CT DEEP UPDATE NEWEA ANNUAL CONFERENCE REGULATORS ROUNDTABLE

1. Charles be & Ball Band

Presented by: Ivonne Grajko Hall, P.E Assistant Director, Municipal Wastewater Program, CT DEEP

Date: January 22, 2024

ONNECTICU

ENV

CT DEEP TOPICS

- 1) FY24/25 Clean Water Fund Priority List
- 2) Report on PFAS Sampling at CT WPCFs/POTWs
- 3) CT Nitrogen General Permit Reissued
- 4) EPA BIL: Norwich and Meriden WPCF Upgrade
- 5) EPA OSG/EJ G2G: North Hartford Pilot Project

NEW DEPUTY COMMISSIONER

Emma Cimino is the new Deputy Commissioner of the Environmental Quality branch of the CT DEEP

- Most recently worked in Senator Chris Murphy's Office as Legislative Assistant
- Oversees Water, Air & Materials Management Bureaus



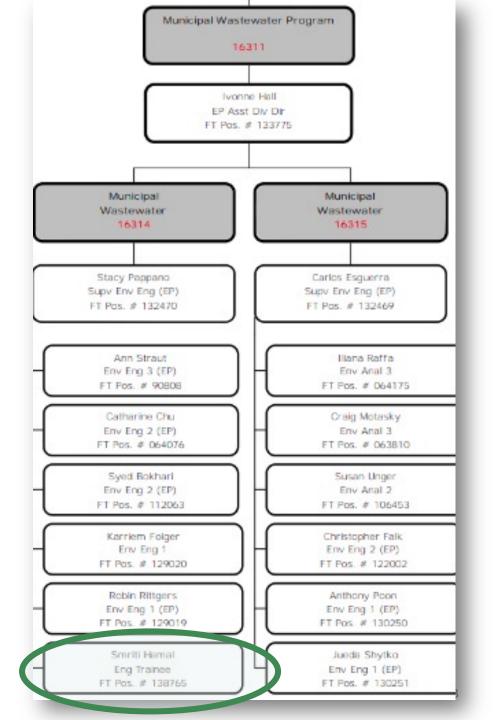
CT DEEP MUNICIPAL WASTEWATER STAFF UPDATE

Newest staff engineer in 2023: Smriti Hamal



Recruiting for new Environmental Analyst for enforcement

Connecticut Department of Energy & Environmental Protection







DRAFT CLEAN WATER FUND FY24/25 PRIORITY LIST: PUBLIC COMMENT PERIOD

Draft Clean Water Fund Priority List has been finalized for FY2024 and FY2025

Public notice appeared in major newspapers and is on website

DRAFT Clean Water Fund

Financial Assistance Programs Municipal Water Pollution Control Priority List, State Fiscal Years 2024 & 2025

Public hearing scheduled for 2/7/24 at 1pm on Zoom

 Must register by emailing <u>CWF@ct.gov</u> to get link portal.ct.gov/

Water Pollution Control Facility PFAS Sampling Study

PREPARED FOR:

CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION BUREAU OF WATER PROTECTION & LAND USE





REPORT

June 2023

Memorandum

WPCF Superintendents
WPCF Superintendents Graham J. Stevens, Bureau Chief, Water Protection & Land Reuse
June 15, 2023

SUBJECT: Final Weston & Sampson Report of Per- and Polyfluoroalkyl substances (PFAS) Sampling Study at WPCFs

<u>Per- and polyfluoroalkyl substances (PFAS)</u> are a group of several thousand human-made substances that are not naturally occurring and are resistant to heat, water, and oil. These chemicals have been used and produced extensively in the United States for both commercial and industrial purposes, as well as for emergency fire response. Due to their unique chemistry, PFAS have been widely used as surface coatings and protectant formulations in consumer goods such as carpet and home textiles; clothing; food packaging; and non-stick cookware. PFAS have also been used as a surfactant in chrome plating, firefighting foam, and other industrial applications.

The Connecticut Department of Energy and Environmental Protection (DEEP) contracted Weston & Sampson Engineers, Inc. to perform a study assessing the potential presence of PFAS in various environmental media at select water pollution control facilities (WPCFs) within Connecticut, as well as in their receiving waters and in aquatic species in such waters. Thirty-five (35) WPCFs were selected for participation by DEEP to provide geographic coverage of the State and cover a range of differing community sizes, inputs, and treatment processes.

Environmental media tested for PFAS included:

- Influent, effluent, and sewage sludge from 35 WPCFs, sampled in summer 2021 and winter 2022
- Composite sewage sludge and incinerator scrubber water from 4 WPCFs that incinerate sewar sludge, sampled in summer 2021 and winter 2022
- Fish tissue collected downstream of 10 WPCF outfalls, as well as surface wath and downstream of those outfalls, sampled in Fall 2024

PFAS REPORT ISSUED

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

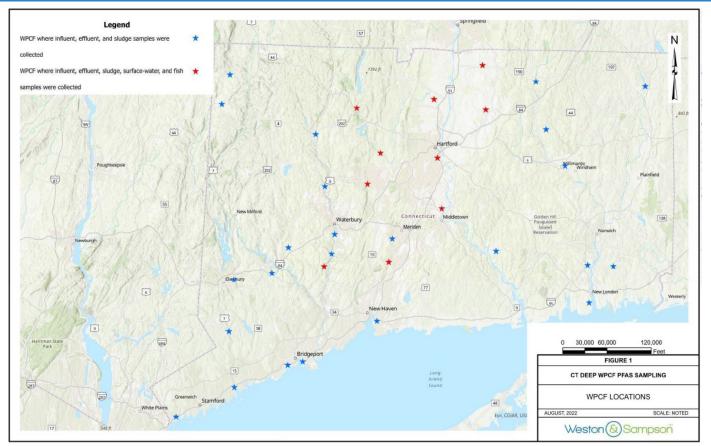
Weston & Sampson report now available for consultation on CT DEEP's website

CTDEEP-WPCF-PFAS-Study-06 08 23-FINAL.pdf

Sampling program included:

- Influent, effluent, sludge from 35 POTWs
- Composite sludge and scrubber water at 4 sewage sludge incinerator facilities
- Fish tissue near the outfalls of 10 POTWs, as well as surface water upgradient and downgradient of the outfalls

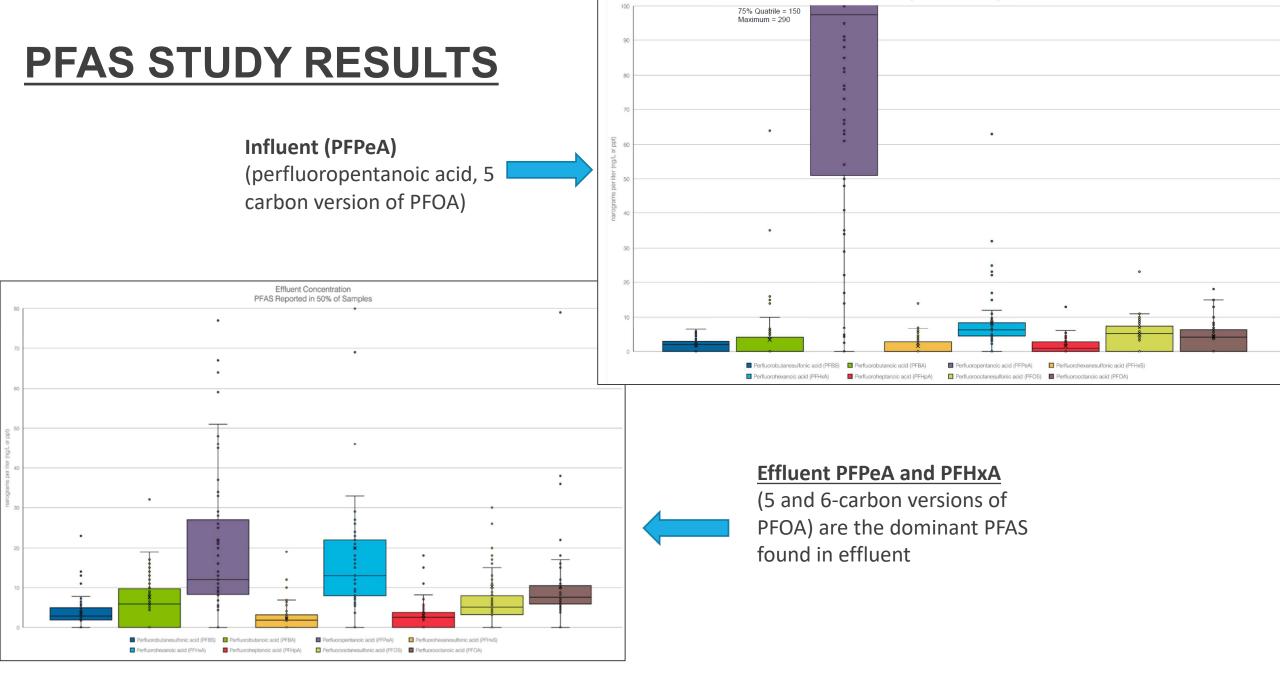
Compound Name	Compound Acronym	
Perfluorobutanesulfonic acid	PFBS	
Perfluorobutanoic acid	PFBA	
Perfluoropentanoic acid	PFPeA	
Perfluorohexanesulfonic acid	PFHxS	
Perfluorohexanoic acid	PFHxA	
Perfluoroheptanoic acid	PFHpA	
Perfluorooctanesulfonic acid	PFOS	
Perfluorooctanoic acid	PFOA	

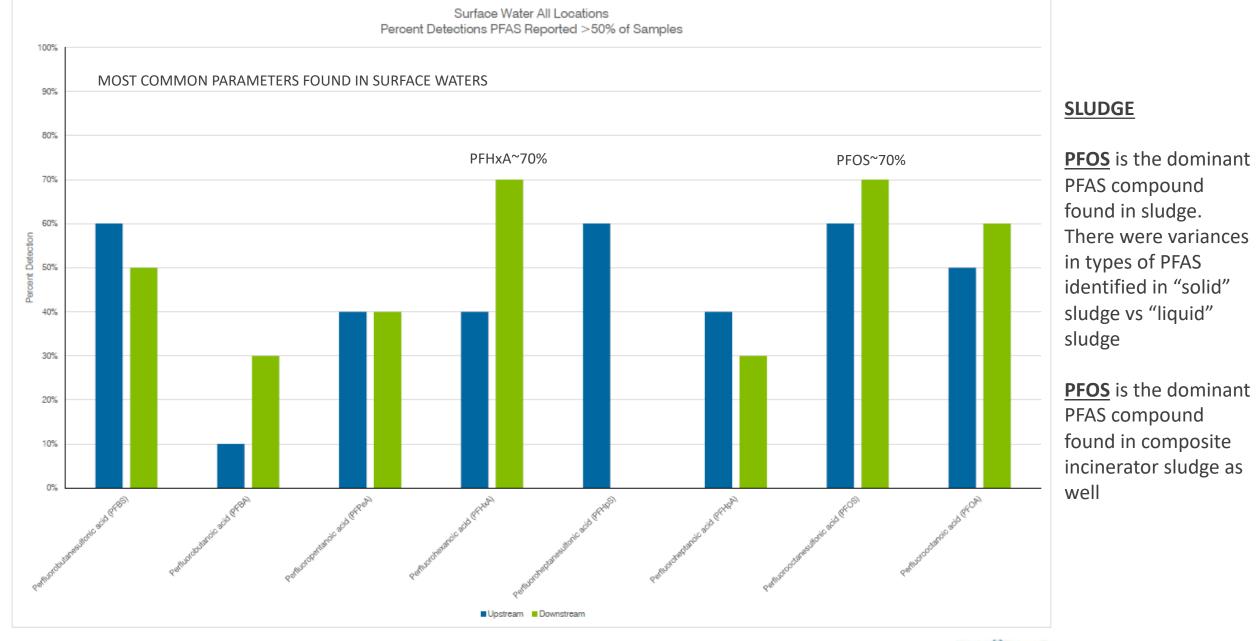


8 PFAS compounds were most prevalent. Detected in >50% of all samples taken across all media

• 4-8 carbon chain length compounds were the most frequently observed







10/16/2023 Connecticut Department of Energy & Environmental Protection

Weston (&) Sampson

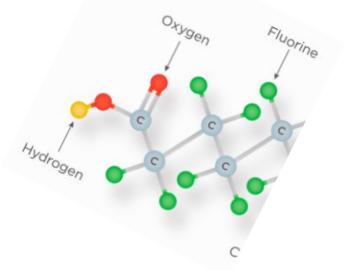
PFAS - MONITORING IMPLEMENTATION

DEEP Internal Workgroup

- Coordinate efforts for source reduction and monitoring with Pretreatment Program
- PFAS information and updates

General Permit Development

- Monitoring requirements (influent, effluent, sludge)
- Use EPA approved methods by CT DPH certified lab
- Reporting sample results
 - How to collect monitoring results
 - How to manage the data collection





GENERAL PERMIT FOR NITROGEN DISCHARGES

The renewal of the General Permit for Nitrogen Discharges authorizing the discharge of total nitrogen from specified (78) POTWs was public noticed in June 2023 and finalized in Dec 2023.

The effective date is Jan 1, 2024 – Dec 31, 2028

A few updates regarding the renewal:

- Reporting & Data Entry
 - Log into a system CT DEEP IT developing this for launch
 - Data entry in a new on-line fillable form
 - User subscriber agreements in development
 - Will no longer submitting a NAR excel spreadsheet template once system launches and agreements in place
- Nitrogen Monitoring
 - Nitrate and Nitrite will now be reported individually





NORWICH WPCF UPGRADE

This past fall, construction started on a five-year \$186 million upgrade to the Norwich WPCF to reduce sewer overflows and nitrogen, which will improve the water quality of both the Thames River and Long Island Sound.

Facility is also being constructed to withstand the effects of extreme weather events

This project is receiving \$67.7 million in grant and \$123.1 million in loan from the CWF, which are partially funded by EPA Bipartisan Infrastructure Law (BIL) grants targeted for distressed communities

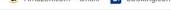
NORTH HARTFORD PILOT PROJECT

DEEP and the MDC committed to a new pilot project that is designed to reduce occurrences of combined sewer overflows to the North Branch of the Park River and sewer backups in North Hartford

This innovative pilot project is comprised of 12 contracts that are being expedited to provide immediate relief to chronically affected neighborhoods and will total \$193 million overall

The DEEP CWF is providing \$47.8 million in grant and \$47.8 in loan to complete the public sewer work

DEEP is also providing an additional \$48.5 million in grant to rehabilitate sewers on private property to alleviate the sewer backups





State announces millions in funding to address North Hartford flooding

Connecticut officials say this help is long overdue after what they call years of inequality.



Connecticut News | Hartford residents worry amid massive summer

Waiting for www.google.com

= Hartford Courant

NEWS CONNECTICUT NEWS

Hartford residents worry amid massive summer rain deluge as multiple agencies address flooding

yf



yahoo/news

Hartford Courant

Hartford residents look for action on flooding it's doing 'multiple outreach meetings.'

- Deidre Montague, Hartford Courant July 25, 2023 · 5 min read
- North Hartford residents say they are still awaiting action on flooding plagued the city, as Gov. Ned Lamont and his administration a month a
- the commitment of \$85 million from the state Clean Water Fund and r for a pilot program that will address sewage overflows in streets and b

The Clean Water Fund is administered by the state Department of Ene Environmental Protection, and the fund is used by the state to provide assistance to municipalities for projects addressing wastewater. Connecticut's Nonprofit Journalism.

Posted: Jun 6, 2023 / 11:10 PM EDT Updated: Jun 8, 2023 / 01:45 PM EDT

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Booking.com

HARTFORD

state

by: Bob Wilson

WS

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TRENDING COLUMN: Metro-North Strike? Free School Meals State Police Ticketing Scandal

ENERGY & ENVIRONMENT

Hartford's North End floods a week after \$170M project announced

Watch Now 🔹

North Hartford flooding

victims get aid from the

Federal, state and local officials last week announced a multi-year plan to address the flooding issues in the North End

by Dave Altimari July 5, 2023 @ 4:32 pm



Governor Lamont Commits \$85 Million in State

Funding To Address Flooding Mitigation in North Hartford

Funding Contributes to a Total \$170 Million Investment to Address Flooding

BASEMENT BACKUPS



- Many houses in Hartford have inflow connected to the under-capacity combined sewer
- Removing inflow connections from combined system requires access from homeowners, but many residential buildings in North Hartford are rented
- Utility is then required to complete restoration work on private property but work on private property is NOT eligible for traditional state SRF funding
- On-going illicit connections are an issue as a result of new connections or re-connections (after disconnection by a utility)
- There is concern that drainage to MDC's combined system is being impeded from higher flows in the North Branch of the Park River as the result of poor maintenance and higher frequency of climateinduced storms

OVERVIEW OF NORTH END SEWER AND FLOODING RESPONSE

Multi-Partner, Multi-Resource, Multi-Scale Solutions

	Expedite Sewer	Service Separations	υ	
	North Branch Park River Watersh To guide stormwater actions in North End b	'	N	
Eva	luate options and means to insure community again	inst backups		
	Evaluate Infrastructure with City of Hartfor	ď	R	
Gree	n Infrastructure Program- Climate Adaptation for S	Stormwater	W A	
Backflo	ow Preventers for Residents/Local Business		J [^] _Y	

<u>EJ G2G:</u> Establish Community Platform for Change/ Decision Making *Establishing this platform will feed decision making in each of the above solutions.*

EPA HAS AWARDED GRANT TO CT DEEP!

Working with community partners to finalize work plan and deliverables

Today

Complexity

Time from Start to Completion of Implementation

Connecticut Department of Energy & Environmental Protection

Out years

UPDATED CONSENT ORDER



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CT DEEP updated the 2022 Consent Order with MDC to re-prioritize actions to provide more relief to North End residents with specific projects to be implemented between 2023 and 2028 without an increase to sewer fees.

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16 V	

12 projects proposed by MDC from 2023 to 2029 (now incorporated into DEEP's 2023 consent order

Projects will increase protections from <u>sewer</u>related backups and <u>sewer</u> flooding

\$

Projects are estimated to cost \$190 million, to receive 50% grant by State



6 more projects will begin in 2024 1 project will begin in 2025

SEPA iffice of Environmental Just in Action

ww.epa.gov/environmentaljustice



OTHER NORTH HARTFORD INITIATIVES

Through EPA BIL's Technical Assistance Program CT DEEP working with EPA, its technical assistance contractors, and City of Hartford/the MDC to plan, design, and implement a green infrastructure pilot in the North End as an alternative stormwater management measure which will serve to reduce stormwater drainage into a downstream combined sewer.

EPA's G2G Grant:

- CT DEEP will be the primary recipient of the award and each community partner would be a sub-recipient (**Blue Hills Civic, Hartford Next, Keney** Park Sustainability).
- Next steps: per EPA request, hone work plan and budget on such details as: updates to start date & project timeline; each sub-recipient's focus area and level of involvement, separately or collectively; project deliverables and specific outcomes; oversight plan/ operational structure for project work and outcomes

