

## How I Found ECHO: Mapping Presentation

2021

Contacts: Professor La'Meshia Whittington / [LaMeshia@ncblackalliance.org](mailto:LaMeshia@ncblackalliance.org) / 919-793-8767

- A. How I Found ECHO
  - a. Define how I found the enforcement and compliance tool via Google
  - b. Describe how I used this tool to highlight community concerns with the corporation
- B. Project Tools and Application
  - a. ECHO
  - b. It gave plain language emissions total and demography of impacted communities in proximity to the plant.
- C. Process Implemented
  - a. I used this tool in my PFAS presentation as a Community Liaison to the National Academies of Sciences.
  - b. This data assisted in my recommendations of blood testing in impacted communities to inform future CDC clinical guidelines.
- D. Results of the Project
  - a. This presentation has informed over 300 community leaders, scientists, doctors and national experts across 7+ states.
- E. Summary (if any)
  - a. Please see attached powerpoint that will show how I found ECHO and sample of my presentation informed by the data found via ECHO

# How I Found ECHO



Enforcement and Compliance History  
Professor La'Meshia Whittington

<https://echo.epa.gov/facilities/facility-search>

## Facility Search – Enforcement and Compliance Data | ECHO ...

Feb 4, 2021 – Restrict Air **facilities** based on selections below. Additional **facilities** may be in these databases, but those not linked to ICIS-Air aren't included.

Missing: **fayetteville** | Must include: **fayetteville**

<https://echo.epa.gov/help/facility-search/water-sea...>

## Search Results Help - Water | ECHO | US EPA

Information and data specific to the Water **facility search** is described below, including: ... When you choose Data Table view from the **search** form, **ECHO** displays 500 ... **Works** (POTW), in pounds, as reported to TRI by the **facility** for the most recent ... from a Combined Sewer System at a point prior to the treatment **plant**.

Missing: **fayetteville** | Must include: **fayetteville**

<https://www.chemours.com/global-reach/fayetteville...>

## Fayetteville Works - Chemours

Bottled water will continue to be delivered to eligible residents as scheduled, and supplemental water will be available at our **plant** site on Mondays from 2-6 p.m. ...

Missing: **echo** | Must include: **echo**

<https://www.fayobserver.com/news/2021/01/27/de...>

## NC activists hope Biden EPA will force 'forever chemical' study

Jan 27, 2021 – **Fayetteville Works** on N.C. 87 just south of **Fayetteville**. ... chemicals into the Cape Fear from the sprawling **Fayetteville Works plant** which sits ... Geoff Gisler a senior

# Google search results



Quick Search



Search Options



Analyze Trends



Find EPA Cases



Data Services



Help

## Quick Search

Search By

Location

Facility Name/ID

fayetteville works plant



Search

[More Search Options](#)

Use EPA's Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations. You can use ECHO to:

- Search for Facilities
- Investigate Pollution Sources
- Search for EPA Enforcement Cases
- Examine and Create Enforcement-Related Maps
- Analyze Trends in Compliance & Enforcement Data



[Read the Quick Start Guide](#)



[Watch a Video Tutorial](#)



[Explore the Tool Guide](#)



[Customize Columns](#)
[Download Data](#)
[Quick CSV Download](#)
[Results Guide](#)
[Reports Legend](#)

Facility Name	Mapped	Street Address	City	State	FRS ID	Reports	Inspections (5 years)	Significant Violations	Quarters with Noncompliance (3 years)	Formal Enforcement Actions (5 years)
<a href="#">CALIBER COLLISION CENTER - FAYETTEVILLE - EAST 1548</a>		6663 RAEFORD RD	FAYETTEVILLE	NC	110062921441		0	No	0	0
<a href="#">CALIBER COLLISION CENTERS-FAYETTEVILLE</a>		1509 SKIBO RD	FAYETTEVILLE	NC	110069462888		0	No	0	0
<a href="#">CAPE FEAR HARLEY DAVIDSON</a>		3950 SYCAMORE DAIRY RD	FAYETTEVILLE	NC	110044822010		0	No	0	0
<a href="#">CAPE FEAR VALLEY MED CENTER</a>		1638 OWEN DRIVE	FAYETTEVILLE	NC	110001476885		5	No	0	0
<a href="#">CARGILL INC</a>		1754 RIVER ROAD	FAYETTEVILLE	NC	110009849968		6	No	1	2
<a href="#">CEC INC</a>		209 N BROAD ST	FAYETTEVILLE	NC	110004057617		0	No	0	0
<a href="#">CHEMOURS COMPANY - FAYETTEVILLE WORKS</a>		22828 NC-87	FAYETTEVILLE	NC	110000559609		7	No	12	2

Active/Operating: Yes ✕  
 City: fayetteville ✕

**Explore Enforcement and Compliance Criteria**

- 11 Facilities with Current Violations
- 1 Facilities with Significant Violations
- 16 Facilities with Violations (3 years)
- 5 Facilities with Formal Enforcement Actions (5 years)
- 19 Facilities with Informal Enforcement Actions (5 years)

[Modify Search](#)

**Filter Facilities**

Not Filtering on 218 Facilities

Only Show Matches

**Facility Characteristics**

Facility Type  
 12 Major  206 Minor

Facility Permit/ID  
 48 Has Water Permit (ICIS-NPDES)  
 34 Has ICIS-Air ID  182 Has RCRA ID  
 14 Has TRI Releases

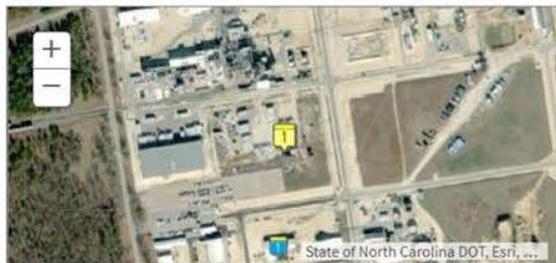
**Enforcement and Compliance Characteristics**

14 Facilities with Violations (1 or more quarters within the past 3 years)

1 2 3 4 5 6 7 8 9 10 11 12

Facilities with Formal Enforcement Actions (5 yrs)

Filter search results



**CHEMOURS COMPANY - FAYETTEVILLE WORKS**  
 22828 NC-87, FAYETTEVILLE, NC 28306 ⓘ

FRS ID: 110000559609  
 EPA Region: 04  
 Latitude: 34.8419  
 Longitude: -78.8388  
 Locational Data Source: EIS  
 Industry:  
 Indian Country: N

**Related Reports**

- [I Enforcement Case Report](#)
- [A Air Pollutant Report](#)
- [L CWA Pollutant Loading Report](#)
- [E CWA Effluent Charts](#)
- [X CWA Effluent Limit Exceedances Report](#)
- [View Envirofacts Reports](#)



**Enforcement and Compliance Summary**

Stature	Insp (5 Years)	Date of Last Inspection	Compliance Status	Qtrs with NC (of 12)	Qtrs with Significant Violation	Informal Enforcement Actions (5 years)	Formal Enforcement Actions (5 years)	Penalties from Formal Enforcement Actions (5 years)	EPA Cases (5 years)	Penalties from EPA Cases (5 years)
CAA	3	02/03/2021	No Violation Identified	1	0	1	--	--	--	--
CWA	2	02/05/2020	Violation Identified	12	0	2	--	--	--	--
RCRA	2	04/10/2019	No Violation Identified	1	0	1	1	\$0	1	\$0
SDWA	--	06/21/2002	Inactive	0	0	--	--	--	--	--

**Regulatory Information**

Clean Air Act (CAA): Operating Minor (NC0000003700900092),  
 Operating Major (NC0000003700900009)  
 Clean Water Act (CWA): Major, Permit Expired (NC0003573)

**Other Regulatory Reports**

Air Emissions Inventory (EIS): 8480711  
 Greenhouse Gas Emissions (eGGRT): [1006145](#)  
 Toxic Releases (TRI): 28302DPNTHIGHW

# Facility Summary

# Toxic and Pollutants Inventory:

## Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year <sup>①</sup>

Chemical Name	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
ACETONITRILE	67,558	56,800	99,604	52,874	40,510	66,046	55,990	69,227	55,486	48,634
AMMONIA	21,485	15,768	16,141	27,802	47,278	65,981	64,192	58,901		
BENZO(G,H,I)PERYLENE							0	0	0	0
BUTYRALDEHYDE							183,650	141,549	102,472	95,952
CERTAIN GLYCOL ETHERS										11,036
CHLORINE										
DICHLOROMETHANE	3,985	6,679	10,357	14,828	21,624	16,018	26,289	12,378	10,439	
ETHYLENE GLYCOL							1,261	4,566	720	
FREON 113										
HYDROCHLORIC ACID (1995 AND AFTER ACID AEROSOLS ONLY)							8	8	10	36
METHANOL	795	8,943	9,997	7,423	8,509	10,141	67,115	63,524	35,286	35,370

## Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site <sup>①</sup>

[Air Pollutant Report](#) [TRI Pollution Prevention Report](#)



TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Transfers
28302DPNTFHIGHW	2019	87,307	40,789	0		0	128,096	95,442
28302DPNTFHIGHW	2018	108,393	47,117	0		0	155,510	85,457
28302DPNTFHIGHW	2017	107,027	35,821	0		0	142,848	129,122
28302DPNTFHIGHW	2016	62,181	83,325	0		0	145,506	85,901
28302DPNTFHIGHW	2015	64,784	58,428	0		0	123,212	98,822
28302DPNTFHIGHW	2014	155,580	111,936	0		0	267,516	80,672
28302DPNTFHIGHW	2013	298,233	325,904	0		0	626,137	80,881
28302DPNTFHIGHW	2012	239,137	184,921	0		0	424,058	82,450
28302DPNTFHIGHW	2011	209,166	123,301	0		0	332,467	53,323

## Demographic Profile of Surrounding Area (3 Miles)



Select radius:

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2006-2010 American Community Survey 5-Year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics	
Total Persons	1,946
Population Density	70/sq.mi.
Percent Minority	29%
Households in Area	729
Housing Units in Area	777
Households on Public Assistance	10
Persons Below Poverty Level	737

Geography	
Radius of Selected Area	3 mi.
Center Latitude	34.8419
Center Longitude	-78.6388
Land Area	98%
Water Area	2%

Income Breakdown - Households (%)	
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Age Breakdown - Persons (%)	
Children 5 years and younger	107 (6%)
Minors 17 years and younger	487 (25%)
Adults 18 years and older	1,459 (75%)
Seniors 65 years and older	213 (11%)

Race Breakdown - Persons (%)	
White	1,451 (75%)
African-American	317 (16%)
Hispanic-Origin	149 (8%)
Asian/Pacific Islander	9 (0%)
American Indian	53 (3%)
Other/Multiracial	117 (6%)

Education Level (Persons 25 & older) - Persons (%)	
Less than 9th Grade	114 (8.53%)
9th through 12th Grade	166 (12.42%)

# Demographics



## High Priority Populations

### Our Concerns:

#### Expectant Mothers

- PFAS can cross over the placenta.
- PFAS can be passed to the infant through breastfeeding.
- The need for blood testing in PFAS contaminated zones.
- Followed by the need for adequate medical care for expectant parent and child.

\*Increased infertility concerns among men.

#### Returning Citizens

- In 2018, there were 35,000+ people in North Carolina prisons.
- Blood testing for individuals in custody of law enforcement.
- Blood testing and clinical support post-release.
- Clinical guidelines for free clinics and urgent cares.
- Not often included in outreach for community input or testing.

#### Communities Living with Disabilities

- Comprises 18% of total extremely low income renter households.
- Exposure to PFAS through food supply, carpet and manufactured materials.
- Accessibility and accommodations built into blood testing outreach.

La'Meshia Whittington, Author



## High Priority Populations

### Firefighters

- Lack of testing options or studies for firefighters exposed to PFAS in AFFF foam.
- The need to test and track impact of layered exposure via a foam substance, uniforms and air emissions.
- Clinical guidelines for health care providers specific to essential workers with increased exposure to PFAS.

### Living & Care Facilities & Alternative Housing

- There are 27 senior living care facilities housing over 2,152 residents downstream of the Cape Fear River.
- Testing should include this population.
- Provide clinical guidelines on the front end to Social Security Services, DSS, DHHS and Disability Rights.
- Heightened concern with water quality, manufactured materials, and air emissions.
- Accessible testing for families dwelling in alternative housing: hotels, extend stays, shelters, etc.

### Students

- There are numerous community colleges and a Historically Black College & University in proximity to Fayetteville Works.
- There are 161 K-12 schools located across Cumberland, Bladen, Brunswick and New Hanover.
- Several have tested positive for PFAS.
- How are we testing and monitoring long-term impacts on students and development.

La'Meshia Whittington, Author



**Contact**  
Professor La'Meshia Whittington

Email

[LaMeshia@AdvanceCarolina.org](mailto:LaMeshia@AdvanceCarolina.org)

Social Media

- Twitter: [@LaMeshiaLe](https://twitter.com/LaMeshiaLe)
- FB: Advance Carolina
- FB: NC Black Alliance
- FB: Democracy Green