



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

INTERIM SEEP REMEDIATION OPERATION AND MAINTENANCE REPORT #9

Chemours Fayetteville Works

Prepared for

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

Prepared by

Geosyntec Consultants of NC, P.C.
2501 Blue Ridge Road, Suite 430
Raleigh, NC 27607

Geosyntec Project Number TR0795A

July 29, 2022



EXECUTIVE SUMMARY

This Operations and Maintenance Report #9 (O&M Report #9) has been prepared to document the operations, maintenance, and performance of the flow-through cells at Seeps A, B, C, and D from May 1 through June 30, 2022. The median flow rate processed by the Seep A, B, and C, and D FTCs was 69, 102, 65, and 71 gallons per minute (gpm), respectively. As documented in the previous O&M Reports #1 through #8, the FTC systems are capable of capturing total base flow under favorable hydraulic conditions, and additionally capture and treat a portion of wet weather flow as well. In total, over the two-month reporting period, the systems processed approximately 29,500,000 gallons of seep flow. Composite samples from performance monitoring indicated that the average PFAS removal efficiency of the captured base flow was approximately 99.9%%, and the FTCs are estimated to have prevented approximately 45.3 pounds (lbs) of PFAS from being discharged to the Cape Fear River in the reporting period, and 375.2 lbs of PFAS over the lifetime of the systems to date.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
1. Introduction.....	4
2. Inspections, Operation, and Maintenance.....	5
2.1 Inspections.....	5
2.2 Duty Cycling	5
2.3 FTC Management During River Flooding	6
2.4 Material Changeouts.....	6
2.5 Issues Encountered and Resolutions	6
3. Data Collected	8
3.1 Pressure Transducers.....	8
3.2 Rainfall and River Stage.....	8
3.3 Operational and Treatment Performance Monitoring	8
3.3.1 Performance Monitoring	8
3.3.2 Breakthrough Monitoring.....	9
3.3.3 Water Quality Monitoring.....	9
3.3.4 Rain Event Monitoring.....	9
3.4 Deviations.....	9
3.4.1 Performance Monitoring Sampling Deviations.....	10
4. Results.....	11
4.1 System Flowrates and Operational Periods.....	11
4.1.1 System Flowrate	11
4.1.2 Bypass Flow	12
4.2 Performance Monitoring Analytical Results.....	12
4.3 System Effectiveness.....	13
4.4 Wet Weather Sampling Results.....	13
4.5 River Elevation and Precipitation.....	14
4.6 Water Quality	14
5. Summary.....	16
6. References.....	17

LIST OF TABLES

Table 1a-d	Summary of Operations and Maintenance Activities – Seeps A-D
Table 2a-d	Sampling Summary – Seeps A-D
Table 3a-d	Summary of Performance Monitoring Analytical Results – Seeps A-D
Table 4a-d	Summary of Wet Weather Analytical Results – Seeps A-D
Table 5	Cape Fear River Elevation and Precipitation Statistics
Table 6a-d	Water Quality Data – Seeps A-D

LIST OF FIGURES

Figure 1	River Level and Seep C FTC As-Built Elevations
Figure 2a-d	Measured Discharge Flowrate – Seeps A-D
Figure 3a-d	Influent Water Elevation and Bypass Flow – Seeps A-D

LIST OF APPENDICES

Appendix A	Transducer Data Reduction
Appendix B	Laboratory Analytical Data Review Narrative

LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
CO Addendum	Addendum to Consent Order Paragraph 12
DB	Discharge Basin
DO	Dissolved oxygen
ESB	Effluent Stilling Basin
FB1	Filter Bed-1
FB2	Filter Bed-2
FTC	flow-through cell
ft msl	feet mean sea level
GAC	granular activated carbon
gpm	gallons per minute
HDPE	high-density polyethylene
HFPO-DA	hexafluoropropylene oxide dimer
IC	Inlet Chamber
IP	Individual Permit
ISB	Influent Stilling Basin
lbs	pounds
mg/L	milligrams per liter
ng/L	nanograms per liter
NTU	nephelometric turbidity units
O&M	Operation and Maintenance
PFAS	per- and polyfluoroalkyl substances
PFD	Process Flow Diagram
PFMOAA	perfluoro-2-methoxyacetic acid
PMPA	perfluoromethoxypropyl carboxylic acid
TB	Transfer Basin
TSS	total suspended solids
USGS	United States Geological Survey

1. INTRODUCTION

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this Interim Seep Remediation Operation and Maintenance (O&M) Report #9 (“O&M Report #9”) on behalf of The Chemours Company FC, LLC (Chemours) to provide a summary report of Operations and Maintenance for the flow-through cells (FTCs) installed as the interim remediation systems at Seeps A, B, C and D at the Chemours Fayetteville Works Site (the Site). This O&M Report #9 has been prepared for the operational period of May 1 through June 30, 2022. The next O&M Report (#10) will cover the bimonthly period of July 1 through August 31, 2022.

As the O&M Report #1 from March 31, 2021 presented FTC performance data for the first time, detailed information was provided on the hydraulic mechanics of the system, flood management practices, data collection methodology and reduction process, and flow calculation formulas. As a simplifying step for presentation clarity, at various sections in this O&M Report #9, reference is made to these details in O&M Report #1. For an overview of the hydraulic functionality of the system, see Section 1.1 of O&M Report #1.

2. INSPECTIONS, OPERATION, AND MAINTENANCE

The following sections describe the inspections, operation, and maintenance activities completed at the four FTCs during the current reporting period (May 1 through June 30, 2022).

2.1 Inspections

Per the CO Addendum, routine inspections occurred on a weekly basis (at a minimum), and also occurred after 0.5 inches or greater rain events within a 24-hour period. An Inspection Form was filled out by operation, maintenance, and monitoring personnel during each inspection.

The routine inspections included, but were not limited to:

- documenting the system duty cycle (i.e., lead/lag orientation of the GAC filter beds)
- measuring and collecting operational parameters/data, notably water elevation data that are used to evaluate influent flowrate and the occurrence (if any) of bypass
- documenting any potential observed issues, such as sediment accumulation in the impoundment basin, structural problems, GAC fouling, and debris that is impairing flow through the system
- inspecting the autosamplers
- photographing the conditions observed, including any bypass flow

A summary of the inspection and maintenance events completed during this reporting period is provided in Tables 1a-d for Seeps A-D, respectively. Further details of these events are provided in the following subsections.

2.2 Duty Cycling

As described in Section 1.1 of the O&M Report #1, the Seep FTCs are constructed of two filter beds which typically operate in series. Tables 1a-d detail the filter bed configurations for Seeps A, B, C, and D over the reporting period of May 1 through June 30, 2022. The approximate number of days each filter bed was in lead during the reporting period for Seeps A, B, C, and D is summarized in the table below:

Seep	FB1 Lead (days)	FB2 Lead (days)	Total Uptime in Reporting Period (days)
A	28	33	61
B	10	51	61
C	34	27	61
D	17	44	61

2.3 FTC Management During River Flooding

As described in the Interim Seeps Remediation System Plan (Geosyntec, 2020), to treat total base flow of each seep, it was necessary to install the interim remedies within the floodway. The historical river elevations were referenced to develop the design elevations of key features such as the spillway and the top of the wall. Additionally, an action level was developed for autosampler removal to prevent damage to electronic components by flood waters. Based on a review of the historical record, a W.O. Huske Lock and Dam gage height of 10 feet (or approximately 38 feet above mean sea level) was selected as the action level for removing autosamplers. Review of historical river stage data indicated that once the river level exceeded this action level, it would typically continue to rise past the level of the FTC walls.

The Cape Fear River was below the action level during the full reporting period (May 1 through June 30, 2022). More details regarding the Cape Fear River are described in Section 4.5.

2.4 Material Changeouts

The table below summarizes the material changeouts through this reporting period:

Seep	Filter Bed	GAC Changeouts		
		Date	GAC Age/Lead Days	GAC Removed (pounds [lbs])
A	FB2	5/4/2022	78/44.5	18,000
B	FB1	5/12/2022	84/29	27,000
D	FB1	5/19/2022	98/49	27,000
C	FB2	5/26/2022	63/31	6,000
A	FB1	6/2/2022	71/27	18,000
C	FB1	6/28/2022	63/34	6,000
C	FB2	6/29/2022	34/1	6,000
<i>Total</i>				<i>108,000</i>

2.5 Issues Encountered and Resolutions

As discussed in detail in OM&M Reports #7 and #8, significant improvements were made at the seeps to enhance the reduction of sediment runoff in the watershed and improve sediment management within the FTCs. Within the catchments of Seeps A and C in particular, the improvements consisted of reinforced silt fence along tributaries, and within tributaries, a combination of jute porous baffles, rock check dams, and floc logs. Within the FTC systems, significant improvement was observed with a combination of two approaches:

- Removal of the gravel drainage layer in the filter bed during routine GAC changeout events. Perforated underdrain pipes were temporarily dismantled, cleaned, and re-installed. Fresh gravel was installed over the cleaned pipes.
- Installation of batten strips, allowing for the geotextile separation layer between the gravel and GAC layers to be more securely bound to the concrete sidewalls, mitigating the risk of GAC migration into the gravel and underdrain pipes.

These improvements were initiated in January-February 2022 and the last remaining filter beds were retrofitted in this May-June 2022 reporting period. The following table broadly summarizes the FTC improvement schedule for the first half of 2022:

FTC Improvement	Completed in Previous Reporting Periods (Jan - Apr)	Completed in Current Reporting Period (May - June)
Overhaul of drainage layer and perforated pipes	Seep A FB1 Seep A FB2 Seep C FB1 Seep C FB2	Seep B FB1 Seep B FB2 Seep D FB1 Seep D FB2
Installation of batten strips	Seep B FB2 Seep C FB1 Seep C FB2 Seep D FB2	Seep A FB1 Seep A FB2 Seep B FB1 Seep D FB1

3. DATA COLLECTED

The FTC includes design components to measure water levels in the system, precipitation, water quality, and PFAS removal performance. The W.O. Huske Lock and Dam gage station is also used to reference nearby precipitation and river levels.

3.1 Pressure Transducers

The IC and Effluent Stilling Basin (ESB) are each equipped with a stilling well in which a non-vented Levelogger® is installed below the operational water level. The water levels acquired from processing the transducer data are used to estimate flows the system processes, and to record the occurrence of flow that is diverted past the system via the Bypass Spillway. Section 4.1 of the O&M Report #1 describes the process used to calculate the flowrates through the FTC based on the water levels.

The pressure transducer data were downloaded regularly as part of routine inspections (weekly at a minimum). Additionally, manual water level measurements were collected in the basins and stilling wells whenever transducers were downloaded to equilibrate the transducer readings (discussed in Section 4.1).

3.2 Rainfall and River Stage

Precipitation and river stage are monitored by using the United States Geological Survey (USGS) weather monitoring station at the W.O. Huske Dam (gage 02105500). This station is approximately 1,200 feet from Seep C and records precipitation and river elevation data every 15 minutes.

3.3 Operational and Treatment Performance Monitoring

Operational and performance monitoring of the system includes the composite collection of water samples from various locations in the system, and direct measurement of water quality parameters. The operational and performance monitoring is completed on a regular basis to evaluate:

- PFAS removal efficiency (i.e., performance monitoring)
- breakthrough of PFAS compounds between GAC filter beds, using grab samples on an as-needed basis (i.e., breakthrough monitoring)
- water quality parameters specified in the CO Addendum
- potential effects of 0.5-inch rain events on PFAS concentrations (i.e., wet weather monitoring)

3.3.1 Performance Monitoring

Composite samples for performance monitoring are collected using portable, battery-powered autosamplers (e.g., Teledyne ISCO 6712 Full-Size Portable Sampler). At the end of the sampling period, the operation, maintenance, and monitoring personnel fill laboratory-supplied sample containers from the common container within the autosampler. Sampling is conducted in

accordance with the PFAS Quality Assurance Project Plan (AECOM, 2018). Any adjustments made to address potential deficiencies (e.g., low battery power, river flooding) are documented on the Inspection Form.

During this reporting period, four performance monitoring samples were collected at Seeps A, B, C, and D. Dates of composite periods for each sample are listed in Table 2.

Samples were stored on wet ice in a cooler until shipment to an external laboratory (Eurofins TestAmerica Laboratories Sacramento or Lancaster). Chain-of-custody documents were completed and included with each shipment. Performance monitoring samples were analyzed for Table 3+ PFAS, as outlined in the *Interim Seep Remediation System Plan* (Geosyntec, 2020).

3.3.2 Breakthrough Monitoring

Grab samples were collected from the IC, TB, and ESB at Seeps A-D for evaluation of system performance and the need for GAC changeouts. Nine sets of breakthrough monitoring samples each were collected from Seeps A, B, C, and D during this reporting period (36 total).

3.3.3 Water Quality Monitoring

Water quality in the IC and ESB at Seeps A-D was generally monitored at the same frequency as performance monitoring described above. Dissolved oxygen (DO), pH, turbidity, specific conductivity, temperature, and total suspended solids (TSS) were measured using a calibrated In-Situ Aqua TROLL 500 Multiparameter Sonde.

3.3.4 Rain Event Monitoring

Wet weather samples were collected at a frequency of at least once per calendar month following a rain event of at least 0.5 inches within a 24-hour period. Composite samples for wet weather monitoring are collected using Teledyne ISCO 6712 Full-Size Portable Samplers (the same make and model as performance monitoring discussed above, but a dedicated set for wet weather sampling only). The wet weather autosamplers are equipped with Teledyne 674 rain gauges that measure rainfall depth. When rainfall exceeds 0.5 inches in a 24-hour period, the rain gauge sends a signal to the Teledyne 6712 to begin a sampling cycle, where the autosampler collects aliquots every hour for 24 hours. Operation, maintenance, and monitoring personnel fill sample containers and follow the same sample collection protocols for wet weather as described in Section 3.3.1 above.

Wet weather monitoring samples were analyzed for Table 3+ PFAS, as outlined in the *Interim Seep Remediation System Plan* (Geosyntec, 2020). Table 2 lists the wet weather samples collected at Seeps A-D during the reporting period and the associated cumulative rainfall prior to the sampling timeframe.

3.4 Deviations

Deviations in data collected are described below.

3.4.1 Performance Monitoring Sampling Deviations

The planned number of performance monitoring samples were collected at Seeps A-D per the Interim Seep Remediation Plan (Geosyntec, 2020). There was one deviation in a sample composite length, as described below:

- Before the completion of the composite sampling on June 30, 2022, the clamp in the autosampler for the Seep B influent malfunctioned, resulting in the collection of fewer aliquots (132) than planned (336).

4. RESULTS

The results for each type of data collected are described in detail in the following subsections. A brief overview of the results is as follows:

Reporting Period Metric	Seep A	Seep B	Seep C	Seep D	Total
Duration	61 days (May 1 – June 30, 2022)				
Rainfall, Actual (in)	5.20 (May 1 – June 30, 2022)				
Rainfall, Historical Average (in)	8.50 (May 1- June 30, 2004-2020)				
River Above Spillway (days) *	0	0	0	0	N/A
Operational Period (days)	61				N/A
Median Flow Rate (gpm)	69	102	65	71	318
Seep Volume Treated (gallons)	7,500,000	9,600,000	6,000,000	6,400,000	29,500,000
PFAS Removed (lbs)	14.3	20.8	4.6	5.6	45.3

* Seeps A and D are approximately 1 foot lower in elevation than Seeps B and C.

4.1 System Flowrates and Operational Periods

4.1.1 System Flowrate

A detailed discussion of pressure transducer water level measurements in the Effluent Stilling Basin, and the data reduction process to convert these levels to flow rates, is provided in Sections 3.1, 3.4.1, and 4.1.1 of O&M Report #1. This data reduction process, updated for the current reporting period, is provided in Appendix A. Figures 2a-d show the measurable flowrates through the FTC over the reporting period for Seeps A-D, respectively.

The flowrate statistics calculated from measurable discharge flowrates for Seeps A-D for the current reporting period are tabulated below:

Flowrate Metric	Seep A	Seep B	Seep C	Seep D
Median Flow Rate (gpm) during the Reporting Period	69	102	65	71
95 th percentile Flow Rate (gpm) during the Reporting Period	203	201	122	125
Design Basis Flow Rate * (gpm)	205	226	76	183

* The design basis flow rate was selected as the 95th percentile value of dry weather base flow from flume pre-design data.

Using the measured and extrapolated flowrate calculations, approximately 7,500,000 gallons, 9,600,000 gallons, 6,000,000 gallons, and 6,400,000 gallons of water (29,500,000 gallons total) were treated by the Seeps A, B, C, and D FTCs, respectively, from May 1 through June 30, 2022.

4.1.2 Bypass Flow

A discussion of pressure transducer water level measurements in the FTC Influent Stilling Basin (ISB), and the data reduction process to convert these levels to the elevation of the bypass spillway, is provided in Section 3.1, 3.4.1, and 4.1.2 of O&M Report #1. This data reduction process, updated for the current reporting period, is provided in Appendix A. The influent water level elevation and occurrences of bypass flow for Seeps A-D for the reporting period are shown in Figures 3a-d.

The total rainfall received in May was approximately 2.46 inches, which is approximately 30% less than the monthly historical average of 3.62 inches. In June, the total rainfall was 2.74 inches, approximately half the monthly historical average of 4.87 inches. At Seeps A, B, and D, rainfall did not cause bypass during this reporting period; the 5.20 inches of rain in the two-month period was captured and treated. There were a few brief instances of bypass at Seep C caused by precipitation that were resolved with maintenance events lowering the impoundment below the spillway, similar to previous reporting periods.

4.2 Performance Monitoring Analytical Results

Analytical results for the composite performance monitoring samples are provided in Table 3 and summarized below. Laboratory analytical results are compiled in Appendix B.

Analytical Results – Performance Monitoring	Seep A	Seep B	Seep C	Seep D
Average Influent Total Table 3+ PFAS, 17 compounds (ng/L)	190,000	230,000	92,250	104,250
Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	229	45	293	46
Average Removal Efficiency (%)	99.9	>99.9	99.7	>99.9

4.3 System Effectiveness

System effectiveness, defined by the percentage removal of the combined concentrations of the three indicator parameters (HFPO-DA, PFMOAA and PMPA), is determined on a monthly average basis for the system using volume weighted concentrations of the influent and effluent samples. Volume weighted concentrations were developed in the event that either the influent and effluent autosamplers have different compositing durations or that the two composite sampling periods in the month have different durations (e.g., 14 days and 10 days). Both circumstances could arise due to a potential equipment malfunction or severe weather event. Weighting by volume provides a representative assessment of mass present in both the influent and effluent over time; samples corresponding to greater flow volumes will have a proportionately higher weight. System effectiveness is calculated using the equation presented in Section 4.3 of the O&M Report #1.

Based on the system flowrate data (Section 4.1.1) and the performance monitoring composite sample data of the three indicator compounds (Section 4.2), the overall system effectiveness for Seeps A-D was calculated to be 99.9%. The system effectiveness for the individual Seeps is presented below:

System Effectiveness	Seep A		Seep B		Seep C		Seep D		Overall Average
	May	Jun	May	Jun	May	Jun	May	Jun	
%	99.8	99.9	>99.9	>99.9	99.5	99.7	99.9	>99.9	99.9

4.4 Wet Weather Sampling Results

Wet weather monitoring samples were collected at Seeps A-D during the reporting period (Table 2), and their analytical results are shown in Table 4 and summarized below. Laboratory analytical results are compiled in Appendix B. As noted in Paragraph 2(a)(iii) in the CO Addendum, these results are not to be used to determine compliance under Paragraph 2(a)(vi).

Analytical Result – Wet Weather Monitoring	Seep A	Seep B	Seep C	Seep D
Influent Total Table 3+ PFAS, 17 compounds (ng/L)	165,000	200,000	67,500	103,000
Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	392	25	485	50
Removal Efficiency (%)	99.8	>99.9	99.3	>99.9

4.5 River Elevation and Precipitation

The Cape Fear River was monitored using the existing USGS weather monitoring station at the W.O. Huske Dam (gage 02105500), as described in Section 3.2.

Three key river elevations, in reference to the FTC at Seeps A-D were monitored for their effect on system performance:

- (i) When the river rises above the top of the GAC (approximately), head differentials throughout the FTC are reduced and flow through the system is hindered.
- (ii) When the river rises above the invert of the Bypass Spillway, the influent and effluent water elevation are equal and flow through the system ceases.
- (iii) When the river rises above the top of the FTC walls, maintenance is required to remove any depositional sediment from flooding.

Table 5 presents the percent of time the elevation of the Cape Fear River has exceeded these key elevations over the lifetime of operation at each seep FTC. As shown, the river has been above the Seep A/B/D features less frequently than the historical dataset, as compared to Seep C, which was installed during the extraordinarily wet winter of 2020/2021.

Figure 1 presents a similar dataset, but for the current reporting period only, and using the as-built elevations of the Seep C FTC for clarity. As shown, the Cape Fear River did not rise above the elevation of any key feature from May 1 through June 30, 2022.

4.6 Water Quality

The water quality measurements collected during the reporting period are provided in Table 6 and described below:

- **DO:** No significant differences were observed in the fluctuations of DO between influent and effluent locations at all four seeps. On a median basis, the DO changed by 1 mg/L or less. Aerobic (>2 mg/L) conditions were mostly observed during the process. The FTC systems do not involve biological activity to treat influent water, therefore, DO is not expected to decrease or increase significantly over the system’s residence time.

- **Temperature:** At all four seeps, the median temperature of the effluent was within 2°C of the median temperature of the influent during this reporting period. Due to the relatively short residence time in the FTC, temperature is not expected to change significantly throughout the FTC.
- **Specific Conductance:** Similar to the above parameters, there appeared to be only a minor effect on conductivity. The FTC is expected to have little effect on the anion/cation content of the seep baseflow. For all four Seeps, the difference in median specific conductance across influent and effluent locations ranged between -24 and +15 µS/cm.
- **pH:** The median effluent pH at the four seeps ranged from 7.1 to 7.7 S.U. in this reporting period. From the IC to the ESB, the median pH of treated water increased slightly at Seeps A, B, and C (0.8, 0.3, and 0.1 S.U., respectively) and did not change at Seep D. An increase in pH from IC to ESB is anticipated due to the inflow's contact with the concrete walls of the FTC and the GAC in the filter beds.
- **Turbidity and TSS:** The median turbidity of the influent water at Seeps A, B, C, and D ranged from 21.5 to 49.6 NTU. The FTCs significantly decreased the turbidity of the influent water. The median turbidity of the effluent water at Seeps A-D ranged from 1.8 to 5.5 NTU. The turbidity measured at Seep C on May 5 appears to be an outlier. This measurement was collected shortly after a large rain event and may have been affected by suspended sediments from stormwater runoff. Except for one sampling event where TSS was not measured, the TSS was observed to be 0.0 mg/L for all the influent and effluent monitoring locations.

