



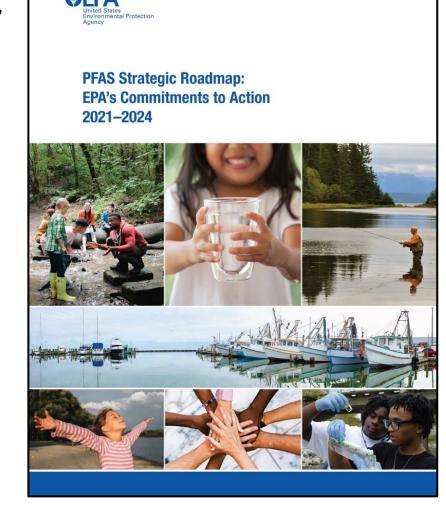
# PFAS Analytic Tools Training

**Nick Spalt** 

U.S EPA Office of Enforcement and Compliance Assurance 03/15/2023

# EPA's PFAS Strategic Roadmap

- In October 2021, EPA released the PFAS Strategic Roadmap, highlighting concrete actions the Agency will take across a range of environmental media and EPA program offices to protect people and the environment from PFAS contamination.
- The Roadmap is guided by three primary goals:
  - **Research:** Investing in research, development, and innovation to incorporate the best-available science into EPA's work.
  - **Restrict**: Working to proactively prevent PFAS from entering air, land, and water at levels that can adversely impact human health and the environment.
  - **Remediate**: Broadening and accelerating the cleanup of PFAS contamination to protect human health and ecological systems.



# Goals of the PFAS Analytic Tools

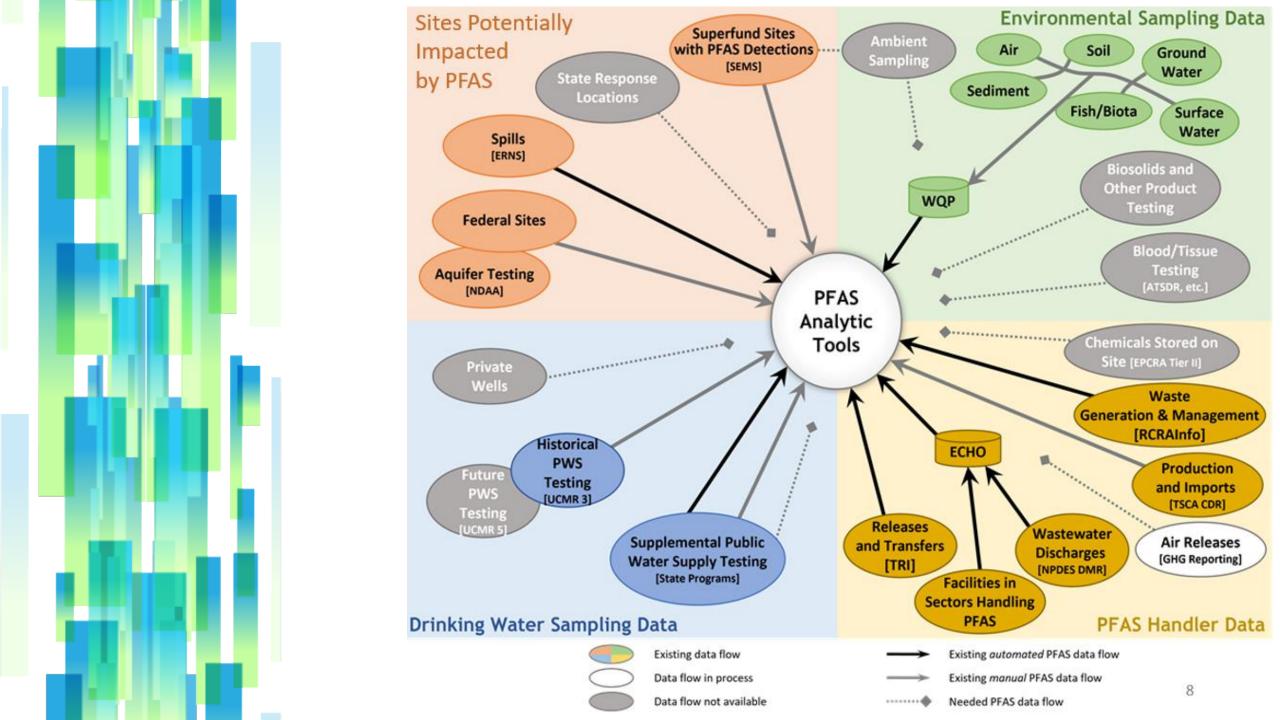
- Develop an integrated resource to understand where PFAS detections are being identified across a wide set of databases.
- Compile as much nationally available data on PFAS as possible into an easy-to-use, automatically refreshed tool.
- Develop standard methods to extract PFAS chemical data from national data systems and develop best practices for regulatory partners that would like to contribute information.
- Support EPA investigations into PFAS contamination and further the collaboration with federal/state/local/tribal partners as noted in the <u>EPA PFAS Strategic Roadmap</u> (<u>Link to</u> <u>2022 Progress Report</u> – see p.8).

