanograms per liter [ng/L] respectively) were then combined with the Outfall 002 flow rates on these dates, 22.12 and 24.255 million gallons per day (MGD). These daily mass loading rates were then prorated to provide estimates of pre-June 2017 potential yearly mass loadings of 3,251 to 5,390 pounds per year (lbs/yr; values not rounded to preserve calculation accuracy).

The estimated pre-June 2017 yearly mass loadings were then combined with the estimated 2018 HFPO-DA load of 12.7 lbs (equivalent to 12.7 lbs/yr) presented in the "Outfall 002 Assessment" – *Assessment of HFPO-DA and PFMOAA in Outfall 002 Discharge and Evaluation of Potential Control Options* (Attachment 3). The calculated reduction in loadings for 2018 compared to mid-June and pre-June 2017 were 99.6% and 99.8% (Table 1).

Table 1: Calculated Pre-June 2017 to 2019 Outfall 002 HFPO-DA Loading Reductions

Location	Chemours Fayetteville Works Outfall 002	
Date	6/14/2017	6/15/2017
Laboratory	TA	TA
HFPO-DA (ng/L)	80,000	44,000
Outfall 002 Discharge Rate (MGD)	22.1	24.3
Outfall 002 Discharge (L/s)	969	1,063
Outfall 002 Mass Loading (mg/s)	78	47
Prorated Estimate of pre-June 2017 Outfall 002 HFPO-DA Loading (lbs/yr)	5,390	3,251
Estimated 2018 HFPO-DA Outfall 002 Load	12.7	12.7
Calculated Percent Reduction in HFPO-DA Loading Pre-June 2017 to 2019	**99.8%**	**99.6%**

- Outfall 002 flow rates were provided by the Fayetteville Works Site (22.12 and 24.255 million gallons per day - MGD).

lbs/yr – pounds per year
L/s – Liters per Second
mg/s – milligrams per second
MGD – Million Gallons per Day
ng/L – nanograms per liter
TA - TestAmerica Laboratories, Inc.

HFPO-DA Loading Reductions to the Cape Fear River

Actions taken by Chemours have reduced HFPO-DA loading reductions to the Cape Fear River by over 95% by 2019 compared to pre-June and mid-June 2017. This assessment was performed by first estimating 2019 Cape Fear River HFPO-DA mass loading and then comparing the highest estimated 2019 HFPO-DA Cape Fear River mid-June and pre-June 2017 HFPO-DA Cape Fear River loadings.

The Cape Fear River 2019 HFPO-DA load was calculated by combining HFPO-DA concentrations reported in the *Seeps and Creeks Investigation Report* (Attachment 2) with Cape Fear River discharge rates reported at two USGS flow gauging stations. These estimates, presented in Table 2, estimated that the observed loads in the Cape Fear River during the Seeps and Creeks Investigation ranged from between 64 and 129 (lbs/yr) on a prorated basis. The 129 (lbs/yr) value was advanced for calculating the estimated reductions since June 2017.

Table 2: 2019 Calculated Cape Fear River HFPO-DA Loading Reductions

Location	Bladen Bluffs[1]		Kings Bluff[2]	
Sample Date	5/22/2019	6/7/2019	5/23/2019	6/7/2019
HFPO-DA (ng/L)	28	57	17	37
River Discharge (cfs)	1,820	1,150	1,920	1,360
River Discharge (L/s)	51,537	32,564	54,368	38,511
Mass Loading (mg/s)	1.44	1.86	0.92	1.42
Prorated Estimate of 2019 HFPO-DA Loading (lbs/yr)	**100**	**129**	**64**	**99**

1 - To account for the approximate 1 day of travel time between the W.O. Huske Dam (USGS Station No. 02105500) and Bladen Bluffs the mean discharge rates from May 21, 2019 and June 6, 2019 were used.
2 - The mean discharge rate from the Cape Fear Lock and Dam Number 1 (USGS Station No. 02105769) on the same date the location was sampled was used for Kings Bluff calculations.
cfs - Cubic Feet Per Second
L/s - Liters per Second
lbs/yr - Pounds per Year
mg/s - Miligrams per Second
ng/L – Nanogram per Liter