5. SUMMARY

The following summarizes the FTC performance after the completion of the latest reporting period (May 1 through June 30, 2022):

- Conclusions reached from the previous months of operation, as documented in previous O&M Reports, remain unchanged. Flow data from Seeps A, B, C, and D indicate the systems are capable of treating more than the design basis flow rate under favorable hydraulic conditions. Wet weather flow is frequently captured, in some cases fully captured, and treated equally to dry weather flows when captured.
- Performance monitoring results indicate the average PFAS removal efficiency of captured baseflow at Seeps A-D is approximately 99.9%. To date, the A-D FTCs have prevented approximately 375.2 lbs of PFAS from being discharged to the Cape Fear River.
- In continued response to the elevated levels of turbidity in the impoundments of the FTC systems (O&M Reports #7 and #8), preventative measures were completed at all four Seeps to significantly reduce the carryover of solids through the FTCs. These measures (Section 2.5) included thorough cleaning of clogged gravel and underdrain piping, installation of cleanouts, and installation of batten strips to better secure the geotextile separation layer between gravel and GAC layers.

The next reporting period (July 1 through August 31, 2022) will be described in O&M Report #10, to be submitted no later than September 30, 2022.

6. REFERENCES

- AECOM, 2018. Poly and Perfluoroalkyl Substance Quality Assurance Project Plan. August 2018.
- Geosyntec, 2020. Interim Seep Remediation System Plan. Chemours Fayetteville Works. 31 August 2020.
- Geosyntec, 2021a. Interim Seep Remediation Operation and Maintenance Report #1. Chemours Fayetteville Works. 31 March 2021.
- Geosyntec, 2021b. Interim Seep Remediation Operation and Maintenance Report #2. Chemours Fayetteville Works. 31 May 2021.
- Geosyntec, 2021c. Interim Seep Remediation Operation and Maintenance Report #3. Chemours Fayetteville Works. 30 July 2021.
- Geosyntec, 2021d. Interim Seep Remediation Operation and Maintenance Report #4. Chemours Fayetteville Works. 30 September 2021.
- Geosyntec, 2021e. Interim Seep Remediation Operation and Maintenance Report #5. Chemours Fayetteville Works. 30 November 2021.
- Geosyntec, 2022a. Interim Seep Remediation Operation and Maintenance Report #6. Chemours Fayetteville Works. 31 January 2022.
- Geosyntec, 2022b. Interim Seep Remediation Operation and Maintenance Report #7. Chemours Fayetteville Works. 31 March 2022.
- Geosyntec, 2022c. Interim Seep Remediation Operation and Maintenance Report #8. Chemours Fayetteville Works. 31 May 2022.

TABLES

Table 1a
Summary of Operations and Maintenance Activities - Seep A
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
05/02/2022	370	No	X			Lag	Lead	Lag	Lead	X	N/A	10 inches of freeboard.
05/04/2022	372	No			X	Lag	Lead	Lead	Closed		GAC changeout at FB2. FB1 sole processing.	11 inches of freeboard. Rain gauge reading of 1.1 inches. All ISCOs fired.
05/05/2022	373	No				Lead	Changeout	Lead	Lag		Removed carbon.	11 inches of freeboard. Turbid water in pond from stormwater.
05/06/2022	374	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1. Replaced single ply fabric.	8 inches of freeboard. Large volume of water in reservoir.
05/07/2022	375	No				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 0.20 inches. Turbid water observed in reservoir.
05/08/2022	376	No				Lead	Lag	Lead	Lag		N/A	N/A
05/09/2022	377	No	X			Lead	Lag	Lead	Lag	X	N/A	9 inches of freeboard. No errors on ISCOs.
05/10/2022	378	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	5.5 inches of freeboard.
05/14/2022	382	No				Lead	Lag	Lead	Lag		N/A	FB1 turbid.
05/15/2022	383	No		X		Lead	Lag	Lead	Lag		N/A	Pond fairly clear, lost 3 inches of freeboard since yesterday.
05/16/2022	384	No	X			Lead	Lag	Lead	Lag	X	N/A	2.5 inches of freeboard.
05/17/2022	385	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1 and FB2.	12 inches of freeboard.
05/19/2022	387	No				Lead	Lag	Lead	Lag		N/A	Biocide observed in reservoir and inlet.
05/20/2022	388	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1 and flushed inlet basin.	17 inches of freeboard.
05/23/2022	391	No	X			Lead	Lag	Lead	Lag	X	Replaced influent ISCO battery.	14 inches of freeboard.
05/24/2022	392	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB2.	12 inches of freeboard.
05/27/2022	395	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, and changed fabric at FB1.	14.5 inches of freeboard. Observed green tint in reservoir.
05/30/2022	398	--		X		Lead	Lag	Lead	Lag		N/A	N/A
05/31/2022	399	No	X			Lead	Lag	Closed	Lead	X	Prepped FB1 for changeout.	12 inches of freeboard. Rain gauge reading of 1/16 inches.
06/02/2022	401	No				Changeout	Lead	Lag	Lead		GAC changeout FB1. Batten strips installed.	Algae blooming in basin.
06/03/2022	402	No				Lag	Lead	Lag	Lead		N/A	16 inches of freeboard.
06/06/2022	405	No	X			Lag	Lead	Lag	Lead	X	Added 150 pounds of biocide to reservoir.	7.5 inches of freeboard.
06/07/2022	406	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Inlet flush.	8 inches of freeboard.
06/09/2022	408	No			X	Lag	Lead	Lag	Lead		N/A	Observed turbid water in reservoir. Rain gauge reading of 1.1 inches. 11 inches of freeboard.
06/10/2022	409	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Replaced fabric in FB1.	Rain gauge reading of 0.5 inches. 4 inches of freeboard. Observed turbidity in reservoir from rain events.
06/13/2022	412	No	X			Lag	Lead	Lag	Lead	X	Skimmed and fluffed FB2.	5 inches of freeboard. Observed algae and silt in FB2 before maintenance. Observed decrease in reservoir turbidity over the weekend.
06/15/2022	414	No		X		Lag	Lead	Lag	Lead		N/A	N/A
06/16/2022	415	No				Lag	Lead	Lag	Lead		Cleaned FB2.	N/A
06/18/2022	417	No				Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 0.25 inches. 17 inches of freeboard.
06/19/2022	418	No				Lag	Lead	Lag	Lead		N/A	16 inches of freeboard.
06/20/2022	419	No	X			Lag	Lead	Lag	Lead	X	N/A	14.5 inches of freeboard. Time on datalogger appeared unchanged from daylight savings change. On influent, time read 09:17 instead of 10:17.
06/21/2022	420	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2.	13 inches of freeboard.
06/23/2022	422	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric in FB2.	18 inches of freeboard.
06/24/2022	423	No				Lag	Lead	Lag	Lead		N/A	20 inches of freeboard.
06/27/2022	426	No	X			Lag	Lead	Lag	Lead	X	N/A	N/A
06/29/2022	428	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2.	13 inches of freeboard.
06/30/2022	429	--		X		Lag	Lead	Lag	Lead		N/A	N/A

Notes
 FB1 - Filter Bed 1
 FB2 - Filter Bed 2
 FTC - flow through cell
 GAC - granulated activated carbon
 ISCO - Teledyne ISCO Autosampler
 mm - millimeters
 N/A - Not Applicable

Table 1b
Summary of Operations and Maintenance Activities - Seep B
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
05/02/2022	329	No	X			Lead	Lag	Lead	Lag	X	Applied biocide to inlet, influent stilling basin, and pond.	5 inches of freeboard.
05/03/2022	330	No				Lead	Lag	Lead	Lag		Full reset with inlet flush post biocide application.	N/A
05/04/2022	331	No			X	Lead	Lag	Lead	Lag		N/A	2 inches of freeboard. Rain gauge reading of 2 inches. All ISCOs fired.
05/05/2022	332	No				Lead	Lag	Lead	Lag		Turbidity curtain removed. Cleaned FB1.	Reservoir holding large volume of water. Inlet basin turbidity of 29.7 NTU. Rain gauge reading of 0.25 inches.
05/07/2022	334	No				Lead	Lag	Lead	Lag		N/A	2 inches of freeboard. Rain gauge reading of 0.2 inches.
05/08/2022	335	No				Lead	Lag	Lead	Lag		N/A	N/A
05/09/2022	336	No	X			Lead	Lag	Lead	Lag	X	N/A	1 inch of freeboard.
05/10/2022	337	--				Lead	Lag	Closed	Lead		N/A	N/A
05/12/2022	339	No				Changeout	Lead	Lag	Lead		GAC Changeout at FB1. FB2 cleaned during changeout.	20 inches of freeboard.
05/14/2022	341	No				Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 0.75 inches.
05/15/2022	342	No		X		Lag	Lead	Lag	Lead		N/A	14 inches of freeboard.
05/16/2022	343	No	X			Lag	Lead	Lag	Lead	X	N/A	12 inches of freeboard. No rain in gauge.
05/18/2022	345	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2 and flushed inlet basin.	11 inches of freeboard. Bacterial debris noticeable in inlet basin which decreased significantly by afternoon.
05/23/2022	350	No	X			Lag	Lead	Lag	Lead	X	Replaced influent ISCO battery.	15 inches of freeboard.
05/25/2022	352	No				Lag	Lead	Lag	Lead		100 pounds of biocide spread evenly in the reservoir.	Observed higher turbidity coming from right side of basin.
05/26/2022	353	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric in FB2. Flushed inlet.	11 inches of freeboard. Observed biocide on reservoir surface water.
05/30/2022	357	--		X		Lag	Lead	Lag	Lead		N/A	N/A
05/31/2022	358	No	X			Lag	Lead	Lag	Lead	X	N/A	16 inches of freeboard. Rain gauge reading of 3/16 inches.
06/01/2022	359	No				Lag	Lead	Lag	Lead		Applied biocide to reservoir.	N/A
06/02/2022	360	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Flushed inlet.	12+ inches of freeboard.
06/03/2022	361	No				Lag	Lead	Lag	Lead		N/A	12 inches of freeboard.
06/06/2022	364	No	X			Lag	Lead	Lag	Lead	X	N/A	17.5 inches of freeboard.
06/09/2022	367	No			X	Lag	Lead	Lag	Lead		Skimmed and fluffed.	Rain gauge reading of 1 inch. 12 inches of freeboard.
06/10/2022	368	No				Lag	Lead	Lag	Lead		N/A	N/A
06/13/2022	371	No	X			Lag	Lead	Lag	Lead	X	Biocide application.	13 inches of freeboard.
06/14/2022	372	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Flushed inlet.	10 inches of freeboard before maintenance. 11 inches of freeboard after maintenance.
06/15/2022	373	No		X		Lag	Lead	Lag	Lead		N/A	N/A
06/18/2022	376	No				Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 0.5 inches. 16 inches of freeboard.
06/19/2022	377	No				Lag	Lead	Lag	Lead		N/A	17 inches of freeboard.
06/20/2022	378	No	X			Lag	Lead	Lag	Lead	X	N/A	15.75 inches of freeboard.
06/21/2022	379	No				Lag	Lead	Lag	Lead		Biocide application.	14.5 inches of freeboard.
06/22/2022	380	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric at FB2.	13 inches of freeboard.
06/24/2022	382	No				Lag	Lead	Lag	Lead		N/A	N/A
06/27/2022	385	No	X			Lag	Lead	Lag	Lead		N/A	N/A
06/30/2022	388	No		X		Lag	Lead	Lag	Lead		Skimmed and fluffed FB2.	13 inches of freeboard.

Notes
 FB1 - Filter Bed 1
 FB2 - Filter Bed 2
 FTC - flow through cell
 GAC - granulated activated carbon
 ISCO - Teledyne ISCO Autosampler
 mm - millimeters
 N/A - Not Applicable
 NTU - Nephelometric Turbidity Unit

Table 1c
Summary of Operations and Maintenance Activities - Seep C
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
05/02/2022	503	No	X			Lag	Lead	Lag	Lead	X	N/A	12 inches of freeboard.
05/04/2022	505	Yes			X	Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 1.2 inches. Both ISCOs fired. Turbid sediment pond.
05/05/2022	506	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Line jet FB2.	2 inches of freeboard. Rain gauge reading of 0.30 inches. Turbidity in sediment pond.
05/07/2022	508	No				Lag	Lead	Parallel	Parallel		Both beds placed in parallel overnight.	4 inches of freeboard. Rain gauge reading of 0.2 inches. Very turbid reservoir, cells, and mid basin
05/08/2022	509	--				Parallel	Parallel	Lag	Lead		N/A	N/A
05/09/2022	510	No	X			Lag	Lead	Lag	Lead	X	Skimmed and fluffed FB2.	11 inches of freeboard.
05/10/2022	511	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB1.	7 inches of freeboard.
05/11/2022	512	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB1.	6 inches of freeboard.
05/13/2022	514	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2.	7 inches of freeboard.
05/14/2022	515	Yes				Lag	Lead	Lag	Lead		N/A	3+ inches in spillway. Rain gauge reading of 0.75 inches.
05/15/2022	516	--		X		Lag	Lead	Parallel	Parallel		Both beds placed in parallel overnight.	N/A
05/16/2022	517	No	X			Parallel	Parallel	Lag	Lead	X	Cleaned FB1 and FB2.	N/A
05/19/2022	520	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2.	8.5 inches of freeboard.
05/23/2022	524	No	X			Lag	Lead	Lag	Lead	X	N/A	7 inches of freeboard. Basin turbid.
05/25/2022	526	No				Lag	Lead	Lead	Closed		Skimmed, fluffed, and replaced fabric in FB1.	9 inches of freeboard.
05/26/2022	527	--				Lead	Changeout	Lead	Lag		N/A	N/A
05/30/2022	531	--		X		Lead	Lag	Lead	lag		N/A	N/A
05/31/2022	532	No	X			Lead	Lag	Lead	Lag	X	N/A	12 inches of freeboard. Rain gauge reading of 3/16 inches.
06/01/2022	533	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, and replaced fabric at FB1.	13 inches of freeboard.
06/06/2022	538	No	X			Lead	Lag	Lead	Lag	X	N/A	14 inches of freeboard.
06/08/2022	540	--				Lead	Lag	Lead	Lag		Applied biocide to reservoir.	N/A
06/09/2022	541	No			X	Lead	Lag	Lead	Lag		Skimmed, fluffed, and replaced fabric at FB1.	Rain gauge reading of 0.75 inches. 6 inches of freeboard prior to maintenance. 10 inches of freeboard after maintenance.
06/10/2022	542	No				Lead	Lag	Lead	Lag		N/A	N/A
06/13/2022	545	No	X			Lead	Lag	Lead	Lag	X	Skimmed and fluffed FB1 and FB2.	11 inches of freeboard. Observed turbidity in reservoir.
06/15/2022	547	No		X		Lead	Lag	Lead	Lag		N/A	N/A
06/17/2022	549	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	6.5 inches of freeboard.
06/18/2022	550	No				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 0.25 inches. 5 inches of freeboard. Observed turbidity in reservoir.
06/19/2022	551	No				Lead	Lag	Lead	Lag		N/A	6 inches of freeboard.
06/20/2022	552	No	X			Lead	Lag	Lead	Lag	X	Skimmed and fluffed FB1 and FB2.	6 inches of freeboard.
06/23/2022	555	No				Lead	Lag	Lead	Lag		N/A	N/A
06/24/2022	556	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	N/A
06/27/2022	559	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
06/28/2022	560	--				Changeout	Lead	Lag	Lead		N/A	N/A
06/29/2022	561	--				Lead	Changeout	Lead	Lag		N/A	N/A
06/30/2022	562	--		X		Lead	Lag	Lead	Lag		N/A	N/A

Notes
 FB1 - Filter Bed 1
 FB2 - Filter Bed 2
 FTC - flow through cell
 GAC - granulated activated carbon
 ISCO - Teledyne ISCO Autosampler
 mm - millimeters
 N/A - Not Applicable

Table 1d
Summary of Operations and Maintenance Activities - Seep D
Reporting Period 9 (May - June 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
05/02/2022	313	No	X			Lead	Lag	Lead	Lag	X	N/A	14 inches of freeboard.
05/04/2022	315	No			X	Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 1.7 inches. All ISCOs fired.
05/05/2022	316	No				Lead	Lag	Lead	Lag		N/A	N/A
05/06/2022	317	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	8 inches of freeboard.
05/07/2022	318	No				Lead	Lag	Lead	Lag		N/A	20 inches of freeboard. Rain gauge reading of 0.20 inches. Very little flow into cell.
05/08/2022	319	No				Lead	Lag	Lead	Lag		N/A	N/A
05/09/2022	320	No	X			Lead	Lag	Lead	Lag	X	N/A	13 inches of freeboard.
05/12/2022	323	No				Lead	Lag	Lead	Lag		Flushed inlet. Maintenance on FB1.	N/A
05/14/2022	325	--				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 0.75 inches. Turbid.
05/15/2022	326	--		X		Lead	Lag	Lead	lag		N/A	N/A
05/16/2022	327	No	X			Lead	Lag	Lead	Lag	X	N/A	12-16 inches of freeboard. Needs biocide.
05/17/2022	328	No				Lead	Lag	Closed	Lead		Skimmed and fluffed FB2 and flushed inlet. Prepared FB1 GAC changeout for May 18.	17 inches of freeboard.
05/19/2022	330	No				Changeout	Lead	Lag	Lead		GAC changeout and batten strips installation competed.	20 inches of freeboard.
05/23/2022	334	No	X			Lag	Lead	Lag	Lead	X	Replaced effluent ISCO battery.	18 inches of freeboard.
05/24/2022	335	No				Lag	Lead	Lag	Lead		Applied 120 pounds of biocide to basin.	N/A
05/25/2022	336	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2.	16 inches of freeboard.
05/30/2022	341	--		X		Lag	Lead	Lag	Lead		N/A	N/A
05/31/2022	342	No	X			Lag	Lead	Lag	Lead	X	N/A	18 inches of freeboard. Rain gauge reading of 1/8 inches.
06/03/2022	345	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2.	16.6 inches of freeboard.
06/06/2022	348	No	X			Lag	Lead	Lag	Lead	X	N/A	17 inches of freeboard.
06/07/2022	349	No				Lag	Lead	Lag	Lead		Added biocide to reservoir and inlet basin.	N/A
06/08/2022	350	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Flushed inlet.	14 inches of freeboard.
06/09/2022	351	No			X	Lag	Lead	Lag	Lead		Cleaned FB2.	20 inches of freeboard. Rain gauge reading of 1 inch.
06/10/2022	352	No				Lag	Lead	Lag	Lead		Replaced fabric.	Observed heavy silt turbidity on inlet basin side.
06/13/2022	355	No	X			Lag	Lead	Lag	Lead	X	N/A	N/A
06/14/2022	356	No				Lag	Lead	Lag	Lead		Applied biocide in the reservoir.	N/A
06/15/2022	357	No		X		Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Flushed inlet.	15.5 inches of freeboard.
06/18/2022	360	No				Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 0.25 inches. 20 inches of freeboard.
06/19/2022	361	No				Lag	Lead	Lag	Lead		N/A	19 inches of freeboard.
06/20/2022	362	No	X			Lag	Lead	Lag	Lead	X	N/A	18 inches of freeboard.
06/21/2022	363	No				Lag	Lead	Lag	Lead		Applied biocide in the reservoir.	18 inches of freeboard.
06/22/2022	364	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric in FB2.	18 inches of freeboard.
06/27/2022	369	No	X			Lag	Lead	Lag	Lead	X	N/A	N/A
06/30/2022	372	--		X		Lag	Lead	Lag	Lead		N/A	N/A

Notes
FB1 - Filter Bed 1
FB2 - Filter Bed 2
FTC - flow through cell
GAC - granulated activated carbon
ISCO - Teledyne ISCO Autosampler
mm - millimeters
N/A - Not Applicable
W1 - Weir 1

Table 2a
Sampling Summary - Seep A
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-A-INFLUENT-336-051522 SEEP-A-EFFLUENT-336-051522	May 1 - May 15, 2022	May 15, 2022
SEEP-A-INFLUENT-330-053022 SEEP-A-EFFLUENT-336-053022	May 16 - May 30, 2022	May 30, 2022
SEEP-A-INFLUENT-336-061522 SEEP-A-EFFLUENT-336-061522	June 1 - June 15, 2022	June 15, 2022
SEEP-A-INFLUENT-336-063022 SEEP-A-EFFLUENT-336-063022	June 16 - June 30, 2022	June 30, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-A-INFLUENT-RAIN-24-050422 SEEP-A-EFFLUENT-RAIN-24-050422	May 4, 2022	16:47	1.3
SEEP-A-INFLUENT-RAIN-24-060922 SEEP-A-EFFLUENT-RAIN-24-060922	June 9, 2022	12:58	1.33

Notes

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.

Table 2b
Sampling Summary - Seep B
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-B-INFLUENT-336-051522 SEEP-B-EFFLUENT-336-051522	May 1 - May 15, 2022	May 15, 2022
SEEP-B-INFLUENT-318-053022 SEEP-B-EFFLUENT-336-053022	May 16 - May 30, 2022	May 30, 2022
SEEP-B-INFLUENT-336-061522 SEEP-B-EFFLUENT-336-061522	June 1 - June 15, 2022	June 15, 2022
SEEP-B-INFLUENT-132-063022 SEEP-B-EFFLUENT-336-063022	June 16 - June 30, 2022	June 30, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-B-INFLUENT-RAIN-24-050422 SEEP-B-EFFLUENT-RAIN-24-050422	May 4, 2022	17:48	1.3
SEEP-B-INFLUENT-RAIN-24-060922 SEEP-B-EFFLUENT-RAIN-24-060922	June 9, 2022	13:40	1.33

Notes

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 The ISCO autosampler at Seep B influent malfunctioned during the runtime of the sample collected on June 30, interrupting the collection of aliquots in the 14-day composite.
- 3 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.

