

# Project Update: 2024 District Sampling and Analysis of Influent, Effluent, and Biosolids for PFAS Compounds

Commission Meeting  
October 16, 2025

Madison Metropolitan  
Sewerage District

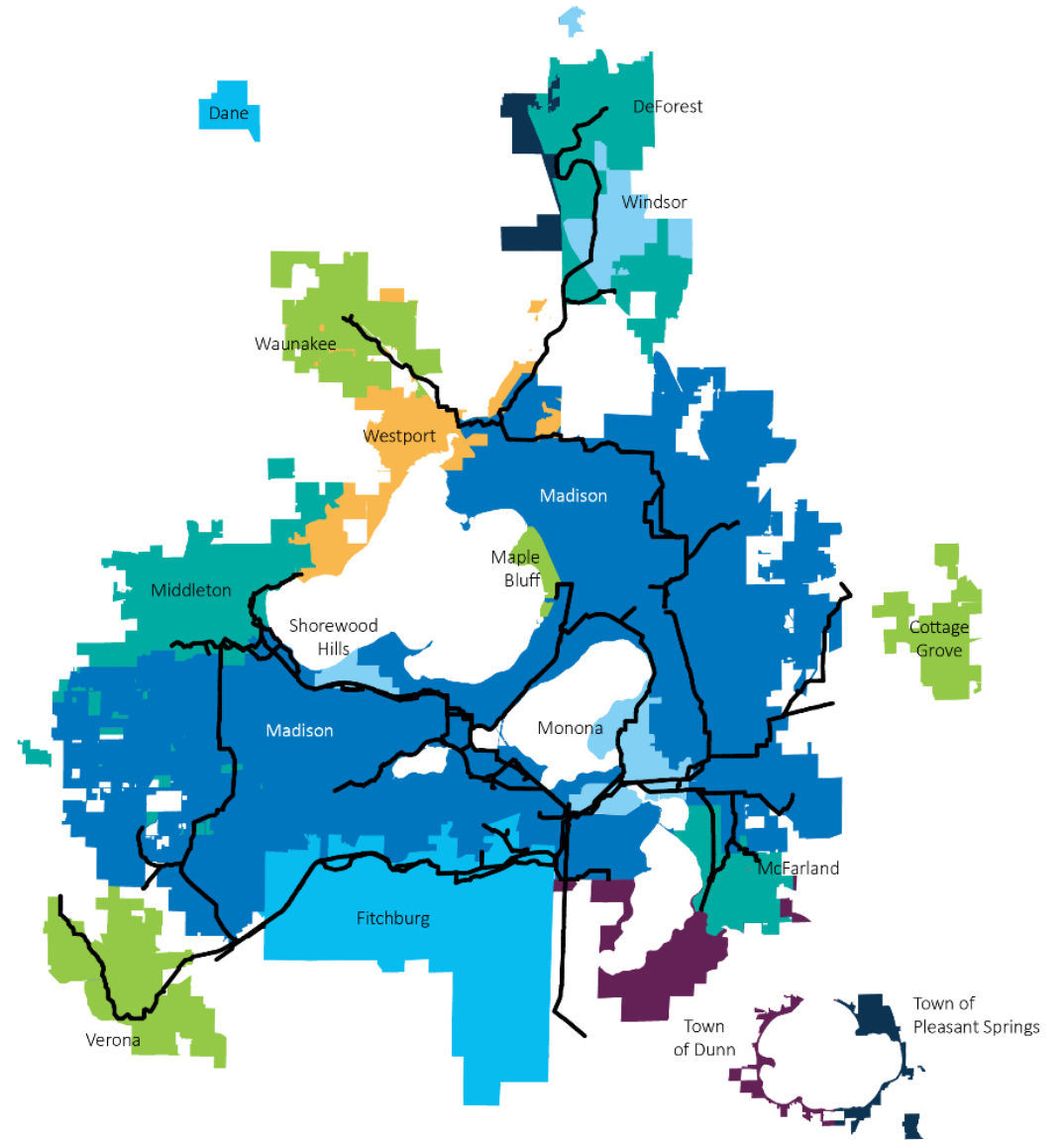


Presented by Martin Griffin

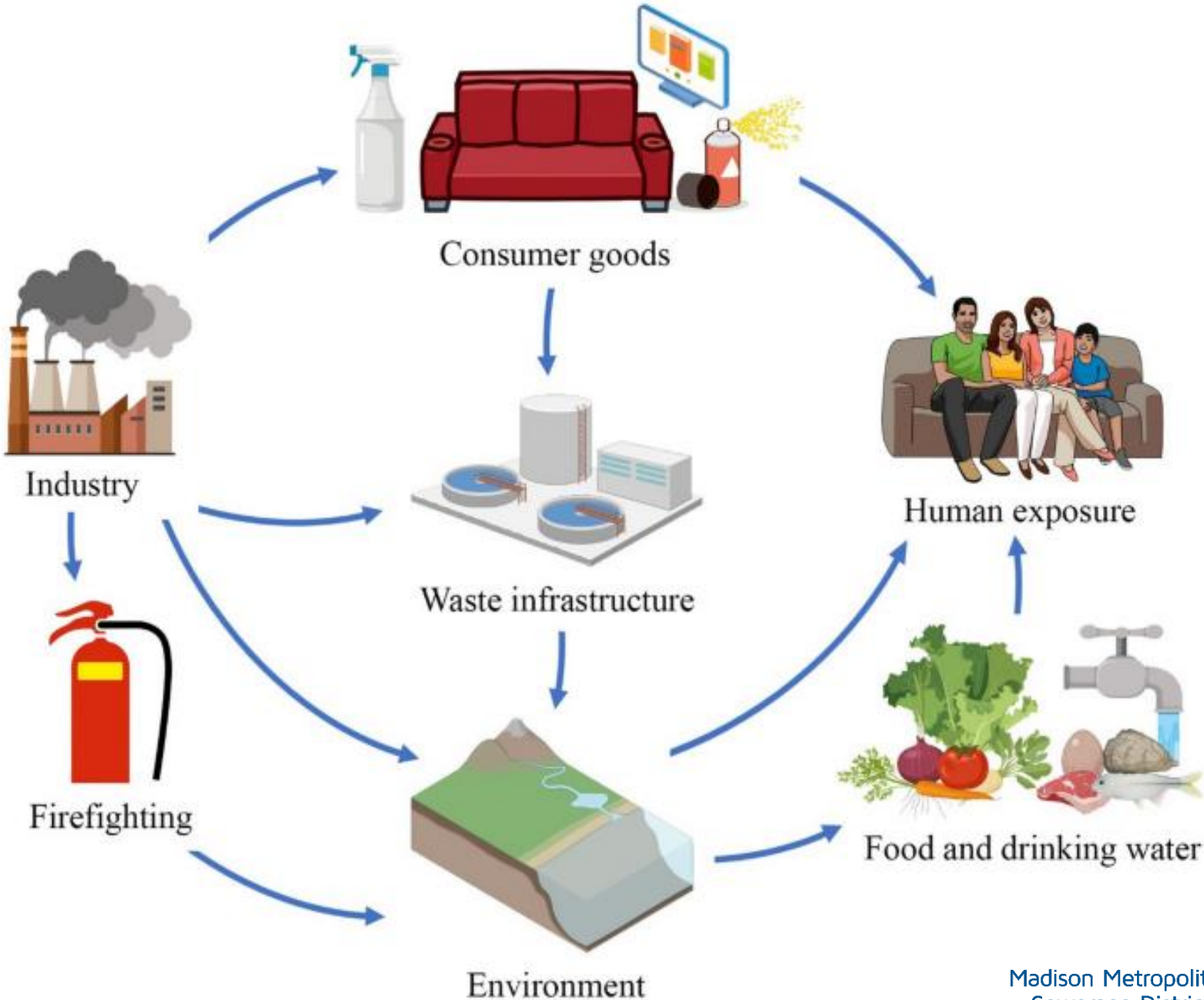


# About the District

- Established in 1930
- Regional wastewater utility for 24 customer communities in Dane County
- Serves 435,000 individuals and businesses across 190 square miles
- Operate 150 miles of pipe
- Collects 37 million gallons daily (on average)



