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INTERIM SEEP REMEDIATION OPERATION AND MAINTENANCE REPORT #11

Chemours Fayetteville Works

Prepared for

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EXECUTIVE SUMMARY

This Operations and Maintenance Report #11 (O&M Report #11) has been prepared to document the operations, maintenance, and performance of the flow-through cells at Seeps A, B, C, and D from September 1 through October 31, 2022. The median flow rate processed by the Seep A, B, and C, and D FTCs was 77, 130, 50, and 98 gallons per minute (gpm), respectively. As documented in the previous O&M Reports #1 through #10, 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 33,600,000 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 59.5 pounds (lbs) of PFAS from being discharged to the Cape Fear River in the reporting period, and 485.9 lbs of PFAS over the lifetime of the systems to date.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

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 #11 ("O&M Report #11") 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 #11 has been prepared for the operational period of September 1 through October 31, 2022. The next O&M Report (#12) will cover the bimonthly period of November 1 through December 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 #11, 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 (September 1 through October 31, 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 September 1 through October 31, 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	41	20	61
B	0	61	61
C	42	19	61
D	0	61	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.

As Hurricane Ian approached the area in late September, the National Weather Service (NWS) forecasted[1] that the river would exceed the action level, so as a precaution the autosamplers were proactively removed from the FTCs from September 29 through October 3, 2022. Although the Site received nearly three inches of rain, the river ultimately did not exceed the action level during the reporting period (September 1 through October 31, 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	9/21/2022	69/39	27,000
C	FB1	10/13/2022	71/70	9,000
			Total	*36,000*

2.5 Issue Resolution and System Optimization

Beginning in late October at Seep B, filter skids were procured to improve pre-filtration of fine-grained sediment in influent water before it contacts the filter beds. The skids consist of a pump and a set of two bag houses in series. Pump intakes are placed in the pond, filtered through the bags ranging from 1 to 10 micron in size, and discharged into the influent stilling basin. The operations team continues to run tests through the skids to evaluate the optimum balance of extra flow input into the flow-through cell and filter bag size. Overall, the pumping appears to be effective at reducing turbidity and also generating additional freeboard by temporarily increasing

[1] https://water.weather.gov/ahps2/hydrograph.php?gage=stpn7&wfo=ilm

the flow through the system. A similar system is being assembled at Seep A for testing to begin in early November.

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 sets of performance monitoring samples each were collected from Seeps A, C, and D. Six sets of performance monitoring samples were collected from Seep B due to an equipment malfunction during the month of October (see Section 3.4.1 for details). 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, and temperature were measured using a calibrated In-Situ Aqua TROLL 500 Multiparameter Sonde. Total suspended solids (TSS) was measured by EPA laboratory method SM 2540D from grab samples collected concurrent with performance samples.

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. Wet weather monitoring samples were collected in September at Seeps A and B per the Interim Seep Remediation Plan (Geosyntec, 2020). On September 11, a variable amount of rain fell on each of the seeps. Sufficient precipitation (i.e., 0.5 inches) accumulated in the rain gauge tipping buckets at Seeps A and B to trigger the autosampler to collect a wet weather sample. However, this was not the case at Seeps C and D, and no contemporaneous wet weather sample was collected. No wet weather samples were collected at any seep in October because there was insufficient precipitation to trigger sample collection.

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). Deviations in sample composite lengths are described below.

Four 24-hour composites were collected by the influent and effluent ISCO autosamplers at Seep B for the month of October. This deviation was due to operational malfunctions of the autosamplers that interrupted the collection of the planned 14-day composite that began on October 1.

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 *(September 1 – October 31, 2022)*				
Rainfall, Actual (in)	4.39 *(September 1 – October 31, 2022)*				
Rainfall, Historical Average (in)	7.54 *(September 1- October 31, 2004-2020)*				
River Above Spillway (days) *	0	0	0	0	N/A
Operational Period (days)	61				N/A
Median Flow Rate (gpm)	77	130	50	98	355
Seep Volume Treated (gallons)	7,700,000	12,500,000	4,700,000	8,700,000	33,600,000
PFAS Removed (lbs)	14.5	31.9	4.6	8.5	59.5

** 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	77	130	50	98
95th percentile Flow Rate (gpm) during the Reporting Period	196	232	95	156
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 7,700,000 gallons, 12,500,000 gallons, 4,700,000 gallons, and 8,700,000 gallons of water (33,600,000 gallons total) were treated by the Seeps A, B, C, and D FTCs, respectively, from September 1 through October 31, 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 September was approximately 3.90 inches, which is approximately 10% less than the monthly historical average of 4.30 inches. A majority of the rainfall in September was a result of Hurricane Ian, which impacted the Site on September 29 and resulted in nearly 3 inches of rainfall. In October, the total rainfall was 0.49 inches, which is approximately 85% less than the monthly historical average of 3.24 inches. Overall, for the two-month period, the total rainfall received was approximately half of the historical average. The wet weather bypass in September at Seeps A, B, and C caused by Hurricane Ian were resolved with maintenance events lowering the impoundment below the spillway, similar to previous reporting periods. At Seep D, there was no bypass for the full two-month period.

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)	185,000	275,000	111,000	115,000
Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	143	27	128	13
Average Removal Efficiency (%)	99.9	>99.9	99.9	>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
	Sep	Oct	Sep	Oct	Sep	Oct	Sep	Oct	
%	99.9	99.9	>99.9	>99.9	99.9	99.9	>99.9	>99.9	99.9

4.4 Wet Weather Sampling Results

Wet weather monitoring samples were collected at Seeps A and B 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)	170,000	260,000	N/A	N/A
Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	66	57	N/A	N/A
Removal Efficiency (%)	>99.9	>99.9	N/A	N/A

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 features from September 1 through October 31, 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 2.2 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 1.2°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 −23.7 and +122.2 µS/cm.
- **pH:** The median effluent pH at the four seeps ranged from 6.2 to 7.3 standard units (SU) in this reporting period. From the IC to the ESB, the median pH of treated water increased at Seeps A, B, C, and D by 1.3, 0.3, 0.4, and 0.7 SU, respectively. 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:** The median turbidity of the influent water at Seeps A-D ranged from 6.1 to 37.4 NTU. The FTCs significantly decreased the turbidity of the influent water. The median turbidity of the effluent water at Seeps A-D ranged from 0.3 to 3.2 NTU.
- **TSS:** The median influent TSS at Seeps A-D ranged from 2.2 to 6.2 mg/L. Effluent TSS at Seeps A-D was either not detected or was detected in minimal concentrations (2.4 mg/L or lower). As was the case with turbidity, the FTCs decreased the TSS in the influent water.

5. SUMMARY

The following summarizes the FTC performance after the completion of the latest reporting period (September 1 through October 31, 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 485.9 lbs of PFAS from being discharged to the Cape Fear River.

The next reporting period (November 1 through December 31, 2022) will be described in O&M Report #12, to be submitted no later than January 31, 2023.

6. REFERENCES

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TABLES

Table 1a
Summary of Operations and Maintenance Activities - Seep A
Reporting Period 11 (Sep - Oct 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			
09/01/2022	492	No				Series		Series		X	N/A	N/A
09/02/2022	493	No				Series		Series			Skimmed and fluffed FB2.	14 inches of freeboard.
09/06/2022	497	No	X			Series		Series		X	N/A	N/A
09/08/2022	499	No				Series		Series			Skimmed and fluffed FB2.	18.5 inches of freeboard. Rain gauge reading of 0.3 inches.
09/12/2022	503	No	X		X	Series		Series		X	N/A	Rain gauge reading of 0.56 inches.
09/13/2022	504	No				Series		Series			Serviced FB2.	13.5 inches of freeboard.
09/14/2022	505	--		X		Series		Series			N/A	N/A
09/15/2022	506	No				Series		Series			N/A	N/A
09/19/2022	510	No	X			Series		Series		X	N/A	11.5 inches of freeboard.
09/20/2022	511	No				Lead	Closed	Lead	Closed		N/A	N/A
09/21/2022	512	No				Lead	Changeout	Lead	Lag		GAC changeout at FB2.	N/A
09/22/2022	513	No				Series		Series			N/A	21 inches of freeboard.
09/26/2022	517	No	X			Series		Series		X	N/A	10 inches of freeboard.
09/27/2022	518	No				Series		Series			N/A	N/A
09/28/2022	519	No				Series		Series			N/A	19.4 inches of freeboard.
09/29/2022	520	No		X		Series		Series			N/A	N/A
10/03/2022	524	Yes				Series		Series		X	N/A	N/A
10/04/2022	525	Yes	X			Series		Series			Serviced FB1.	N/A
10/07/2022	528	No				Series		Series			Serviced FB1. FB1 sole processor for 3 hours to gain freeboard.	2.5 inches of freeboard.
10/10/2022	531	No	X			Series		Series		X	N/A	N/A
10/11/2022	532	No				Series		Series			Cleaned FB1.	2.5 inches of freeboard.
10/14/2022	535	No				Series		Series			N/A	7 inches of freeboard.
10/16/2022	537	--		X		Series		Series			N/A	N/A
10/17/2022	538	No	X			Series		Series		X	N/A	N/A
10/18/2022	539	No				Series		Series			Serviced FB1.	5 inches of freeboard.
10/24/2022	545	No	X			Series		Series		X	N/A	N/A
10/25/2022	546	No				Series		Series			Serviced FB.	3 inches of freeboard.
10/30/2022	551	--		X		Series		Series			N/A	N/A
10/31/2022	552	No	X			Series		Series			N/A	4 inches of freeboard.

Notes
FB1 - Filter Bed 1
FB2 - Filter Bed 2
GAC - granulated activated carbon
N/A - Not Applicable

Table 1b
Summary of Operations and Maintenance Activities - Seep B
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
						Arrival		Departure				
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	FB1	FB2	FB1	FB2			
09/01/2022	451	No				Series		Series		X	N/A	N/A
09/06/2022	456	No	X			Series		Series		X	Cleaned FB2.	12 inches of freeboard.
09/08/2022	458	No				Series		Series			N/A	20 inches of freeboard. Rain gauge reading of 0.25 inches.
09/12/2022	462	No	X		X	Series		Series		X	N/A	Rain gauge reading of 0.56 inches.
09/14/2022	464	No		X		Series		Series			FB2 serviced.	9 inches of freeboard.
09/15/2022	465	No				Series		Series			N/A	N/A
09/19/2022	469	No	X			Series		Series		X	N/A	N/A
09/21/2022	471	No				Series		Series			N/A	N/A
09/22/2022	472	No				Series		Series			N/A	20.5 inches of freeboard. FB2 in lead.
09/26/2022	476	No	X			Series		Series		X	N/A	17.5 inches of freeboard.
09/28/2022	478	No				Series		Series			N/A	16.2 inches of freeboard.
09/29/2022	479	No		X		Series		Series			N/A	N/A
10/03/2022	483	No				Series		Series		X	Skimmed and fluffed FB2.	2 inches of freeboard measured before maintenance. 2.5 inches of freeboard measured after maintenance.
10/04/2022	484	--	X			Series		Series			N/A	N/A
10/07/2022	487	No				Series		Series			Cleaned FB1. Placed in parallel for 3 hours to gain freeboard.	N/A
10/10/2022	490	No	X			Series		Series		X	Serviced FB1.	N/A
10/12/2022	492	No				Series		Series			Serviced FB2.	4.5 inches of freeboard measured before maintenance. 10.5 inches of freeboard measured after maintenance.
10/17/2022	497	No	X			Series		Series		X	N/A	N/A
10/18/2022	498	No		X		Series		Series			N/A	N/A
10/19/2022	499	No				Series		Series			Cleaned FB2.	7 inches of freeboard.
10/20/2022	500	--		X		Series		Series			N/A	N/A
10/24/2022	504	No	X			Series		Series		X	Started bag filter. Filled inlet chamber faster than expected so pump was shut off to allow cell to process water.	N/A
10/25/2022	505	--		X		Series		Series			N/A	N/A
10/26/2022	506	No				Series		Series			N/A	9 inches of freeboard.
10/27/2022	507	--		X		Series		Series			N/A	N/A
10/31/2022	511	--	X			Series		Series			N/A	N/A

Notes
FB1 - Filter Bed 1
FB2 - Filter Bed 2
GAC - granulated activated carbon
N/A - Not Applicable

Table 1c
Summary of Operations and Maintenance Activities - Seep C
Reporting Period 11 (Sep - Oct 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			
09/01/2022	625	No				Series		Series		X	N/A	N/A
09/06/2022	630	No	X			Series		Series		X	N/A	N/A
09/07/2022	631	No				Series		Series			Skimmed and fluffed FB1.	N/A
09/08/2022	632	No				Series		Series			N/A	13.5 inches of freeboard. Rain gauge reading of 0.375 inches.
09/12/2022	636	No	X			Series		Series			Serviced FB1.	Rain gauge reading of 0.5 inches. 7 inches of freeboard. Wet weather ISCOs did not fire.
09/15/2022	639	No		X		Series		Series			N/A	N/A
09/19/2022	643	No	X			Series		Series		X	N/A	13 inches of freeboard.
09/22/2022	646	No				Series		Series			Attempted to flush mid-basin pipes to free up valves.	13 inches of freeboard. FB1 still in lead.
09/26/2022	650	No	X			Series		Series		X	N/A	13.5 inches of freeboard.
09/28/2022	652	No				Series		Series			N/A	13 inches of freeboard.
09/29/2022	653	No		X		Series		Series			N/A	N/A
10/03/2022	657	Yes				Series		Series		X	N/A	N/A
10/04/2022	658	Yes	X			Series		Series			Skimmed and fluffed FB2.	Freeboard recorded as -1 inches.
10/06/2022	660	No				Series		Series			Serviced FB1.	N/A
10/07/2022	661	--				Series		Series			Skimmed and fluffed FB2.	Observed slow processing. Basin still highly turbid after hurricane rainfall.
10/10/2022	664	No	X			Series		Series		X	Placed in parallel for approximately 5 hours.	Close to bypassing before placing in parallel.
10/13/2022	667	No				Changeout	Lead	Lag	Lead		GAC changeout at FB1.	Unable to take water levels due to high freeboard low flow.
10/16/2022	670	--		X		Series		Series			N/A	N/A
10/17/2022	671	No	X			Series		Series		X	N/A	N/A
10/24/2022	678	No				Series		Series		X	Serviced FB2.	9 inches of freeboard.
10/30/2022	684	--		X		Series		Series			N/A	N/A
10/31/2022	685	--	X			Series		Series			N/A	N/A

Notes
FB1 - Filter Bed 1
FB2 - Filter Bed 2
GAC - granulated activated carbon
ISCO - Teledyne ISCO Autosampler
N/A - Not Applicable

Table 1d
Summary of Operations and Maintenance Activities - Seep D
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
						Arrival		Departure				
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	FB1	FB2	FB1	FB2			
09/01/2022	435	No				Series		Series		X	Skimmed and fluffed FB2.	N/A
09/06/2022	440	No	X			Series		Series		X	N/A	N/A
09/08/2022	442	No				Series		Series			N/A	16 inches of freeboard. Rain gauge reading of 0.3125 inches.
09/09/2022	443	No				Series		Series			Skimmed and fluffed FB2.	N/A
09/12/2022	446	No	X			Series		Series		X	N/A	Rain gauge reading of 0.43 inches. Replaced data logger to match all other loggers. Wet Weather ISCOs did not fire.
09/14/2022	448	--		X		Series		Series			N/A	N/A
09/15/2022	449	No				Series		Series			Skimmed and fluffed FB2.	N/A
09/19/2022	453	No	X			Series		Series		X	N/A	N/A
09/22/2022	456	No				Series		Series			Skimmed and fluffed FB2.	N/A
09/23/2022	457	No				Series		Series			Tree limbs removed from top of cell grates.	Trees fell onto cell from heavy winds during evening of 9/22. Telemetry instruments and ISCO sampler damaged. Aliquots 29-30 were missed due to limb knocking battery free of ISCO.
09/26/2022	460	No	X			Series		Series		X	N/A	N/A
09/28/2022	462	No				Series		Series			N/A	15.7 inches of freeboard.
09/29/2022	463	No		X		Series		Series			N/A	N/A
10/03/2022	467	No				Series		Series		X	N/A	4.5 inches of freeboard.
10/04/2022	468	--	X			Series		Series			N/A	N/A
10/05/2022	469	No				Series		Series			Serviced FB2.	2 inches of freeboard.
10/10/2022	474	No	X			Series		Series		X	N/A	N/A
10/13/2022	477	No				Series		Series			N/A	2.5 inches of freeboard.
10/16/2022	480	--		X		Series		Series			N/A	N/A
10/17/2022	481	No	X			Series		Series		X	N/A	N/A
10/20/2022	484	No				Series		Series			Cleaned FB2.	5 inches of freeboard.
10/24/2022	488	No	X			Series		Series		X	N/A	N/A
10/26/2022	490	No				Series		Series			N/A	9 inches of freeboard.
10/30/2022	494	--		X		Series		Series			N/A	N/A
10/31/2022	495	--	X			Series		Series			N/A	N/A

Notes
FB1 - Filter Bed 1
FB2 - Filter Bed 2
GAC - granulated activated carbon
ISCO - Teledyne ISCO Autosampler
N/A - Not Applicable

Table 2a
Sampling Summary - Seep A
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-A-INFLUENT-336-091422 SEEP-A-EFFLUENT-336-091422	September 1 - September 14, 2022	September 14, 2022
SEEP-A-INFLUENT-324-092922 SEEP-A-EFFLUENT-324-092922	September 16 - September 29, 2022	September 29, 2022
SEEP-A-INFLUENT-336-101622 SEEP-A-EFFLUENT-336-101622	October 2 - October 16, 2022	October 16, 2022
SEEP-A-INFLUENT-324-103022 SEEP-A-EFFLUENT-324-103022	October 17 - October 30, 2022	October 30, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-A-INFLUENT-RAIN-24-091222 SEEP-A-EFFLUENT-RAIN-24-091222	September 12, 2022	8:45	0.41

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 was obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam and may not reflect local rainfall at the FTC.
3 No wet weather samples were collected in October because there was insufficient precipitation to trigger sample collection.

Table 2b
Sampling Summary - Seep B
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-B-INFLUENT-336-091422 SEEP-B-EFFLUENT-336-091422	September 1 - September 14, 2022	September 14, 2022
SEEP-B-INFLUENT-324-092922 SEEP-B-EFFLUENT-324-092922	September 16 - September 29, 2022	September 29, 2022
SEEP-B-INFLUENT-24-101822 SEEP-B-EFFLUENT-24-101822	October 17 - October 18, 2022	October 18, 2022
SEEP-B-INFLUENT-24-102022 SEEP-B-EFFLUENT-24-102022	October 19 - October 20, 2022	October 20, 2022
SEEP-B-INFLUENT-24-102522 SEEP-B-EFFLUENT-24-102522	October 24 - October 25, 2022	October 25, 2022
SEEP-B-INFLUENT-24-102722 SEEP-B-EFFLUENT-24-102722	October 26 - October 27, 2022	October 27, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-B-INFLUENT-RAIN-24-091222 SEEP-B-EFFLUENT-RAIN-24-091222	September 12, 2022	8:35	0.41

Notes

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

2 The influent autosampler at Seep B malfunctioned during the October 1-16 14-day composite cycle, resulting in insufficient aliquots for the composite. The O&M staff reprogrammed the sampler to collect four 24-hour composites from October 17-27.