Table 2c
Sampling Summary - Seep C
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-C-INFLUENT-336-051522 SEEP-C-EFFLUENT-336-051522	May 1 - May 15, 2022	May 15, 2022
SEEP-C-INFLUENT-336-053022 SEEP-C-EFFLUENT-336-053022	May 16 - May 30, 2022	May 30, 2022
SEEP-C-INFLUENT-336-061522 SEEP-C-EFFLUENT-336-061522	June 1 - June 15, 2022	June 15, 2022
SEEP-C-INFLUENT-336-063022 SEEP-C-EFFLUENT-336-063022	June 16 - June 30, 2022	June 30, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-C-INFLUENT-RAIN-24-050422 SEEP-C-EFFLUENT-RAIN-24-050422	May 4, 2022	18:07	1.3
SEEP-C-INFLUENT-RAIN-24-060922 SEEP-C-EFFLUENT-RAIN-24-060922	June 9, 2022	14:00	1.33

Notes

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.

Table 2d
Sampling Summary - Seep D
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-D-INFLUENT-336-051522 SEEP-D-EFFLUENT-336-051522	May 1 - May 15, 2022	May 15, 2022
SEEP-D-INFLUENT-330-053022 SEEP-D-EFFLUENT-336-053022	May 16 - May 30, 2022	May 30, 2022
SEEP-D-INFLUENT-336-061522 SEEP-D-EFFLUENT-336-061522	June 1 - June 15, 2022	June 15, 2022
SEEP-D-INFLUENT-336-063022 SEEP-D-EFFLUENT-336-063022	June 16 - June 30, 2022	June 30, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-D-INFLUENT-RAIN-24-050422 SEEP-D-EFFLUENT-RAIN-24-050422	May 4, 2022	17:47	1.3
SEEP-D-INFLUENT-RAIN-24-060922 SEEP-D-EFFLUENT-RAIN-24-060922	June 9, 2022	14:25	1.33

Notes

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.

Table 3a
Summary of Performance Monitoring Analytical Results - Seep A
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

	SEEP-A-INFLUENT- 336-051522	SEEP-A-EFFLUENT- 336-051522	Percent Removal	SEEP-A-INFLUENT- 330-053022	SEEP-A-EFFLUENT- 336-053022	Percent Removal	SEEP-A-INFLUENT- 336-061522	SEEP-A-EFFLUENT- 336-061522	Percent Removal	SEEP-A-INFLUENT- 336-063022	SEEP-A-EFFLUENT- 336-063022	Percent Removal
	Sample Date: 15-May-22	Sample Date: 15-May-22		Sample Date: 30-May-22	Sample Date: 30-May-22		Sample Date: 15-Jun-22	Sample Date: 15-Jun-22		Sample Date: 30-Jun-22	Sample Date: 30-Jun-22	
<i>Table 3 + SOP (ng/L)</i>												
Hfpo Dimer Acid	21,000	92	99.6%	25,000	12	>99.9%	26,000	15	99.9%	23,000	<2.0	100.0%
PFMOAA	62,000	210	99.7%	74,000	57 B	99.9%	74,000	110	99.9%	92,000	20	>99.9%
PFO2HxA	33,000	140	99.6%	37,000 J	18	>99.9%	41,000	30	99.9%	44,000	4.5	>99.9%
PFO3OA	14,000	53	99.6%	14,000	6.6	>99.9%	14,000	9.2	99.9%	19,000	<2.0	100.0%
PFO4DA	7,100	27	99.6%	8,800	4.9	99.9%	7,300	6	99.9%	9,200	<2.0	100.0%
PFO5DA	3,500	12	99.7%	4,600	2.3	>99.9%	4,100	3.2	99.9%	4,900	<2.0	100.0%
PMPA	11,000	44	99.6%	12,000 J	11	99.9%	14,000	11	99.9%	15,000	<10	100.0%
PEPA	4,700	<20	100.0%	4,800	<20	100.0%	5,200	<20	100.0%	5,500	<20	100.0%
PS Acid	2,700	7.5	99.7%	3,700	<2.0	100.0%	2,600	<2.0	100.0%	2,000	<2.0	100.0%
Hydro-PS Acid	1,300	4.3	99.7%	1,600	<2.0	100.0%	1,500	<2.0	100.0%	1,600	<2.0	100.0%
R-PSDA	2,000 J	10 J	99.5%	2,900 J	<2.0	100.0%	2,100 J	<2.0	100.0%	3,400 J	<2.0	100.0%
Hydrolyzed PSDA	26,000 J	110 J	99.6%	42,000 J	25 J	99.9%	26,000 J	31 J	99.9%	37,000 J	<2.0	100.0%
R-PSDCA	<87	<2.0	100.0%	<87	<2.0	100.0%	<87	<2.0	100.0%	<87	<2.0	100.0%
NVHOS, Acid Form	1,200	4.5	99.6%	1,400	<2.0	100.0%	1,300	<2.0	100.0%	1,600	<2.0	100.0%
EVE Acid	300	<2.0	100.0%	430	<2.0	100.0%	280	<2.0	100.0%	220	<2.0	100.0%
Hydro-EVE Acid	1,500	4.3	99.7%	1,800	<2.0	100.0%	1,700	<2.0	100.0%	1,900	<2.0	100.0%
R-EVE	1,100 J	6.1 J	99.4%	1,600 J	<2.0	100.0%	1,000 J	<2.0	100.0%	1,400 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<34	<2.0	100.0%	<34	<2.0	100.0%	<34	<2.0	100.0%	<34	<2.0	100.0%
PFECA B	<130	<2.0	100.0%	<130	<2.0	100.0%	<130	<2.0	100.0%	<130	<2.0	100.0%
PFECA-G	<240	<2.0	100.0%	<240	<2.0	100.0%	<240	<2.0	100.0%	<240	<2.0	100.0%
Total Table 3+ (17 compounds)^{1,2}	160,000	600	99.6%	190,000	110	99.9%	190,000	180	99.9%	220,000	25	>99.9%
Total Table 3+ (20 compounds)¹	190,000	720	99.6%	240,000	140	99.9%	220,000	220	99.9%	260,000	25	>99.9%

Notes

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 3b
Summary of Performance Monitoring Analytical Results - Seep B
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

	SEEP-B-INFLUENT- 336-051522	SEEP-B-EFFLUENT- 336-051522	Percent Removal	SEEP-B-INFLUENT- 318-053022	SEEP-B-EFFLUENT- 336-053022	Percent Removal	SEEP-B-INFLUENT- 336-061522	SEEP-B-EFFLUENT- 336-061522	Percent Removal	SEEP-B-INFLUENT- 336-063022	SEEP-B-EFFLUENT- 336-063022	Percent Removal
	Sample Date: 15-May-22	Sample Date: 15-May-22		Sample Date: 30-May-22	Sample Date: 30-May-22		Sample Date: 15-Jun-22	Sample Date: 15-Jun-22		Sample Date: 30-Jun-22	Sample Date: 30-Jun-22	
<i>Table 3 + SOP (ng/ L)</i>												
Hfpo Dimer Acid	21,000	2.8	>99.9%	15,000	2.6	>99.9%	16,000	<2.0	100.0%	14,000	<2.0	100.0%
PFMOAA	100,000	33	>99.9%	130,000	59 B	>99.9%	130,000	31	>99.9%	150,000	21	>99.9%
PFO2HxA	36,000	5.9	>99.9%	43,000	5.2	>99.9%	47,000	5.2	>99.9%	48,000	2.7	>99.9%
PFO3OA	11,000	<2.0	100.0%	11,000	<2.0	100.0%	12,000	<2.0	100.0%	13,000	<2.0	100.0%
PFO4DA	1,600	<2.0	100.0%	1,500	<2.0	100.0%	1,700	<2.0	100.0%	1,400	<2.0	100.0%
PFO5DA	<390	<2.0	100.0%	<390	<2.0	100.0%	<390	<2.0	100.0%	<390	<2.0	100.0%
PMPA	21,000	<10	100.0%	17,000	12	99.9%	20,000	<10	100.0%	19,000	<10	100.0%
PEPA	9,500	<20	100.0%	5,300	<20	100.0%	6,200	<20	100.0%	5,900	<20	100.0%
PS Acid	500	<2.0	100.0%	<98	<2.0	100.0%	<98	<2.0	100.0%	140	<2.0	100.0%
Hydro-PS Acid	730	<2.0	100.0%	490	<2.0	100.0%	450	<2.0	100.0%	410	<2.0	100.0%
R-PSDA	3,300 J	<2.0	100.0%	2,500 J	<2.0	100.0%	1,800 J	<2.0	100.0%	1,700 J	<2.0	100.0%
Hydrolyzed PSDA	26,000 J	2.7 J	>99.9%	35,000 J	3.0 J	>99.9%	22,000 J	<2.0	100.0%	28,000 J	<2.0	100.0%
R-PSDCA	<87	<2.0	100.0%	<87	<2.0	100.0%	<87	<2.0	100.0%	<87	<2.0	100.0%
NVHOS, Acid Form	2,100	<2.0	100.0%	1,900	<2.0	100.0%	2,000	<2.0	100.0%	2,300	<2.0	100.0%
EVE Acid	320	<2.0	100.0%	<87	<2.0	100.0%	<87	<2.0	100.0%	<87	<2.0	100.0%
Hydro-EVE Acid	1,200	<2.0	100.0%	830	<2.0	100.0%	810	<2.0	100.0%	710	<2.0	100.0%
R-EVE	1,600 J	<2.0	100.0%	1,200 J	<2.0	100.0%	810 J	<2.0	100.0%	850 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<34	<2.0	100.0%	<34	<2.0	100.0%	<34	<2.0	100.0%	<34	<2.0	100.0%
PFECA B	<130	<2.0	100.0%	<130	<2.0	100.0%	<130	<2.0	100.0%	<130	<2.0	100.0%
PFECA-G	<240	<2.0	100.0%	<240	<2.0	100.0%	<240	<2.0	100.0%	<240	<2.0	100.0%
Total Table 3+ (17 compounds)^{1,2}	200,000	42	>99.9%	230,000	79	>99.9%	240,000	36	>99.9%	250,000	24	>99.9%
Total Table 3+ (20 compounds)¹	240,000	44	>99.9%	260,000	82	>99.9%	260,000	36	>99.9%	290,000	24	>99.9%

Notes

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 3c
Summary of Performance Monitoring Analytical Results - Seep C
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

	SEEP-C-INFLUENT- 336-051522	SEEP-C-EFFLUENT- 336-051522	Percent Removal	SEEP-C-INFLUENT- 336-053022	SEEP-C-EFFLUENT- 336-053022	Percent Removal	SEEP-C-INFLUENT- 336-061522	SEEP-C-EFFLUENT- 336-061522	Percent Removal	SEEP-C-INFLUENT- 336-063022	SEEP-C-EFFLUENT- 336-063022	Percent Removal
	Sample Date: 15-May-22	Sample Date: 15-May-22		Sample Date: 30-May-22	Sample Date: 30-May-22		Sample Date: 15-Jun-22	Sample Date: 15-Jun-22		Sample Date: 30-Jun-22	Sample Date: 30-Jun-22	
<i>Table 3 + SOP (ng/ L)</i>												
Hfpo Dimer Acid	14,000	31	99.8%	18,000	29	99.8%	18,000	47	99.7%	14,000	14	99.9%
PFMOAA	31,000	260	99.2%	47,000	190	99.6%	41,000	150	99.6%	38,000	73	99.8%
PFO2HxA	16,000	71	99.6%	20,000	59	99.7%	18,000	60	99.7%	17,000	29	99.8%
PFO3OA	5,100	7.1	99.9%	5,700	6.2	99.9%	5,800	18	99.7%	5,700	3.9	99.9%
PFO4DA	2,000	<2.0	100.0%	2,200	<2.0	100.0%	2,300	7.6	99.7%	2,000	<2.0	100.0%
PFO5DA	120	<2.0	100.0%	110	<2.0	100.0%	95	<2.0	100.0%	94	<2.0	100.0%
PMPA	5,800	45	99.2%	7,600	27	99.6%	5,900	21	99.6%	5,700	11	99.8%
PEPA	2,000	<20	100.0%	2,500	<20	100.0%	2,000	<20	100.0%	2,100	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	310	<2.0	100.0%	360	<2.0	100.0%	350	<2.0	100.0%	260	<2.0	100.0%
R-PSDA	<71	<2.0	100.0%	920 J	<2.0	100.0%	<71	<2.0	100.0%	590 J	<2.0	100.0%
Hydrolyzed PSDA	750 J	5.8 J	99.2%	1,100 J	3.0 J	99.7%	1,300 J	4.5 J	99.7%	750 J	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	460	2.1	99.5%	560	2.5	99.6%	630	<2.0	100.0%	590	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	900	<2.0	100.0%	1,100	<2.0	100.0%	1,100	3	99.7%	870	<2.0	100.0%
R-EVE	550 J	5.7 J	99.0%	800 J	<2.0	100.0%	780 J	4.3 J	99.4%	560 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 compounds)^{1,2}	78,000	420	99.5%	110,000	310	99.7%	95,000	310	99.7%	86,000	130	99.8%
Total Table 3+ (20 compounds)¹	79,000	430	99.5%	110,000	320	99.7%	97,000	320	99.7%	88,000	130	99.9%

Notes

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 3d
Summary of Performance Monitoring Analytical Results - Seep D
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

	SEEP-D-INFLUENT- 336-051522	SEEP-D-EFFLUENT- 336-051522	Percent Removal	SEEP-D-INFLUENT- 330-053022	SEEP-D-EFFLUENT- 336-053022	Percent Removal	SEEP-D-INFLUENT- 336-061522	SEEP-D-EFFLUENT- 336-061522	Percent Removal	SEEP-D-INFLUENT- 336-063022	SEEP-D-EFFLUENT- 336-063022	Percent Removal
	Sample Date: 15-May-22	Sample Date: 15-May-22		Sample Date: 30-May-22	Sample Date: 30-May-22		Sample Date: 15-Jun-22	Sample Date: 15-Jun-22		Sample Date: 30-Jun-22	Sample Date: 30-Jun-22	
<i>Table 3 + SOP (ng/ L)</i>												
Hfpo Dimer Acid	13,000	<2.0	100.0%	16,000	5.9	>99.9%	16,000	3.8	>99.9%	15,000	<2.0	100.0%
PFMOAA	45,000	5.4	>99.9%	52,000	66	99.9%	47,000	58	99.9%	52,000	14	>99.9%
PFO2HxA	20,000	<2.0	100.0%	21,000	11	>99.9%	20,000	10	>99.9%	20,000	5	>99.9%
PFO3OA	5,900	<2.0	100.0%	5,800	2.8	>99.9%	5,800	2.9	>99.9%	6,900	<2.0	100.0%
PFO4DA	2,000	<2.0	100.0%	2,000	<2.0	100.0%	2,300	<2.0	100.0%	2,100	<2.0	100.0%
PFO5DA	140	<2.0	100.0%	140	<2.0	100.0%	140	<2.0	100.0%	120	<2.0	100.0%
PMPA	6,200	<10	100.0%	6,100	<10	100.0%	5,400	<10	100.0%	5,800	<10	100.0%
PEPA	2,200	<20	100.0%	2,100	<20	100.0%	1,900	<20	100.0%	2,100	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	320	<2.0	100.0%	310	<2.0	100.0%	330	<2.0	100.0%	260	<2.0	100.0%
R-PSDA	780 J	<2.0	100.0%	<71	<2.0	100.0%	740 J	<2.0	100.0%	<71	<2.0	100.0%
Hydrolyzed PSDA	1,900 J	<2.0	100.0%	2,400 J	<2.0	100.0%	2,400 J	4.0 J	99.8%	1,900 J	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	690	<2.0	100.0%	650	<2.0	100.0%	710	<2.0	100.0%	740	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	1,100	<2.0	100.0%	1,100	<2.0	100.0%	1,200	<2.0	100.0%	1,100	<2.0	100.0%
R-EVE	820 J	<2.0	100.0%	940 J	<2.0	100.0%	870 J	<2.0	100.0%	810 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 compounds)^{1,2}	97,000	5.4	>99.9%	110,000	86	99.9%	100,000	75	99.9%	110,000	19	>99.9%
Total Table 3+ (20 compounds)¹	100,000	5.4	>99.9%	110,000	86	99.9%	100,000	79	99.9%	110,000	19	>99.9%

Notes

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 4a
Summary of Wet Weather Analytical Results - Seep A
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-A-INFLUENT- RAIN-24-050422	SEEP-A-EFFLUENT- RAIN-24-050422	Percent Removal	SEEP-A-INFLUENT- RAIN-24-060922	SEEP-A-EFFLUENT- RAIN-24-060922	Percent Removal
	Sample Date: 04-May-22	Sample Date: 04-May-22		Sample Date: 09-Jun-22	Sample Date: 09-Jun-22	
Hfpo Dimer Acid	19,000	110	99.4%	23,000	7	>99.9%
PFMOAA	74,000	260	99.6%	64,000	61	99.9%
PFO2HxA	29,000	130	99.6%	36,000	16	>99.9%
PFO3OA	11,000	52	99.5%	13,000	4.4	>99.9%
PFO4DA	6,600	28	99.6%	7,500	3	>99.9%
PFO5DA	3,200	13	99.6%	4,300	2	>99.9%
PMPA	10,000	52	99.5%	12,000	<10	100.0%
PEPA	3,900	21	99.5%	4,600	<20	100.0%
PS Acid	2,400	12	99.5%	2,500	<2.0	100.0%
Hydro-PS Acid	1,000	5	99.5%	1,500	<2.0	100.0%
R-PSDA	1,900 J	12 J	99.4%	2,300 J	<2.0	100.0%
Hydrolyzed PSDA	23,000 J	110 J	99.5%	24,000 J	14 J	99.9%
R-PSDCA	36	<2.0	100.0%	<87	<2.0	100.0%
NVHOS, Acid Form	990	5	99.5%	1,200	<2.0	100.0%
EVE Acid	290	<2.0	100.0%	300	<2.0	100.0%
Hydro-EVE Acid	1,200	6.1	99.5%	1,500	<2.0	100.0%
R-EVE	840 J	<2.0	100.0%	1,200 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<34	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<130	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<240	<2.0	100.0%
Total Table 3+ (17 Compounds)^{1,2}	160,000	690	99.6%	170,000	93	>99.9%
Total Table 3+ (20 Compounds)¹	190,000	820	99.6%	200,000	110	>99.9%

Notes:

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 4b
Summary of Wet Weather Analytical Results - Seep B
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-B-INFLUENT- RAIN-24-050422	SEEP-B-EFFLUENT- RAIN-24-050422	Percent Removal	SEEP-B-INFLUENT- RAIN-24-060922	SEEP-B-EFFLUENT- RAIN-24-060922	Percent Removal
	Sample Date: 04-May-22	Sample Date: 04-May-22		Sample Date: 09-Jun-22	Sample Date: 09-Jun-22	
Hfpo Dimer Acid	21,000	<2.0	100.0%	15,000	<2.0	100.0%
PFMOAA	120,000	19 B	>99.9%	110,000	25	>99.9%
PFO2HxA	31,000	3.3 B	>99.9%	33,000	3.2	>99.9%
PFO3OA	8,000	<2.0	100.0%	9,100	<2.0	100.0%
PFO4DA	1,500	<2.0	100.0%	1,400	<2.0	100.0%
PFO5DA	170	<2.0	100.0%	<78	<2.0	100.0%
PMPA	19,000	<10	100.0%	15,000	<10	100.0%
PEPA	8,600	<20	100.0%	4,600	<20	100.0%
PS Acid	510	<2.0	100.0%	230	<2.0	100.0%
Hydro-PS Acid	610	<2.0	100.0%	410	<2.0	100.0%
R-PSDA	2,500 J	<2.0	100.0%	2,500 J	<2.0	100.0%
Hydrolyzed PSDA	23,000 J	<2.0	100.0%	30,000 J	<2.0	100.0%
R-PSDCA	32	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	1800	<2.0	100.0%	1,700	<2.0	100.0%
EVE Acid	400	<2.0	100.0%	24	<2.0	100.0%
Hydro-EVE Acid	1,200	<2.0	100.0%	790	<2.0	100.0%
R-EVE	1,500 J	<2.0	100.0%	1,200 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 Compounds)^{1,2}	210,000	22	>99.9%	190,000	28	>99.9%
Total Table 3+ (20 Compounds)¹	240,000	22	>99.9%	220,000	28	>99.9%

Notes:

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 4c
Summary of Wet Weather Analytical Results - Seep C
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

	SEEP-C-INFLUENT- RAIN-24-050422	SEEP-C-EFFLUENT- RAIN-24-050422		SEEP-C-INFLUENT- RAIN-24-060922	SEEP-C-EFFLUENT- RAIN-24-060922	
	Sample Date: 04-May-22	Sample Date: 04-May-22	Percent Removal	Sample Date: 09-Jun-22	Sample Date: 09-Jun-22	Percent Removal
<i>Table 3+ SOP (ng/L)</i>						
Hfpo Dimer Acid	7,800	17	99.8%	15,000	14	99.9%
PFMOAA	25,000	180	99.3%	37,000	570	98.5%
PFO2HxA	8,800	31	99.6%	17,000	51	99.7%
PFO3OA	2,900	4.1	99.9%	5,000	<2.0	100.0%
PFO4DA	1,300	<2.0	100.0%	2,000	<2.0	100.0%
PFO5DA	150	<2.0	100.0%	92	<2.0	100.0%
PMPA	3,300	23	99.3%	4,800	74	98.5%
PEPA	1,100	<20	100.0%	1,600	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	170	<2.0	100.0%	290	<2.0	100.0%
R-PSDA	390 J	<2.0	100.0%	<71	<2.0	100.0%
Hydrolyzed PSDA	600 J	<2.0	100.0%	1,300 J	2.1 J	99.8%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	260	<2.0	100.0%	540	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	500	<2.0	100.0%	1,100	<2.0	100.0%
R-EVE	300 J	<2.0	100.0%	750 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 Compounds)^{1,2}	51,000	260	99.5%	84,000	710	99.2%
Total Table 3+ (20 Compounds)¹	53,000	260	99.5%	86,000	710	99.2%

Notes:

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 4d
Summary of Wet Weather Analytical Results - Seep D
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-D-INFLUENT- RAIN-24-050422	SEEP-D-EFFLUENT- RAIN-24-050422	Percent Removal	SEEP-D-INFLUENT- RAIN-24-060922	SEEP-D-EFFLUENT- RAIN-24-060922	Percent Removal
	Sample Date: 04-May-22	Sample Date: 04-May-22		Sample Date: 09-Jun-22	Sample Date: 09-Jun-22	
Hfpo Dimer Acid	15,000	<2.0	100.0%	15,000	2.7	>99.9%
PFMOAA	61,000	<2.0	100.0%	45,000	43	99.9%
PFO2HxA	19,000	<2.0	100.0%	19,000	4.6	>99.9%
PFO3OA	6,300	<2.0	100.0%	5,800	<2.0	100.0%
PFO4DA	2,200	<2.0	100.0%	2,100	<2.0	100.0%
PFO5DA	130	<2.0	100.0%	140	<2.0	100.0%
PMPA	5,800	<10	100.0%	5,300	<10	100.0%
PEPA	2,100	<20	100.0%	1,800	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	270	<2.0	100.0%	280	<2.0	100.0%
R-PSDA	630 J	<2.0	100.0%	780 J	<2.0	100.0%
Hydrolyzed PSDA	1,600 J	<2.0	100.0%	2,400 J	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	670	<2.0	100.0%	660	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	1,000	<2.0	100.0%	1,000	<2.0	100.0%
R-EVE	780 J	<2.0	100.0%	930 J	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 Compounds)^{1,2}	110,000	ND	>99.9%	96,000	50	>99.9%
Total Table 3+ (20 Compounds)¹	120,000	ND	>99.9%	100,000	50	>99.9%

Notes:

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

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

Bold - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

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

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

NA - Constituent not analyzed

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 5
Cape Fear River Elevation and Local Precipitation Statistics
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, NC

Seep	# of Days of Operation on Record	Percent of Operation Over Lifetime of System			
		River Above FTC Wall Elevation	River Above Bypass Spillway Elevation	River Above GAC Elevation	River Above Discharge Pipe Invert Elevation
C	562	2.6%	3.3%	6.2%	14.7%
A	429	0.6%	0.7%	1.6%	3.7%
B	388	0.6%	0.7%	1.2%	3.0%
D	372	0.7%	0.8%	1.8%	4.3%
Historical Annual Average (2007-2020) ^[2]		1.7%	2.2%	3.7%	9.6%

Precipitation (inches)	
Current Reporting Period (May - June 2022)	5.20
Current Reporting Period Historical Average (May - June 2004-2020) ^[3]	8.50
2022 Year-to-Date	14.11
Historical Year-to-Date Average (2004-2020) ^[3]	19.59
Historical Annual Average (2004-2020) ^[3]	43.44

Notes

- 1 River elevation and precipitation data from USGS Huske Lock and Dam site 02105500.
- 2 Operational period for river flooding statistics includes the entire lifetime of the system for each seep.
- 3 For clarity of presentation, historical river flooding averages based on Seep C elevations only.
- 4 The historical average was calculated using available data when the Huske rain gauge was operable.