# We reflect the communities we serve



# District Action Plan

- ✓ Fate & Transport
- ✓ Waste Acceptance
- ✓ Website  
[MadsewerPFASinitiative.org](http://MadsewerPFASinitiative.org)
- ✓ Sampling
- ✓ Pollution Prevention



# Current Testing Timeline

MadsewerPFASinitiative.org



\*Permit reissuance 2026



# 2024 – Monitoring

- Influent, effluent, biosolids temporal sampling
- Aligned with WDNR monitoring protocols
- Assessed sampling methodology for effluent





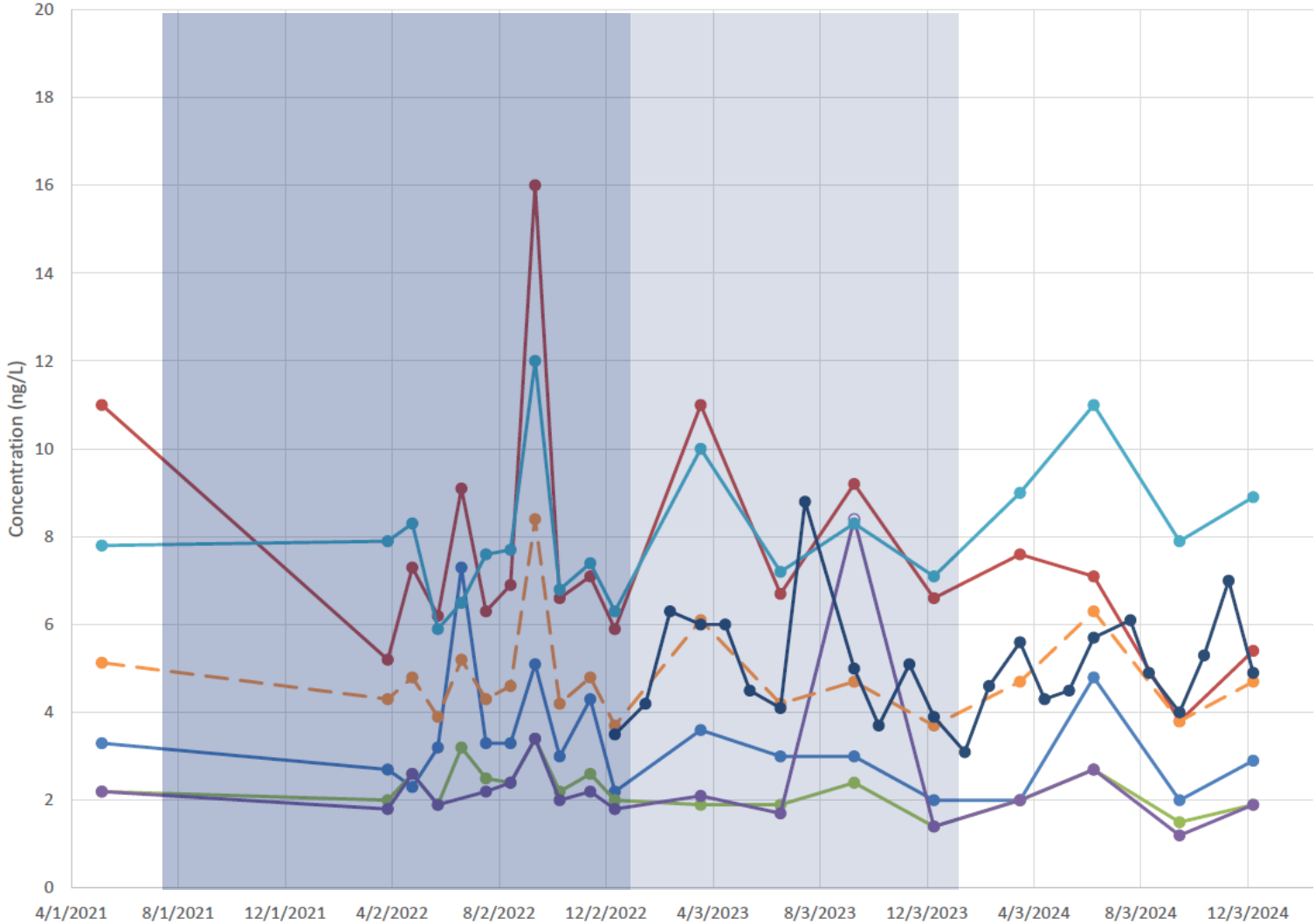
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Influent

# 2024 Results - Influent

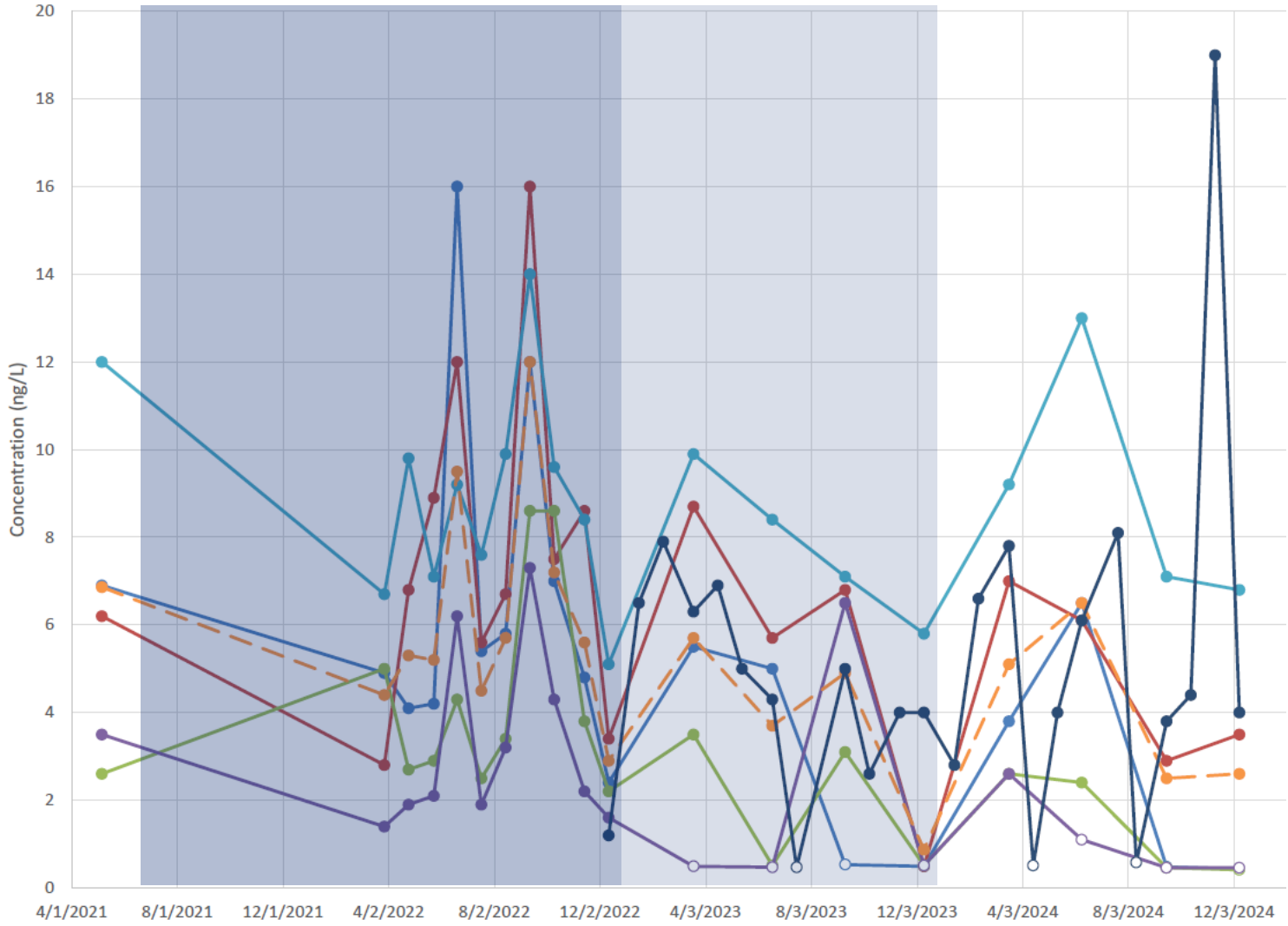
**PFOA**

- INF-02
- INF-07
- INF-08
- INF-11
- INF-18
- INF-CALC
- INF-COMP



# 2024 Results - Influent

PFOS



# 2024 Results – Influent Summary

## Individual force mains:

- No single continuous source
- No indicators at high concentrations

## All force mains:

- PFOA and PFOS relatively consistent
- November PFOS higher than typical
- PFOA generally lower than PFOS



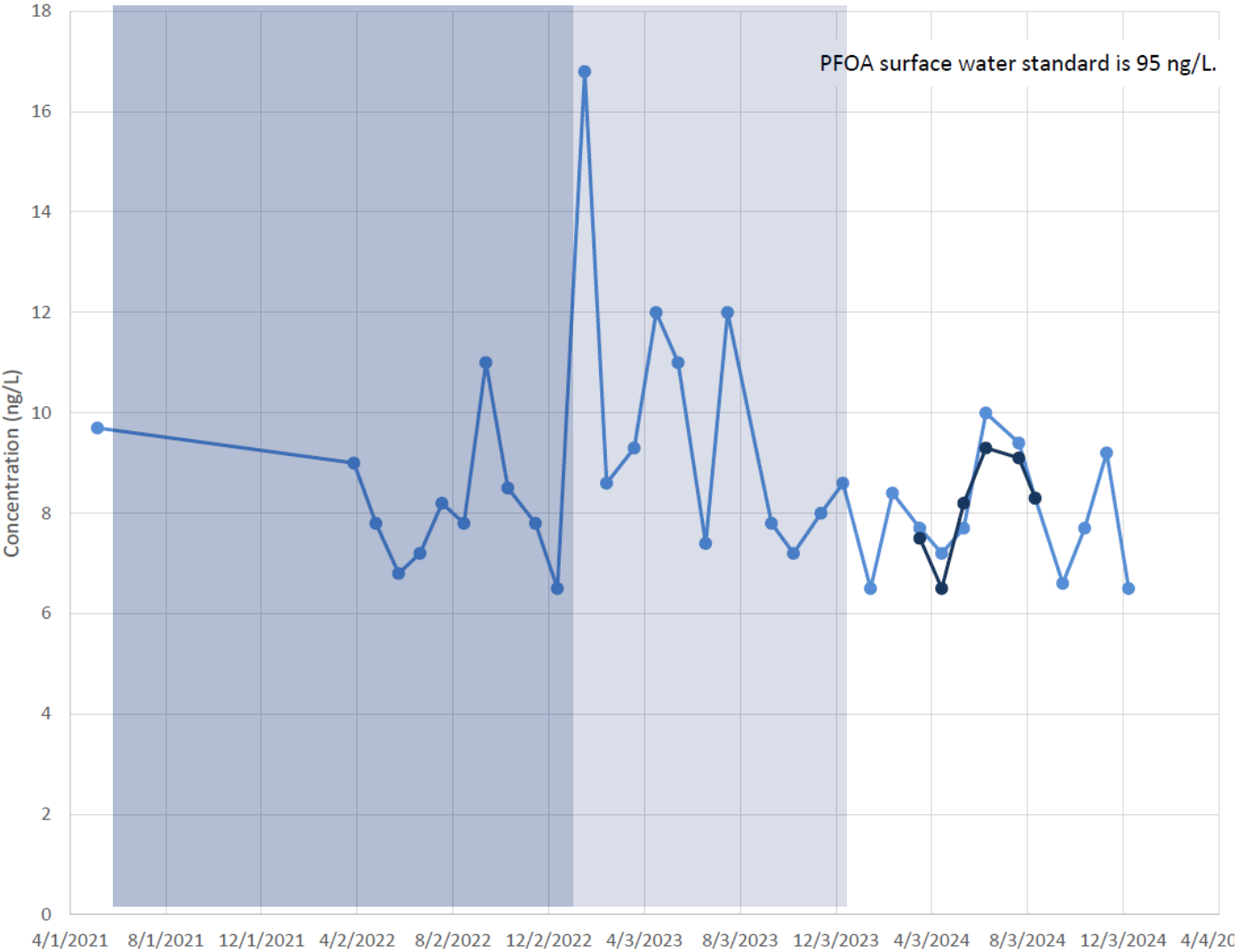


**Effluent**

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# 2024 Results - Effluent

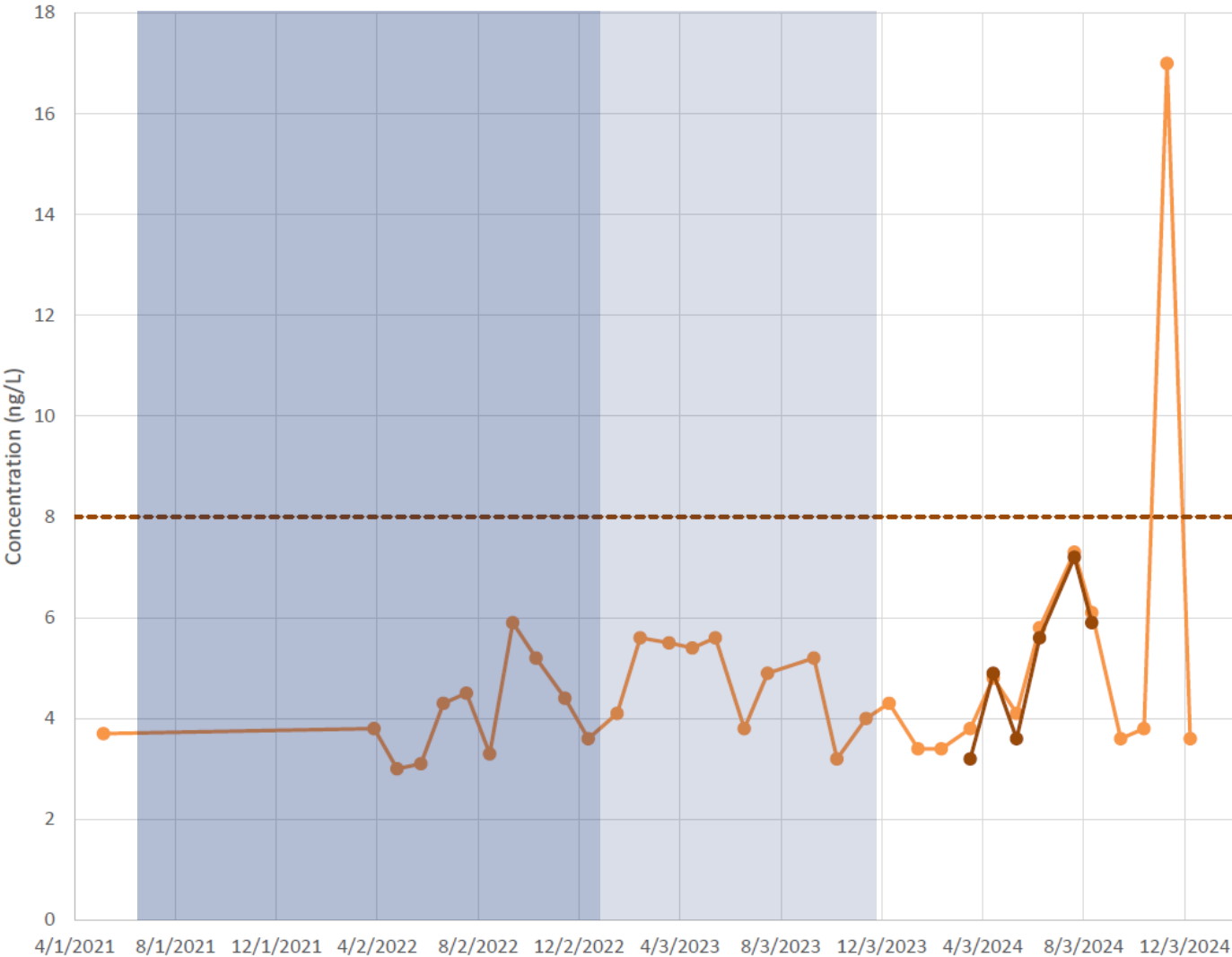


## PFOA

- PFOA (Composite)
- PFOA (Grab)

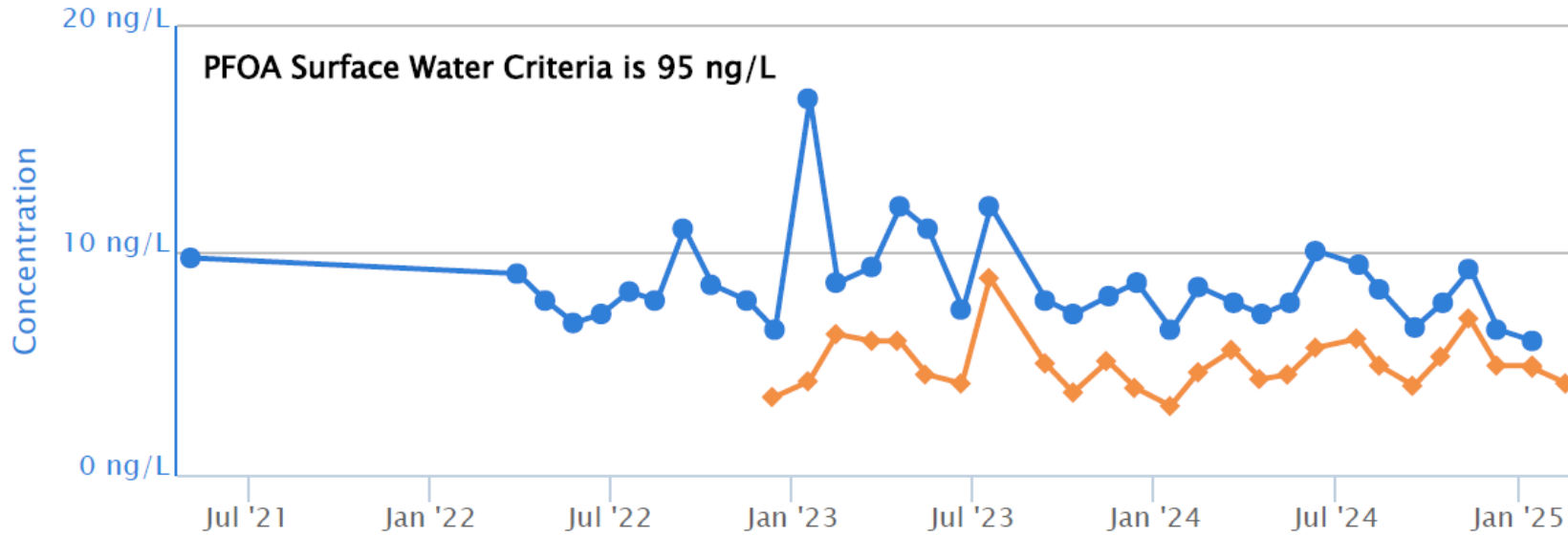
# 2024 Results - Effluent

## PFOS



- PFOS (Composite)
- PFOS (Grab)
- PFOS Surface Water Standard

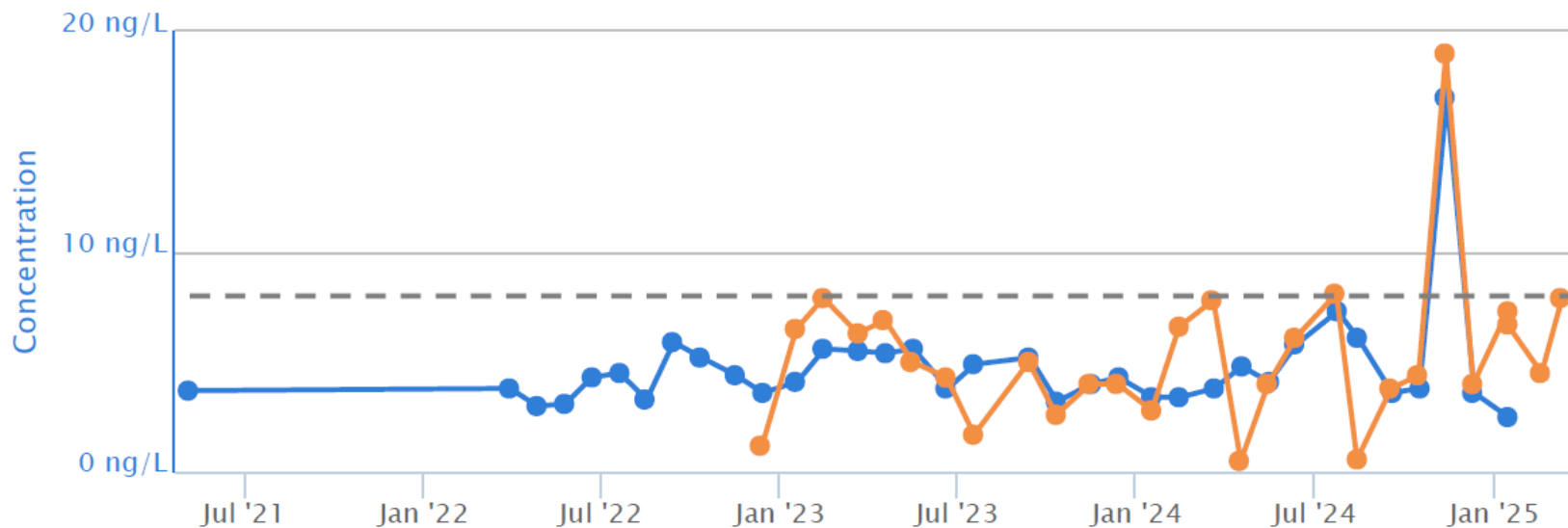
# 2024 Results – Influent & Effluent



**PFOA**

● Effluent

■ Composite Influent



**PFOS**



# 2024 Results – Effluent Summary

- Effluent levels differ from month to month
- Composite and Grab samples are representative
- Effluent PFOS lower than PFOA
- Effluent levels below state water quality standards



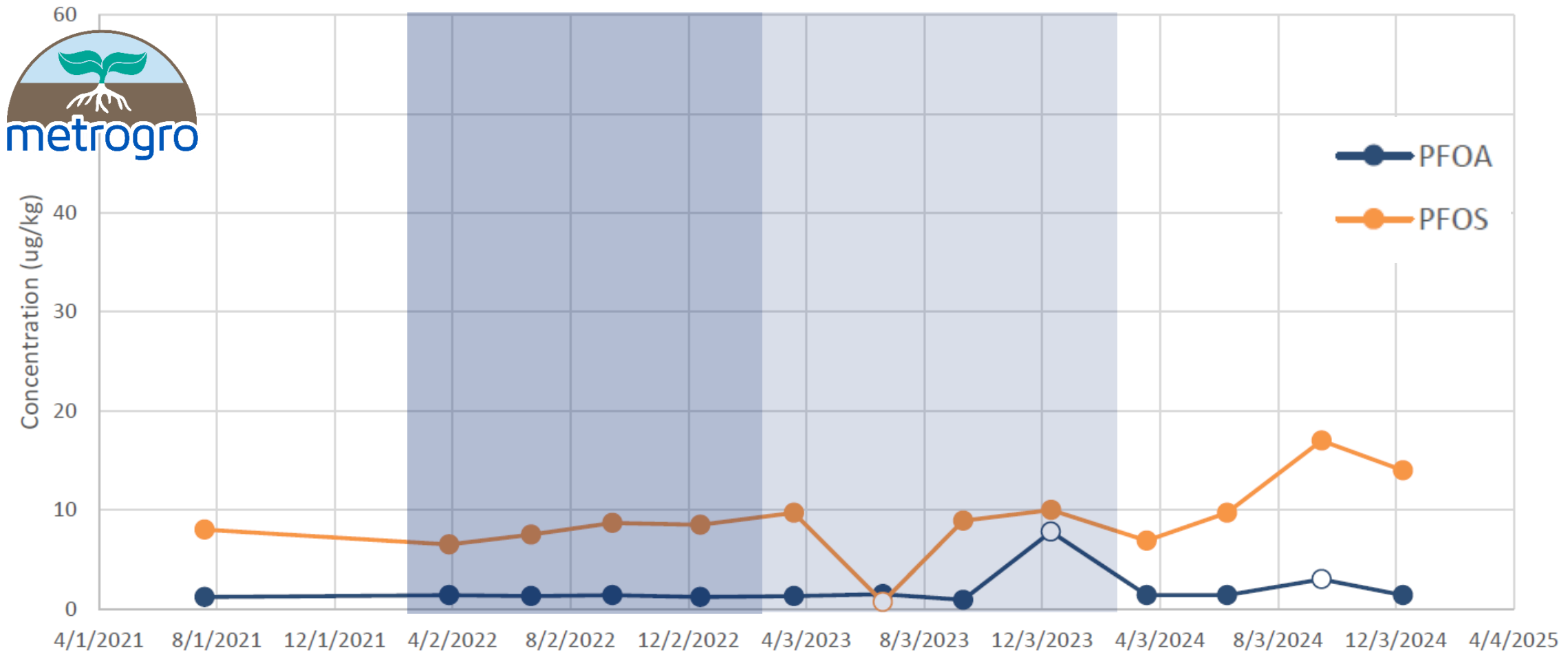


# Biosolids




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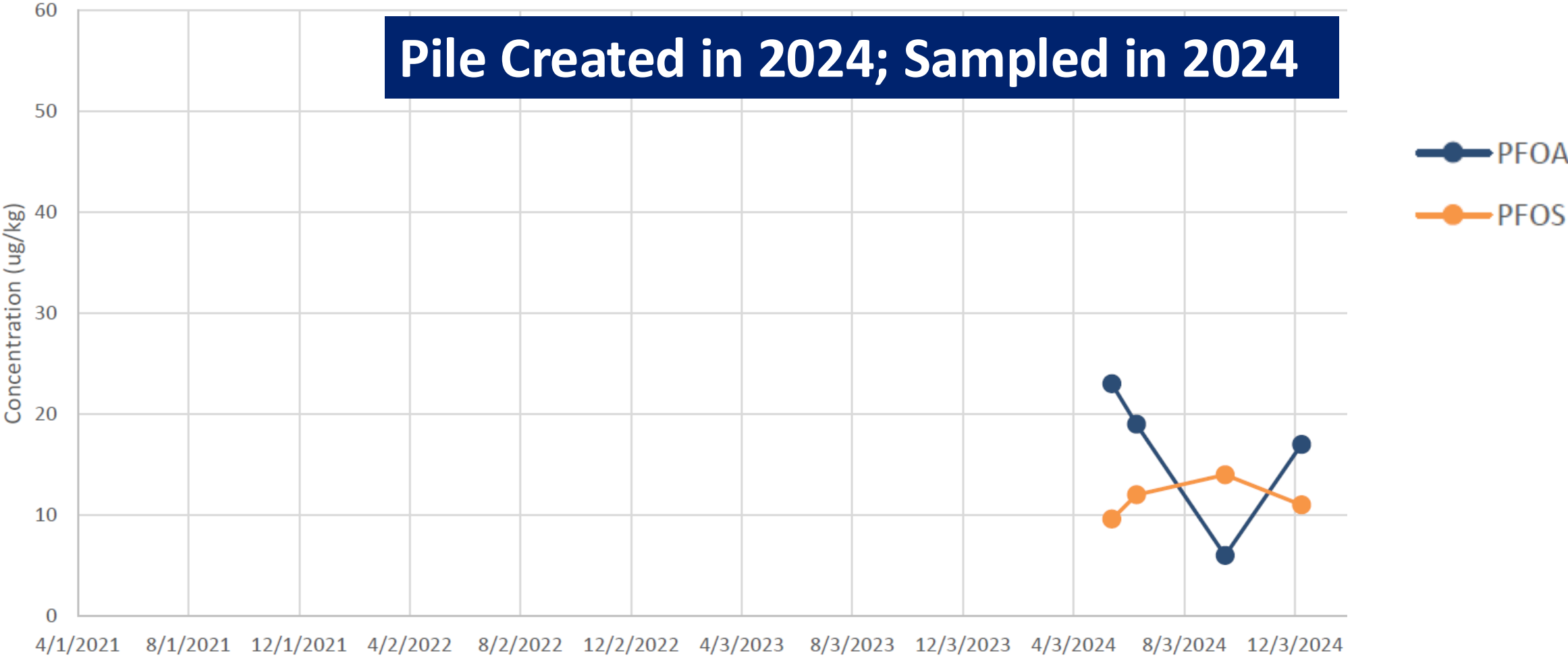
# 2024 Results – Metrogro Class B Biosolids



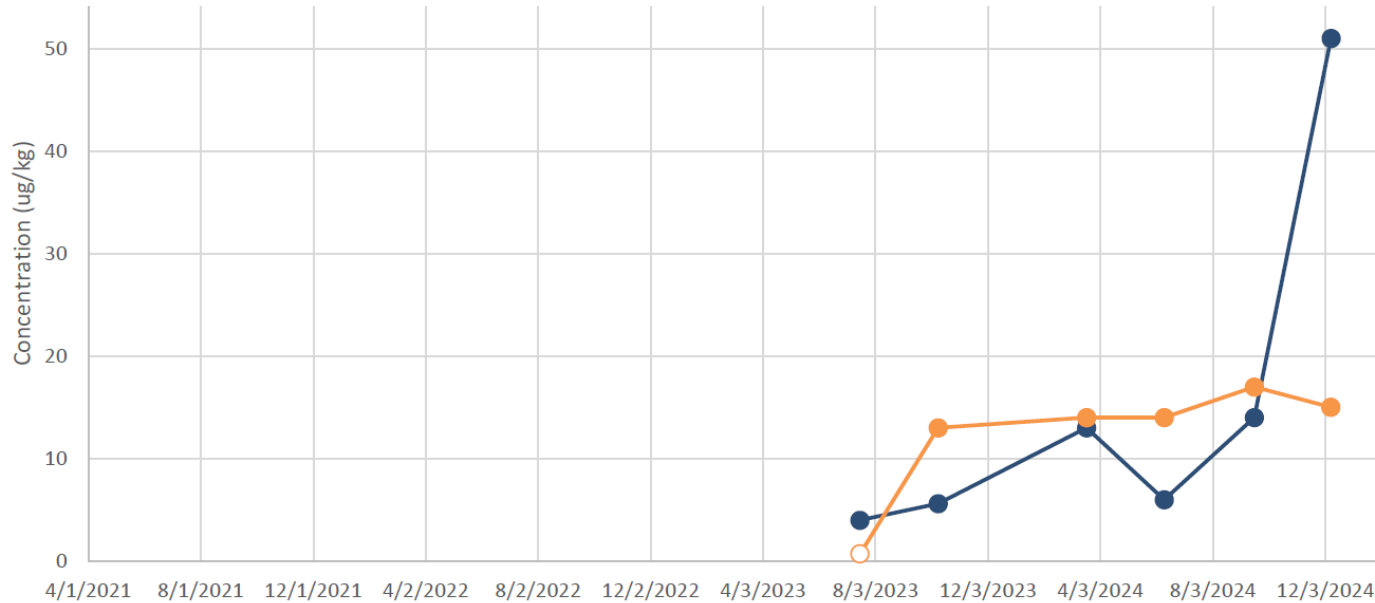
# 2024 Results –Metrogro Class B Biosolids Summary

	March	June	September	December	Combined Median PFOA+PFOS
PFOA (ug/Kg)	1.4	1.4	<3.0 (non-detect)	1.4	
PFOS (ug/Kg)	6.9	9.7	17	14	
Sum PFOA+PFOS	8.3	11.1	17	15.4	13.3

# 2024 Results – Class A Cake Biosolids

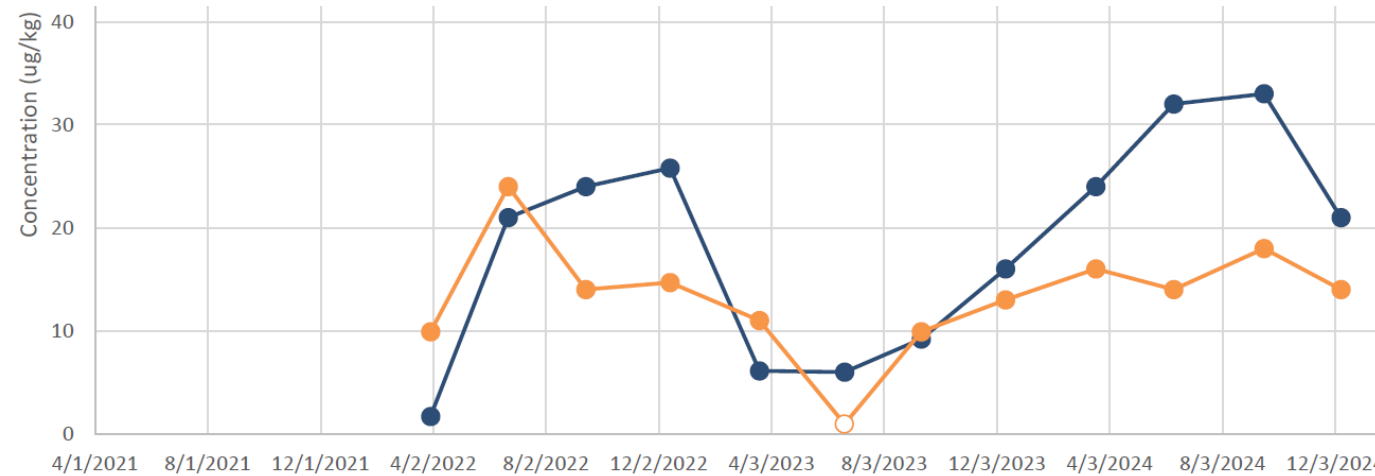


# 2024 Results – Class A Cake Biosolids




**Pile Created in 2023;  
Sampled 2023-2024**

● PFOA  
● PFOS



**Pile Created in 2022;  
Sampled 2022- 2024**

# 2024 Results – Class A Cake Biosolids Summary

 metrogro	May	June	September	December	Median PFOA+PFOS
PFOA (ug/Kg)	23	19	6	17	
PFOS (ug/Kg)	9.6	12	14	11	
PFOA+PFOS	32.6	31	20	28	29.5

# 2022-2024 Results – Class A Cake Biosolids Summary

Year Created	Range PFOS+PFOA Sampled in 2022 (ug/kg)	Median PFOS+PFOA Sampled in 2022 (ug/kg)	Range PFOS+PFOA Sampled in 2023 (ug/kg)	Median PFOS+PFOA Sampled in 2023 (ug/kg)	Range PFOS+PFOA Sampled in 2024 (ug/kg)	Median PFOS+PFOA Sampled in 2024 (ug/kg)
2022	11.4-45	38	6-29	18.1	35-51	43
2023			2.7-23	15.1	20-66	29
2024					20-32.6	29.5

# Summary

- PFAS levels and types continue to be as expected
- PFOA and PFOS levels in effluent below regulatory standards
- Effluent sampling method results similar
- PFOA and PFOS combined values in Metrogro below threshold for reducing land application

# Next Steps

- Sampling of influent, effluent & biosolids
- Septage sampling planning
- Waste impact to biosolids evaluation tool
- Lab capacity assessment

**Thank you**

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