To estimate HFPO-DA loading reductions since mid-June 2017 and pre-June 2017 publicly available HFPO-DA concentrations in the river reported by the North Carolina Department of Environmental Quality (NCDEQ) and Brunswick County sampled between June 14 - 22, 2017 were combined with Cape Fear River discharge values as measured by the USGS flow gauging station at Lock and Dam Number 1 on the Cape Fear River. The prorated loads ranged from 3,147 to 14,336 (lbs/yr; Table 3). Comparing these values to the maximum 129 lbs/yr estimated for 2019 yielded HFPO-DA Cape Fear River loading reductions estimated to be between 95.9% and 99.1

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Table 3: Calculated Pre-June 2017 to 2019 Cape Fear River HFPO-DA Loading Reductions

Location	CFPUA Sweeney Finished		Kings Bluff Intake Raw Water		Water Treatment Plant Finished		Chemours Fayetteville Works Outfall 002	
Date	6/22/2017	6/22/2017	6/22/2017	6/22/2017	6/19/2017	6/19/2017	6/14/2017	6/15/2017
Laboratory	EPA RTP NC	TA	EPA RTP NC	TA	EPA RTP NC	TA	TA	TA
HFPO-DA (ng/L)	726	1,100	629	830	695	910	80,000	44,000
River / Outfall 002 Discharge (cfs)	6,620	6,620	6,620	6,620	2,300	2,300	34	38
River / Outfall 002 Discharge (L/s)	187,457	187,457	187,457	187,457	65,129	65,129	969	1,063
Mass Loading (mg/s)	136	206	118	156	45	59	78	47
Prorated Estimate of pre-June 2017 HFPO-DA Loading (lbs/yr)	9,462	14,336	8,198	10,817	3,147	4,121	5,390	3,251
Maximum Estimated Prorated 2019 HFPO-DA Loading (lbs/yr)	129	129	129	129	129	129	129	129
Calculated Percent Reduction in HFPO-DA Loading Pre-June 2017 to 2019	**98.6%**	**99.1%**	**98.4%**	**98.8%**	**95.9%**	**96.9%**	**97.6%**	**96.0%**

-Non-Outfall 002 HFPO-DA data taken from publicly accessible websites https://www.ncwater.org/basins/Cape_Fear/GenXDataspreadsheet.pdf and http://www.brunswickcountync.gov/genx/.
- Flow rates used were the mean flow rates at Cape Fear Lock and Dam Number 1 (USGS Station No. 02105769) on the same date the location was sampled. Kings Bluff Intake Canal is immediately upstream of this USGS Station.
- Outfall 002 flow rates were provided by the Fayetteville Works Site (22.12 and 24.255 million gallons per day - MGD).
EPA - RTP NC - United States Environmental Protection Agency, Research Triangle Park, North Carolina
TA - TestAmerica Laboratories, Inc.
cfs - Cubic Feet Per Second
L/s - Liters per Second
lbs/yr - Pounds per Year
mg/s - Miligrams per Second
ng/L – Nanogram per Lite

HFPO-DA Loading Reductions to the Environment

Actions taken by Chemours have reduced HFPO-DA loading to the environment by upwards of 5,150 lbs/yr. This value was calculated by combining the reductions in air emissions and the minimum estimated reduction in Cape Fear River HFPO-DA loading. The July 2019 monthly emissions report (Chemours, 2019) reported air emission reduction of 2,150 pounds. The reductions to the Cape Fear River was based on the minimum estimated 2017 load of 3,147 lbs/yr (Table 3) minus the maximum 2019 loading of 129 lbs/yr (Table 2) – a reduction of 3,018. Combining these two reductions yields a total estimated reduction of HFPO-DA loading to the environment since mid-June 2017 of 5,150 lbs/yr or greater.

REFERENCES

Chemours 2019: Monthly Emissions Report Pursuant to Consent Order Paragraph 8. Chemours Fayetteville Works. July 22, 2019.

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