Table 6a
Water Quality Data - Seep A
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
5/5/2022	6.3	6.3	0.0	4.3	5.2	0.9	142	104	-38	25	23	-2	74.80	1.90	-72.90	0	0	0
5/30/2022	8.5	8.4	-0.1	7.2	9.0	1.8	166	168	2	23	23	0	13.40	1.64	-11.76	0	0	0
6/15/2022	6.1	6.0	-0.1	8.4	9.4	1.0	164	149	-15	27	27	0	164.00	149.00	-15.00	0	0	0
6/30/2022	8.5	9.1	0.6	5.5	5.0	-0.5	145	133	-12	24	24	0	4.24	1.77	-2.47	NM	NM	NM
<i>Average</i>	<i>7.3</i>	<i>7.5</i>	<i>0.1</i>	<i>6.3</i>	<i>7.2</i>	<i>0.8</i>	<i>154.3</i>	<i>138.5</i>	<i>-15.8</i>	<i>24.6</i>	<i>24.3</i>	<i>-0.3</i>	<i>64.1</i>	<i>38.6</i>	<i>-25.5</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>7.4</i>	<i>7.3</i>	<i>0.0</i>	<i>6.3</i>	<i>7.1</i>	<i>0.8</i>	<i>154.5</i>	<i>141.0</i>	<i>-13.5</i>	<i>24.2</i>	<i>23.8</i>	<i>-0.5</i>	<i>44.1</i>	<i>1.8</i>	<i>-42.3</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

Notes:

- DO dissolved oxygen
- mg/L milligrams per liter
- SU standard units
- NTU nephelometric turbidity units
- µS/cm microSiemens per centimeter
- TSS total suspended solids
- NM not measured

Table 6b
Water Quality Data - Seep B
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
5/5/2022	7.3	5.6	-1.7	7.7	8.0	0.3	115	159	44	21	21	0	50.60	2.12	-48.48	0	0	0
5/30/2022	7.4	7.5	0.1	7.2	7.5	0.3	118	125	7	24	24	0	11.30	14.90	3.60	0	0	0
6/15/2022	6.8	7.3	0.5	8.5	8.7	0.2	146	150	4	28	28	0	83.90	8.54	-75.36	0	0	0
6/30/2022	9.0	7.2	-1.8	5.9	6.9	1.0	127	90	-37	26	32	6	48.60	1.60	-47.00	NM	NM	NM
<i>Average</i>	<i>7.6</i>	<i>6.9</i>	<i>-0.8</i>	<i>7.3</i>	<i>7.8</i>	<i>0.4</i>	<i>126.5</i>	<i>131.0</i>	<i>4.5</i>	<i>24.4</i>	<i>26.3</i>	<i>1.9</i>	<i>48.6</i>	<i>6.8</i>	<i>-41.8</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>7.4</i>	<i>7.2</i>	<i>-0.1</i>	<i>7.5</i>	<i>7.7</i>	<i>0.3</i>	<i>122.5</i>	<i>137.5</i>	<i>15.0</i>	<i>24.7</i>	<i>26.2</i>	<i>1.6</i>	<i>49.6</i>	<i>5.3</i>	<i>-44.3</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

Notes:

- DO dissolved oxygen
- mg/L milligrams per liter
- SU standard units
- NTU nephelometric turbidity units
- µS/cm microSiemens per centimeter
- TSS total suspended solids
- NM not measured

Table 6c
Water Quality Data - Seep C
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
5/5/2022	3.7	6.7	3	7.3	7.6	0.3	95	89	-6	22	22	0	428.00	140.00	-288.00	0	0	0
5/30/2022	6.2	7.3	1.1	7.1	6.0	-1.1	101	103	2	26	25	-1	21.50	3.97	-17.53	0	0	0
6/15/2022	5.8	5.9	0.1	8.3	7.9	-0.4	126	116	-10	32	32	0	115.00	21.40	-93.60	0	0	0
6/30/2022	8.7	8.7	0	7.8	7.8	0	113	103	-10	23	23	0	3.65	1.32	-2.33	NM	NM	NM
<i>Average</i>	<i>6.1</i>	<i>7.2</i>	<i>1.0</i>	<i>7.6</i>	<i>7.3</i>	<i>-0.3</i>	<i>108.8</i>	<i>102.8</i>	<i>-6.0</i>	<i>25.6</i>	<i>25.5</i>	<i>-0.1</i>	<i>46.7</i>	<i>8.9</i>	<i>-37.8</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>6.0</i>	<i>7.0</i>	<i>1.0</i>	<i>7.5</i>	<i>7.7</i>	<i>0.1</i>	<i>107.0</i>	<i>103.0</i>	<i>-4.0</i>	<i>24.4</i>	<i>24.4</i>	<i>-0.1</i>	<i>21.5</i>	<i>4.0</i>	<i>-17.5</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

Notes:

- 1 The turbidity measurement collected on May 5 appears to be an outlier, and, as such, was omitted from average and median statistical calculations.
- DO dissolved oxygen
- mg/L milligrams per liter
- SU standard units
- NTU nephelometric turbidity units
- µS/cm microSiemens per centimeter
- TSS total suspended solids
- NM not measured

Table 6d
Water Quality Data - Seep D
Reporting Period 9 (May - June 2022)
 Chemours Fayetteville Works
 Fayetteville, North Carolina

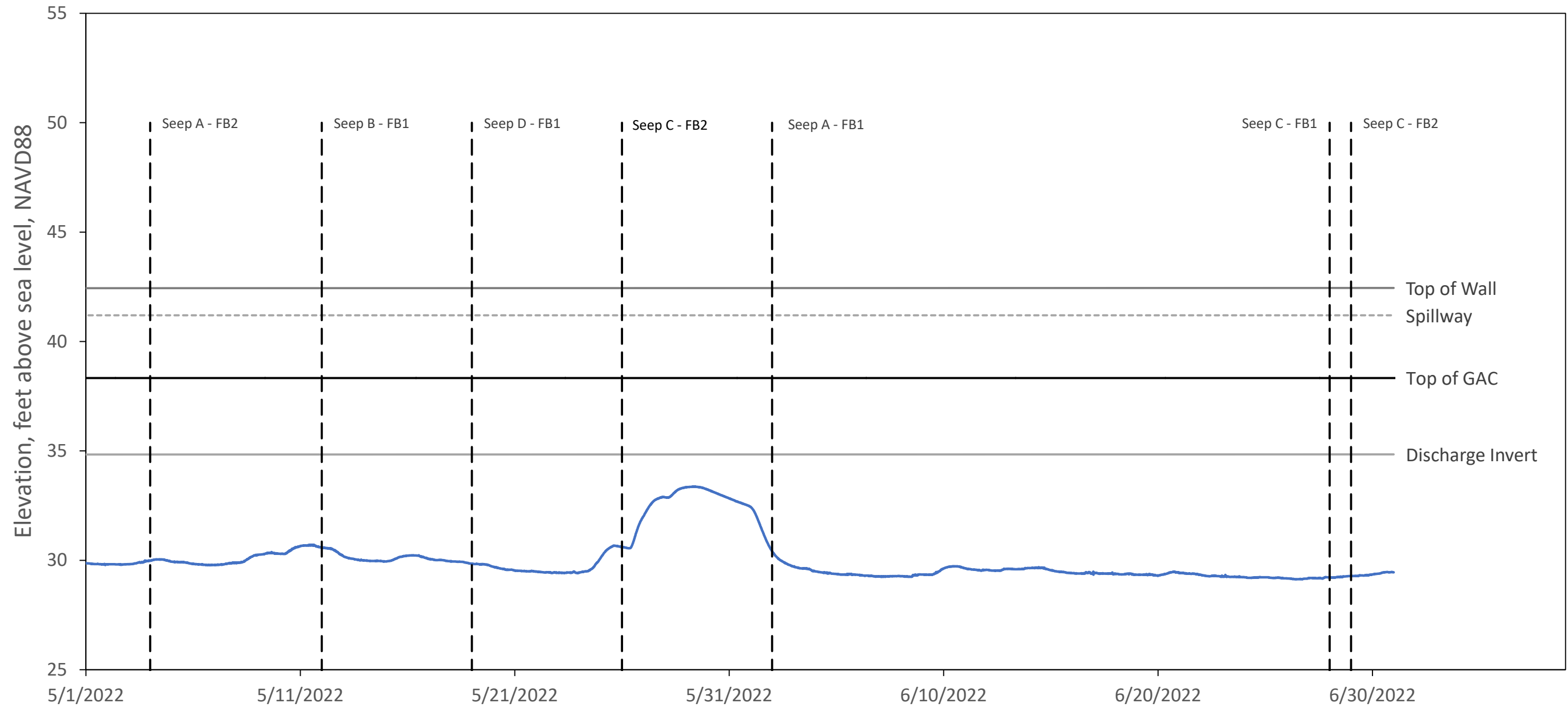
Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
5/5/2022	7.7	6.7	-1.0	4.7	6.5	1.8	144	114	-30	21	21	0	23.60	6.62	-16.98	0	0	0
5/30/2022	7.5	6.9	-0.6	7.5	7.4	-0.1	127	130	3	24	24	0	30.90	8.13	-22.77	0	0	0
6/15/2022	7.5	6.6	-0.9	8.2	8.1	-0.1	157	247	90	37	34	-3	22.00	4.31	-17.69	0	0	0
6/30/2022	6.1	6.0	-0.1	6.9	6.8	-0.1	148	90	-58	31	31	0	1.10	1.82	0.72	NM	NM	NM
<i>Average</i>	7.2	6.5	-0.7	6.8	7.2	0.4	144.0	145.3	1.3	28.1	27.8	-0.3	19.4	5.2	-14.2	0.0	0.0	0.0
<i>Median</i>	7.5	6.6	-0.9	7.2	7.1	0.0	146.0	122.0	-24.0	27.3	27.8	0.5	22.8	5.5	-17.3	0.0	0.0	0.0

Notes:

- DO dissolved oxygen
- mg/L milligrams per liter
- SU standard units
- NTU nephelometric turbidity units
- µS/cm microSiemens per centimeter
- TSS total suspended solids
- NM not measured

FIGURES

River Elevation During Flow Through Cell Operation (05/01/2022 through 06/30/2022)



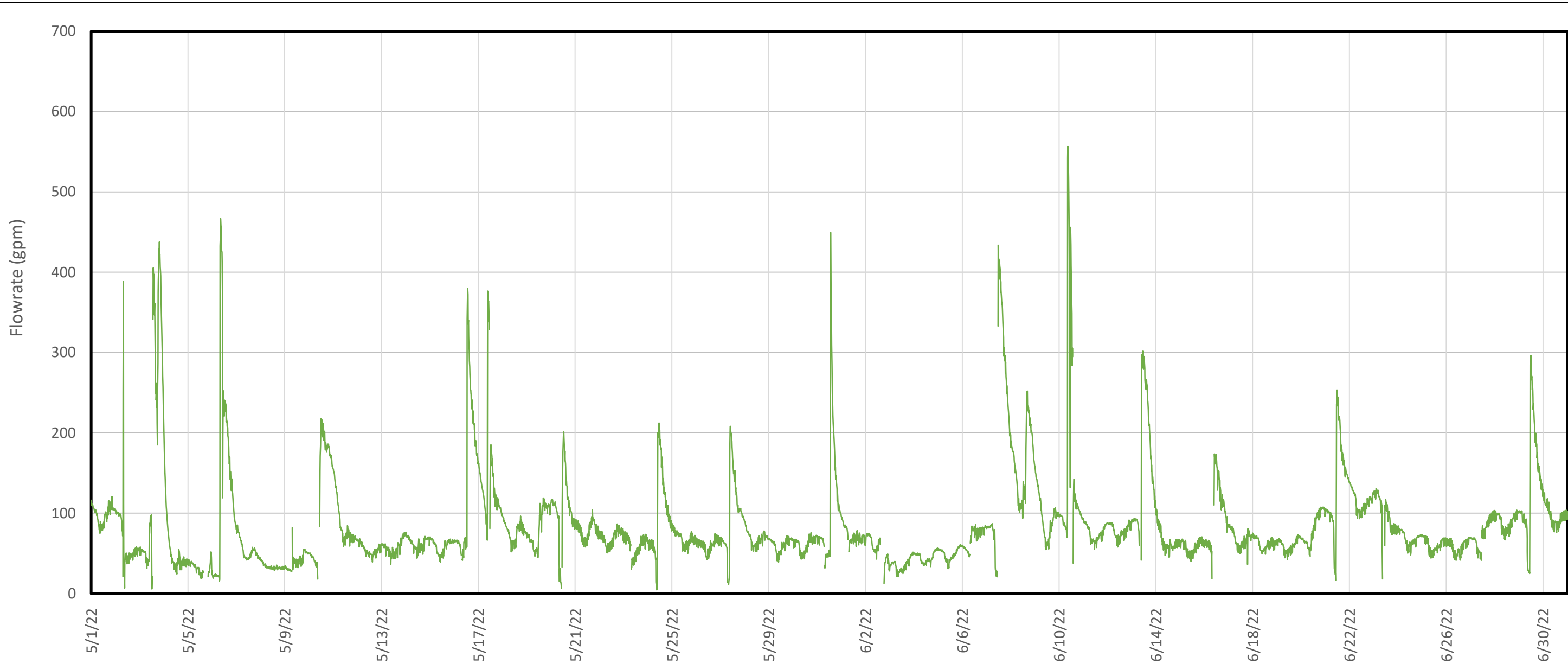
Legend

- River
- GAC Changeout

Notes:

As-built survey information for Seep C from RMA Surveying October 2020.
 River elevation from USGS Huske Lock and Dam site 02105500, converted to NAVD88.
 For clarity of presentation, Figure 1 shows Seep C elevations only.
 FB1/FB2 = Filter Bed 1/Filter Bed 2
 GAC = Granular Activated Carbon

River Level & FTC As-Built Elevations	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure 1	



Legend

— Measured Discharge Flowrate

Flowrate Statistics (gpm)

(05/01 - 06/30) Since Startup

Median	69	90
95 th percentile	203	273
Max	557	882

Notes:

gpm - gallons per minute

GAC - granular activated carbon

Figure 2a depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

**Measured Discharge Flowrate
(May - June 2022) - Seep A**

Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec[®]
consultants

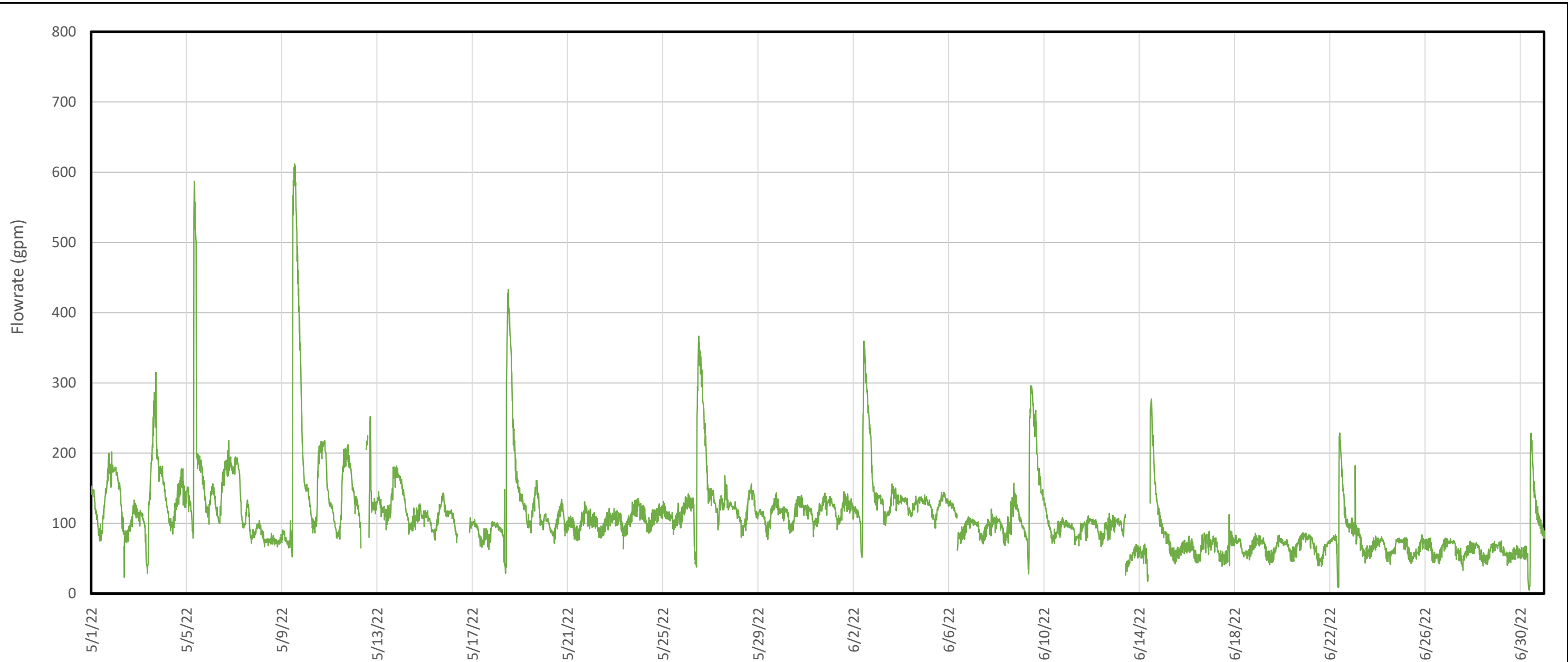
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Figure

2a

Raleigh, NC

July 2022



Legend
 — Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(05/01 - 06/30)	Since Startup
Median	102	127
95 th percentile	201	278
Max	612	1,153

Notes:

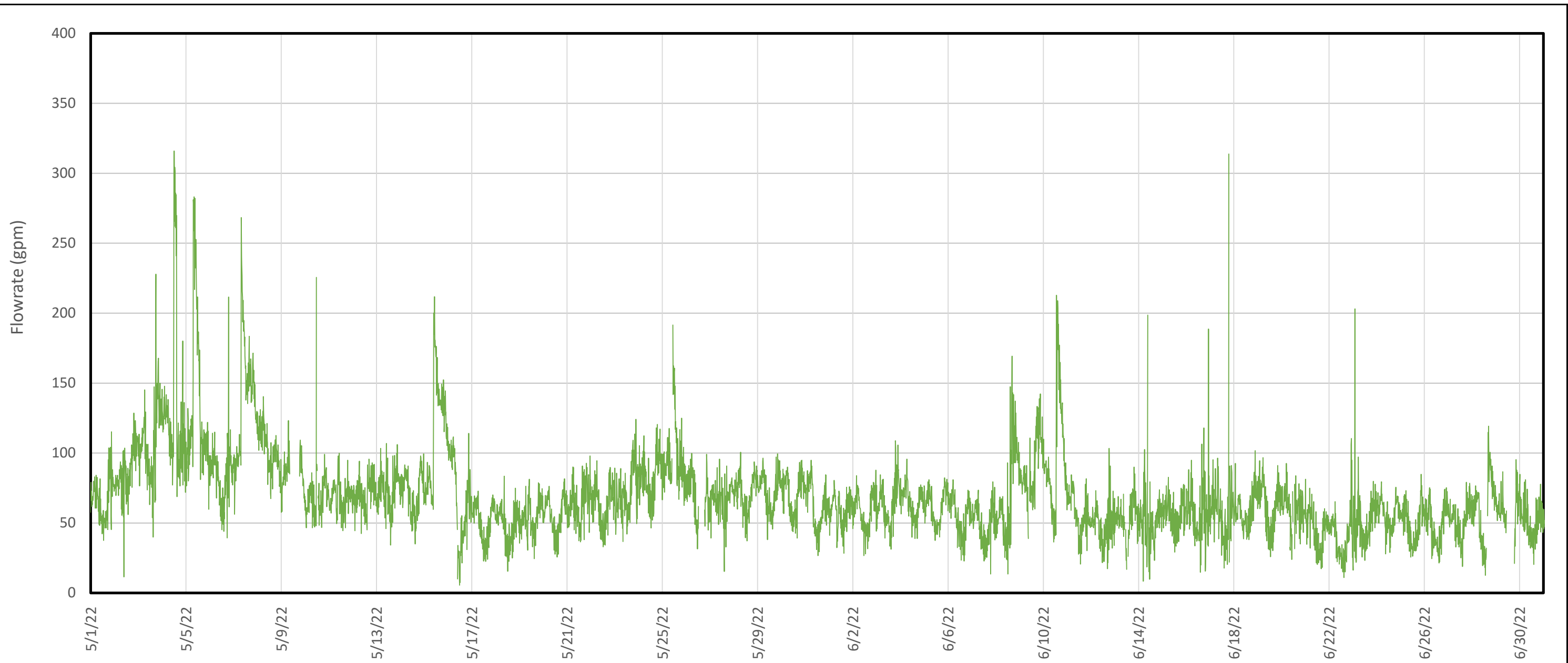
gpm - gallons per minute

GAC - granular activated carbon

Figure 2b depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

Measured Discharge Flowrate (May - June 2022) - Seep B Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022