3 Precipitation data was obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam and may not reflect local rainfall at the FTC.

4 No wet weather samples were collected in October because there was insufficient precipitation to trigger sample collection.

Table 2c
Sampling Summary - Seep C
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-C-INFLUENT-336-091522 SEEP-C-EFFLUENT-336-091522	September 1 - September 15, 2022	September 15, 2022
SEEP-C-INFLUENT-324-092922 SEEP-C-EFFLUENT-324-092922	September 16 - September 29, 2022	September 29, 2022
SEEP-C-INFLUENT-336-101622 SEEP-C-EFFLUENT-336-101622	October 2 - October 16, 2022	October 16, 2022
SEEP-C-INFLUENT-324-103022 SEEP-C-EFFLUENT-324-103022	October 17 - October 30, 2022	October 30, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
N/A[2]	N/A[2]	N/A[2]	N/A[2]

Notes

1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
2 No wet weather samples were collected at Seep C because there was insufficient precipitation to trigger sample collection.
3 Precipitation data was obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam and may not reflect local rainfall at the FTC.

Table 2d
Sampling Summary - Seep D
Reporting Period 11 (Sep- Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-D-INFLUENT-336-091422 SEEP-D-EFFLUENT-336-091422	September 1 - September 14, 2022	September 14, 2022
SEEP-D-INFLUENT-324-092922 SEEP-D-EFFLUENT-306-092922	September 16 - September 29, 2022	September 29, 2022
SEEP-D-INFLUENT-336-101622 SEEP-D-EFFLUENT-336-101622	October 2 - October 16, 2022	October 16, 2022
SEEP-D-INFLUENT-324-103022 SEEP-D-EFFLUENT-324-103022	October 17 - October 30, 2022	October 30, 2022

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
N/A[2]	N/A[2]	N/A[2]	N/A[2]

Notes

1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
2 No wet weather samples were collected at Seep D because there was insufficient precipitation to trigger sample collection.
3 Precipitation data was obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam and may not reflect local rainfall at the FTC.

Table 3a
Summary of Performance Monitoring Analytical Results - Seep A
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-A-INFLUENT-336-091422** Sample Date: 14-Sep-22	**SEEP-A-EFFLUENT-336-091422** Sample Date: 14-Sep-22	**Percent Removal**	**SEEP-A-INFLUENT-324-092922** Sample Date: 29-Sep-22	**SEEP-A-EFFLUENT-324-092922** Sample Date: 29-Sep-22	**Percent Removal**	**SEEP-A-INFLUENT-336-101622** Sample Date: 16-Oct-22	**SEEP-A-EFFLUENT-336-101622** Sample Date: 16-Oct-22	**Percent Removal**	**SEEP-A-INFLUENT-324-103022** Sample Date: 30-Oct-22	**SEEP-A-EFFLUENT-324-103022** Sample Date: 30-Oct-22	**Percent Removal**
Hfpo Dimer Acid	**22,000**	**3.4**	>99.9%	**23,000**	**16**	99.9%	**20,000**	**13**	99.9%	**23,000**	**3.9**	>99.9%
PFMOAA	**82,000**	**11**	>99.9%	**81,000**	**230**	99.7%	**69,000**	**98**	99.9%	**68,000**	**29**	>99.9%
PFO2HxA	**40,000**	**6.7**	>99.9%	**39,000**	**46**	99.9%	**38,000**	**34**	99.9%	**41,000**	**7.9**	>99.9%
PFO3OA	**13,000**	<2.0	100.0%	**16,000 J**	**5.4**	>99.9%	**10,000**	**4.7**	>99.9%	**13,000**	<2.0	100.0%
PFO4DA	**7,200**	<2.0	100.0%	**8,000**	<2.0	100.0%	**4,700**	<2.0	100.0%	**7,100**	<2.0	100.0%
PFO5DA	**3,300**	<2.0	100.0%	**4,400**	<2.0	100.0%	**2,800**	<2.0	100.0%	**4,000**	<2.0	100.0%
PMPA	**15,000**	<10	100.0%	**14,000**	**43**	99.7%	**14,000**	**22**	99.8%	**11,000**	<10	100.0%
PEPA	**4,900**	<20	100.0%	**5,300**	<20	100.0%	**4,900**	<20	100.0%	**4,500**	<20	100.0%
PS Acid	**870**	<2.0	100.0%	**950 J**	<2.0	100.0%	**1,600**	<2.0	100.0%	**740**	<2.0	100.0%
Hydro-PS Acid	**1,400**	<2.0	100.0%	**1,800 J**	<2.0	100.0%	**1,400**	<2.0	100.0%	**1,200**	<2.0	100.0%
R-PSDA	**2,600 J**	<2.0	100.0%	**3,000 J**	<2.0	100.0%	**2,200 J**	<2.0	100.0%	**2,500 J**	<2.0	100.0%
Hydrolyzed PSDA	**39,000 J**	<2.0	100.0%	**40,000 J**	**18 J**	>99.9%	**25,000 J**	**13 J**	>99.9%	**30,000 J**	<2.0	100.0%
R-PSDCA	**46**	<2.0	100.0%	<87	<2.0	100.0%	<87	<2.0	100.0%	**44**	<2.0	100.0%
NVHOS, Acid Form	**1,400**	<2.0	100.0%	**1,400**	<2.0	100.0%	**1,100**	<2.0	100.0%	**910**	<2.0	100.0%
EVE Acid	**90**	<2.0	100.0%	**100 J**	<2.0	100.0%	**150**	<2.0	100.0%	**72**	<2.0	100.0%
Hydro-EVE Acid	**1,600**	<2.0	100.0%	**1,900 J**	<2.0	100.0%	**1,400**	<2.0	100.0%	**1,500**	<2.0	100.0%
R-EVE	**930 J**	<2.0	100.0%	**1,300 J**	<2.0	100.0%	**950 J**	<2.0	100.0%	**950 J**	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<34	<2.0	100.0%	<34	<2.0	100.0%	<13	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<130	<2.0	100.0%	<130	<2.0	100.0%	<53	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<240	<2.0	100.0%	<240	<2.0 UJ	100.0%	<96	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**190,000**	**21**	**>99.9%**	**200,000**	**340**	**99.8%**	**170,000**	**170**	**99.9%**	**180,000**	**41**	**>99.9%**
Total Table 3+ (20 compounds)[1]	**240,000**	**21**	**>99.9%**	**240,000**	**360**	**99.9%**	**200,000**	**180**	**99.9%**	**210,000**	**41**	**>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.
J - Analyte detected. Reported value may not be accurate or precise.
UJ - Analyte not detected. Reporting limit may not be accurate or precise.
ng/L - nanograms per liter
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 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-B-INFLUENT-336-091422** Sample Date: 14-Sep-22	**SEEP-B-EFFLUENT-336-091422** Sample Date: 14-Sep-22	**Percent Removal**	**SEEP-B-INFLUENT-324-092922** Sample Date: 29-Sep-22	**SEEP-B-EFFLUENT-324-092922** Sample Date: 29-Sep-22	**Percent Removal**	**SEEP-B-INFLUENT-24-101822** Sample Date: 18-Oct-22	**SEEP-B-EFFLUENT-24-101822** Sample Date: 18-Oct-22	**Percent Removal**	**SEEP-B-INFLUENT-24-102022** Sample Date: 20-Oct-22	**SEEP-B-EFFLUENT-24-102022** Sample Date: 20-Oct-22	**Percent Removal**
Hfpo Dimer Acid	**17,000**	<2.0	100.0%	**15,000**	<2.0	100.0%	**16,000**	<2.0	100.0%	**17,000**	<2.0	100.0%
PFMOAA	**170,000**	**9.9**	>99.9%	**170,000**	**47**	>99.9%	**140,000**	**26**	>99.9%	**140,000**	**16**	>99.9%
PFO2HxA	**53,000**	**3**	>99.9%	**52,000**	**5.4**	>99.9%	**55,000**	**2**	>99.9%	**54,000**	**2.3**	>99.9%
PFO3OA	**12,000**	<2.0	100.0%	**14,000**	<2.0	100.0%	**10,000**	<2.0	100.0%	**10,000**	<2.0	100.0%
PFO4DA	**1,600**	<2.0	100.0%	**1,900**	<2.0	100.0%	<1,200	<2.0	100.0%	**1,400**	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	<390	<2.0	100.0%	<1,600	<2.0	100.0%	<1,600	<2.0	100.0%
PMPA	**19,000**	<10	100.0%	**22,000**	<10	100.0%	**23,000**	<10	100.0%	**23,000**	<10	100.0%
PEPA	**5,900**	<20	100.0%	**6,200**	<20	100.0%	**6,800**	<20	100.0%	**7,300**	<20	100.0%
PS Acid	**150**	<2.0	100.0%	**170**	<2.0	100.0%	<390	<2.0	100.0%	<390	<2.0	100.0%
Hydro-PS Acid	**440**	<2.0	100.0%	**660**	<2.0	100.0%	**570**	<2.0	100.0%	**690**	<2.0	100.0%
R-PSDA	**1,300 J**	<2.0	100.0%	**3,100 J**	<2.0	100.0%	<1,400	<2.0	100.0%	<1,400	<2.0	100.0%
Hydrolyzed PSDA	**16,000 J**	<2.0	100.0%	**35,000 J**	<2.0	100.0%	**27,000 J**	<2.0	100.0%	**26,000 J**	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<87	<2.0	100.0%	<350	<2.0	100.0%	<350	<2.0	100.0%
NVHOS, Acid Form	**1,900**	<2.0	100.0%	**2,400**	<2.0	100.0%	**2,100**	<2.0	100.0%	**2,000**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<87	<2.0	100.0%	<350	<2.0	100.0%	<350	<2.0	100.0%
Hydro-EVE Acid	**810**	<2.0	100.0%	**980**	<2.0	100.0%	**810**	<2.0	100.0%	**830**	<2.0	100.0%
R-EVE	**440 J**	<2.0	100.0%	**1,300 J**	<2.0	100.0%	<1,400	<2.0	100.0%	<1,400	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	<34	<2.0	100.0%	<130	<2.0	100.0%	<130	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<130	<2.0	100.0%	<530	<2.0	100.0%	<530	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<240	<2.0	100.0%	<960	<2.0	100.0%	<960	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**280,000**	**13**	**>99.9%**	**290,000**	**52**	**>99.9%**	**250,000**	**28**	**>99.9%**	**260,000**	**18**	**>99.9%**
Total Table 3+ (20 compounds)[1]	**300,000**	**13**	**>99.9%**	**320,000**	**52**	**>99.9%**	**280,000**	**28**	**>99.9%**	**280,000**	**18**	**>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.
ng/L - nanograms per liter
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 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-B-INFLUENT-24-102522** Sample Date: 25-Oct-22	**SEEP-B-EFFLUENT-24-102522** Sample Date: 25-Oct-22	**Percent Removal**	**SEEP-B-INFLUENT-24-102722** Sample Date: 27-Oct-22	**SEEP-B-EFFLUENT-24-102722** Sample Date: 27-Oct-22	**Percent Removal**
Hfpo Dimer Acid	**15,000**	<2.0	100.0%	**17,000**	<2.0	100.0%
PFMOAA	**180,000**	**20**	>99.9%	**170,000**	**24**	>99.9%
PFO2HxA	**53,000**	**2.7**	>99.9%	**52,000**	**2.1**	>99.9%
PFO3OA	**13,000**	<2.0	100.0%	**14,000**	<2.0	100.0%
PFO4DA	**1,900**	<2.0	100.0%	**1,800**	<2.0	100.0%
PFO5DA	<390	<2.0	100.0%	<390	<2.0	100.0%
PMPA	**17,000**	<10	100.0%	**19,000**	<10	100.0%
PEPA	**6,000**	<20	100.0%	**6,400**	<20	100.0%
PS Acid	**190**	<2.0	100.0%	**140**	<2.0	100.0%
Hydro-PS Acid	**490**	<2.0	100.0%	**480**	<2.0	100.0%
R-PSDA	**2,500 J**	<2.0	100.0%	**2,400 J**	<2.0	100.0%
Hydrolyzed PSDA	**24,000 J**	<2.0	100.0%	**24,000 J**	<2.0	100.0%
R-PSDCA	<87	<2.0	100.0%	<87	<2.0	100.0%
NVHOS, Acid Form	**1,700**	<2.0	100.0%	**1,600**	<2.0	100.0%
EVE Acid	<87	<2.0	100.0%	<87	<2.0	100.0%
Hydro-EVE Acid	**900**	<2.0	100.0%	**960**	<2.0	100.0%
R-EVE	**760 J**	<2.0	100.0%	**810 J**	<2.0	100.0%
PES	<34	<2.0	100.0%	<34	<2.0	100.0%
PFECA B	<130	<2.0	100.0%	<130	<2.0	100.0%
PFECA-G	<240	<2.0	100.0%	<240	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**290,000**	**23**	**>99.9%**	**280,000**	**26**	**>99.9%**
Total Table 3+ (20 compounds)[1]	**320,000**	**23**	**>99.9%**	**310,000**	**26**	**>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.
ng/L - nanograms per liter
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 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-C-INFLUENT-336-091522** Sample Date: 15-Sep-22	**SEEP-C-EFFLUENT-336-091522** Sample Date: 15-Sep-22	**Percent Removal**	**SEEP-C-INFLUENT-324-092922** Sample Date: 29-Sep-22	**SEEP-C-EFFLUENT-324-092922** Sample Date: 29-Sep-22	**Percent Removal**	**SEEP-C-INFLUENT-336-101622** Sample Date: 16-Oct-22	**SEEP-C-EFFLUENT-336-101622** Sample Date: 16-Oct-22	**Percent Removal**	**SEEP-C-INFLUENT-336-103022** Sample Date: 30-Oct-22	**SEEP-C-EFFLUENT-336-103022** Sample Date: 30-Oct-22	**Percent Removal**
Hfpo Dimer Acid	**18,000**	**16**	99.9%	**19,000**	**3.4**	>99.9%	**12,000**	**3.5**	>99.9%	**21,000**	**13**	99.9%
PFMOAA	**48,000**	**74**	99.8%	**56,000**	**40**	99.9%	**31,000**	**30**	99.9%	**55,000**	**99**	99.8%
PFO2HxA	**24,000**	**100**	99.6%	**27,000**	**12**	>99.9%	**16,000**	**12**	99.9%	**31,000**	**27**	99.9%
PFO3OA	**6,800**	**3.9**	99.9%	**9,200**	<2.0	100.0%	**4,400**	<2.0	100.0%	**9,200**	**2.4**	>99.9%
PFO4DA	**2,500**	<2.0	100.0%	**2,800**	<2.0	100.0%	**1,500**	<2.0	100.0%	**3,500**	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	**87**	<2.0	100.0%	<78	<2.0	100.0%	<78	<2.0	100.0%
PMPA	**9,200**	**58**	99.4%	**9,200**	<10	100.0%	**6,000**	<10	100.0%	**8,800**	**16**	99.8%
PEPA	**2,600**	<20	100.0%	**3,100**	<20	100.0%	**1,900**	<20	100.0%	**3,000**	<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	**340**	<2.0	100.0%	**410**	<2.0	100.0%	**250**	<2.0	100.0%	**440**	<2.0	100.0%
R-PSDA	**800 J**	<2.0	100.0%	**1,100 J**	<2.0	100.0%	**540 J**	<2.0	100.0%	**1,000 J**	<2.0	100.0%
Hydrolyzed PSDA	**1,200 J**	<2.0	100.0%	**2,100 J**	<2.0	100.0%	**750 J**	<2.0	100.0%	**1,500 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	**680**	<2.0	100.0%	**730**	<2.0	100.0%	**460**	<2.0	100.0%	**640**	<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	**1,200**	<2.0	100.0%	**1,500**	<2.0	100.0%	**760**	<2.0	100.0%	**1,700**	<2.0	100.0%
R-EVE	**650 J**	<2.0	100.0%	**1,100 J**	<2.0	100.0%	**470 J**	<2.0	100.0%	**860 J**	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%	**8**	<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]	**110,000**	**250**	**99.8%**	**130,000**	**55**	**>99.9%**	**74,000**	**46**	**99.9%**	**130,000**	**160**	**99.9%**
Total Table 3+ (20 compounds)[1]	**120,000**	**250**	**99.8%**	**130,000**	**55**	**>99.9%**	**76,000**	**46**	**99.9%**	**140,000**	**160**	**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.
J - Analyte detected. Reported value may not be accurate or precise.
UJ - Analyte not detected. Reporting limit may not be accurate or precise.
ng/L - nanograms per liter
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 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-D-INFLUENT-336-091422** Sample Date: 14-Sep-22	**SEEP-D-EFFLUENT-336-091422** Sample Date: 14-Sep-22	**Percent Removal**	**SEEP-D-INFLUENT-324-092922** Sample Date: 29-Sep-22	**SEEP-D-EFFLUENT-306-092922** Sample Date: 29-Sep-22	**Percent Removal**	**SEEP-D-INFLUENT-336-101622** Sample Date: 16-Oct-22	**SEEP-D-EFFLUENT-336-101622** Sample Date: 16-Oct-22	**Percent Removal**	**SEEP-D-INFLUENT-324-103022** Sample Date: 30-Oct-22	**SEEP-D-EFFLUENT-324-103022** Sample Date: 30-Oct-22	**Percent Removal**
Hfpo Dimer Acid	**21,000**	<2.0	100.0%	**16,000**	<2.0	100.0%	**15,000**	<2.0	100.0%	**16,000**	<2.0	100.0%
PFMOAA	**48,000**	**4.5 J**	>99.9%	**57,000**	**18**	>99.9%	**48,000**	**11**	>99.9%	**49,000**	**11**	>99.9%
PFO2HxA	**23,000**	<2.0	100.0%	**26,000**	**3.1**	>99.9%	**23,000**	**2.5**	>99.9%	**25,000**	**2.1**	>99.9%
PFO3OA	**7,000**	<2.0	100.0%	**8,600**	<2.0	100.0%	**6,100**	<2.0	100.0%	**7,300**	<2.0	100.0%
PFO4DA	**2,600**	<2.0	100.0%	**2,300**	<2.0	100.0%	**1,700**	<2.0	100.0%	**2,500**	<2.0	100.0%
PFO5DA	**170**	<2.0	100.0%	**160**	<2.0	100.0%	**110**	<2.0	100.0%	<78	<2.0	100.0%
PMPA	**8,700**	<10	100.0%	**8,000**	<10	100.0%	**7,300**	<10	100.0%	**6,400**	<10	100.0%
PEPA	**2,300**	<20	100.0%	**2,600**	<20	100.0%	**2,200**	<20	100.0%	**2,300**	<20	100.0%
PS Acid	**280**	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	**420**	<2.0	100.0%	**360**	<2.0	100.0%	**280**	<2.0	100.0%	**280**	<2.0	100.0%
R-PSDA	**1,000 J**	<2.0	100.0%	**1,000 J**	<2.0	100.0%	**840 J**	<2.0	100.0%	**910 J**	<2.0	100.0%
Hydrolyzed PSDA	**3,000 J**	<2.0	100.0%	**2,600 J**	<2.0	100.0%	**1,900 J**	<2.0	100.0%	**2,100 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	**840**	<2.0	100.0%	**820**	<2.0	100.0%	**710**	<2.0	100.0%	**560**	<2.0	100.0%
EVE Acid	**1,200**	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	**1,800**	<2.0	100.0%	**1,400**	<2.0	100.0%	**1,000**	<2.0	100.0%	**1,300**	<2.0	100.0%
R-EVE	**1,600 J**	<2.0	100.0%	**990 J**	<2.0	100.0%	**830 J**	<2.0	100.0%	**890 J**	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	**12**	<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]	**120,000**	**4.5**	**>99.9%**	**120,000**	**21**	**>99.9%**	**110,000**	**14**	**>99.9%**	**110,000**	**13**	**>99.9%**
Total Table 3+ (20 compounds)[1]	**120,000**	**4.5**	**>99.9%**	**130,000**	**21**	**>99.9%**	**110,000**	**14**	**>99.9%**	**110,000**	**13**	**>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.
ng/L - nanograms per liter
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 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-A-INFLUENT-RAIN-24-091222** Sample Date: 12-Sep-22	**SEEP-A-EFFLUENT-RAIN-24-091222** Sample Date: 12-Sep-22	**Percent Removal**
Hfpo Dimer Acid	**17,000**	**3.1**	>99.9%
PFMOAA	**73,000**	**53**	99.9%
PFO2HxA	**35,000**	**9.6**	>99.9%
PFO3OA	**10,000**	<2.0	100.0%
PFO4DA	**7,500**	<2.0	100.0%
PFO5DA	**3,600**	<2.0	100.0%
PMPA	**13,000**	<10	100.0%
PEPA	**4,000**	<20	100.0%
PS Acid	**1,300**	<2.0	100.0%
Hydro-PS Acid	**990**	<2.0	100.0%
R-PSDA	**1,300 J**	<2.0	100.0%
Hydrolyzed PSDA	**17,000 J**	<2.0	100.0%
R-PSDCA	**35**	<2.0	100.0%
NVHOS, Acid Form	**1,000**	<2.0	100.0%
EVE Acid	**130**	<2.0	100.0%
Hydro-EVE Acid	**1,100**	<2.0	100.0%
R-EVE	**530 J**	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%
Total Table 3+ (17 Compounds)[1,2]	**170,000**	**66**	**>99.9%**
Total Table 3+ (20 Compounds)[1]	**190,000**	**66**	**>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.
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
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 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-B-INFLUENT-RAIN-24-091222** Sample Date: 12-Sep-22	**SEEP-B-EFFLUENT-RAIN-24-091222** Sample Date: 12-Sep-22	**Percent Removal**
Hfpo Dimer Acid	**14,000**	<2.0	100.0%
PFMOAA	**150,000**	**52**	>99.9%
PFO2HxA	**51,000**	**5**	>99.9%
PFO3OA	**11,000**	<2.0	100.0%
PFO4DA	**1,400**	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%
PMPA	**23,000**	<10	100.0%
PEPA	**6,900**	<20	100.0%
PS Acid	**160**	<2.0	100.0%
Hydro-PS Acid	**470**	<2.0	100.0%
R-PSDA	**1,600 J**	<2.0	100.0%
Hydrolyzed PSDA	**21,000 J**	<2.0	100.0%
R-PSDCA	**26**	<2.0	100.0%
NVHOS, Acid Form	**2,000**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%
Hydro-EVE Acid	**790**	<2.0	100.0%
R-EVE	**660 J**	<2.0	100.0%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%
Total Table 3+ (17 Compounds)[1,2]	**260,000**	**57**	**>99.9%**
Total Table 3+ (20 Compounds)[1]	**280,000**	**57**	**>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.
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
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]"

Cape Fear River Elevation and Local Precipitation Statistics
Reporting Period 11 (Sep - Oct 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	685	2.1%	2.7%	5.1%	12.0%
A	552	0.5%	0.6%	1.2%	2.9%
B	511	0.5%	0.5%	0.9%	2.3%
D	495	0.5%	0.6%	1.4%	3.3%
Historical Annual Average (2007-2020) [2,3]		1.7%	2.2%	3.7%	9.6%

Precipitation (inches)	
Current Reporting Period (September - October 2022)	4.39
Current Reporting Period Historical Average (September - October 2004-2020) [4]	7.54
2022 Year-to-Date	26.87
Historical Year-to-Date Average (2004-2020) [4]	35.93
Historical Annual Average (2004-2020) [4]	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 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
9/14/2022	5.2	2.9	-2.3	4.1	4.0	-0.1	172	3	-169	21	21	0	19.38	409.40	390.02	4.4	<4	-4.4
9/29/2022	7.5	6.1	-1.4	5.4	6.6	1.2	142	251	109	17	18	1	6.83	3.53	-3.30	1.6	<4	-1.6
10/16/2022	8.2	8.6	0.4	6.3	6.8	0.5	153	383	230	32	29	-3	5.3	1.35	-3.95	4.4	<4	-4.4
10/30/2022	6.3	4.2	-2.1	4.4	5.7	1.3	244	318	74	19	19	0	2.6	0.00	-2.62	8.8	<4	-8.8
Average	*6.8*	*5.4*	*-1.4*	*5.0*	*5.8*	*0.7*	*178.0*	*238.9*	*60.9*	*22.2*	*21.7*	*-0.5*	*8.5*	*103.6*	*95.0*	*4.8*	*0.0*	*-4.8*
Median	*6.9*	*5.1*	*-1.7*	*4.9*	*6.2*	*1.3*	*162.7*	*284.9*	*122.2*	*20.2*	*20.2*	*0.0*	*6.1*	*2.4*	*-3.6*	*4.4*	*0.0*	*-4.4*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for 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

Table 6b
Water Quality Data - Seep B
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
9/14/2022	3.7	3.0	-0.7	6.1	5.9	-0.2	123	112	-11	20	20	0	20.11	3.00	-17.11	85	<4	-85
9/29/2022	5.8	3.7	-2.1	5.9	6.1	0.2	155	159	4	18	18	0	7.27	1.12	-6.15	<4	2.4	2.4
10/18/2022	12.9	11.6	-1.3	10.1	9.8	-0.3	493	137	-356	8	8	0	61.45	0.00	-61.45	6.8 J	<1.1 UJ	-6.8
10/20/2022	10.0	8.7	-1.3	9.1	8.8	-0.3	155	144	-11	7	7	0	42.93	0.00	-42.93	4	<1.1	-4
10/25/2022	8.4	10.1	1.7	7.3	7.6	0.3	156	152	-4	7	8	1	19.43	0.04	-19.39	5.6 J	<1.1 UJ	-5.6
10/28/2022	7.4	9.4	2.0	6.7	7.0	0.3	165	146	-19	16	15	-1	5.69	2.31	-3.38	6.8	<1.1	-6.8
Average	*8.0*	*7.8*	*-0.3*	*7.5*	*7.5*	*0.0*	*207.8*	*141.7*	*-66.1*	*12.8*	*12.7*	*-0.1*	*26.1*	*1.1*	*-25.1*	*18.0*	*0.4*	*-17.6*
Median	*7.9*	*9.1*	*1.2*	*7.0*	*7.3*	*0.3*	*155.4*	*145.0*	*-10.4*	*12.1*	*11.7*	*-0.4*	*19.8*	*0.6*	*-19.2*	*6.2*	*0.0*	*-6.2*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for statistical calculations.
DO	dissolved oxygen
J	Analyte detected. Reported value may not be accurate or precise.
mg/L	milligrams per liter
SU	standard units
NTU	nephelometric turbidity units
µS/cm	microSiemens per centimeter
TSS	total suspended solids
J	Analyte detected. Reported value may not be accurate or precise.
UJ	Analyte not detected. Reporting limit may not be accurate or precise.

Table 6c
Water Quality Data - Seep C
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
9/15/2022	4.5	3.2	-1.3	6.2	6.8	0.6	108	108	0	22	22	0	73.40	3.19	-70.21	23	<4	-23
9/29/2022	6.8	NM	--	6.4	NM	--	117	NM	--	20	NM	--	0.48	NM	--	1.2	<4	-1.2
10/16/2022	7.8	7.8	0.0	6.7	5.6	-1.1	91	225	134	30	31	1	77.36	9.68	-67.68	2.8 J	<4	-2.8
10/30/2022	5.8	4.1	-1.7	6.4	7.2	0.8	118	123	5	20	19	-1	1.37	0.00	-1.37	2.4	<4	-2.4
Average	*6.2*	*5.0*	*-1.2*	*6.4*	*6.5*	*0.1*	*108.7*	*151.9*	*43.3*	*22.9*	*24.1*	*1.2*	*38.2*	*4.3*	*-33.9*	*8.9*	*0.0*	*-8.9*
Median	*6.3*	*4.1*	*-2.2*	*6.4*	*6.8*	*0.4*	*112.5*	*122.8*	*10.3*	*20.9*	*22.1*	*1.2*	*37.4*	*3.2*	*-34.2*	*2.4*	*0.0*	*-2.4*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for statistical calculations.
DO	dissolved oxygen
J	Analyte detected. Reported value may not be accurate or precise.
mg/L	milligrams per liter
SU	standard units
NTU	nephelometric turbidity units
µS/cm	microSiemens per centimeter
TSS	total suspended solids

Table 6d
Water Quality Data - Seep D
Reporting Period 11 (Sep - Oct 2022)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
9/14/2022	5.9	3.1	-2.8	6.2	6.1	-0.1	208	202	-6	19	20	1	50.84	27.62	-23.22	98	<4	-98
9/29/2022	3.6	5.5	1.9	5.7	6.6	0.9	164	155	-9	18	18	0	0.94	0.11	-0.83	1.6	<4	-1.6
10/16/2022	7.8	7.9	0.1	5.7	6.7	1.0	203	132	-71	30	31	1	12.73	0.52	-12.21	< 4	1.6 J	1.6
10/30/2022	4.9	3.9	-1.0	6.3	7.3	1.0	202	294	92	19	19	0	1.33	0.00	-1.33	2.8	<4	-2.8
Average	*5.5*	*5.1*	*-0.4*	*5.9*	*6.7*	*0.7*	*194.2*	*195.8*	*1.6*	*21.7*	*22.2*	*0.4*	*16.5*	*7.1*	*-9.4*	*25.6*	*0.4*	*-25.6*
Median	*5.4*	*4.7*	*-0.6*	*5.9*	*6.6*	*0.7*	*202.4*	*178.7*	*-23.7*	*19.3*	*19.6*	*0.3*	*7.0*	*0.3*	*-6.7*	*2.2*	*0.0*	*-2.2*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for statistical calculations.
DO	dissolved oxygen
J	Analyte detected. Reported value may not be accurate or precise.
mg/L	milligrams per liter
SU	standard units
NTU	nephelometric turbidity units
µS/cm	microSiemens per centimeter
TSS	total suspended solids

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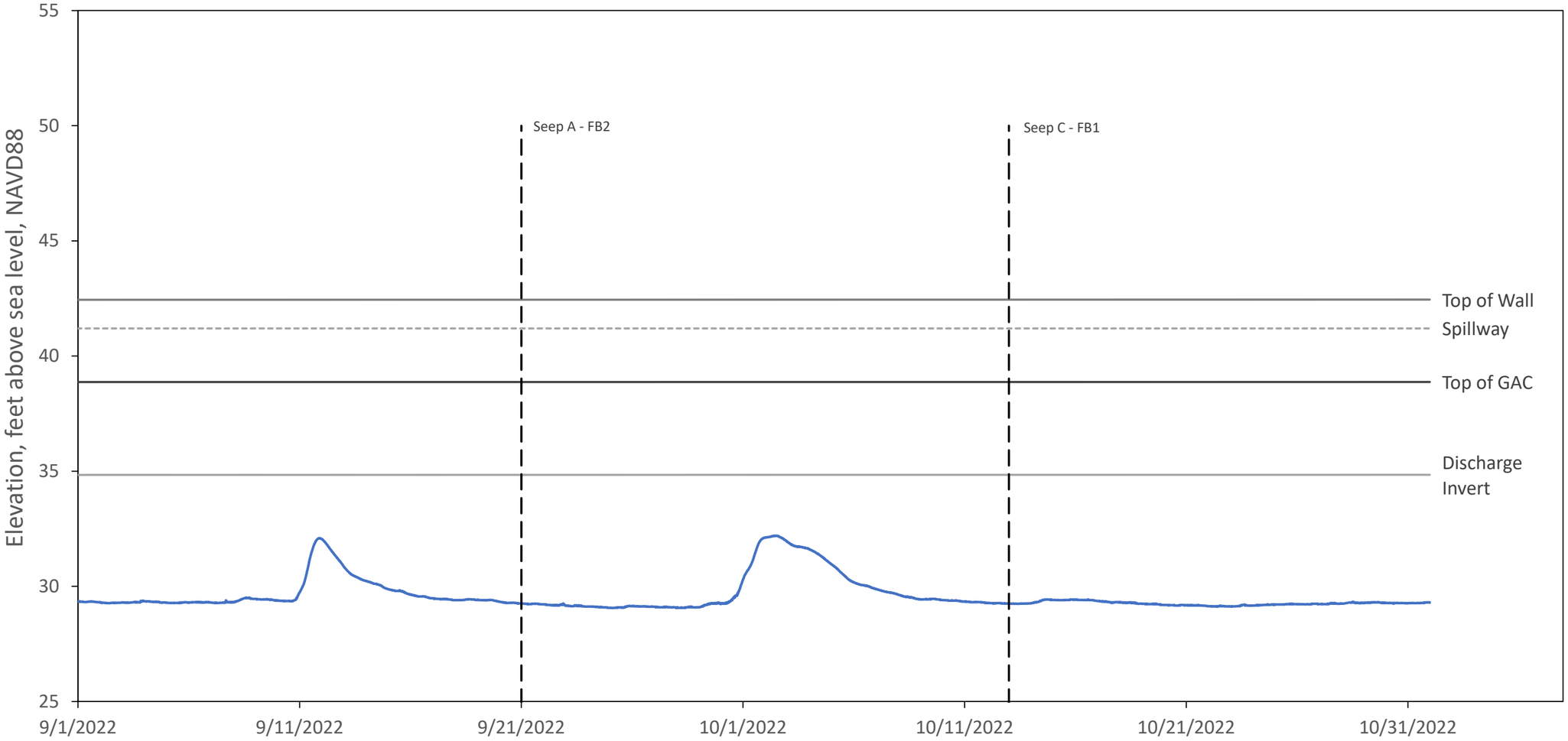
FIGURES



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

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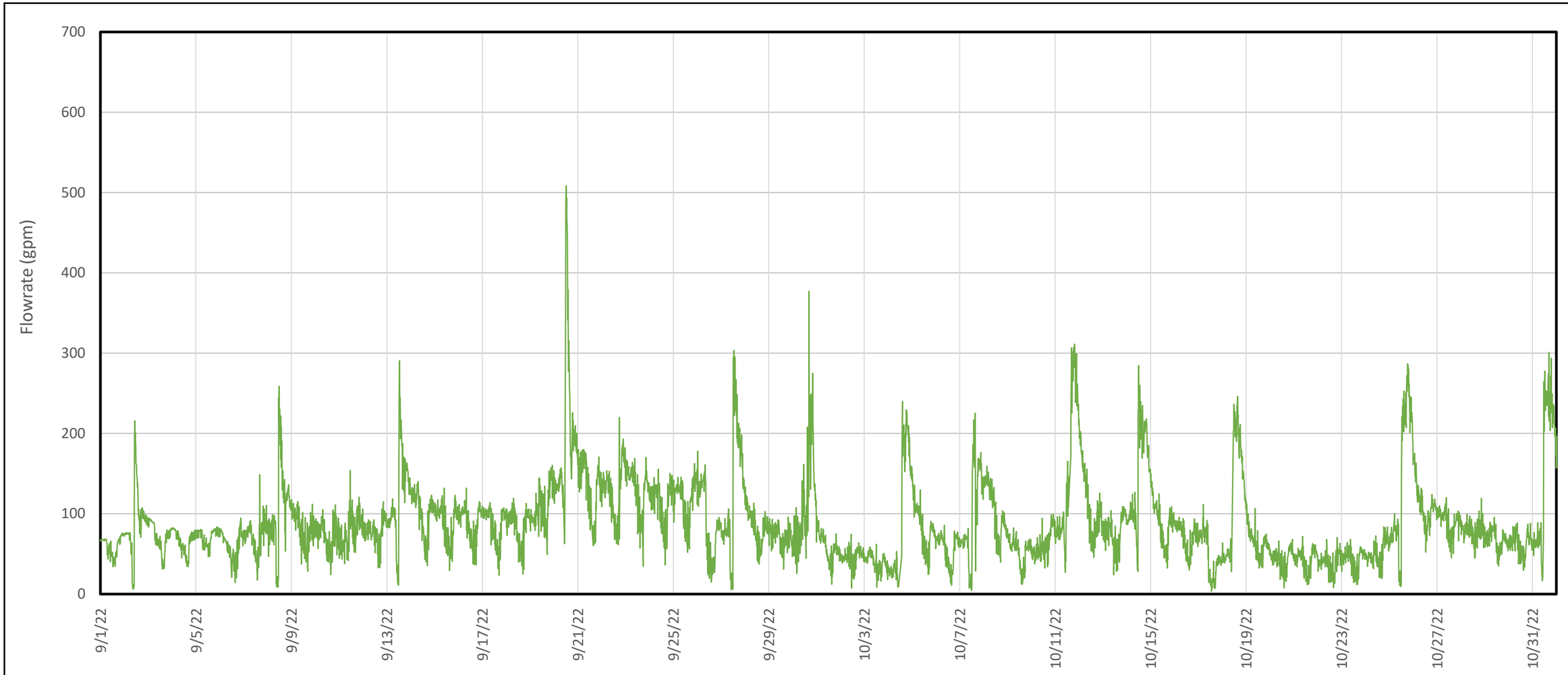
Figure 1



Legend

Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(09/01 - 10/31)	Since Startup
Median	77	85
95th percentile	196	261
Max	508	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 (Sep - Oct 2022) - Seep A

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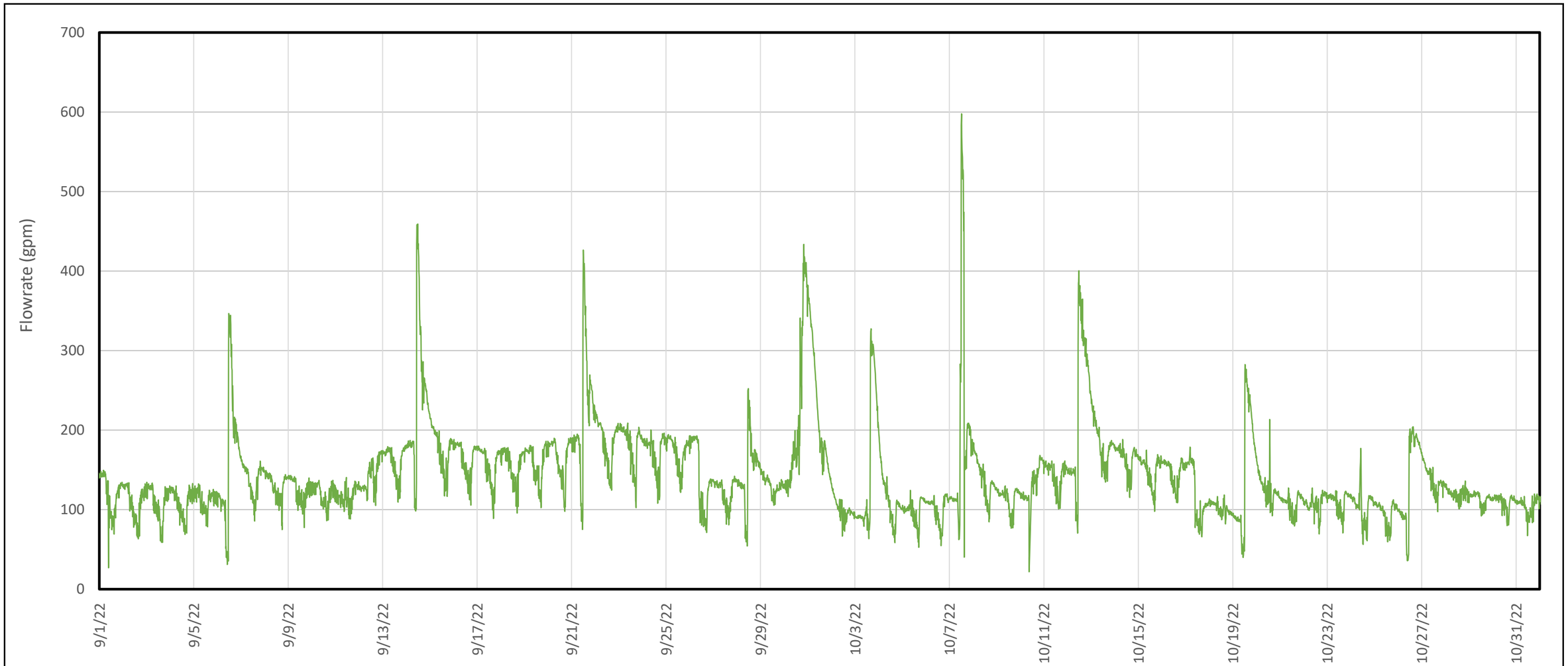
Figure 2a



Legend

Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(09/01 - 10/31)	Since Startup
Median	130	126
95th percentile	232	271
Max	598	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 (Sep - Oct 2022) - Seep B

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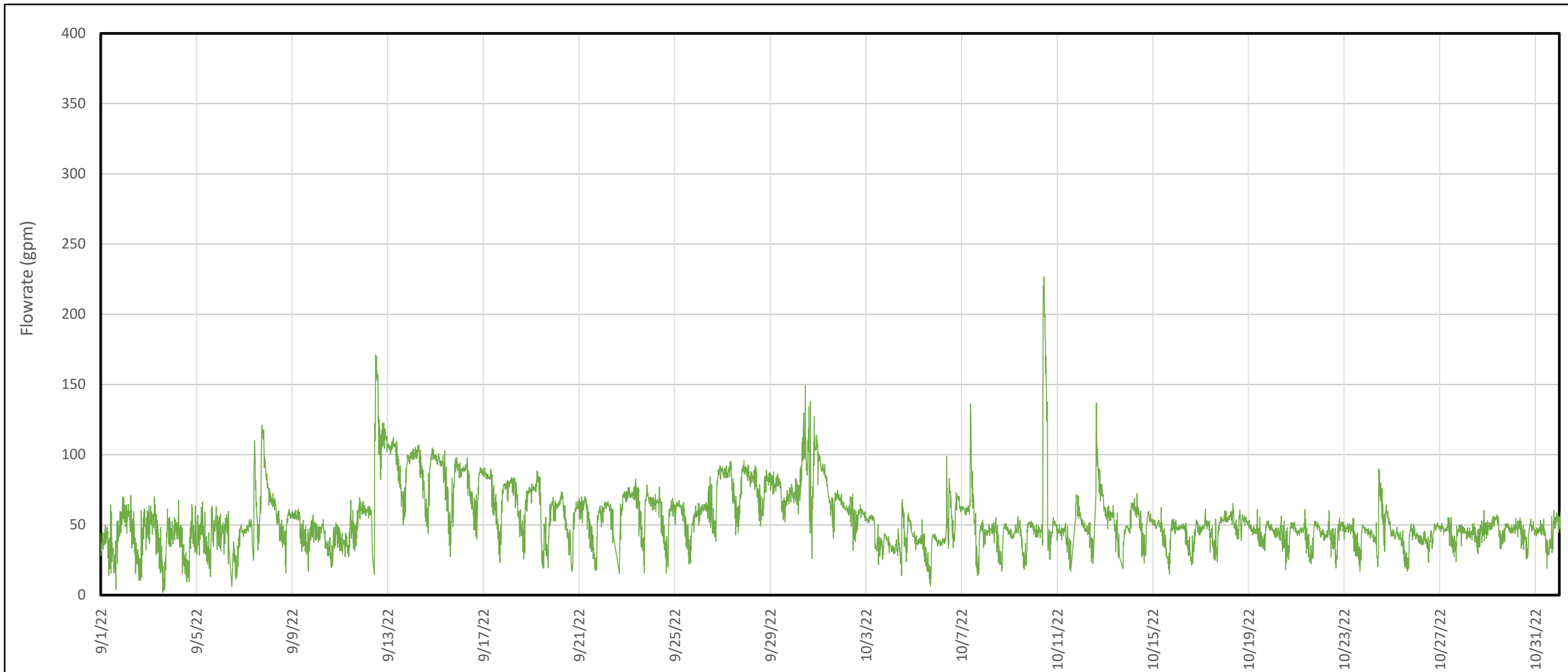
Figure 2b



Legend

Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(09/01 - 10/31)	Since Startup
Median	50	57
95th percentile	95	141
Max	227	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 (Sep - Oct 2022) - Seep C

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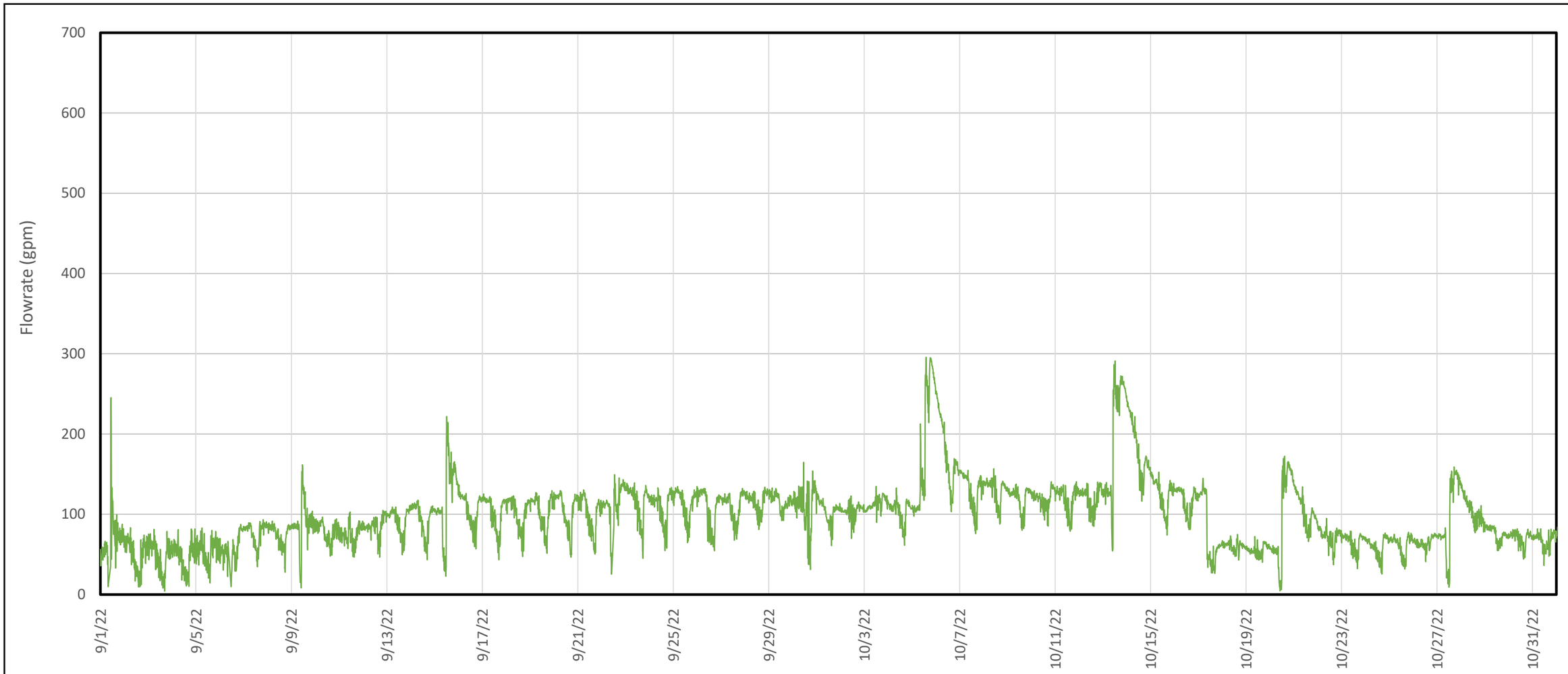
Figure 2c



Legend

Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(09/01 - 10/31)	Since Startup
Median	98	88
95th percentile	156	270
Max	296	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 (Sep - Oct 2022) - Seep D

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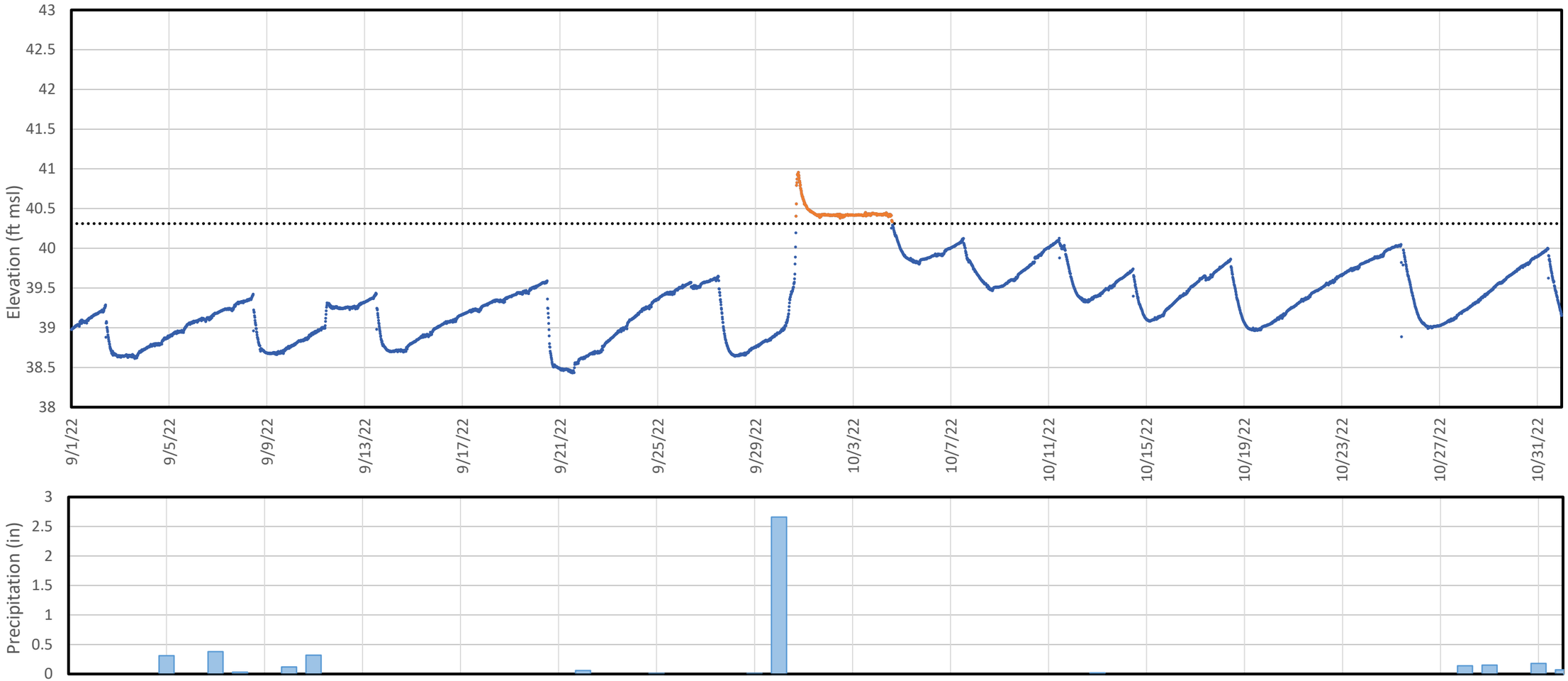
Figure 2d



Legend

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

Notes:

Figure 3a depicts 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.

Influent Water Elevation and Bypass Flow (Sep - Oct 2022) - Seep A

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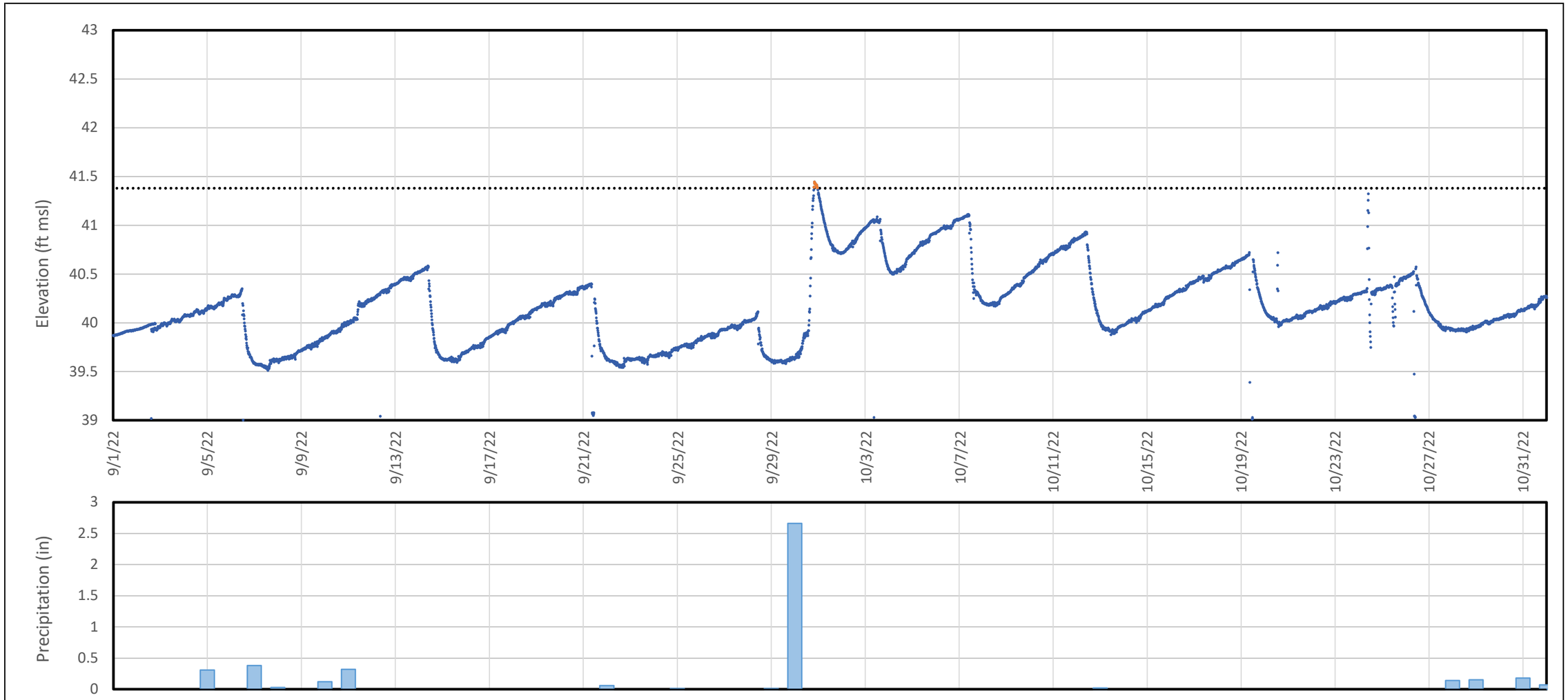
Figure 3a



Legend

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

Notes:

Figure 3b 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.
Beginning in late October at Seep B, filter skids were procured to improve pre-filtration of influent water before it contacts the filter beds. Pump intakes are placed in the pond, filtered through the bags ranging from 1 to 10 micron in size, and discharged into the influent stilling basin. The transient effect of this pumping can be seen in the data above, notably on October 24.

Influent Water Elevation and Bypass Flow (Sep - Oct 2022) - Seep B

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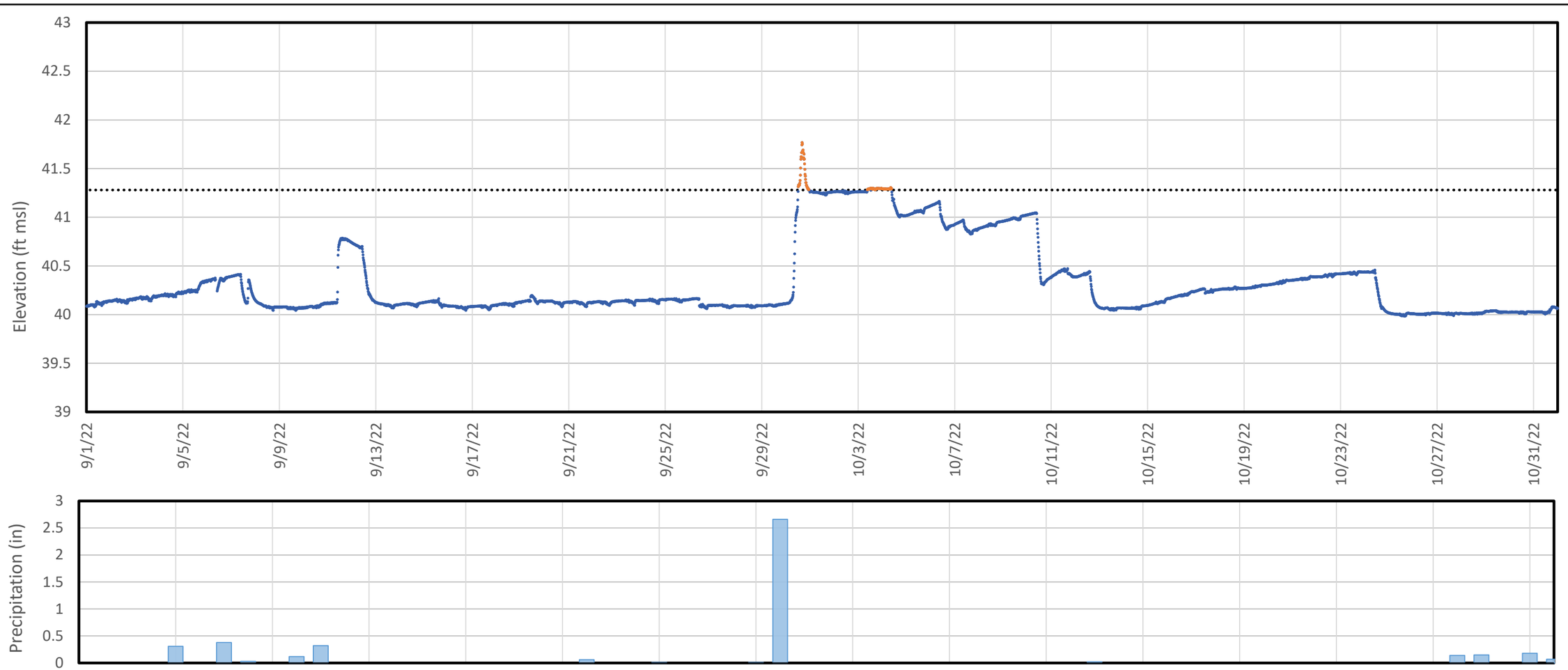
Figure 3b



Legend

- Influent 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.

Influent Water Elevation and Bypass Flow (Sep - Oct 2022) - Seep C

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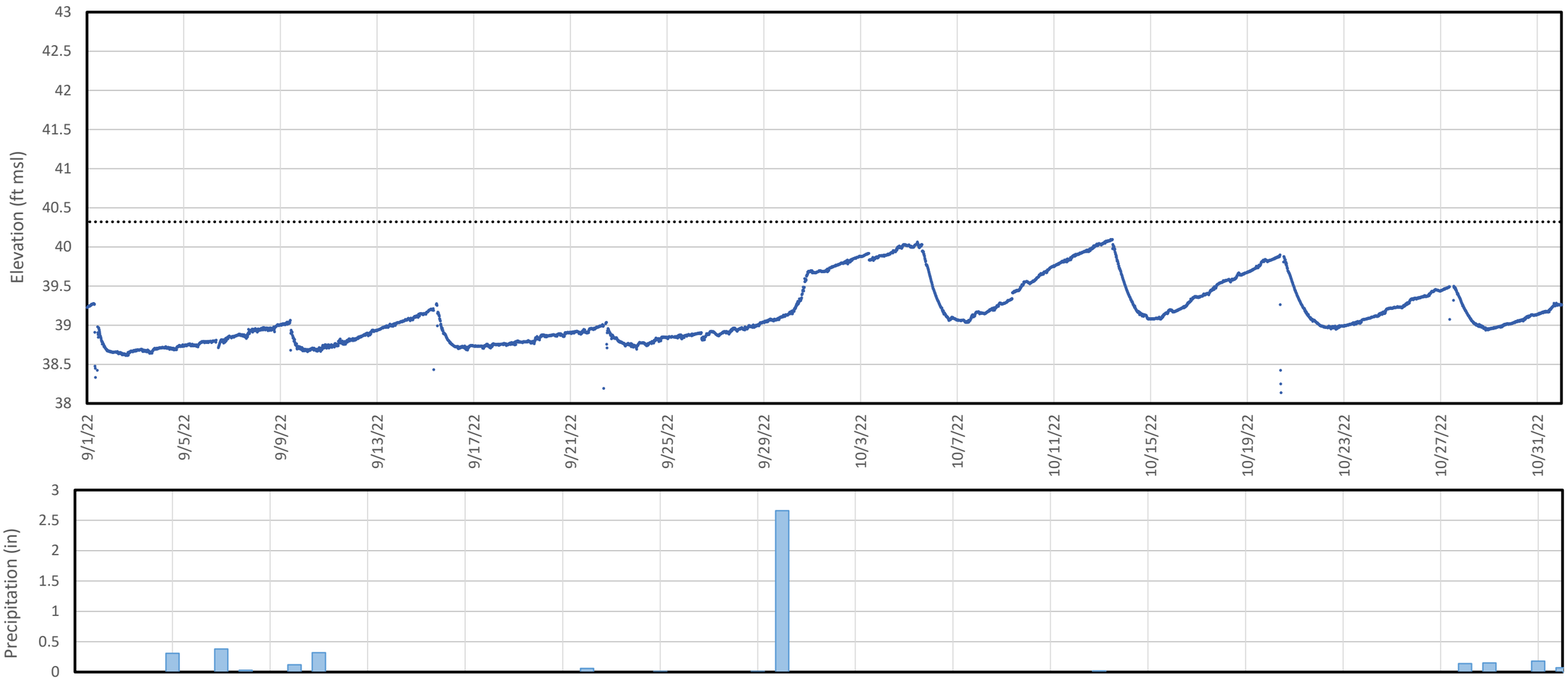
Figure 3c



Legend

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

Notes:

Figure 3d 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 (Sep - Oct 2022) - Seep D

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Figure 3d

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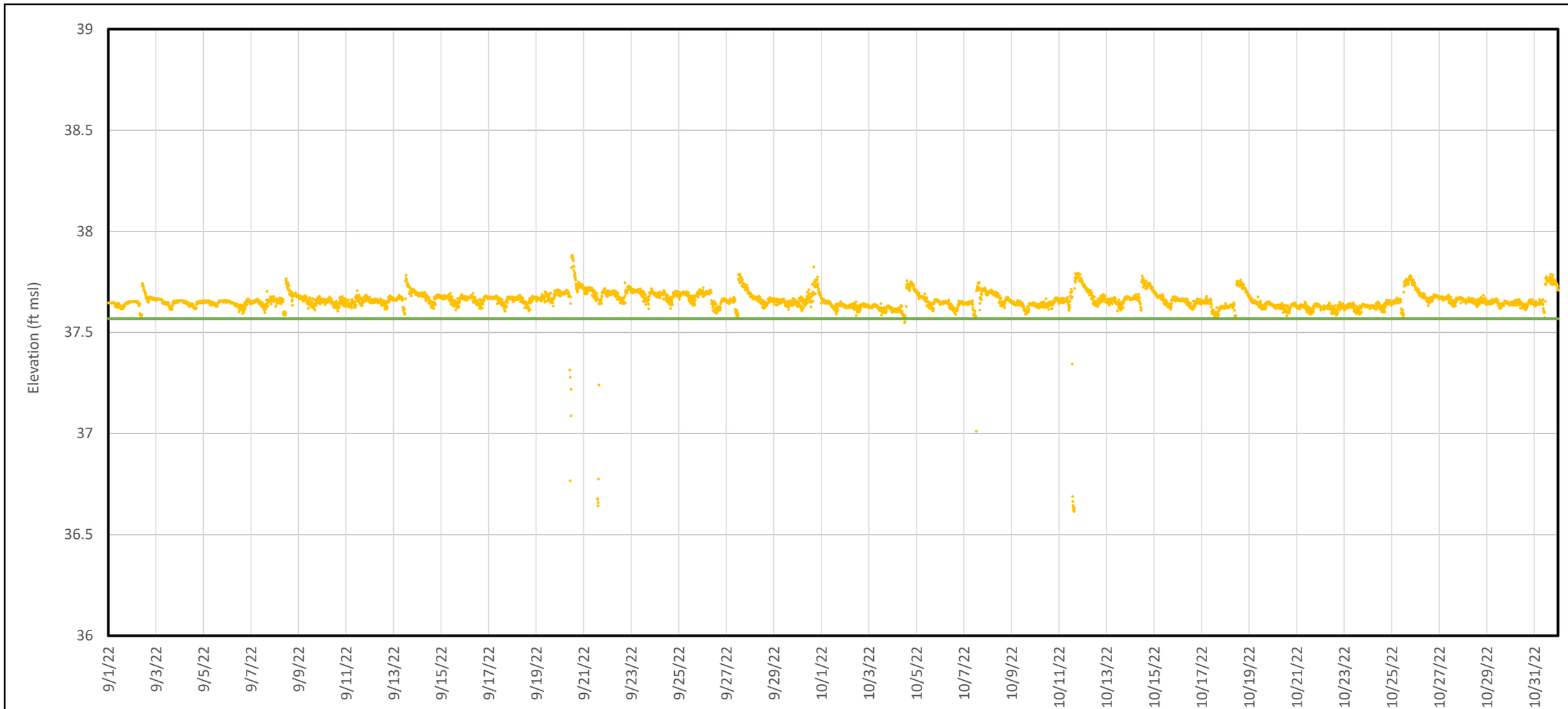
APPENDIX A
Transducer Data Reduction



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

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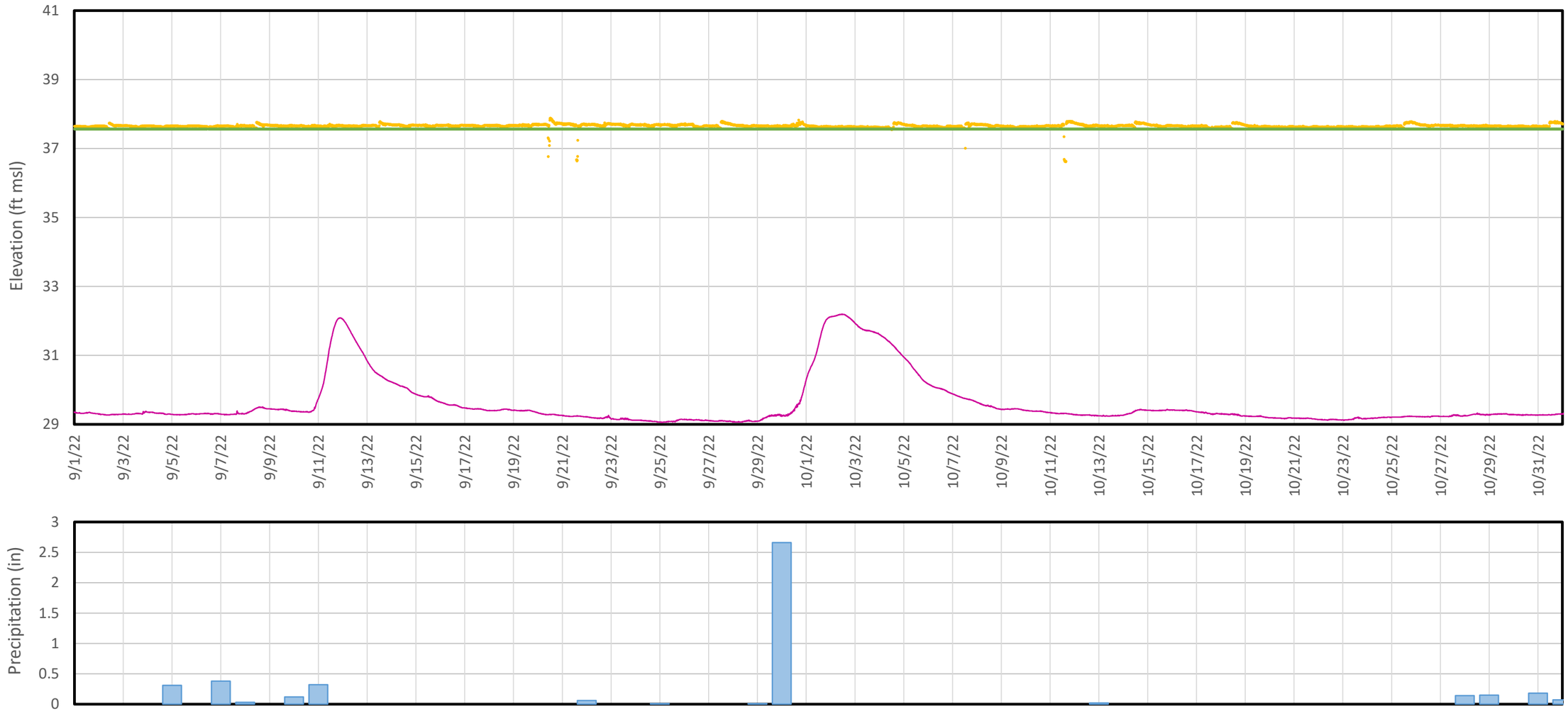
Figure A1-A



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-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

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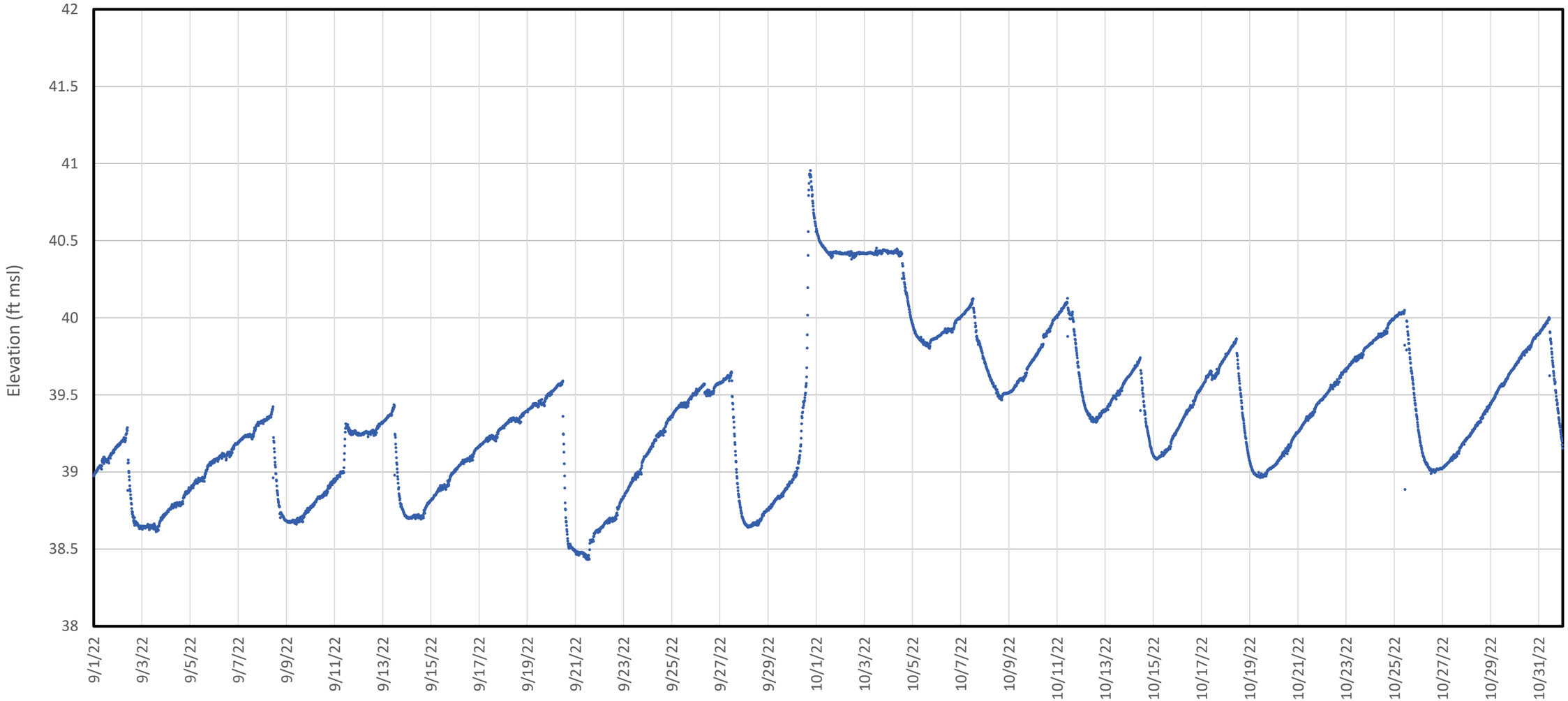
Figure A2-A



Legend

Influent 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

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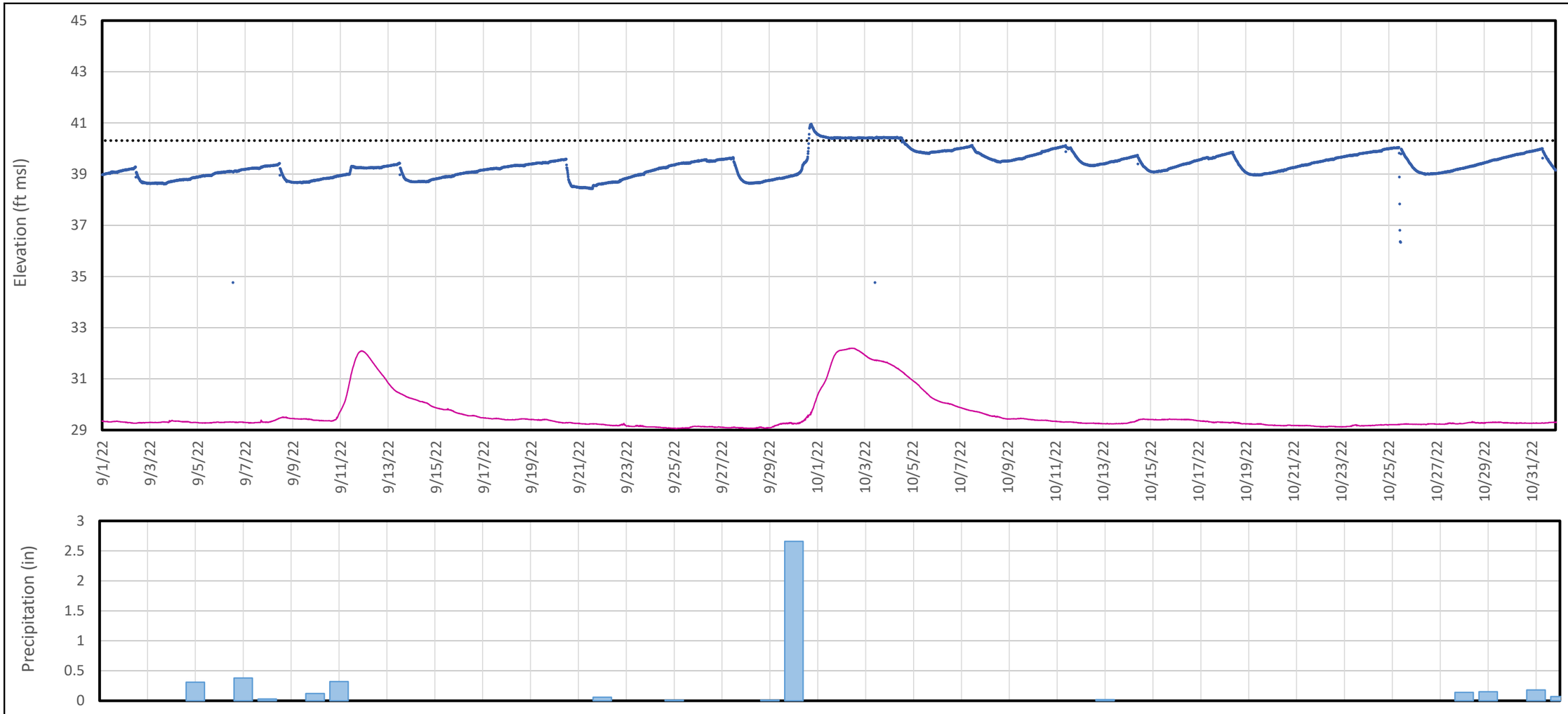
Figure A3-A



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-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

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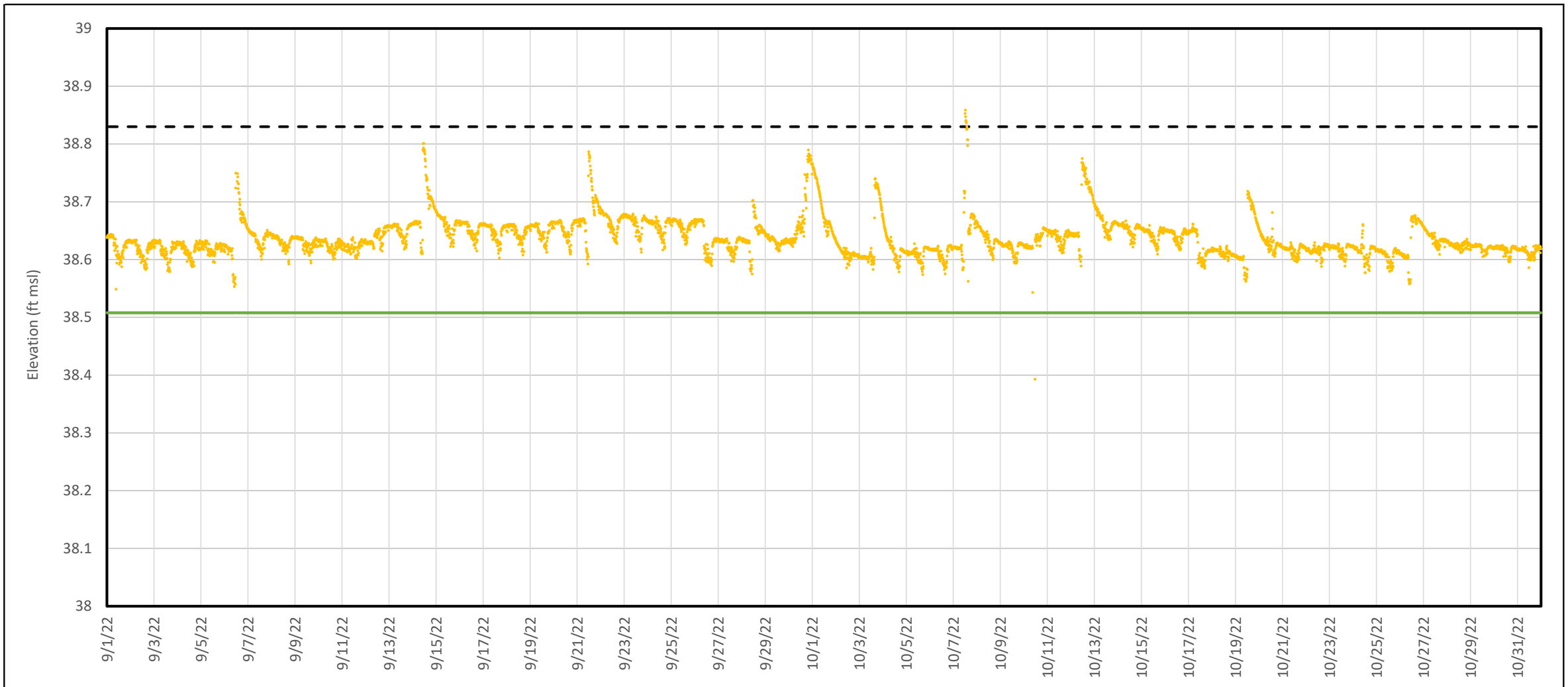
Figure A4-A



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

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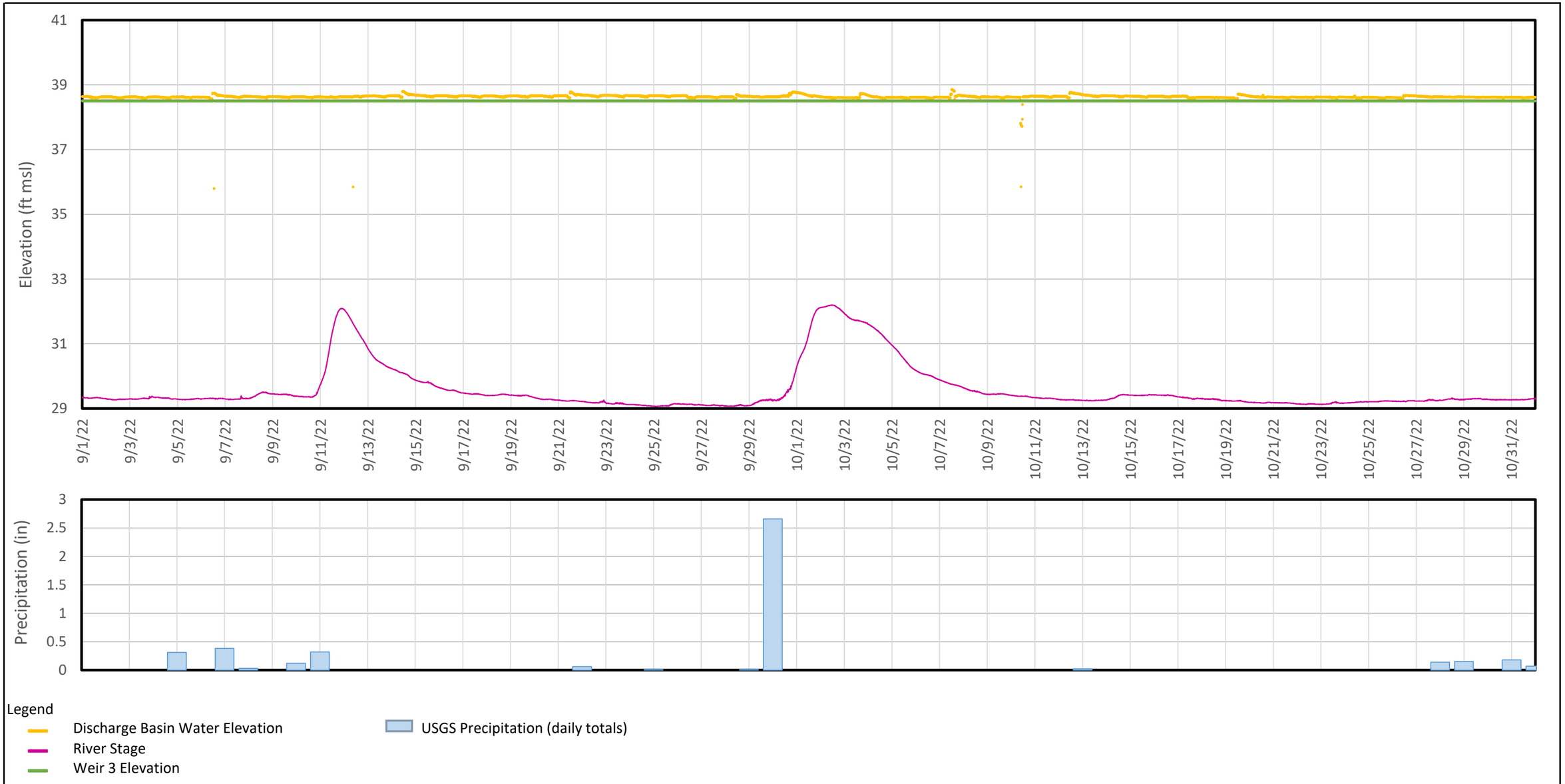
Figure A1-B



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

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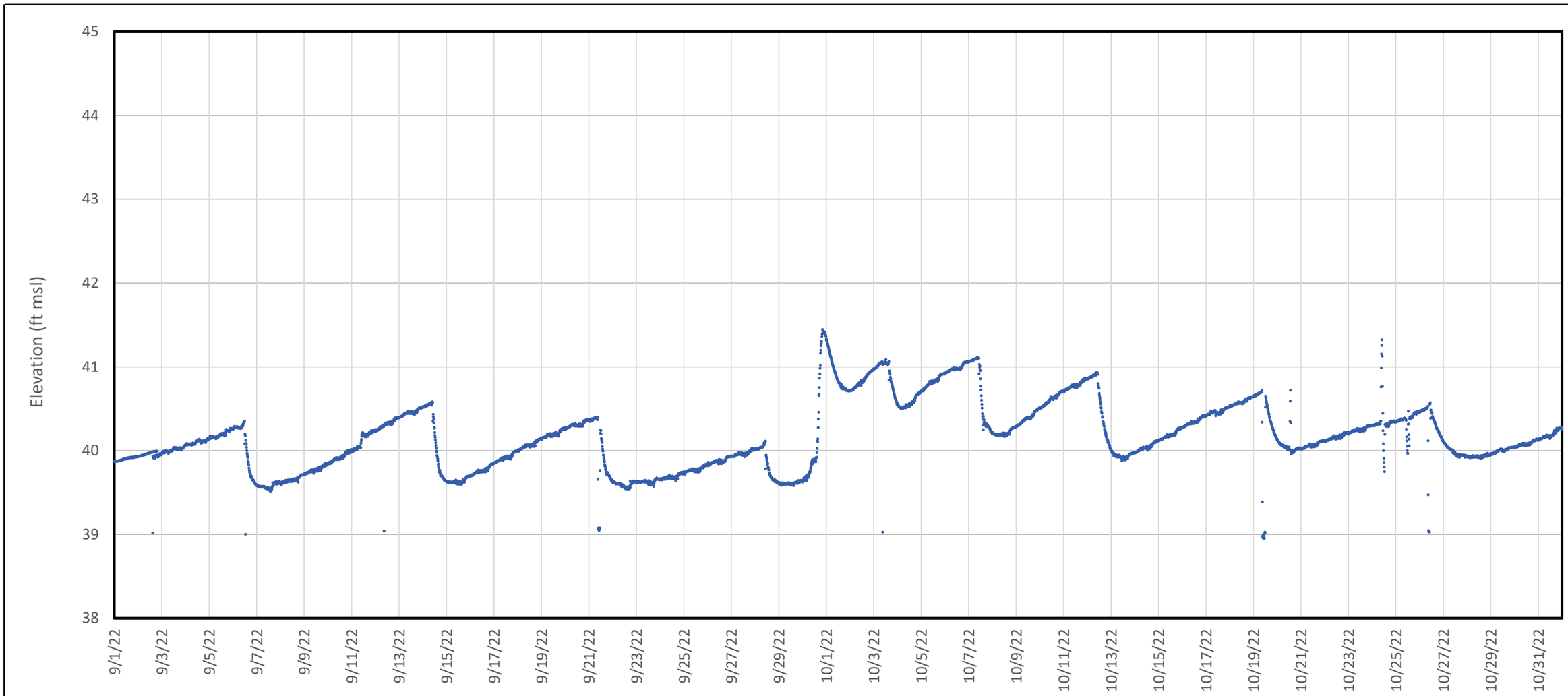
Raleigh, NC | November 2022

Figure A2-B



Legend

Influent 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

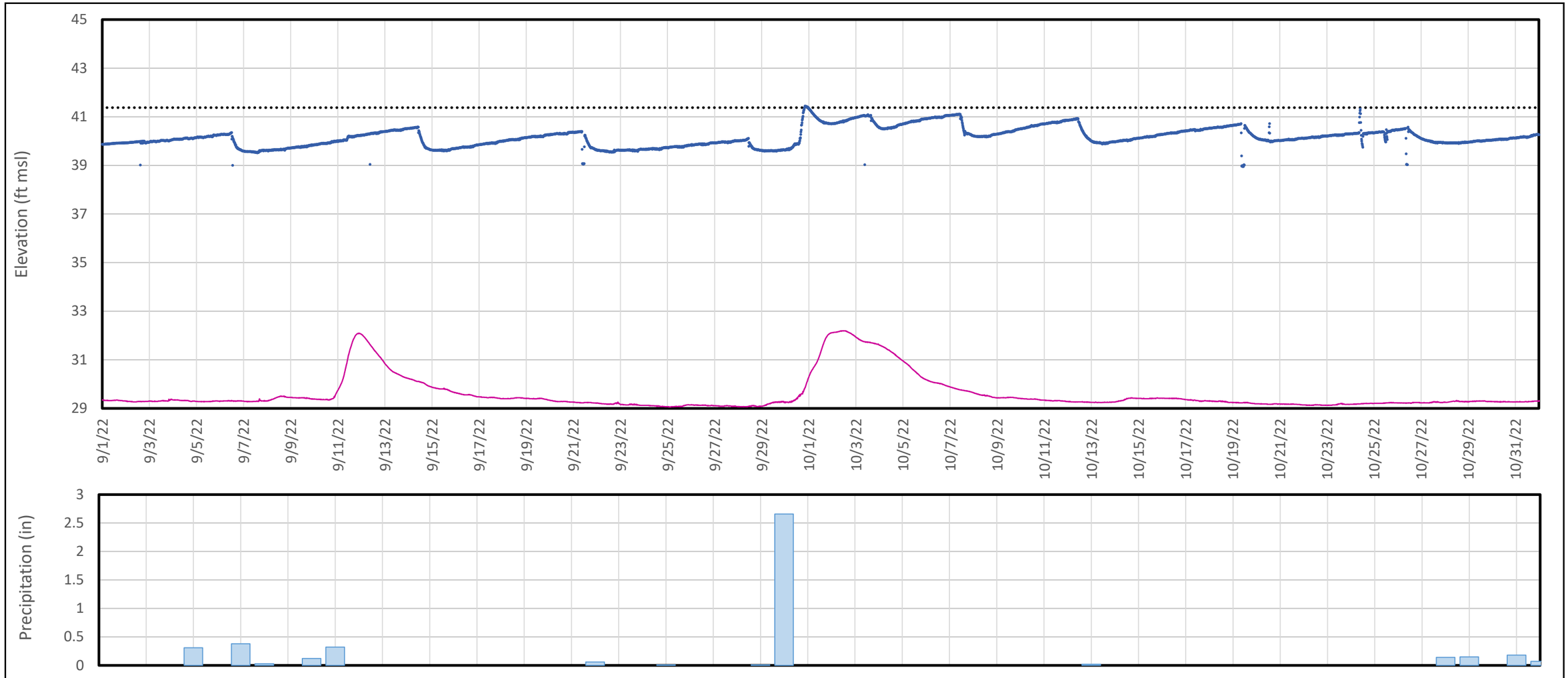
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 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

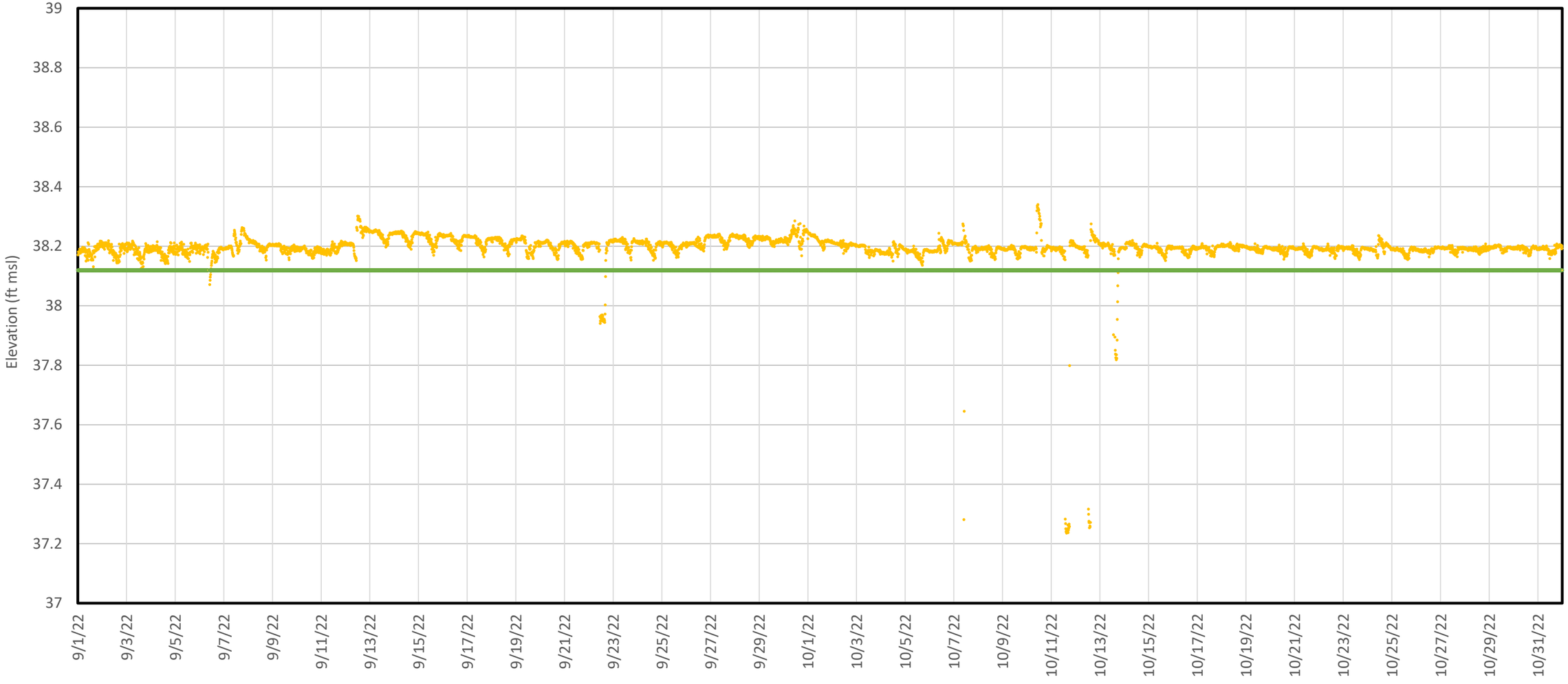
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 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

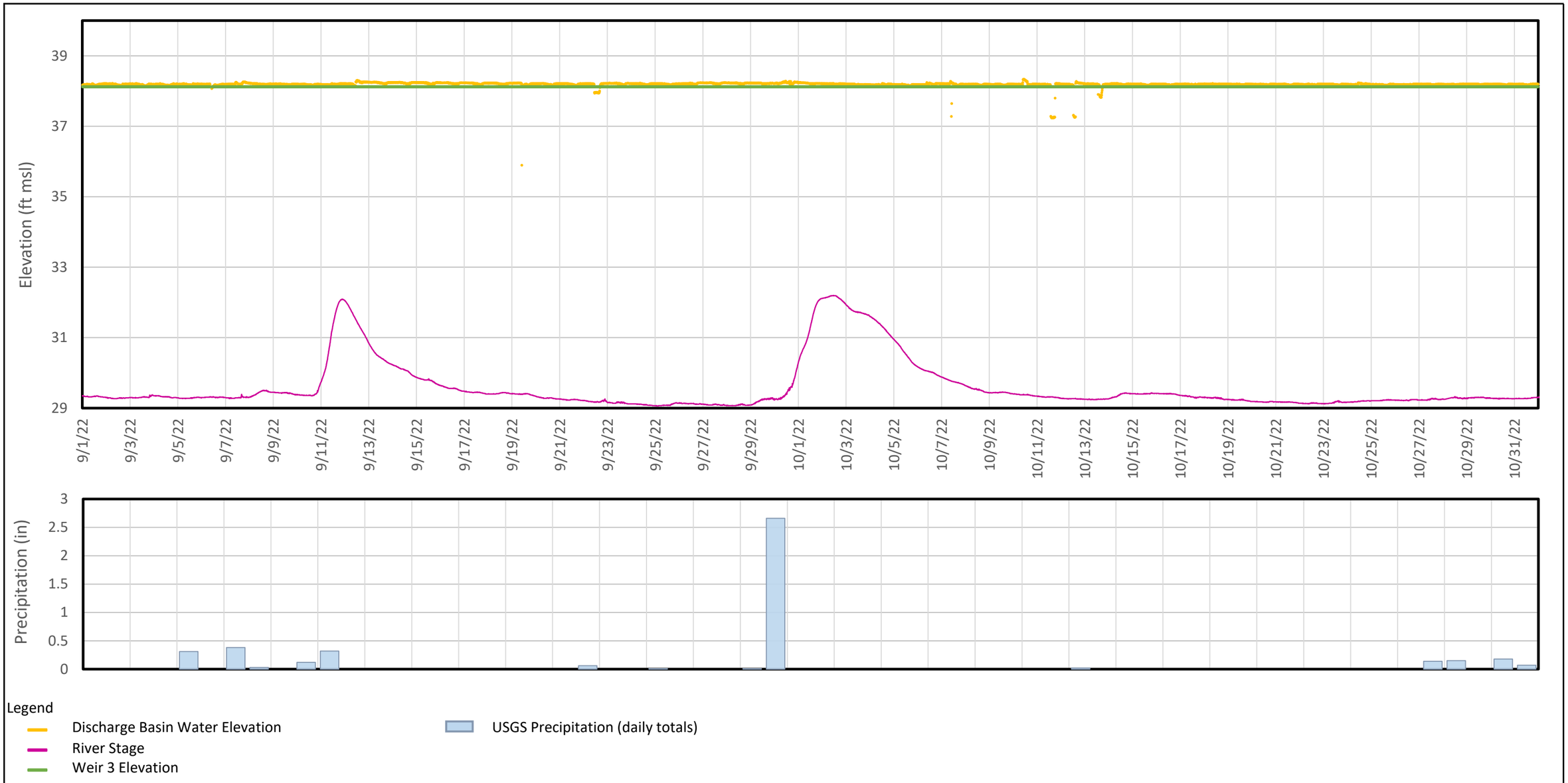
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 2022

Figure A1-C



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-C 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 C

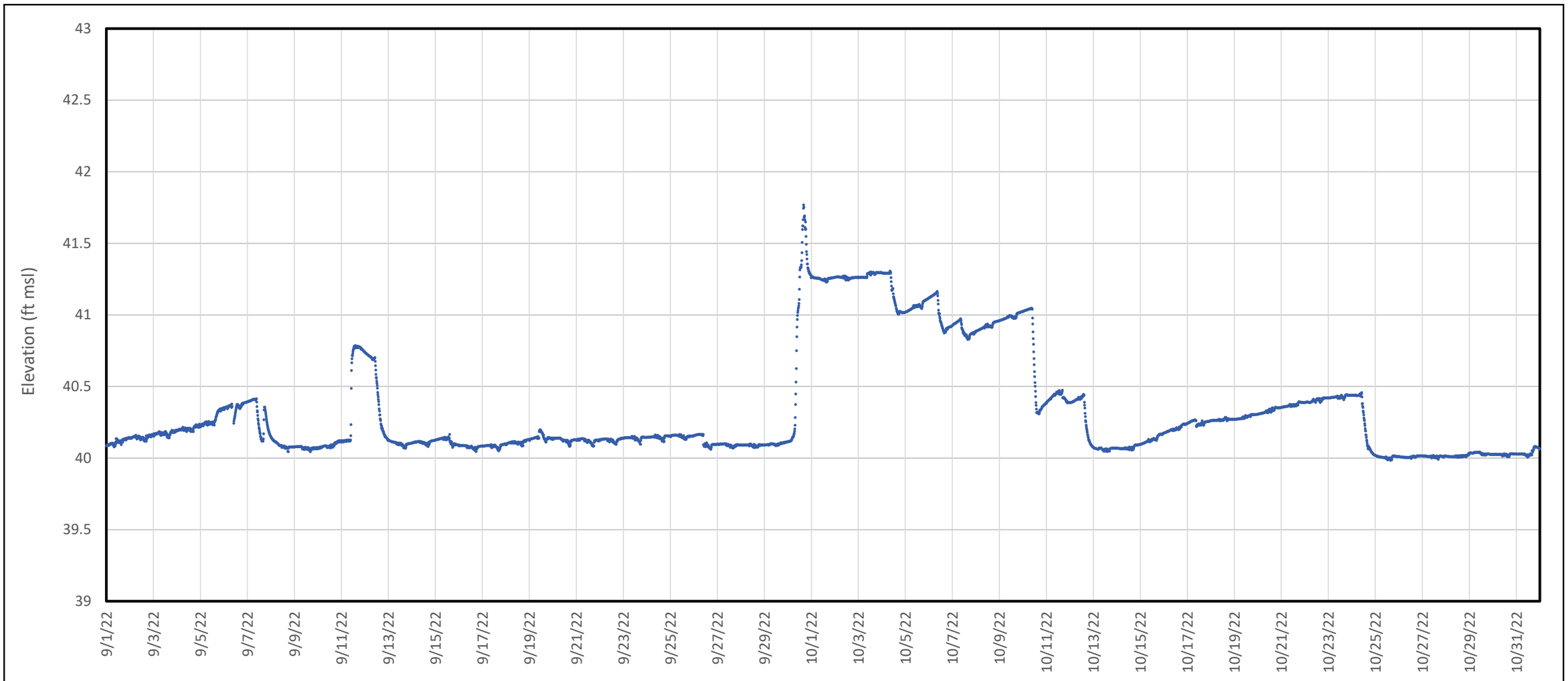
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 2022

Figure A2-C



Legend

Influent 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

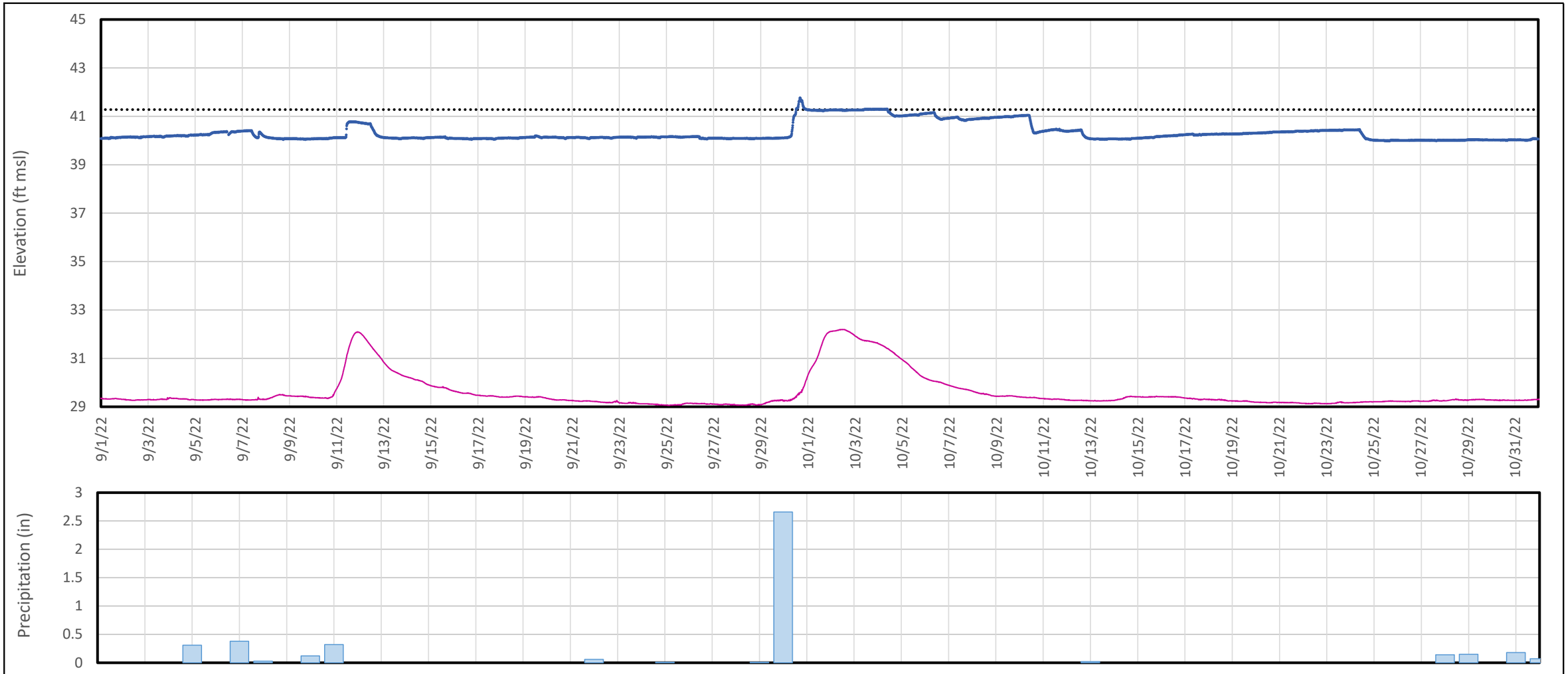
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 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

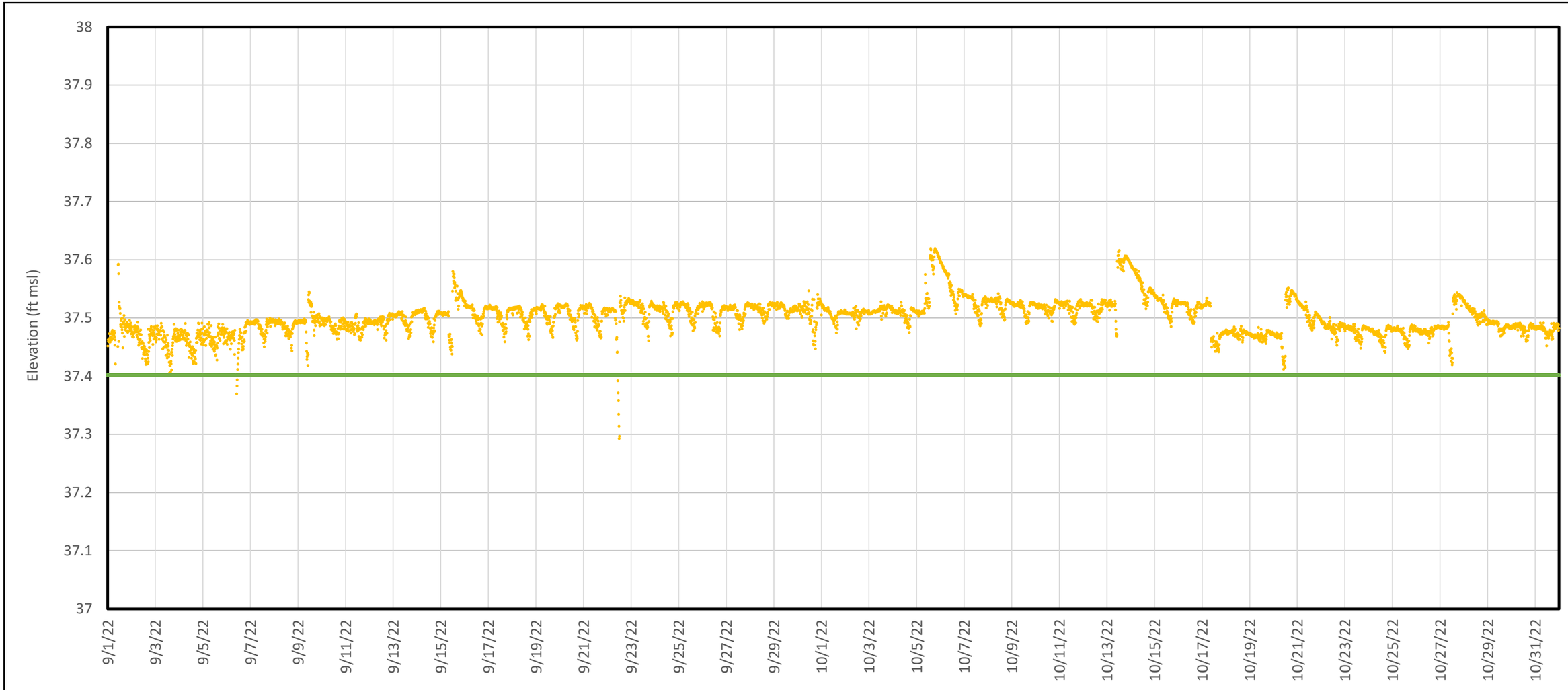
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 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

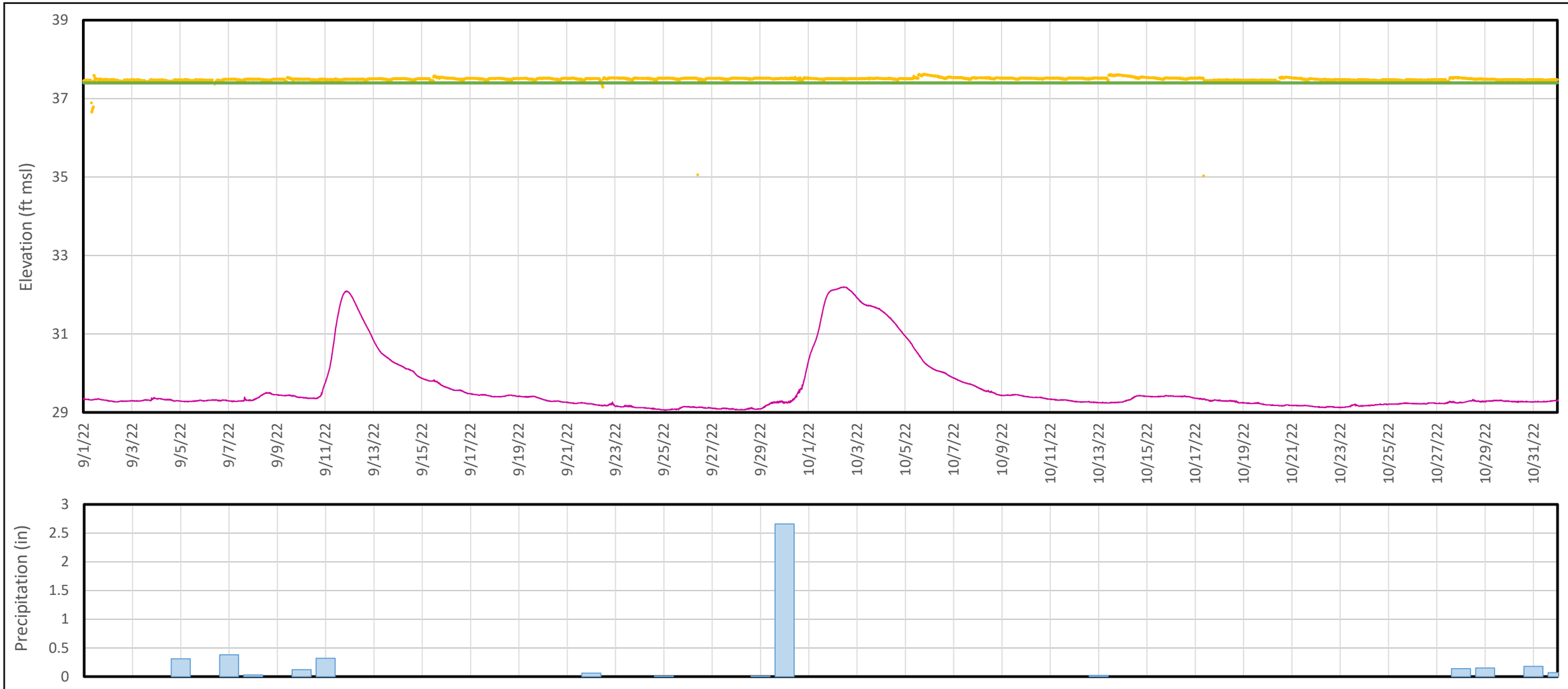
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 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

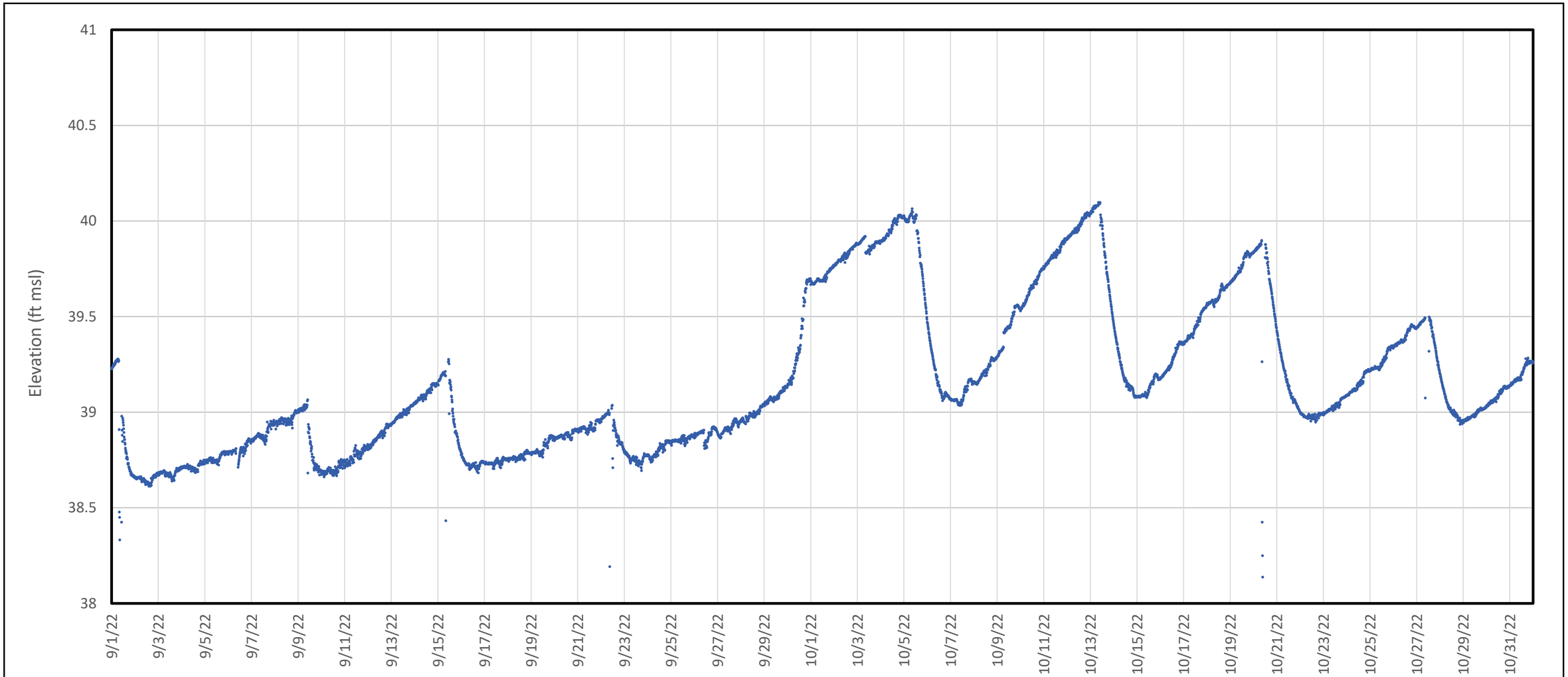
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 2022

Figure A2-D



Legend

Influent 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

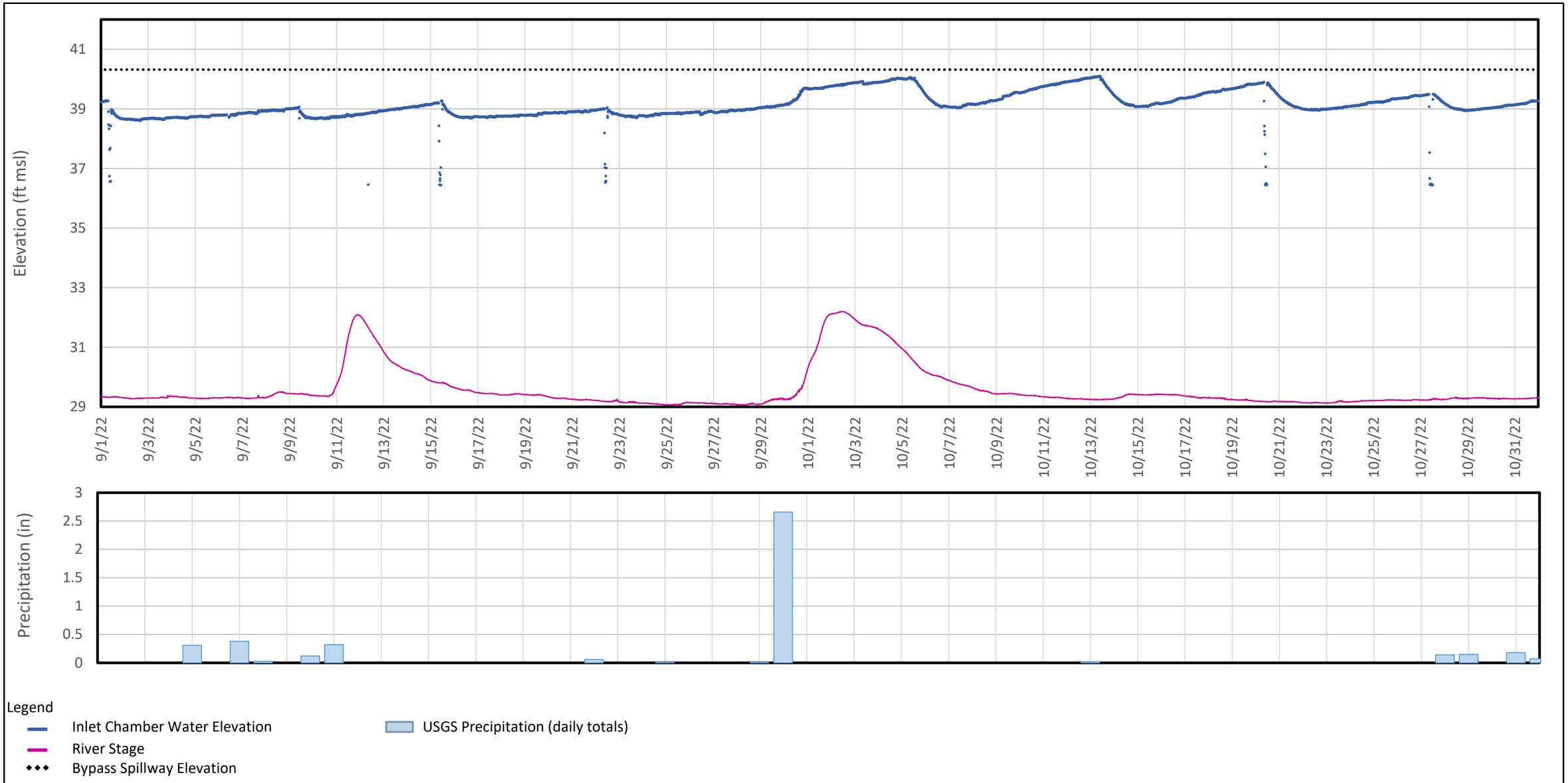
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | November 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.: C 3500 and C 295

Raleigh, NC | November 2022

Figure A4-D

Geosyntec consultants

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

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-A-INFLUENT-RAIN-24-091222	320-92009-1	Surface Water	N	09/12/2022	08:45
SEEP-A-EFFLUENT-RAIN-24-091222	320-92009-2	Surface Water	N	09/12/2022	08:34
SEEP-B-INFLUENT-RAIN-24-091222	320-92009-3	Surface Water	N	09/12/2022	10:57
SEEP-B-EFFLUENT-RAIN-24-091222	320-92009-4	Surface Water	N	09/12/2022	08:35
SEEP-FBLK-091322	320-92009-5	Blank Water	N	09/13/2022	13:50
SEEP-A-INFLUENT-336-091422	320-92142-1	Surface Water	N	09/14/2022	18:00
SEEP-D-EFFLUENT-336-091422-D	320-92142-10	Surface Water	N	09/14/2022	18:00
SEEP-A-EFFLUENT-336-091422	320-92142-2	Surface Water	N	09/14/2022	18:00
SEEP-B-INFLUENT-336-091422	320-92142-3	Surface Water	N	09/14/2022	18:00
SEEP-B-EFFLUENT-336-091422	320-92142-4	Surface Water	N	09/14/2022	18:00
SEEP-C-INFLUENT-336-091522	320-92142-5	Surface Water	N	09/15/2022	15:27
SEEP-C-EFFLUENT-336-091522	320-92142-6	Surface Water	N	09/15/2022	15:08
SEEP-D-INFLUENT-336-091422	320-92142-7	Surface Water	N	09/14/2022	18:00
SEEP-D-EFFLUENT-336-091422	320-92142-8	Surface Water	N	09/14/2022	18:00
SEEP-A-INFLUENT-TSS-091522	320-92148-1	Surface Water	N	09/15/2022	10:10
SEEP-A-EFFLUENT-TSS-091522	320-92148-2	Surface Water	N	09/15/2022	10:15

SEEP-B-INFLUENT-TSS-091522	320-92148-3	Surface Water	N	09/15/2022	09:30
SEEP-B-EFFLUENT-TSS-091522	320-92148-4	Surface Water	N	09/15/2022	09:25
SEEP-C-INFLUENT-TSS-091522	320-92148-5	Surface Water	N	09/15/2022	09:05
SEEP-C-EFFLUENT-TSS-091522	320-92148-6	Surface Water	N	09/15/2022	09:00
SEEP-D-INFLUENT-TSS-091522	320-92148-7	Surface Water	N	09/15/2022	08:20
SEEP-D-EFFLUENT-TSS-091522	320-92148-8	Surface Water	N	09/15/2022	08:15
SEEP-A-INFLUENT-324-092922	320-92658-1	Surface Water	N	09/29/2022	06:00
SEEP-A-EFFLUENT-324-092922	320-92658-2	Surface Water	N	09/29/2022	06:00
SEEP-C-INFLUENT-324-092922	320-92658-3	Surface Water	N	09/29/2022	06:00
SEEP-C-EFFLUENT-324-092922	320-92658-4	Surface Water	N	09/29/2022	06:00
SEEP-D-INFLUENT-306-092922	320-92658-5	Surface Water	N	09/29/2022	11:35
SEEP-D-EFFLUENT-324-092922	320-92658-6	Surface Water	N	09/29/2022	06:00
SEEP-B-EFFLUENT-324-092922	320-92658-7	Surface Water	N	09/29/2022	06:00
SEEP-B-INFLUENT-324-092922	320-92658-8	Surface Water	N	09/29/2022	06:00
SEEP-A-INFLUENT-TSS-092922	320-92660-1	Surface Water	N	09/29/2022	08:45
SEEP-B-INFLUENT-TSS-092922	320-92660-2	Surface Water	N	09/29/2022	09:55
SEEP-C-INFLUENT-TSS-092922	320-92660-3	Surface Water	N	09/29/2022	10:40
SEEP-D-INFLUENT-TSS-092922	320-92660-4	Surface Water	N	09/29/2022	11:45
SEEP-A-EFFLUENT-TSS-092922	320-92660-5	Surface Water	N	09/29/2022	08:40

SEEP-B-EFFLUENT-TSS-092922	320-92660-6	Surface Water	N	09/29/2022	10:00
SEEP-C-EFFLUENT-TSS-092922	320-92660-7	Surface Water	N	09/29/2022	10:45
SEEP-D-EFFLUENT-TSS-092922	320-92660-8	Surface Water	N	09/29/2022	11:40
SEEP-A-INFLUENT-336-101622	320-93308-1	Surface Water	N	10/16/2022	09:00
SEEP-A-EFFLUENT-336-101622	320-93308-2	Surface Water	N	10/16/2022	09:00
SEEP-C-INFLUENT-336-101622	320-93308-3	Surface Water	N	10/16/2022	09:00
SEEP-C-EFFLUENT-336-101622	320-93308-4	Surface Water	N	10/16/2022	09:00
SEEP-D-INFLUENT-336-101622	320-93308-5	Surface Water	N	10/16/2022	09:00
SEEP-D-EFFLUENT-336-101622	320-93308-6	Surface Water	N	10/16/2022	09:00
SEEP-A-EFFLUENT-336-101622-D	320-93308-7	Surface Water	N	10/16/2022	09:00
SEEP-A-INFLUENT-TSS-101722	320-93309-1	Surface Water	N	10/17/2022	08:35
SEEP-A-EFFLUENT-TSS-101722	320-93309-2	Surface Water	N	10/17/2022	08:30
SEEP-C-INFLUENT-TSS-101722	320-93309-3	Surface Water	N	10/17/2022	10:10
SEEP-C-EFFLUENT-TSS-101722	320-93309-4	Surface Water	N	10/17/2022	10:15
SEEP-D-INFLUENT-TSS-101722	320-93309-5	Surface Water	N	10/17/2022	10:45
SEEP-D-EFFLUENT-TSS-101722	320-93309-6	Surface Water	N	10/17/2022	10:50
SEEP-B-EFFLUENT-24-101822	320-93543-1	Surface Water	N	10/18/2022	14:00
SEEP-B-INFLUENT-24-101822	320-93543-2	Surface Water	N	10/18/2022	14:00
SEEP-B-INFLUENT-24-102022	320-93543-3	Surface Water	N	10/20/2022	14:00

SEEP-B-EFFLUENT-24-102022	320-93543-4	Surface Water	N	10/20/2022	14:00
SEEP-B-EFFLUENT-TSS-101822	320-93543-5	Surface Water	N	10/18/2022	14:10
SEEP-B-EFFLUENT-TSS-102022	320-93543-6	Surface Water	N	10/20/2022	13:30
SEEP-B-INFLUENT-TSS-101822	320-93543-7	Surface Water	N	10/18/2022	14:08
SEEP-B-INFLUENT-TSS-102022	320-93543-8	Surface Water	N	10/20/2022	13:35
SEEP-B-EFFLUENT-24-102522	320-93755-1	Surface Water	N	10/25/2022	13:00
SEEP-B-INFLUENT-24-102522	320-93755-2	Surface Water	N	10/25/2022	13:00
SEEP-B-INFLUENT-24-102722	320-93755-3	Surface Water	N	10/27/2022	13:00
SEEP-B-EFFLUENT-24-102722	320-93755-4	Surface Water	N	10/27/2022	13:00
SEEP-B-EFFLUENT-TSS-102522	320-93755-5	Surface Water	N	10/25/2022	13:15
SEEP-B-EFFLUENT-TSS-102822	320-93755-6	Surface Water	N	10/28/2022	08:45
SEEP-B-INFLUENT-TSS-102522	320-93755-7	Surface Water	N	10/25/2022	13:20
SEEP-B-INFLUENT-TSS-102822	320-93755-8	Surface Water	N	10/28/2022	08:50
SEEP-A-INFLUENT-324-103022	320-93858-1	Surface Water	N	10/30/2022	21:00
SEEP-A-EFFLUENT-TSS-110122	320-93858-10	Surface Water	N	11/01/2022	10:25
SEEP-C-INFLUENT-TSS-110122	320-93858-11	Surface Water	N	11/01/2022	09:40
SEEP-C-EFFLUENT-TSS-110122	320-93858-12	Surface Water	N	11/01/2022	09:35
SEEP-D-INFLUENT-TSS-110122	320-93858-13	Surface Water	N	11/01/2022	09:20
SEEP-D-EFFLUENT-TSS-110122	320-93858-14	Surface Water	N	11/01/2022	09:15

SEEP-A-EFFLUENT-324-103022	320-93858-2	Surface Water	N	10/30/2022	21:00
SEEP-C-INFLUENT-324-103022	320-93858-3	Surface Water	N	10/30/2022	21:00
SEEP-C-EFFLUENT-324-103022	320-93858-4	Surface Water	N	10/30/2022	21:00
SEEP-D-INFLUENT-324-103022	320-93858-5	Surface Water	N	10/30/2022	21:00
SEEP-D-EFFLUENT-324-103022	320-93858-6	Surface Water	N	10/30/2022	21:00
SEEP-FBLK-110122	320-93858-7	Blank Water	N	11/01/2022	08:35
SEEP-A-INFLUENT-TSS-110122	320-93858-9	Surface Water	N	11/01/2022	10:30

* 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
Eurofins Environ Testing Northern Cali	SM 2540 D	Total Suspended Solids	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: The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-TSS-101822	10/18/2022	320-93543-5	Total Suspended Solids	1.1	MG/L	MDL	1.1	4.0	UJ	SM 2540 D		
SEEP-B-EFFLUENT-TSS-102522	10/25/2022	320-93755-5	Total Suspended Solids	1.1	MG/L	MDL	1.1	4.0	UJ	SM 2540 D		

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. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-336-101622	10/16/2022	320-93308-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2022 **Validation Options:** LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	PS Acid	0.95	UG/L	PQL		0.098	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	PFO3OA	16	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	EVE Acid	0.10	UG/L	PQL		0.087	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	Hydro-PS Acid	1.8	ug/L	PQL		0.031	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	Hydro-EVE Acid	1.9	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: High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-324-103022	10/30/2022	320-93858-1	Hydrolyzed PSDA	30	UG/L	PQL		0.076	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-324-103022	10/30/2022	320-93858-3	Hydrolyzed PSDA	1.5	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-324-103022	10/30/2022	320-93858-5	Hydrolyzed PSDA	2.1	UG/L	PQL		0.038	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: 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-336-101622-D	10/16/2022	320-93308-7	Hydrolyzed PSDA	0.014	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	R-PSDA	3.0	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	Hydrolyzed PSDA	40	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-092922	09/29/2022	320-92658-1	R-EVE	1.3	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-103022	10/30/2022	320-93858-1	R-PSDA	2.5	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-324-103022	10/30/2022	320-93858-1	R-EVE	0.95	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-091422	09/14/2022	320-92142-1	R-PSDA	2.6	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-091422	09/14/2022	320-92142-1	Hydrolyzed PSDA	39	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-091422	09/14/2022	320-92142-1	R-EVE	0.93	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-101622	10/16/2022	320-93308-1	R-PSDA	2.2	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-101622	10/16/2022	320-93308-1	Hydrolyzed PSDA	25	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-101622	10/16/2022	320-93308-1	R-EVE	0.95	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-091222	09/12/2022	320-92009-1	R-PSDA	1.3	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-091222	09/12/2022	320-92009-1	Hydrolyzed PSDA	17	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-091222	09/12/2022	320-92009-1	R-EVE	0.53	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-324-092922	09/29/2022	320-92658-2	Hydrolyzed PSDA	0.018	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-101622	10/16/2022	320-93308-2	Hydrolyzed PSDA	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-101822	10/18/2022	320-93543-2	Hydrolyzed PSDA	27	UG/L	PQL		0.76	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-102022	10/20/2022	320-93543-3	Hydrolyzed PSDA	26	UG/L	PQL		0.76	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-102522	10/25/2022	320-93755-2	R-PSDA	2.5	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-102522	10/25/2022	320-93755-2	Hydrolyzed PSDA	24	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-102522	10/25/2022	320-93755-2	R-EVE	0.76	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-102722	10/27/2022	320-93755-3	R-PSDA	2.4	UG/L	PQL		0.35	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: 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-24-102722	10/27/2022	320-93755-3	Hydrolyzed PSDA	24	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-102722	10/27/2022	320-93755-3	R-EVE	0.81	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-092922	09/29/2022	320-92658-8	R-PSDA	3.1	UG/L	PQL		0.35	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-092922	09/29/2022	320-92658-8	Hydrolyzed PSDA	35	UG/L	PQL		0.19	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-092922	09/29/2022	320-92658-8	R-EVE	1.3	UG/L	PQL		0.36	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-091422	09/14/2022	320-92142-3	R-PSDA	1.3	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-091422	09/14/2022	320-92142-3	Hydrolyzed PSDA	16	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-091422	09/14/2022	320-92142-3	R-EVE	0.44	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-091222	09/12/2022	320-92009-3	R-PSDA	1.6	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-091222	09/12/2022	320-92009-3	Hydrolyzed PSDA	21	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-091222	09/12/2022	320-92009-3	R-EVE	0.66	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-324-092922	09/29/2022	320-92658-3	R-PSDA	1.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-324-092922	09/29/2022	320-92658-3	Hydrolyzed PSDA	2.1	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-324-092922	09/29/2022	320-92658-3	R-EVE	1.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-324-103022	10/30/2022	320-93858-3	R-PSDA	1.0	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-324-103022	10/30/2022	320-93858-3	R-EVE	0.86	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-091522	09/15/2022	320-92142-5	R-PSDA	0.80	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-091522	09/15/2022	320-92142-5	Hydrolyzed PSDA	1.2	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-091522	09/15/2022	320-92142-5	R-EVE	0.65	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-101622	10/16/2022	320-93308-3	R-PSDA	0.54	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-101622	10/16/2022	320-93308-3	Hydrolyzed PSDA	0.75	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-101622	10/16/2022	320-93308-3	R-EVE	0.47	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-306-092922	09/29/2022	320-92658-5	R-PSDA	1.0	UG/L	PQL		0.071	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: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-INFLUENT-306-092922	09/29/2022	320-92658-5	Hydrolyzed PSDA	2.6	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-306-092922	09/29/2022	320-92658-5	R-EVE	0.99	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-324-103022	10/30/2022	320-93858-5	R-PSDA	0.91	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-324-103022	10/30/2022	320-93858-5	R-EVE	0.89	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-091422	09/14/2022	320-92142-7	R-PSDA	1.0	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-091422	09/14/2022	320-92142-7	Hydrolyzed PSDA	3.0	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-091422	09/14/2022	320-92142-7	R-EVE	1.6	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-101622	10/16/2022	320-93308-5	R-PSDA	0.84	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-101622	10/16/2022	320-93308-5	Hydrolyzed PSDA	1.9	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-101622	10/16/2022	320-93308-5	R-EVE	0.83	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: The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-INFLUENT-TSS-101822	10/18/2022	320-93543-7	Total Suspended Solids	6.8	MG/L	MDL	1.1	4.0	J	SM 2540 D		
SEEP-B-INFLUENT-TSS-102522	10/25/2022	320-93755-7	Total Suspended Solids	5.6	MG/L	MDL	1.1	4.0	J	SM 2540 D		

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-D-EFFLUENT-336-091422	09/14/2022	320-92142-8	PFMOAA	0.0045	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep