

Permit #

NC000XXXX

Month:

JULY

Year:

2025

Facility:

Chemours Company-Fayetteville Works

Class:

Pending

County:

Bladen

ORC:

Jamie R. Lewis

Grade:

Pending

ORC Certification #

994529

Has ORC Changed?:

☐

Phone:

910-678-1219

Certified Lab Name:

Eurofins Lancaster Laboratories Environmental

Lab#:

521

Person(s) Collecting samples:

Facility staff

Comments:

1. Non-detect influent and effluent sample results were assigned a value of zero for the calculation and the values from duplicate samples were averaged together.

2. Monthly average influent and effluent concentrations are volume-weighted based on "Average Calculations" worksheet.

3. Permit and discharge numbers pending per application submitted on June 4, 2021.

4. Rainfall was taken from Huske Dam USGS - except for June 5, 2025 which used Chemours Safer Data due to discrepancy in USGS for that day.

Sampling Location:

Influent

Discharge #

Pending

Date					50050	50050		52612	52613	52620								
	Composite/ Sample Start Time	Composite/ Sample End Time	Total Composite Time	Precipitation	Influent to EQ Storage	Influent to Treatment System	Influent Volumetric Weighting Factor	HFPO-DA	PFMOAA	PMPA								
	2400 clock	2400 clock	hrs	inches	mgd	mgd		ug/l	ug/l	ug/l								
1	830	1530	7			0.212	0.21	52	1.6	1.3								
2				1.94	0.373	0.305												
3				0.01	0.086	0.269												
4				0.01	0.044													
5				0.04	0.044													
6				1.41	0.318													
7	830	1530	7			0.223	0.22	27	1.3	1.4								
8						0.308												
9						0.315												
10	800	1530	7.5	0.2	0.028	0.206	0.2	25	1.2	1.3								
11				0.02	0.022													
12																		
13				0.01	0.015													
14																		
15																		
16	900	1530	6.5	0.12	0.094	0.173	0.17	3.6	0.19	< 0.62								
17						0.039												
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27				0.91	0.308													
28	800	1500	7	0.01	0.01	0.209	0.2	29	1.5	1.3								
29						0.275												
30																		
31				0.87	0.245													
Composite(CP)/Grab(GR)/Recorder(RC):					RC	RC		CP	CP	CP								
Monthly Average Limit:																		
Monthly Average:				0.18	0.051	0.082		33	1.4	1.3								
Daily Maximum:				1.94	0.373	0.315	0.22	52	1.6	1.4								
Daily Minimum:				0.01	0.010	0.039	0.17	4	0.2	1.3								

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Facility:	Chemours Company-Fayetteville Works	Class:	Pending	County:	Bladen
ORC:	Jamie R. Lewis	Grade:	Pending	ORC Certification #	994529
Has ORC Changed?:	☐	Phone:	910-678-1219		
Certified Lab Name:	Eurofins Lancaster Laboratories Environmental			Lab#:	521

Person(s) Collecting samples: Facility staff

Comments:

1. Non-detect influent and effluent sample results were assigned a value of zero for the calculation and the values from duplicate samples were averaged together.
2. Monthly average influent and effluent concentrations are volume-weighted based on "Average Calculations" worksheet.

Sampling Location: Effluent Discharge # Pending

[illegible]

EQUATION 1: SYSTEM REMOVAL EFFECTIVENESS FOR INDICATOR PARAMETERS CALCULATIONS

Date	Sample Number	Inputs for Monthly Evaluation Period of JULY 2025									
		Influent Concentration			Influent Volume	Effluent Concentration			Effluent Volume	Influent Concentration Volumetric Weighting Factor	Effluent Concentration Volumetric Weighting Factor
		HFPO-DA (<i>i</i>)	PFMOAA (<i>i</i>)	PMPA (<i>i</i>)		HFPO-DA (<i>i</i>)	PFMOAA (<i>i</i>)	PMPA (<i>i</i>)			
	<i>m, n</i>	<i>c_{inf,n,HFPO-DA}</i>	<i>c_{inf,n,PFMOAA}</i>	<i>c_{inf,n,PMPA}</i>	<i>V_n</i>	<i>c_{eff,m,HFPO-DA}</i>	<i>c_{eff,m,PFMOAA}</i>	<i>c_{eff,m,PMPA}</i>	<i>V_m</i>	<i>w_n</i>	<i>w_m</i>
	-	µg/L	µg/L	µg/L	mgd	µg/L	µg/L	µg/L	mgd	-	-
7/1/2025	1	52	1.6	1.3	0.212	< 0.002	< 0.002	< 0.01	0.210	0.21	0.26
7/7/2025	2	27	1.3	1.4	0.223	< 0.002	< 0.002	< 0.01	0.220	0.27	0.27
7/10/2025	3	25	1.2	1.3	0.206	< 0.002	< 0.002	< 0.01	0.2	0.25	0.25
7/16/2025	4	3.6	0.19	< 0.62	0.173	< 0.002	< 0.002	< 0.01	0.173	0.21	0.22
7/28/2025	5	29	1.5	1.3	0.209	< 0.002	< 0.002	< 0.01	0.209	0.26	0.26

Results Monthly Evaluation Period of						JULY			2025		
Volume-weighted Influent Concentration			Volume-weighted Effluent Concentration			Treatment System PFAS Removal Efficiency for HFPO-DA, PFMOAA, and PMPA					
$c_{inf,HFPO-DA}$	$c_{inf,PFMOAA}$	$c_{inf,PMPA}$	$c_{eff,HFPO-DA}$	$c_{eff,PFMOAA}$	$c_{eff,PMPA}$	$E_{TS-IXM-HFPO-DA}$	$E_{TS-IXM-PFMOAA}$	$E_{TS-IXM-PMPA}$			
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	%	%	%			
33	1	1.3	0.000	0.000	0.000	100.0	100.0	100.0			