Figure
2b



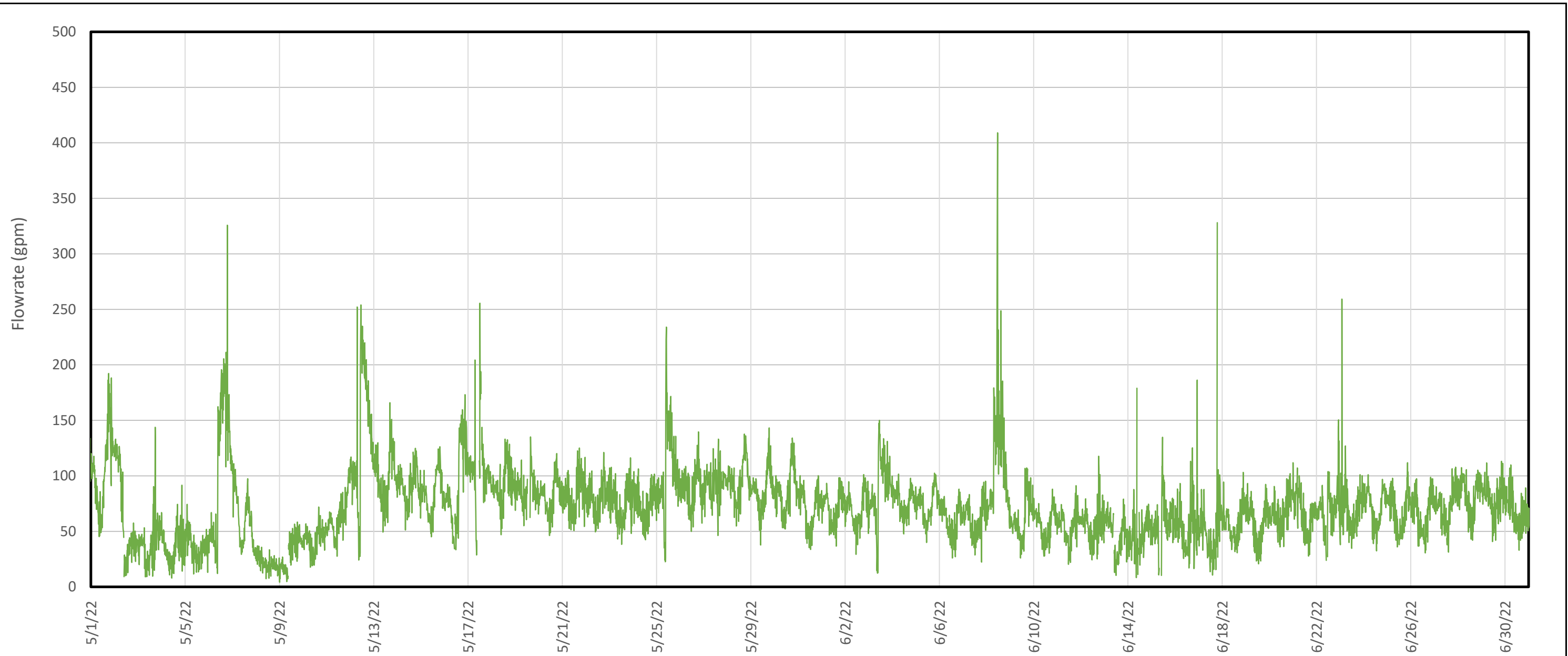
Legend
— Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(05/01 - 06/30)	Since Startup
Median	65	60
95 th percentile	122	147
Max	316	372

Notes:
 gpm - gallons per minute
 GAC - granular activated carbon
 Figure 2c depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

Measured Discharge Flowrate (May - June 2022) - Seep C	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure 2c	



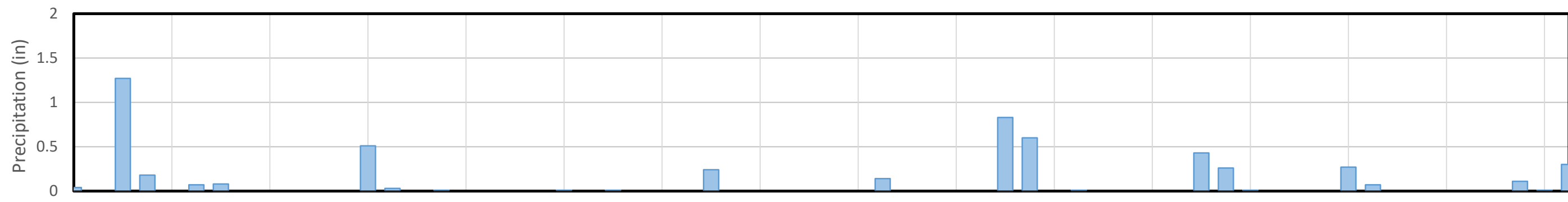
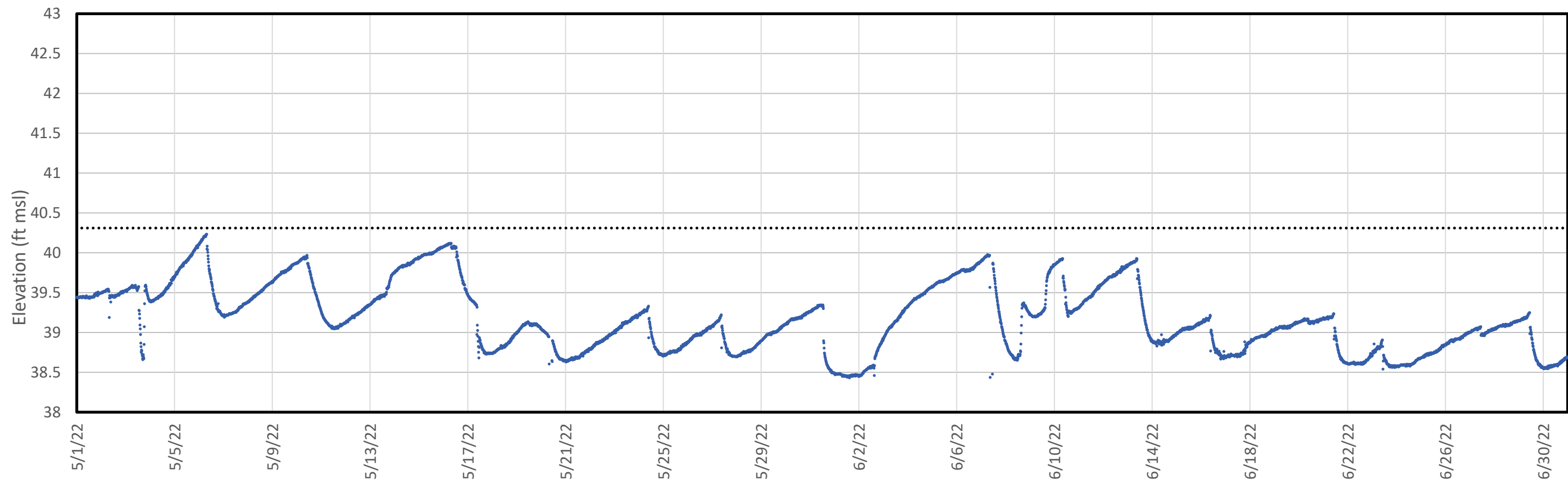
Legend
— Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(05/01 - 06/30)	Since Startup
Median	71	94
95 th percentile	125	293
Max	409	836

Notes:
 gpm - gallons per minute
 GAC - granular activated carbon
 Figure 2d depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

Measured Discharge Flowrate (May - June 2022) - Seep D Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	July 2022
Figure 2d	



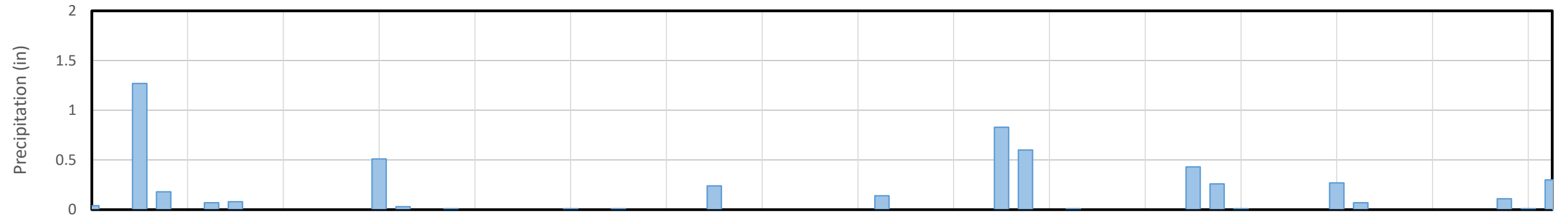
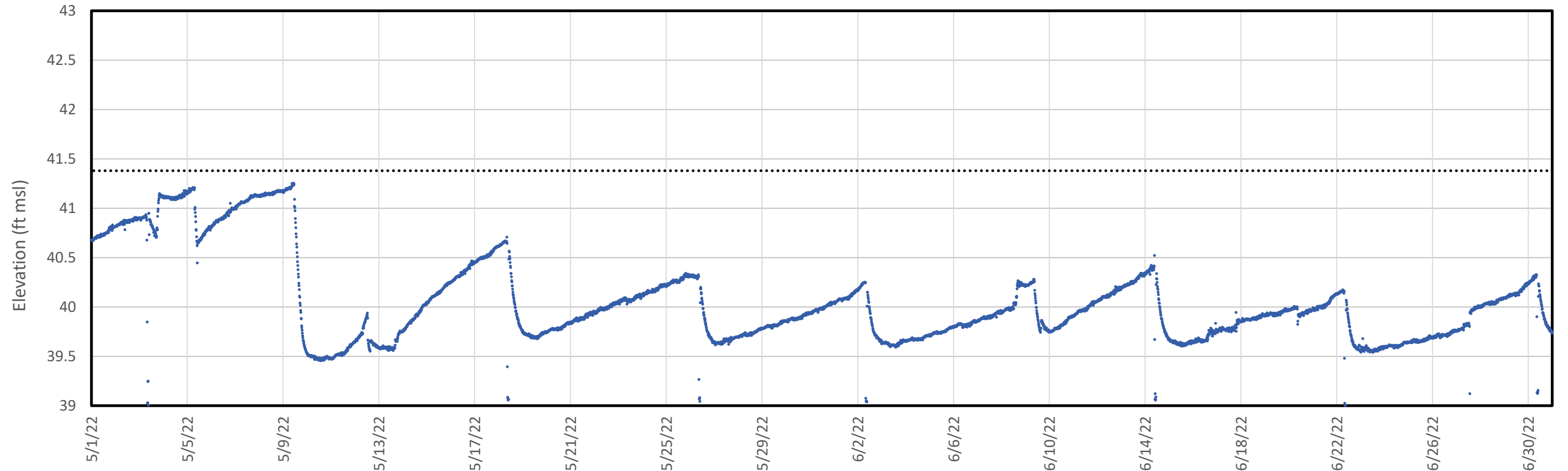
Legend

- Influent Chamber/Impoundment Water Elevation
- ◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)

Notes:

Figure 3a depicts the influent transducer data that was collected during the reporting period (blue line).
 Precipitation data obtained from USGS gauge #02105500 at the William O. Huske Lock and Dam.

Influent Water Elevation and Bypass Flow (May - June 2022) - Seep A	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	July 2022
Figure 3a	



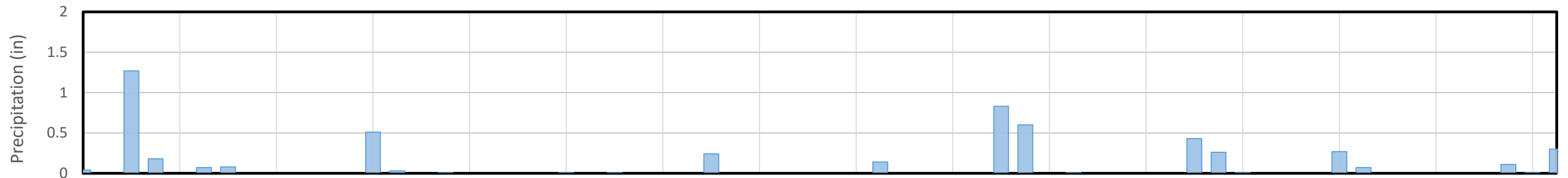
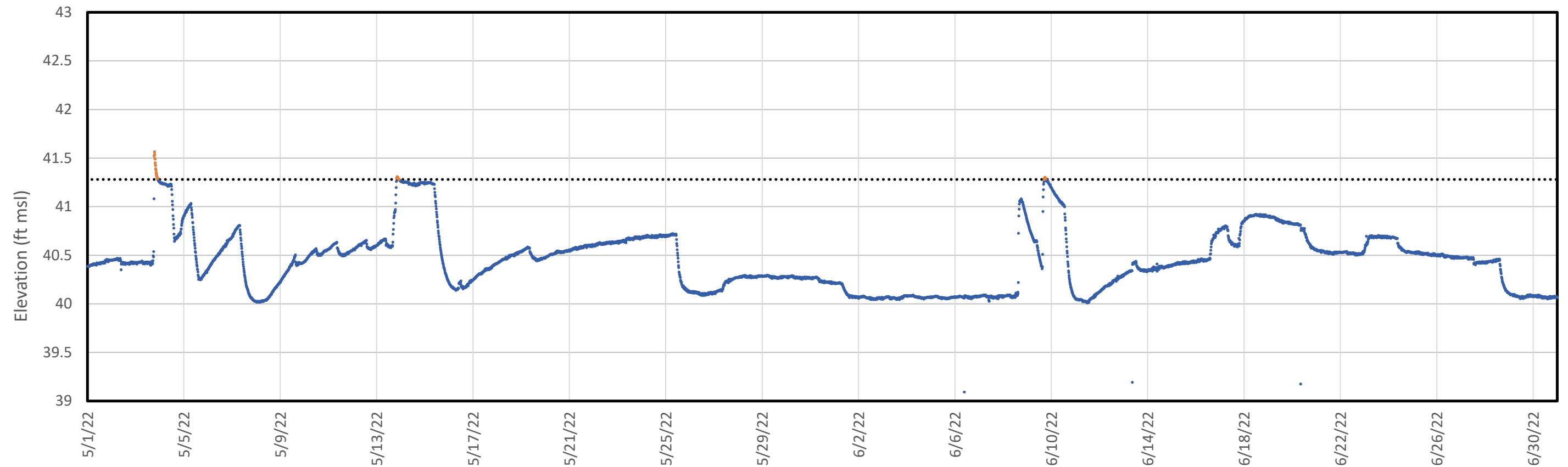
Legend

- Influent Chamber/Impoundment Water Elevation
- ◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)

Notes:

Figure 3b shows the influent transducer data that was collected during the reporting period (blue line).
 Precipitation data obtained from USGS gauge #02105500 at the William O. Huske Lock and Dam.

Influent Water Elevation and Bypass Flow (May - June 2022) - Seep B	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants <small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>	Figure 3b
Raleigh, NC	July 2022



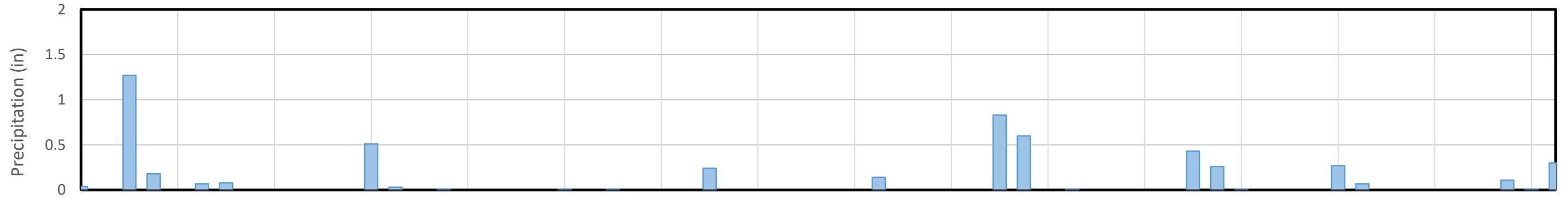
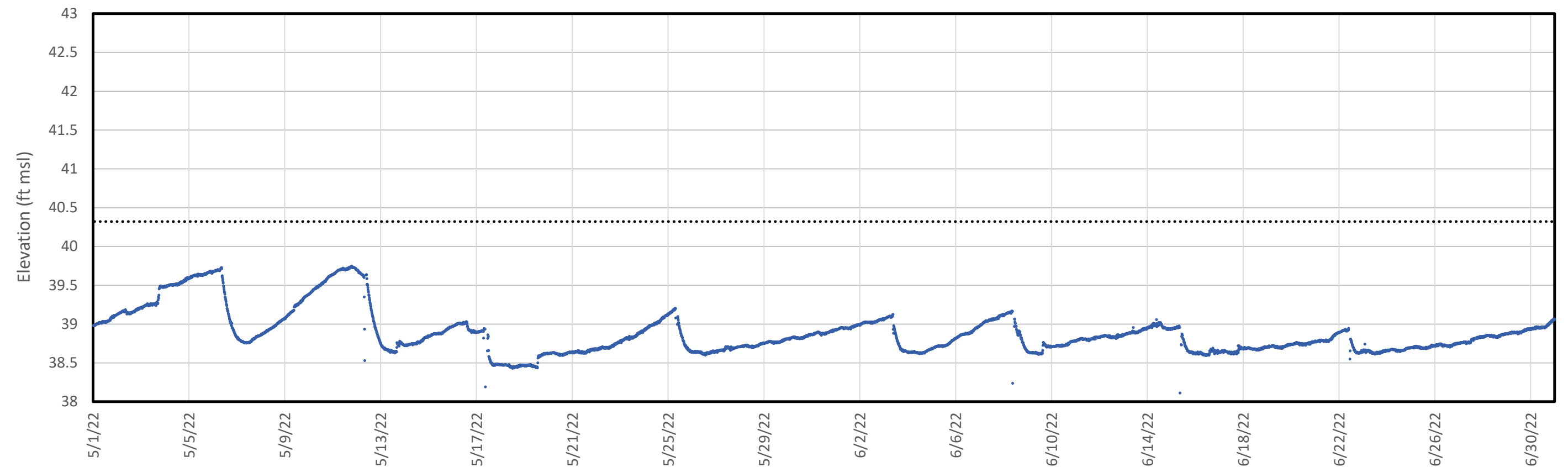
Legend

- Inflow Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- ◆◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)

Notes:

Figure 3c shows the influent transducer data that was collected during the reporting period (blue line). Instances of impoundment bypass flow are shown in orange. Precipitation data obtained from USGS gauge# 02105500 at the William O. Huske Lock and Dam.

Inflow Water Elevation and Bypass Flow (May - June 2022) - Seep C	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Figure 3c
Raleigh, NC	July 2022



Legend

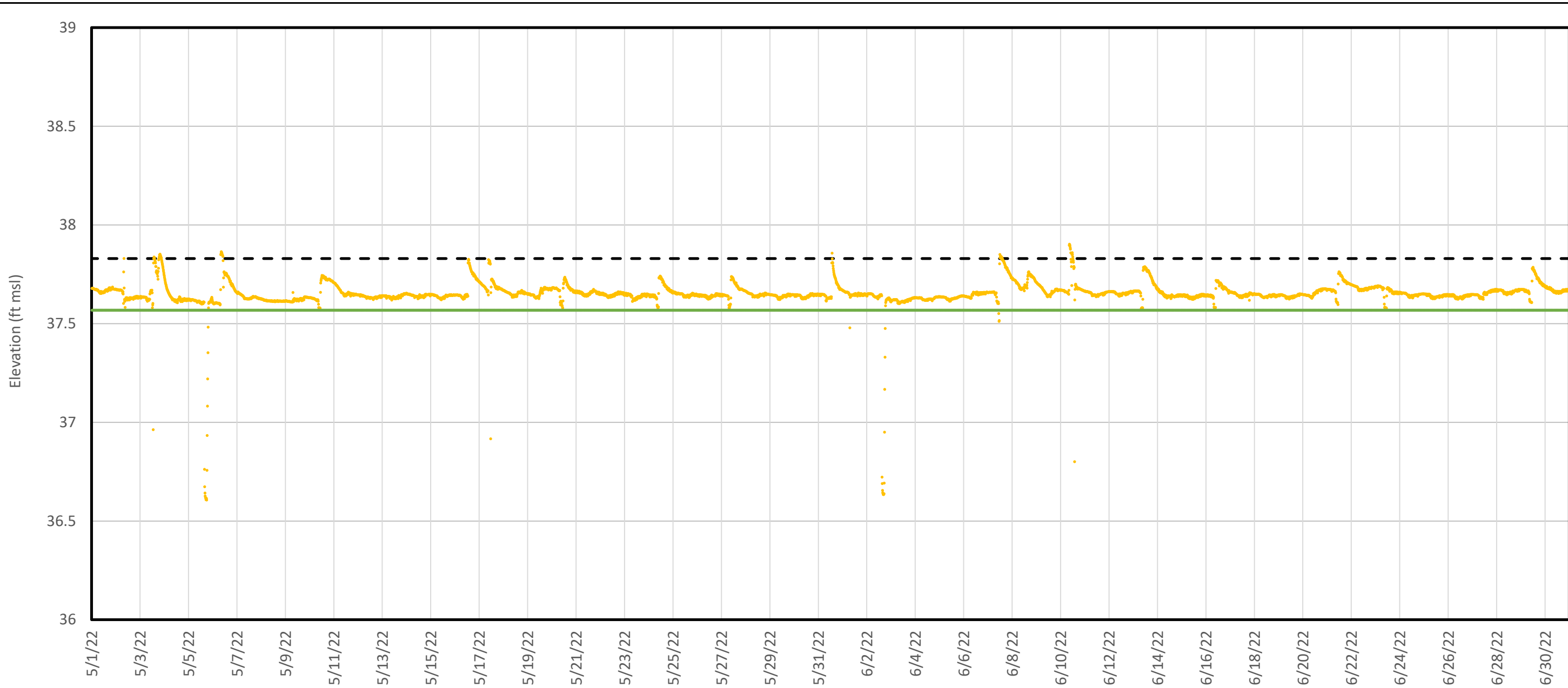
- Inlet Chamber/Impoundment Water Elevation
- ◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)

Notes:
 Figure 3d shows the inlet transducer data that was collected during the reporting period (blue line).
 Precipitation data obtained from USGS gauge# 02105500 at the William O. Huske Lock and Dam.

Inlet Water Elevation and Bypass Flow (May - June 2022) - Seep D	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	July 2022
Figure 3d	

APPENDIX A

Transducer Data Reduction



Legend

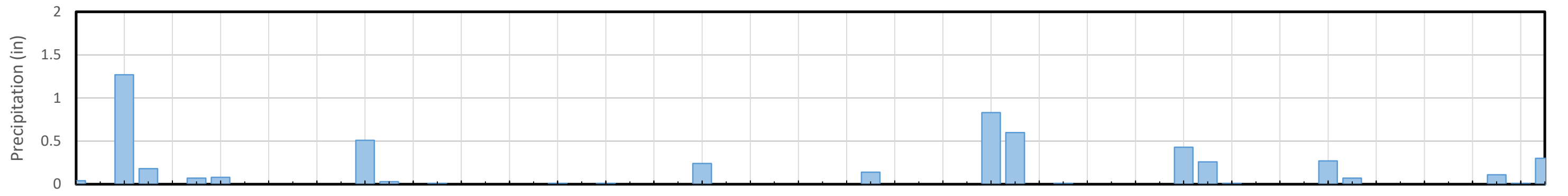
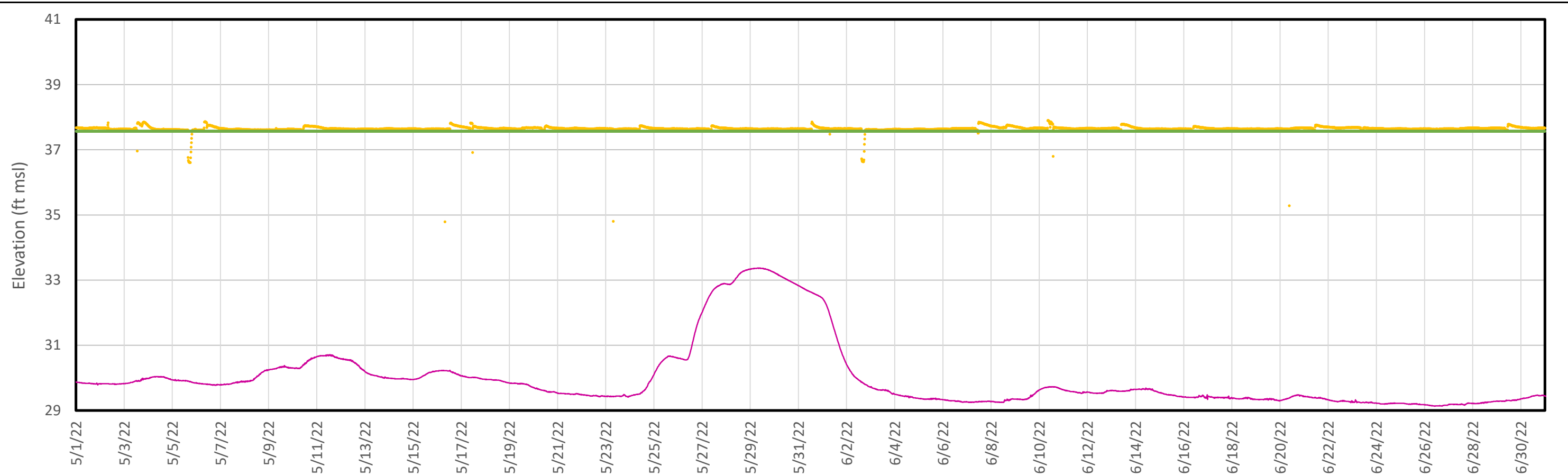
- Discharge Basin Elevation
- Weir 3 Elevation
- - - GAC Elevation

Notes:

GAC - granular activated carbon

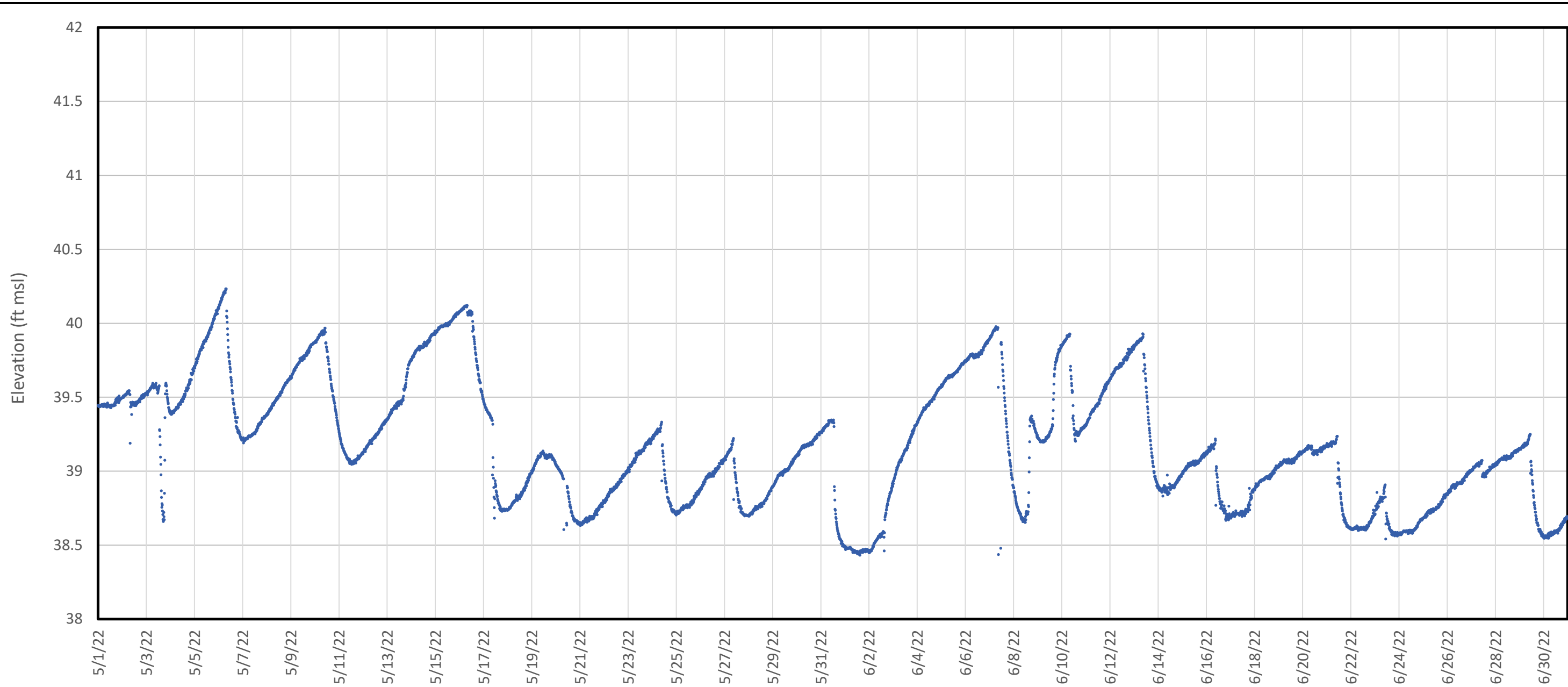
Figure A1-A shows the discharge basin transducer data that was collected during the reporting period.

Discharge Basin Water Elevation - Seep A	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C. 3500 and C. 295</small>
Raleigh, NC	July 2022
Figure A1-A	



Notes:
 As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-A compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

Discharge Basin Water Elevation and External Forcings - Seep A	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A2-A	



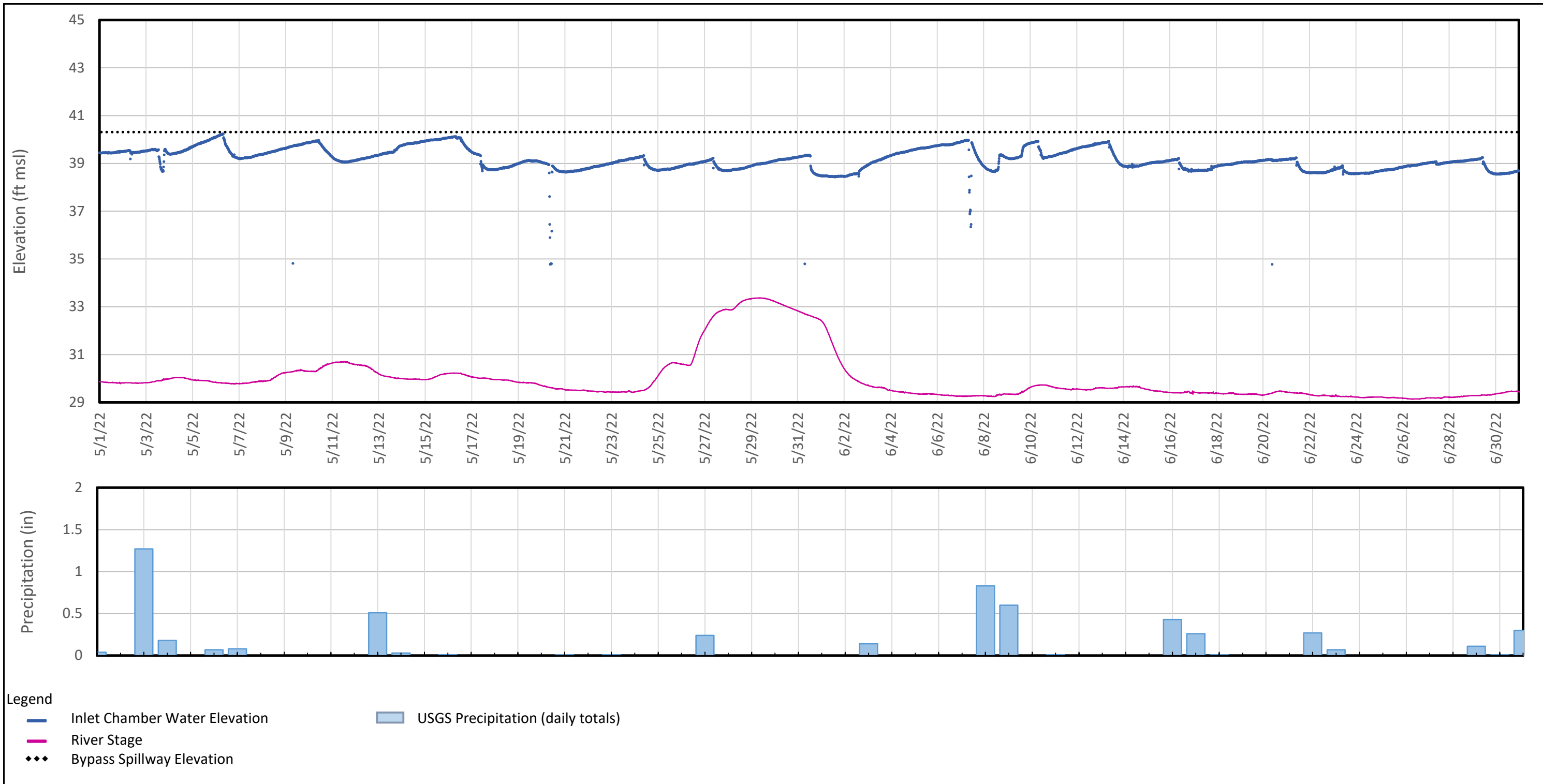
Legend

— Inlet Chamber/Impoundment Elevation

Notes:

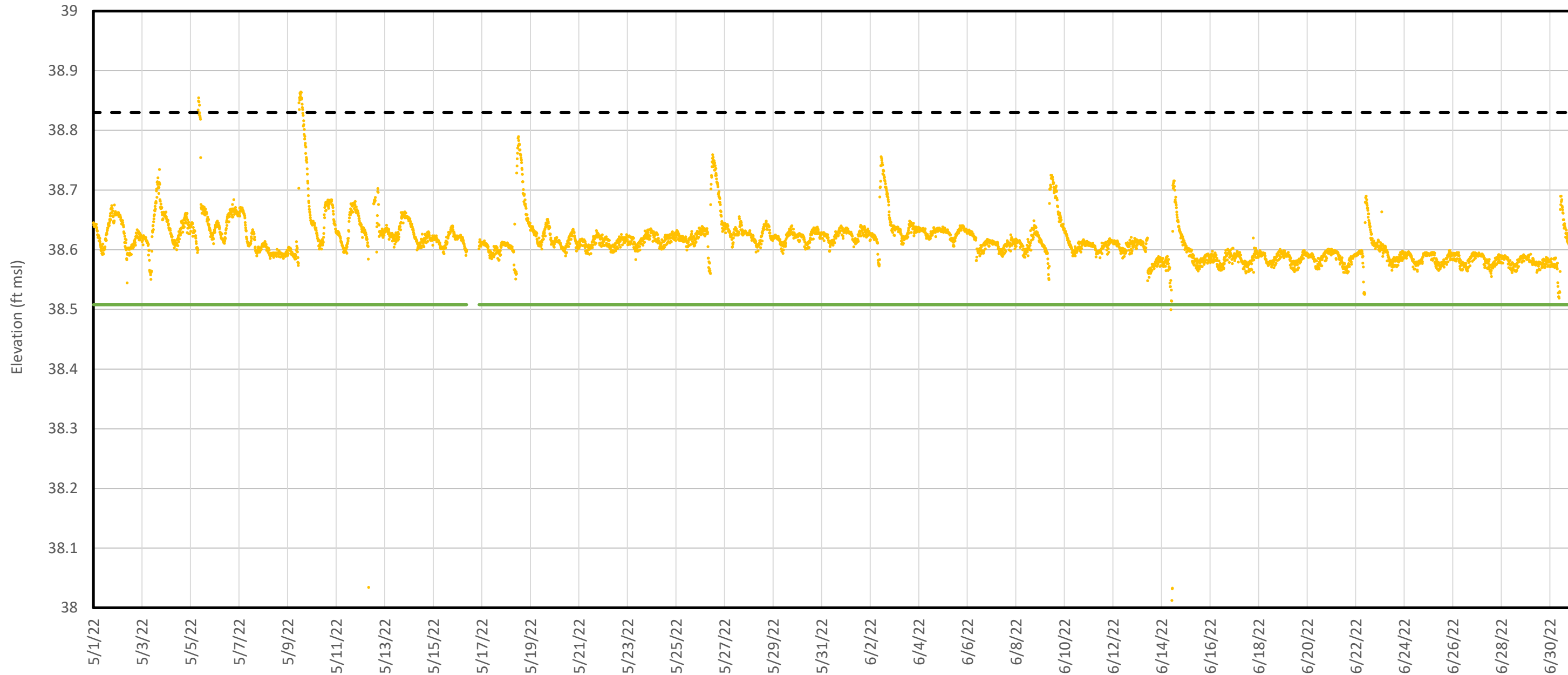
Figure A3-A shows the influent transducer data that was collected during the reporting period.

Inlet Chamber Water Elevation - Seep A Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A3-A	



Notes:
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-A compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

Inlet Chamber Water Elevation and External Forcings - Seep A Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A4-A	



Legend

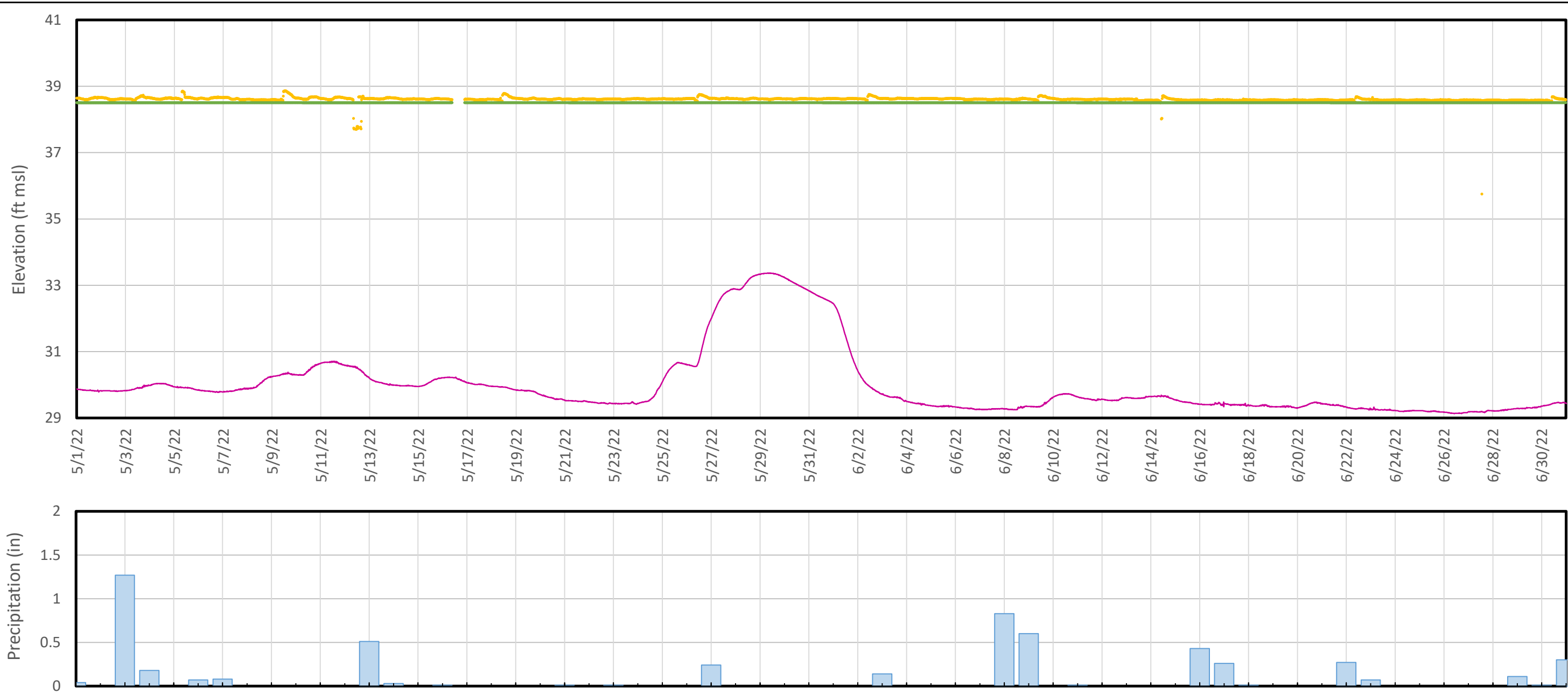
- Discharge Basin Elevation
- Weir 3 Elevation
- - - GAC Elevation

Notes:

GAC - granular activated carbon

Figure A1-B shows the discharge basin transducer data that was collected during the reporting period.

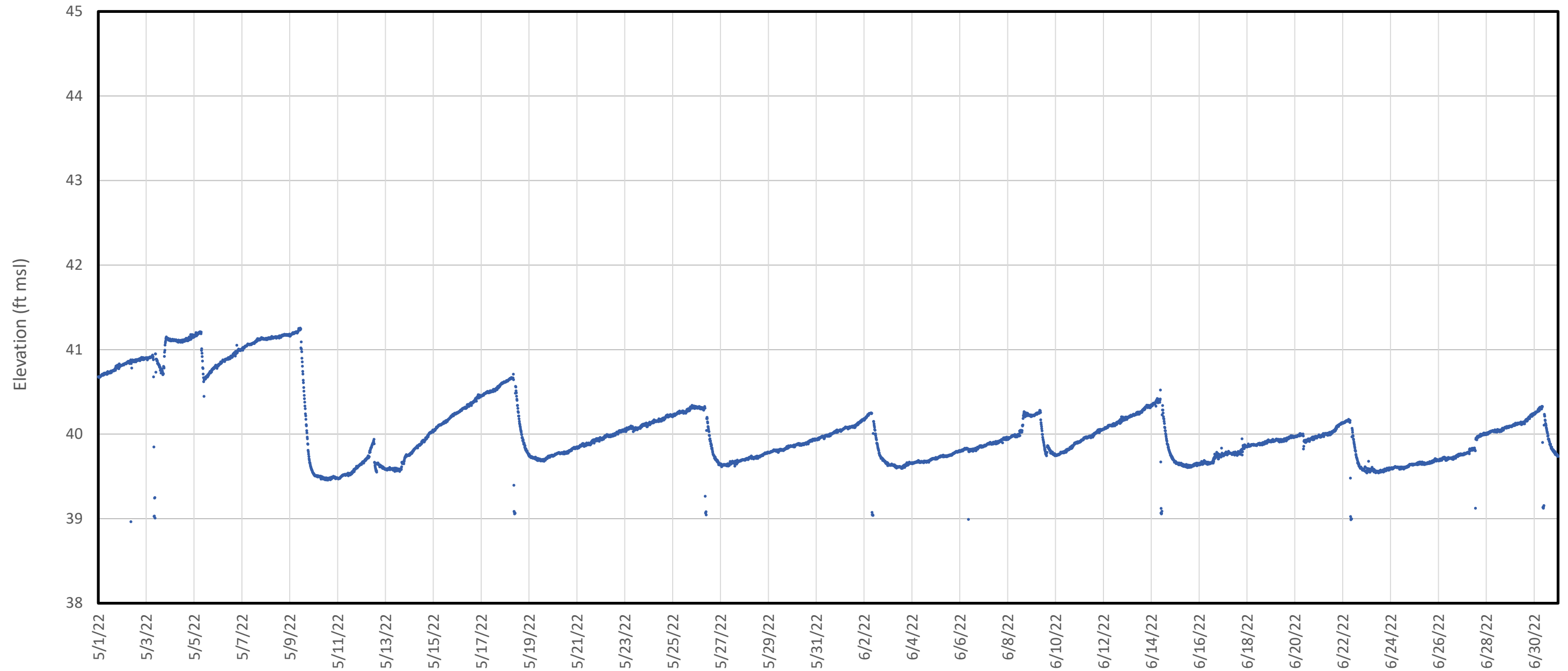
Discharge Basin Water Elevation - Seep B	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A1-B	



- Legend**
- Discharge Basin Water Elevation
 - River Stage
 - Weir 3 Elevation
 - █ USGS Precipitation (daily totals)

Notes:
 As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-B compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

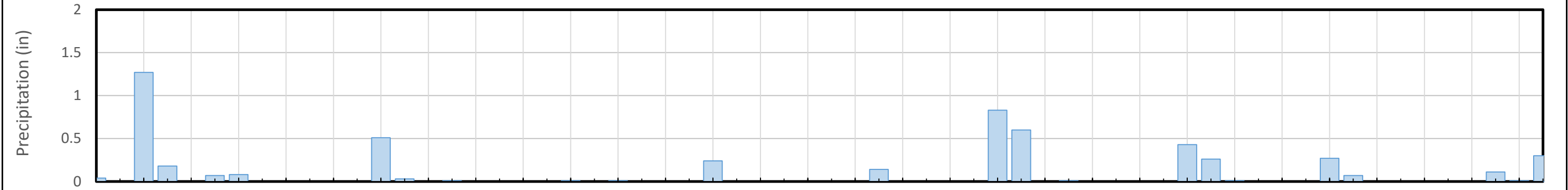
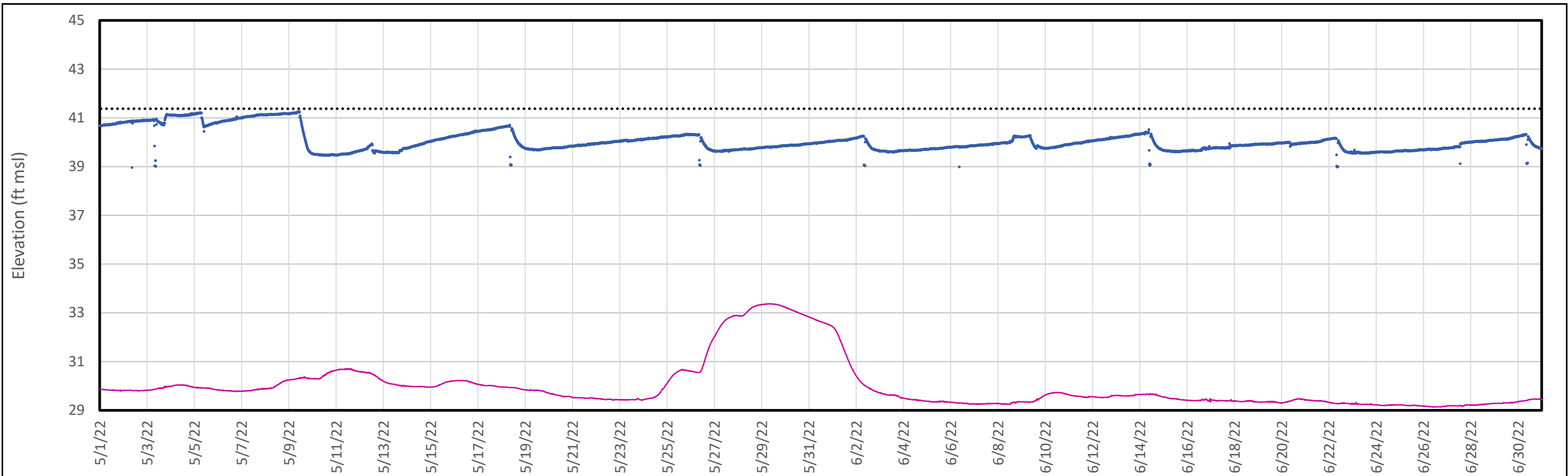
Discharge Basin Water Elevation and External Forcings - Seep B	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec <small>consultants</small>	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A2-B	



Legend
— Inlet Chamber/Impoundment Elevation

Notes:
 Figure A3-B shows the influent transducer data that was collected during the reporting period.

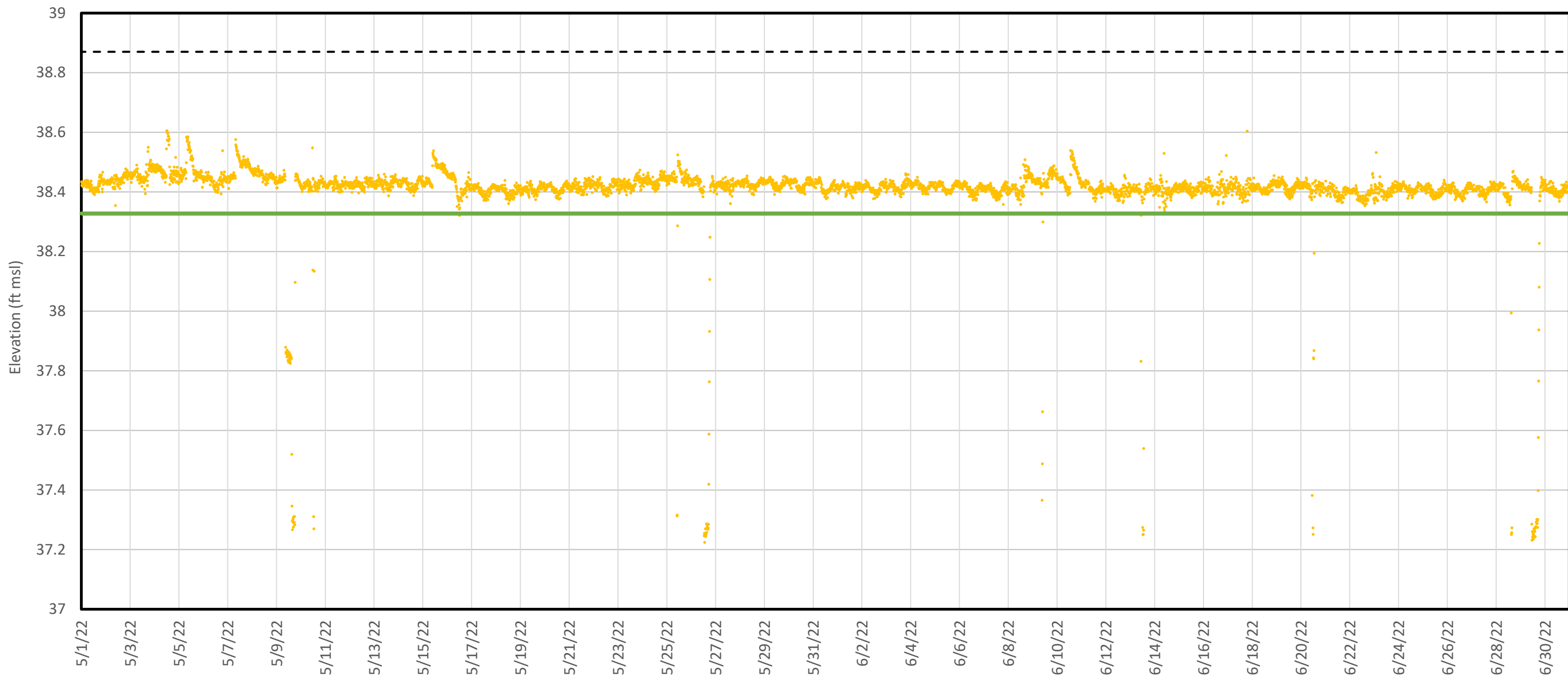
Inlet Chamber Water Elevation - Seep B	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	July 2022
Figure A3-B	



- Legend
- Inlet Chamber Water Elevation
 - River Stage
 - ◆◆◆ Bypass Spillway Elevation
 - USGS Precipitation (daily totals)

Notes:
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-B compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

Inlet Chamber Water Elevation and External Forcings - Seep B	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A4-B	



Legend

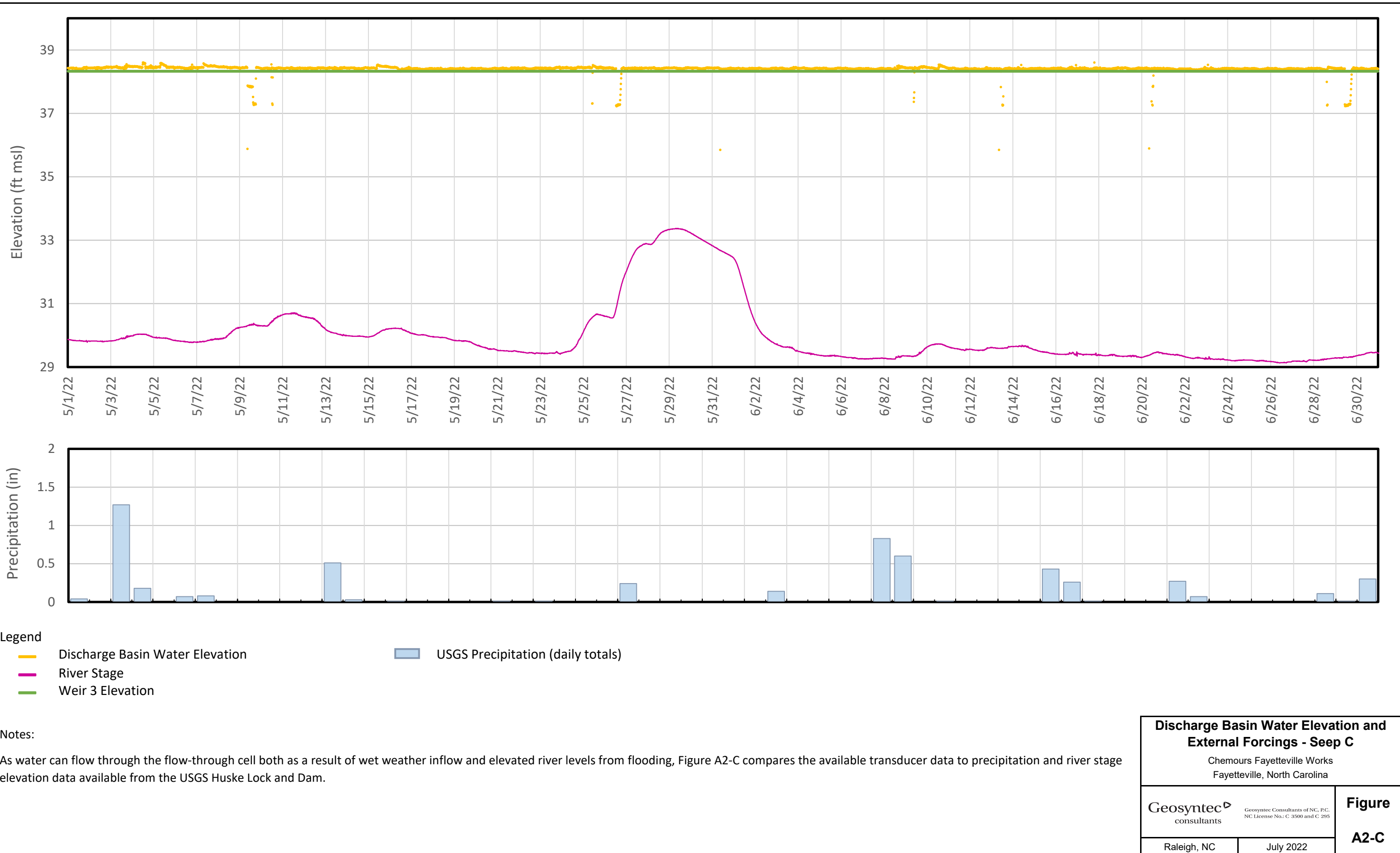
- Discharge Basin Elevation
- Weir 3 Elevation
- - - GAC Elevation

Notes:

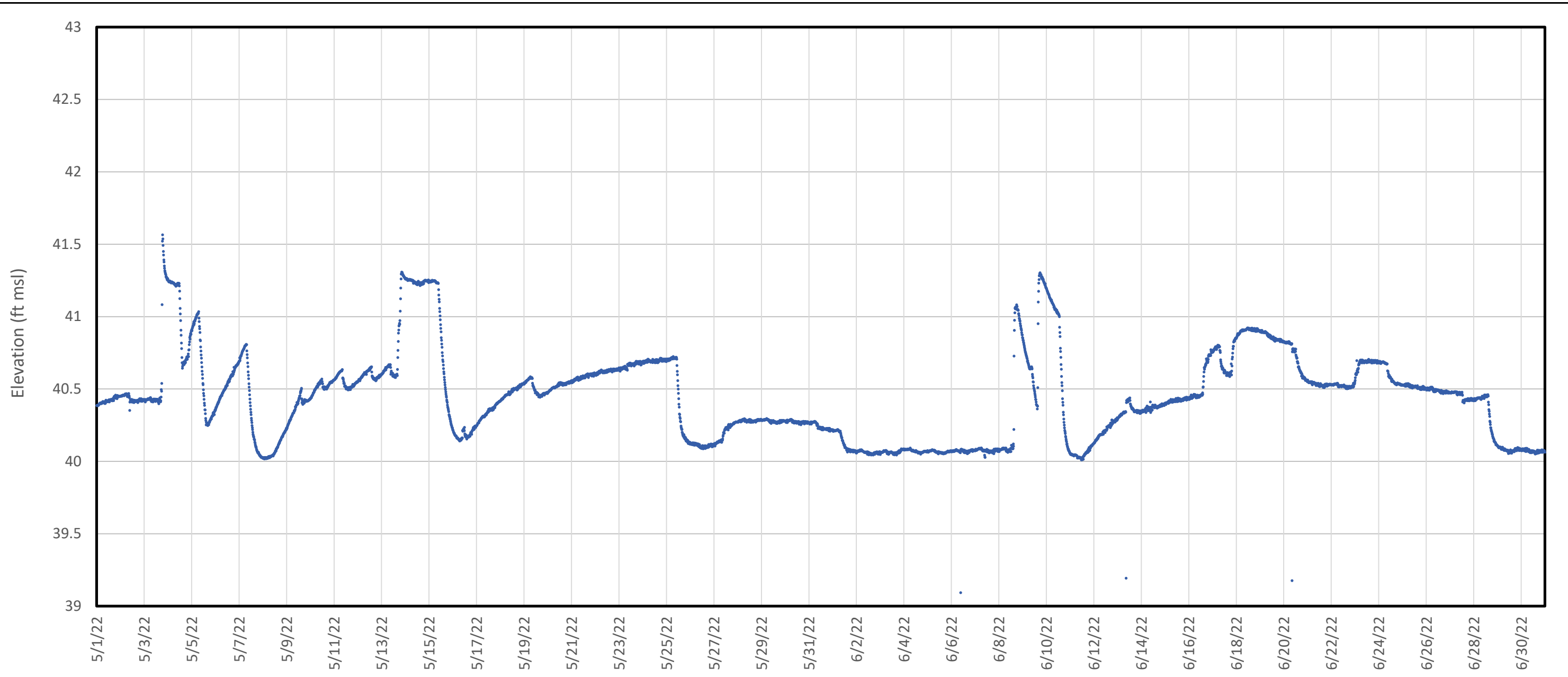
GAC - granular activated carbon

Figure A1-C shows the discharge basin transducer data that was collected during the reporting period.

Discharge Basin Water Elevation - Seep C	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A1-C	



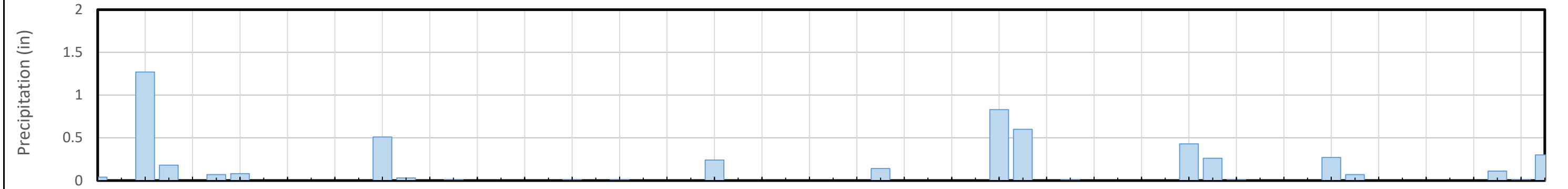
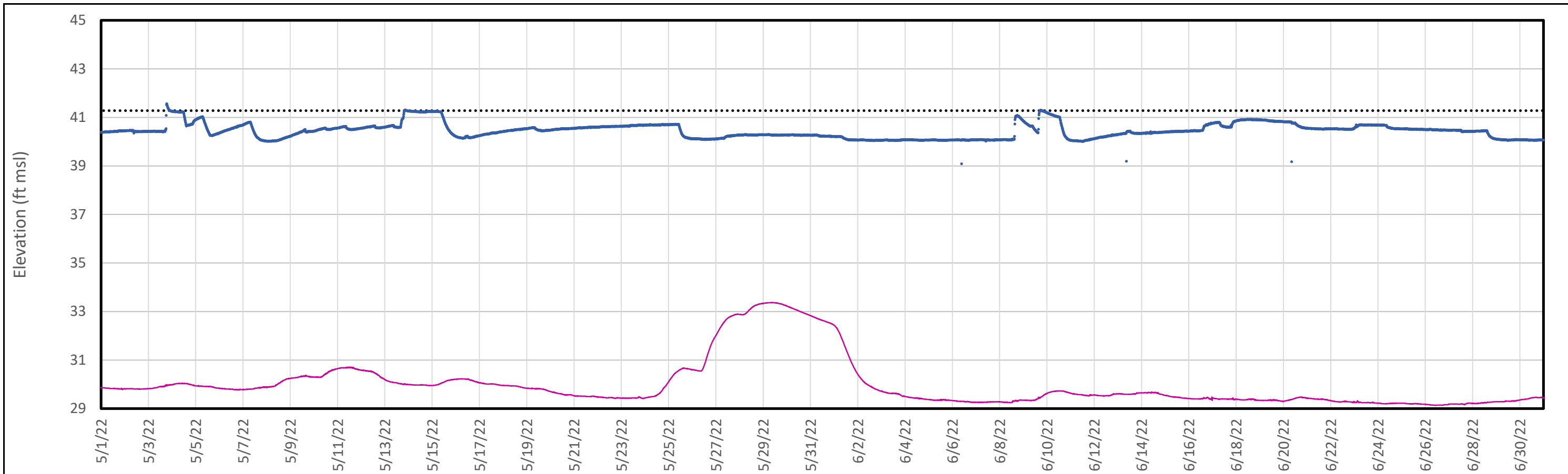
Discharge Basin Water Elevation and External Forcings - Seep C Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022
Figure A2-C	



Legend
— Inlet Chamber/Impoundment Elevation

Notes:
 Figure A3-C shows the influent transducer data that was collected during the reporting period.

Inlet Chamber Water Elevation - Seep C	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	July 2022
Figure A3-C	



- Legend
- Inlet Chamber Water Elevation
 - River Stage
 - ◆◆◆ Bypass Spillway Elevation
 - USGS Precipitation (daily totals)

Notes:
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-C compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

Inlet Chamber Water Elevation and External Forcings - Seep C	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: G 3500 and C 295
Raleigh, NC	July 2022
Figure A4-C	



Legend

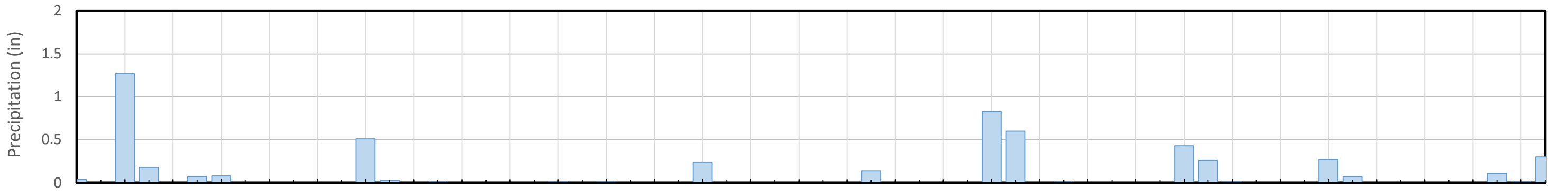
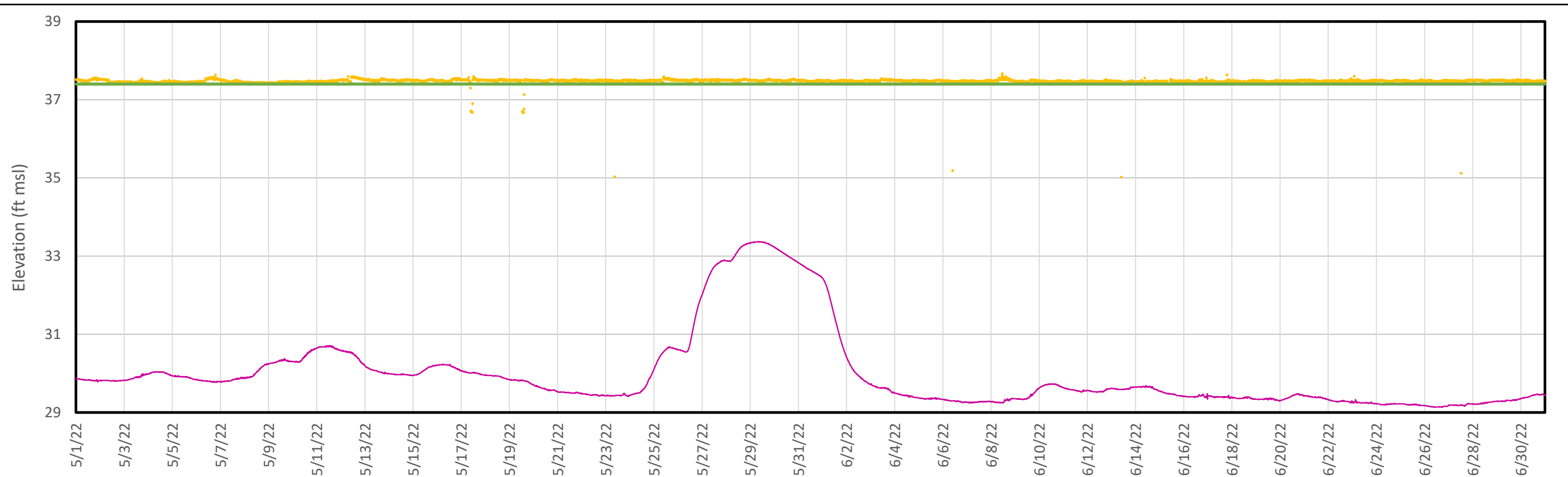
- Discharge Basin Elevation
- Weir 3 Elevation
- - - GAC Elevation

Notes:

GAC - granular activated carbon

Figure A1-D shows the discharge basin transducer data that was collected during the reporting period.