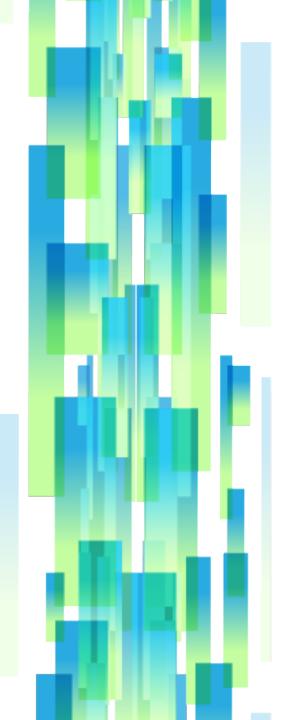
# Development History

2019 - Version 1.0 released for government-wide use after EPA collaborated with the Environmental Council of the States and 14 participating states.

2020 - Version 2.0 was released for all federal / state / tribal / local government use.

2022 – EPA released the PFAS Analytic Tools Data Sets (Excel Downloads) within the public-facing ECHO website. 2023 - EPA released the PFAS Analytic Tools to the public.





#### **PFAS Datasets**

			Date Data was			Downloads:
Q. Dataset	Q, Dataset Component	Date Range of Data in PFAS Analytic Tools	Extracted for Q PFAS Analytic	Next Anticipated Q Extract Date	Q. Source	Discharge Monitoring Data
Drinking Water (UCMR)	UCMR 5	1/2/2013 - 12/13/2016	-	2023	External Link	Drinking Water (State) Data
Environmental Media	Water Quality Portal	1/1/1901 - 11/30/2022	1/29/2023	2/5/2023	External Link	Drinking Water (UCMR) Data
Federal Sites	DoD Notifications to Agricultural Operations	3/1/2021 - 3/31/2022	3/31/2022	Upcoming September	External Link	
Federal Sites	DOE	Current	10/4/2022	Upcoming April /	-	Environmental Media Data
				October		Federal Sites Data
Federal Sites	DOT FAA	Current	10/4/2022	Upcoming April /	External Link	Industry Sectors Data
				October		
Federal Sites	NASA	Current	10/4/2022	Upcoming April / October	External Link	Production Data
Federal Sites	US Department of Defense PFAS Spotlight	6/30/2022	6/30/2022	Upcoming March / September	External Link	
Federal Sites	USCG	Current	10/4/2022	Upcoming April /	External Link	Spills Data
rederal Sites	USCG	Current	10/4/2022	October	External Link	Superfund Sites Data
Federal Sites	USDA	Current	10/4/2022	Upcoming April /	External Link	
				October		TRI Data - On-Site
Industry Sectors	ECHO	Current	1/29/2023	2/5/2023	External Link	
Industry Sectors	Federal Aviation Adminstration	10/13/2022	10/13/2022	Unknown	External Link	TRI Data - Off-Site
Production	Chemical Data Reporting (CDR) under the Toxic Substance Control Act (TSCA)	2011	3/20/2019	N/A	External Link	TRI Data - Waste Managed
						Transfers Data

Data Currency Table is available on the PFAS Analytic Tools Homepage. Quick downloads of the data sets are available, next anticipated extraction dates, range of dates for data from each data source are all presented in this table.



**Environmental Topics** 

**Quick Search** 

**Data Services** 

Help

News

# Access

Analyze Trends Tab on ECHO home page (echo.epa.gov) under Data Visualization

Direct Link https://echo.epa.gov/trends/pfas-tools Enforcement and

Laws & Regulations

Compliance History Online

Report a Violation

Contact Us

# **Analyze Trends**

**About EPA** 

ECHO provides many features to a variety to explore compliance and enforcement data. Use the links below to display trends through dashboards, maps, and charts.

#### Track Performance

- EPA/State Dashboards
  - o Air / Wastewater / Drinking Water / Hazardous Waste / Pesticides
- EPA/State Comparative Maps
- NPDES DMR Non-Receipt Status Search
- State Review Framework (SRF)
- · SRF Recommendations
- Archived Tools

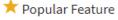
#### Data Visualization

- Data Visualization Gallery \*
  - PFAS Analytic Tools
  - o NPDES eRule Dashboards
  - Benzene Fenceline Monitoring

Search EPA.gov

#### **Pollution Analysis**

Water Pollutant Loading Tool \*









**\$EPA** 

**Total Facilities** 

214

III Integrated Map 🄞 Drinking Water (UCMR) 🄞 Drinking Water (State) 🚨 Production 🗎 Environmental Media 👚 Discharge Monitoring 🔷 Superfund Sites 🟛 Federal Sites 🕍 Industry Sectors → Transfers 🔆, Spills 🛗 Toxic Releases

**△** Contact Us

✓ More Information

No selections applied



PFAS Analytic Tools Home

Filters:

**EPA Region** 

State Territory or Tribe

Reporting Year

Facility Name

NPDES Permit Number

Facility Registry Service (FRS) ID

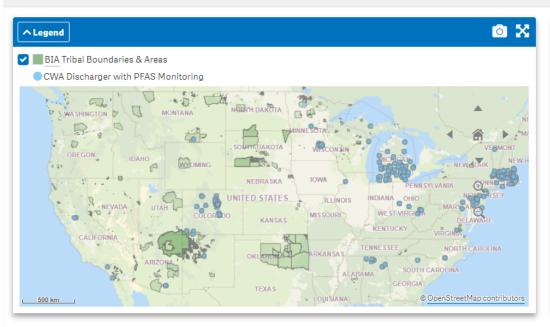
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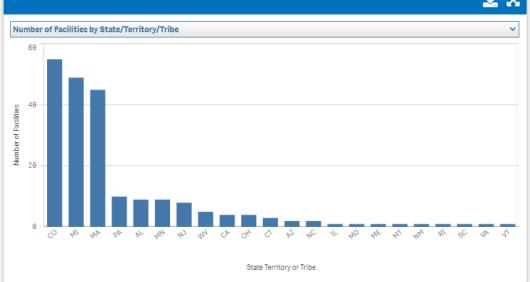
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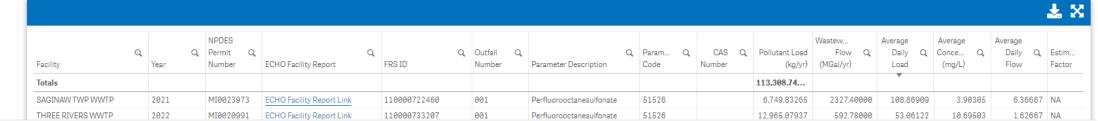
Chemical Abstracts Service Number

### PFAS Discharge Monitoring Report Data from CWA NPDES

Facilities in Selection Chemicals in Selection 214 76







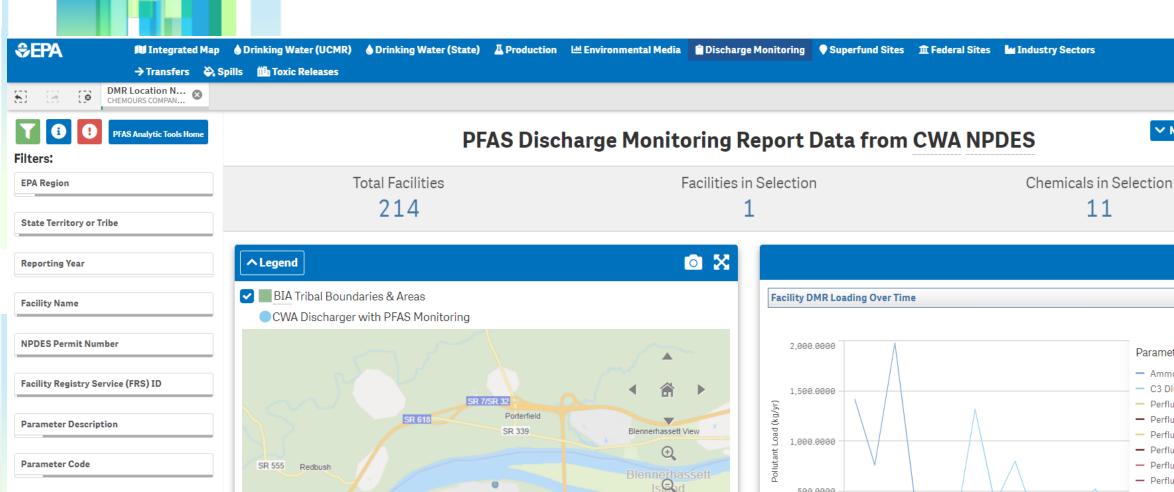


**Chemical Abstracts Service Number** 



**™** Contact Us

**∨** More Information



Washington

Little Hocking

1 km

Blennerhassett

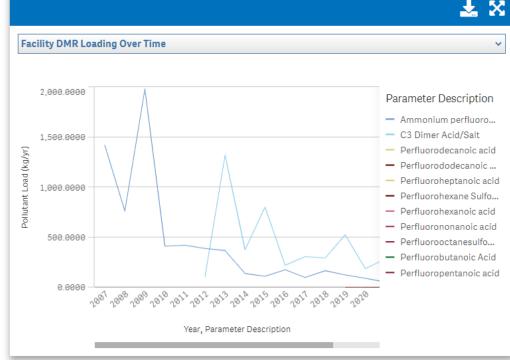
US 50

Somervilla

Wellsley

Melrose Addition

© OpenStreetMap contributors







Project Identifier

4/7/2014 FMP-CSMISSP2011

2011

Monitoring Location Ident

EPA\_GLNPO-P128

**\$EPA** MIntegrated Map ♦ Drinking Water (UCMR) ♦ Drinking Water (State) A Production Memory Production Memor **△** Contact Us ActivityIdentifier 8879 of 20847 More Information PFAS Multimedia Environmental Sampling Data from the Water Quality Portal PFAS Analytic Tools Ho Filters: Sites Water Samples Tissue Samples Soil Samples Sediment Samples Air Samples Other Samples State Territory or Tribe 2,048 20,719 32,105 216 621 **EPA Region 6** X Unchecking items in the legend only removes them from the map. To filter this page by media, use **∨** Legend Media Name the Media Name filter at left. PFAS Analyte Concentrations (ppt) by Activity Identifier PFAS Chemical Name 4,000,000 PFAS Chemical Name Year Sample Taken Perfluorobutanesulf 3,000,000 Concentration Category ■ Perfluorobutanoate Perfluorodecanoic 2,000,000 **QAPP Approved** Perfluoroheptanoic ■ Perfluorohexanoic Analytical Method Result Detection Organization @ OpenStreetMap contributors 500 km

State

or Tribe

Q Territo...

MI

Organization

EPA Great Lakes National Program

Totals

Enviro...

Name

Tissue

Activity Identifier

EPA\_GLNPO-P128-

2011FF:LSBloater20:4018420

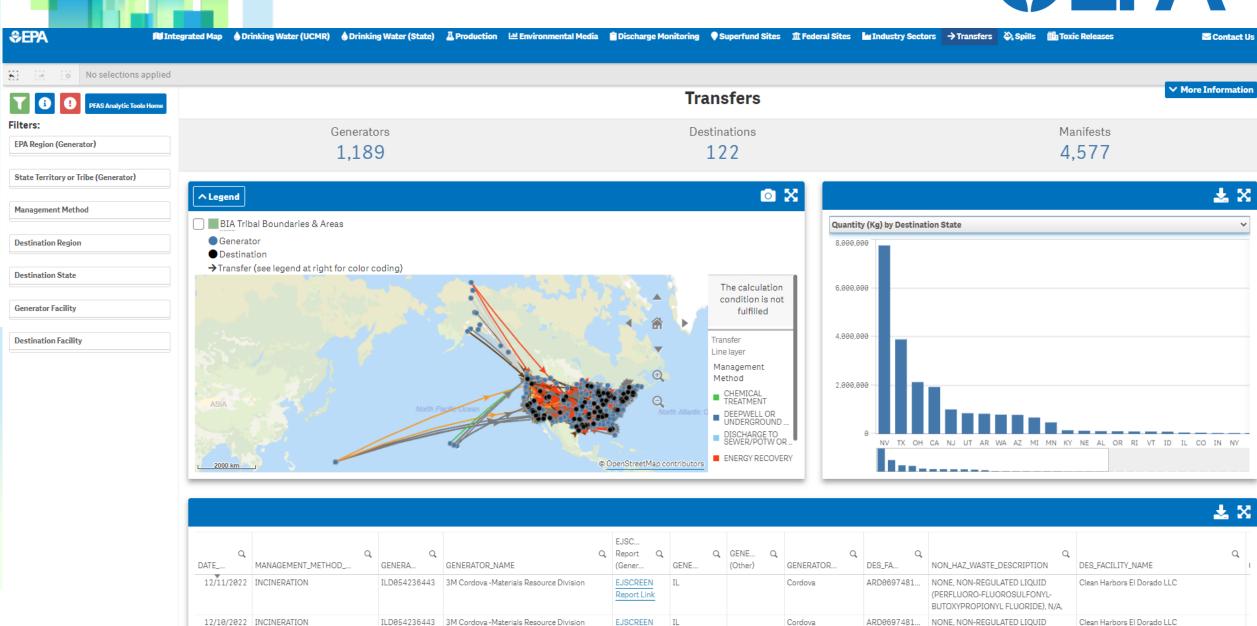
Activity Type Code

Sample-Composite Without Parents

Q Media





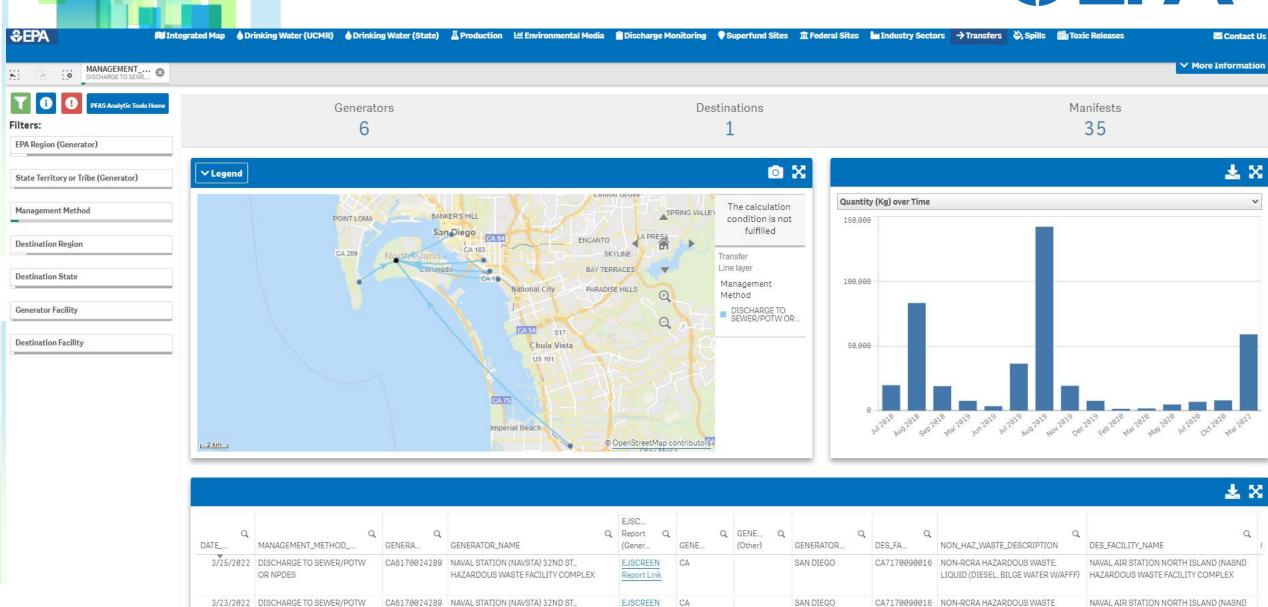




OR NPDES



LIQUID (DIESEL, BILGE WATER W/AFFF) HAZARDOUS WASTE FACILITY COMPLEX

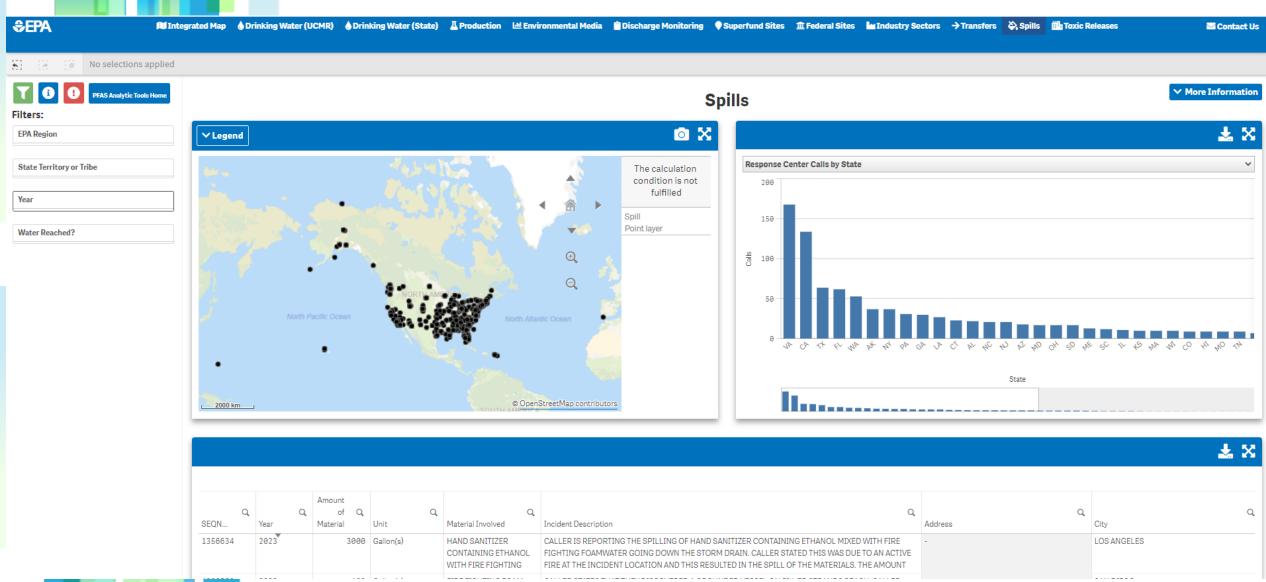


Report Link

HAZARDOUS WASTE FACILITY COMPLEX









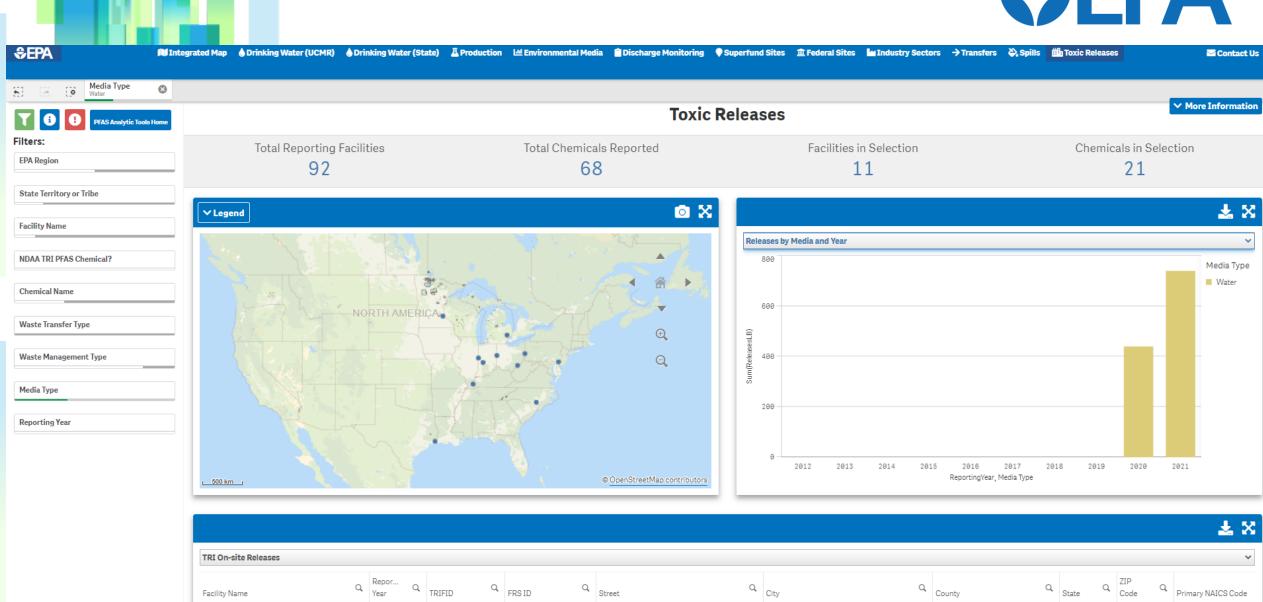
Totals

HERITAGE THERMAL SERVICES

2016

43920VNRLL1250S 110027242320





1250 ST GEORGE ST

EAST LIVERPOOL

COLUMBIANA, OH

ОН

43920

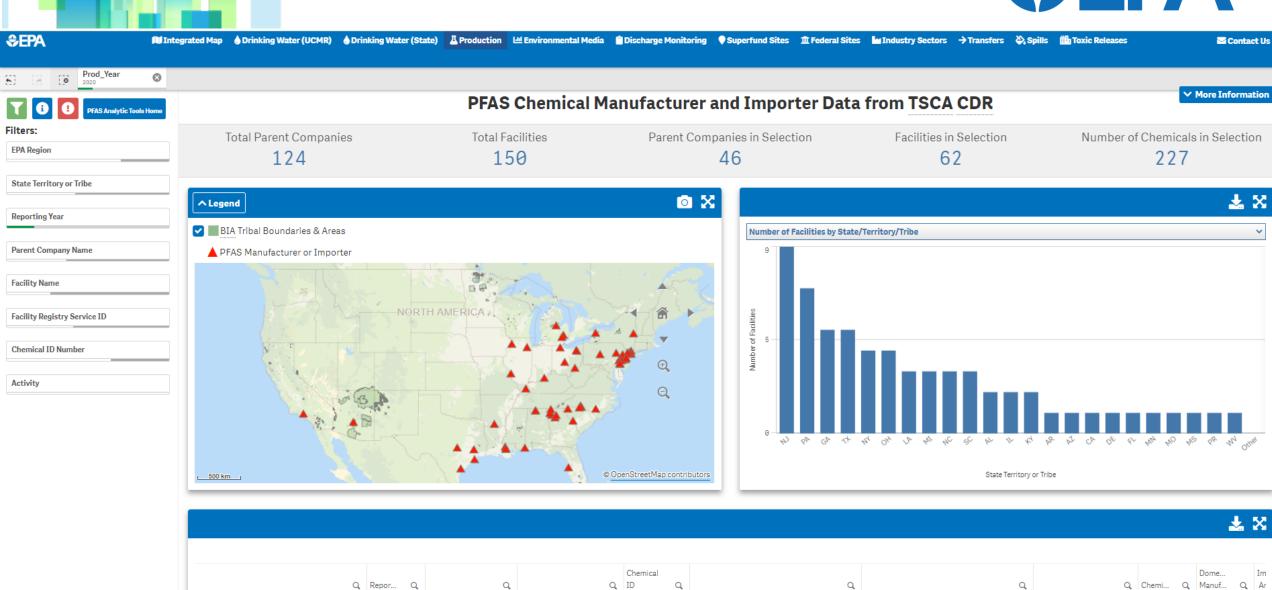
562213 Solid Waste Co Incinerators



Facility Name

3M COMPANY





34455-00-0

1,1,2,2,3,3,4,4,4-Nonafluoro-N,N-bis(2-

hydroxyethyl)butane-1-sulphonamide

Physical Forms

Activity

CBI

Amount

CBI

CE

ECHO Facility Report

ECHO Facility Report Link

110000367567



**\$EPA** III Integrated Map 🌢 Drinking Water (UCMR) 🌢 Drinking Water (State) 🚨 Production 🔟 Environmental Media 👚 Discharge Monitoring 🔍 Superfund Sites 🛍 Federal Sites 🕍 Industry Sectors → Transfers 🏖 Spills 🛗 Toxic Releases State IN PFAS Analytic Tools Home Scope of Drinking Water Samples for Public Water Systems (PWSs): ( Legend and Layers Most Recent Sample at PWS Map Legend and Layers All Samples at PWS Satellite Layer Filters: BIA Tribal Boundaries & Areas **EPA Region** Data Available from Water Quality Portal: State Territory or Tribe Water Tissue Include Non-Detects: Air Soil Sediment Other Drinking Water - UCMR and State Data:

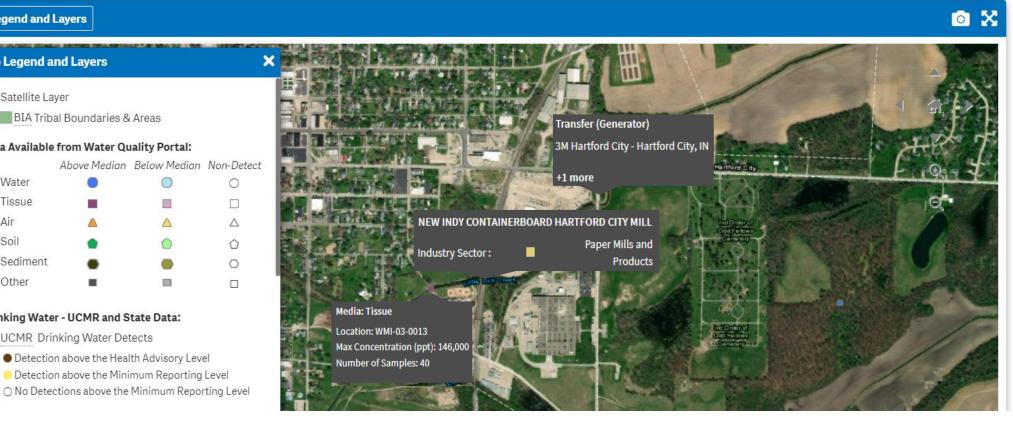
UCMR Drinking Water Detects

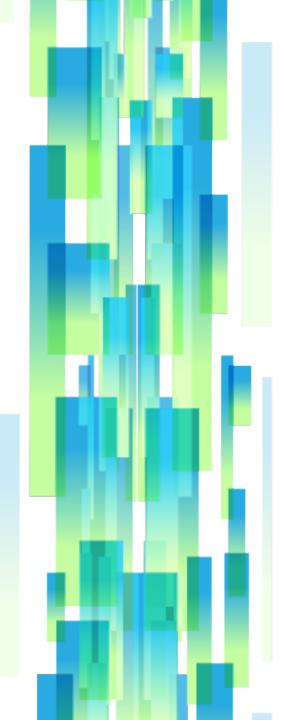
Detection above the Health Advisory Level

## **PFAS Analytic Tools**

 ➤ More Information

Contact Us







# Questions regarding PFAS Analytic Tools?

## Where to Find Online Help

- 1) The <u>PFAS Analytic Tools</u> <u>Home Page</u>
- 2) FAQs Page
- 3) <u>Technical Documentation</u>

Other General Questions can be <u>sent here</u>.

For more information on EPA's overall PFAS efforts, visit <a href="https://www.epa.gov/pfas">www.epa.gov/pfas</a>

## **Data Set Specific Documentation**

Data Set	Contact for More Information		
Ambient Environmental Sampling for PFAS (Water Quality Portal)	https://www.waterqualitydata.us/contact_us/		
Drinking Water Testing Unregulated Contaminant Monitoring Reporting (UCMR)	https://www.epa.gov/dwucmr/forms/dwucmr		
Drinking Water Testing (State)	https://echo.epa.gov/resources/general-info/contact- us		
PFAS Manufacture and Imports Toxics Substances Control Act – Chemical Data Reporting (TSCA CDR)	https://www.epa.gov/chemical-data-reporting/forms/contact-us-chemical-data-reporting-under-tsca		
Superfund Sites with PFAS Detections (SEMS)	https://www.epa.gov/superfund/forms/contact-us-about-superfund		
Clean Water Act Discharge Monitoring (ICIS-NPDES)	https://echo.epa.gov/resources/general-info/contact- us		
Federal Sites	https://echo.epa.gov/resources/general-info/contact- us		
Facilities in Industries that May be Handling PFAS Enforcement and Compliance History Online (ECHO)	https://echo.epa.gov/resources/general-info/contact- us		
Waste Transfers – Resource Conservation and Recovery Act (RCRA e-Manifest)	https://www.epa.gov/e-manifest/forms/contact-us-about-hazardous-waste-electronic-manifest-system		
Spills – Emergency Response Notification System (ERNS)	https://nrc.uscg.mil/ContactUs.aspx		
Toxics Release Inventory (TRI)	https://www.epa.gov/toxics-release-inventory-tri- program/forms/tri-program-contacts		