Discharge Basin Water Elevation - Seep D	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	July 2022
Figure A1-D	

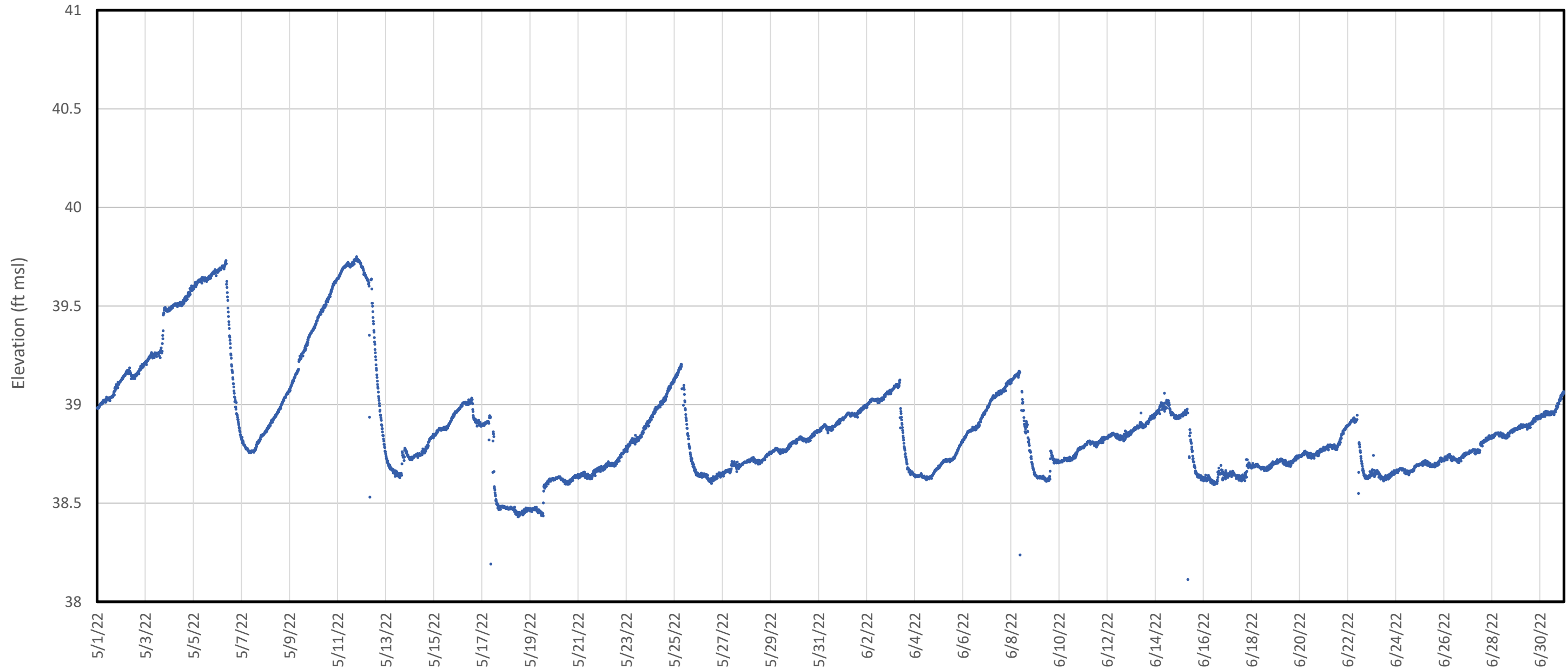


Legend

- Discharge Basin Water Elevation
- River Stage
- Weir 3 Elevation
- █ USGS Precipitation (daily totals)

Notes:
 As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-D compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

Discharge Basin Water Elevation and External Forcings - Seep D	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	July 2022
Figure A2-D	

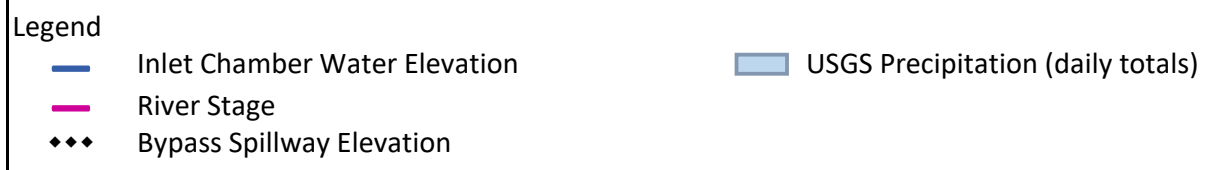
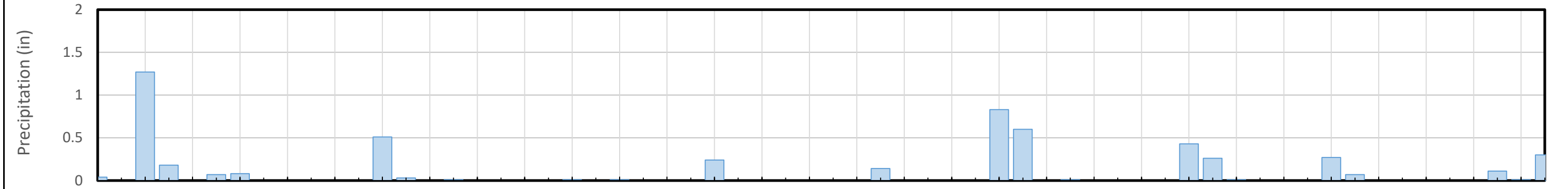
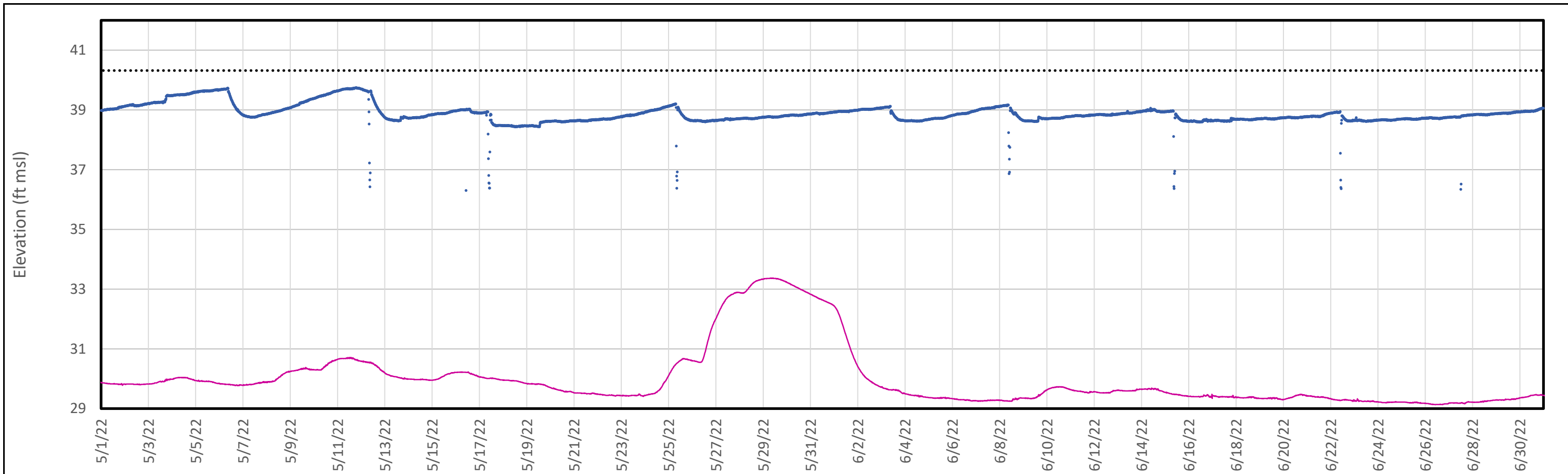


Legend
— Inlet Chamber/Impoundment Elevation

Notes:
 Figure A3-D shows the influent transducer data that was collected during the reporting period.

Inlet Chamber Water Elevation - Seep D Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec [®] consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	July 2022

**Figure
 A3-D**



Notes:
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-D compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

Inlet Chamber Water Elevation and External Forcings - Seep D	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: G 3500 and C 295
Raleigh, NC	July 2022
Figure A4-D	

APPENDIX B
Laboratory Analytical Data Review Narrative
(Full lab reports to be uploaded to OneDrive and EQUIS)

ADQM Data Review

Site: Chemours Fayetteville

Project: Seep Flow Through Cell Sampling 2022 (select lots)

Project Reviewer: Michael Aucoin

Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time
SEEP-C-INFLUENT-RAIN-24-050422	320-87625-1	Other liquid	N	05/04/2022	18:07
SEEP-C-EFFLUENT-RAIN-24-050422	320-87625-2	Other liquid	N	05/04/2022	18:07
SEEP-D-INFLUENT-RAIN-24-050422	320-87625-3	Other liquid	N	05/04/2022	17:47
SEEP-D-EFFLUENT-RAIN-24-050422	320-87625-4	Other liquid	N	05/04/2022	17:47
SEEP-A-INFLUENT-RAIN-24-050422	320-87625-5	Other liquid	N	05/04/2022	16:51
SEEP-A-EFFLUENT-RAIN-24-050422	320-87625-6	Other liquid	N	05/04/2022	16:47
SEEP-B-INFLUENT-RAIN-24-050422	320-87625-7	Other liquid	N	05/04/2022	17:48
SEEP-B-EFFLUENT-RAIN-24-050422	320-87625-8	Other liquid	N	05/04/2022	17:49
SEEP-EQBLK-050522	320-87625-9	Blank Water	N	05/05/2022	13:00
SEEP-B-INFLUENT-336-051522	320-87934-1	Other liquid	N	05/15/2022	14:00
SEEP-B-EFFLUENT-336-051522	320-87934-2	Other liquid	N	05/15/2022	14:00
SEEP-D-INFLUENT-336-051522	320-87934-3	Other liquid	N	05/15/2022	14:00
SEEP-D-EFFLUENT-336-051522	320-87934-4	Other liquid	N	05/15/2022	14:00
SEEP-C-INFLUENT-336-051522	320-87934-5	Other liquid	N	05/15/2022	14:00

SEEP-C-EFFLUENT-336-051522	320-87934-6	Other liquid	N	05/15/2022	14:00
SEEP-A-INFLUENT-336-051522	320-87934-7	Other liquid	N	05/15/2022	14:00
SEEP-A-EFFLUENT-336-051522	320-87934-8	Other liquid	N	05/15/2022	14:00
SEEP-FBLK-051622	320-87934-9	Blank Water	N	05/16/2022	13:30
SEEP-A-INFLUENT-330-053022	320-88465-1	Other liquid	N	05/30/2022	11:00
SEEP-A-EFFLUENT-336-053022	320-88465-2	Other liquid	N	05/30/2022	11:00
SEEP-C-INFLUENT-336-053022	320-88465-3	Other liquid	N	05/30/2022	11:00
SEEP-C-EFFLUENT-336-053022	320-88465-4	Other liquid	N	05/30/2022	11:00
SEEP-D-INFLUENT-330-053022	320-88465-5	Other liquid	N	05/30/2022	11:00
SEEP-D-EFFLUENT-336-053022	320-88465-6	Other liquid	N	05/30/2022	11:00
SEEP-B-EFFLUENT-336-053022	320-88465-7	Other liquid	N	05/30/2022	11:00
SEEP-B-INFLUENT-318-053022	320-88465-8	Other Liquid	N	05/30/2022	05:00
SEEP-FBLK-053122	320-88465-9	Blank Water	N	05/31/2022	11:45
SEEP-A-INFLUENT-RAIN-24-060922	320-88963-1	Other liquid	N	06/09/2022	13:48
SEEP-A-EFFLUENT-RAIN-24-060922	320-88963-2	Other liquid	N	06/09/2022	13:52
SEEP-C-INFLUENT-RAIN-24-060922	320-88963-3	Other liquid	N	06/09/2022	14:52
SEEP-C-EFFLUENT-RAIN-24-060922	320-88963-4	Other liquid	N	06/09/2022	14:52
SEEP-D-INFLUENT-RAIN-24-060922	320-88963-5	Other liquid	N	06/09/2022	14:53

SEEP-D-EFFLUENT-RAIN-24-060922	320-88963-6	Other liquid	N	06/09/2022	14:53
SEEP-B-EFFLUENT-RAIN-24-060922	320-88963-7	Other liquid	N	06/09/2022	14:50
SEEP-B-INFLUENT-RAIN-24-060922	320-88963-8	Other liquid	N	06/09/2022	14:50
SEEP-EQBLK-061022	320-88963-9	Blank Water	N	06/10/2022	14:30
SEEP-A-INFLUENT-336-061522	320-89127-1	Other liquid	N	06/15/2022	02:00
SEEP-B-EFFLUENT-336-061522-D	320-89127-10	Other liquid	N	06/15/2022	02:00
SEEP-A-EFFLUENT-336-061522	320-89127-2	Other liquid	N	06/15/2022	02:00
SEEP-C-INFLUENT-336-061522	320-89127-3	Other liquid	N	06/15/2022	02:00
SEEP-C-EFFLUENT-336-061522	320-89127-4	Other liquid	N	06/15/2022	02:00
SEEP-D-INFLUENT-336-061522	320-89127-5	Other liquid	N	06/15/2022	02:00
SEEP-D-EFFLUENT-336-061522	320-89127-6	Other liquid	N	06/15/2022	02:00
SEEP-B-EFFLUENT-336-061522	320-89127-7	Other liquid	N	06/15/2022	02:00
SEEP-B-INFLUENT-336-061522	320-89127-8	Other liquid	N	06/15/2022	02:00
SEEP-FBLK-061522	320-89127-9	Blank Water	N	06/15/2022	12:00
SEEP-A-INFLUENT-336-063022	320-89628-1	Other Liquid	N	06/30/2022	10:00
SEEP-A-EFFLUENT-336-063022	320-89628-2	Other Liquid	N	06/30/2022	10:00
SEEP-C-INFLUENT-336-063022	320-89628-3	Other Liquid	N	06/30/2022	10:00
SEEP-C-EFFLUENT-336-063022	320-89628-4	Other Liquid	N	06/30/2022	10:00

SEEP-D- INFLUENT- 336-063022	320-89628-5	Other Liquid	N	06/30/2022	10:00
SEEP-D- EFFLUENT- 336-063022	320-89628-6	Other Liquid	N	06/30/2022	10:00
SEEP-B- EFFLUENT- 336-063022	320-89628-7	Other Liquid	N	06/30/2022	10:00
SEEP-B- INFLUENT- 132-063022	320-89628-8	Other Liquid	N	06/30/2022	10:00

* FS=Field Sample
DUP=Field Duplicate
FB=Field Blank
EB=Equipment Blank
TB=Trip Blank

Analytical Protocol

Lab Name ¹	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)	Seep Flow Through Cell Sampling 2022

¹ This laboratory name changed to Eurofins Environmental Testing Northern California (former TestAmerica Sacramento), effective January 1, 2022.

ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?	X				
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?	X				
E	Were QA/QC criteria met by the laboratory (method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, duplicates/replicates, surrogates, total/dissolved differences/RPDs, sample results within calibration range)?		X	X		
F	Were field/equipment/trip blanks (if collected) detected at levels not requiring sample data qualification?		X	X		
G	Were all data usable and not R qualified?	X				
ER#	Description:					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Lab Report, or ER # for further details as indicated.

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process. The data is acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Verification Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs

There are two qualifier fields in EIM:

Lab Qualifier is the qualifier assigned by the lab and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the lab qualifiers. As they are lab descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the lab qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to "DVM" if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals "DVM"), use the **Validation Qualifier**.

If the data has been validated by a third party, the field "**Validated By**" will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Fayetteville

Sampling Program: Seep Flow Through Cell Sampling 2022

Validation Options: LABSTATS

Validation Reason Code: Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-RAIN-24-050422	05/04/2022	320-87625-8	PFO2HxA	0.0033	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-24-050422	05/04/2022	320-87625-8	PFMOAA	0.019	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: Seep Flow Through Cell Sampling 2022

Validation Options: LABSTATS

Validation Reason Code: 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 Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-336-053022	05/30/2022	320-88465-7	PFMOAA	0.059	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-053022	05/30/2022	320-88465-2	PFMOAA	0.057	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: Seep Flow Through Cell Sampling 2022

Validation Options:

LABSTATS

Validation Reason Code: The result exceeds the calibration range of the instrument and should be considered estimated.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-8	Hydrolyzed PSDA	30	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-330-053022	05/30/2022	320-88465-1	R-PSDA	2.9	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-330-053022	05/30/2022	320-88465-1	Hydrolyzed PSDA	42	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-330-053022	05/30/2022	320-88465-1	R-EVE	1.6	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-053022	05/30/2022	320-88465-7	Hydrolyzed PSDA	0.0030	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-24-050422	05/04/2022	320-87625-6	R-PSDA	0.012	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-24-050422	05/04/2022	320-87625-6	Hydrolyzed PSDA	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-5	R-PSDA	1.9	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-5	Hydrolyzed PSDA	23	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-5	R-EVE	0.84	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-7	R-PSDA	2.5	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-7	Hydrolyzed PSDA	23	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-7	R-EVE	1.5	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-1	R-PSDA	0.39	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-1	Hydrolyzed PSDA	0.60	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-1	R-EVE	0.30	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-3	R-PSDA	0.63	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-3	Hydrolyzed PSDA	1.6	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-050422	05/04/2022	320-87625-3	R-EVE	0.78	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EQBLK-050522	05/05/2022	320-87625-9	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-051522	05/15/2022	320-87934-8	R-PSDA	0.010	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-051522	05/15/2022	320-87934-8	Hydrolyzed PSDA	0.11	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-051522	05/15/2022	320-87934-8	R-EVE	0.0061	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-051522	05/15/2022	320-87934-7	R-PSDA	2.0	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-336-051522	05/15/2022	320-87934-7	Hydrolyzed PSDA	26	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-051522	05/15/2022	320-87934-7	R-EVE	1.1	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-051522	05/15/2022	320-87934-2	Hydrolyzed PSDA	0.0027	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-051522	05/15/2022	320-87934-1	R-PSDA	3.3	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-051522	05/15/2022	320-87934-1	Hydrolyzed PSDA	26	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-051522	05/15/2022	320-87934-1	R-EVE	1.6	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-051522	05/15/2022	320-87934-6	Hydrolyzed PSDA	0.0058	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-051522	05/15/2022	320-87934-6	R-EVE	0.0057	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-051522	05/15/2022	320-87934-5	Hydrolyzed PSDA	0.75	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-051522	05/15/2022	320-87934-5	R-EVE	0.55	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-051522	05/15/2022	320-87934-3	R-PSDA	0.78	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-051522	05/15/2022	320-87934-3	Hydrolyzed PSDA	1.9	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-051522	05/15/2022	320-87934-3	R-EVE	0.82	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-053022	05/30/2022	320-88465-2	Hydrolyzed PSDA	0.025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-318-053022	05/30/2022	320-88465-8	R-PSDA	2.5	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-318-053022	05/30/2022	320-88465-8	Hydrolyzed PSDA	35	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-318-053022	05/30/2022	320-88465-8	R-EVE	1.2	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-053022	05/30/2022	320-88465-4	Hydrolyzed PSDA	0.0030	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-053022	05/30/2022	320-88465-3	R-PSDA	0.92	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-053022	05/30/2022	320-88465-3	Hydrolyzed PSDA	1.1	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-053022	05/30/2022	320-88465-3	R-EVE	0.80	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-053022	05/30/2022	320-88465-5	Hydrolyzed PSDA	2.4	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-053022	05/30/2022	320-88465-5	R-EVE	0.94	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-RAIN-24-060922	06/09/2022	320-88963-2	Hydrolyzed PSDA	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-1	R-PSDA	2.3	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-1	Hydrolyzed PSDA	24	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-1	R-EVE	1.2	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-8	R-PSDA	2.5	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-8	R-EVE	1.2	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-060922	06/09/2022	320-88963-4	Hydrolyzed PSDA	0.0021	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-3	Hydrolyzed PSDA	1.3	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-3	R-EVE	0.75	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-5	R-PSDA	0.78	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-5	Hydrolyzed PSDA	2.4	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-060922	06/09/2022	320-88963-5	R-EVE	0.93	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-061522	06/15/2022	320-89127-2	Hydrolyzed PSDA	0.031	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-061522	06/15/2022	320-89127-1	R-PSDA	2.1	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-061522	06/15/2022	320-89127-1	Hydrolyzed PSDA	26	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-061522	06/15/2022	320-89127-1	R-EVE	1.0	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-063022	06/30/2022	320-89628-1	R-PSDA	3.4	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-063022	06/30/2022	320-89628-1	Hydrolyzed PSDA	37	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-063022	06/30/2022	320-89628-1	R-EVE	1.4	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-132-063022	06/30/2022	320-89628-8	R-PSDA	1.7	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-132-063022	06/30/2022	320-89628-8	Hydrolyzed PSDA	28	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-132-063022	06/30/2022	320-89628-8	R-EVE	0.85	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-061522	06/15/2022	320-89127-8	R-PSDA	1.8	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-INFLUENT-336-061522	06/15/2022	320-89127-8	Hydrolyzed PSDA	22	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-061522	06/15/2022	320-89127-8	R-EVE	0.81	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-061522	06/15/2022	320-89127-4	Hydrolyzed PSDA	0.0045	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-061522	06/15/2022	320-89127-4	R-EVE	0.0043	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-061522	06/15/2022	320-89127-3	Hydrolyzed PSDA	1.3	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-061522	06/15/2022	320-89127-3	R-EVE	0.78	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-063022	06/30/2022	320-89628-3	R-PSDA	0.59	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-063022	06/30/2022	320-89628-3	Hydrolyzed PSDA	0.75	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-063022	06/30/2022	320-89628-3	R-EVE	0.56	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-061522	06/15/2022	320-89127-6	Hydrolyzed PSDA	0.0040	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-061522	06/15/2022	320-89127-5	R-PSDA	0.74	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-061522	06/15/2022	320-89127-5	Hydrolyzed PSDA	2.4	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-061522	06/15/2022	320-89127-5	R-EVE	0.87	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-063022	06/30/2022	320-89628-5	Hydrolyzed PSDA	1.9	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-063022	06/30/2022	320-89628-5	R-EVE	0.81	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: Seep Flow Through Cell Sampling 2022

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-330-053022	05/30/2022	320-88465-1	PMPA	12	UG/L	PQL		3.1	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-330-053022	05/30/2022	320-88465-1	PFO2HxA	37	ug/L	PQL		0.13	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep