What is PFAS?

Per- and polyfluoroalkyl Substances
Where is it found?

Everywhere
Exposure

PFAS CHEMICALS FOUND IN FAST FOOD CONTAINERS

- Dessert and bread wrappers: 56%
- Burger and sandwich wrappers: 38%
- Paperboard: 20%
- Paper cups: 0%

Madison Metropolitan Sewerage District
Exposure
What is the concern?
Reflect the Communities We Serve
District Action Plan

Madison Metropolitan Sewerage District

Background and actions to address per- and polyfluoroalkyl substances (PFAS)

Last revised June 4, 2019

https://madsewerpfasinitiative.org/
Fate & Transport
Treatment options
Sampling and Analysis
Sampling Locations
Sewer Use Ordinance

No violation of the District’s WPDES permit or interfere with plant operations

No impact to safety
No impact to resource recovery and reuse
No detrimental effect
No condition unacceptable to public agency

no ordinance changes needed
Industrial Permits
Pollution Prevention

Source Identification
Source Minimization
Maintaining Reductions
Source Minimization
Maintaining Reductions

Quantify Reductions

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Pollution Prevention Success

- Mercury
- Salt
- Phosphorus
- Pharmaceuticals
- ‘Flushables’ & ‘FOG’

Opportunities for Pollution Prevention

Regulated – MMSD has permit limit

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Pollution Prevention Success: Mercury
Technological Solutions Are Costly

- Centralized Water Softening: $386 million
- Reverse Osmosis Treatment: $2.35 billion
- Nutrient Removal: $180 million

Madison Metropolitan Sewerage District
Across the nation, communities and public entities are struggling with how to best address the issue PFAS, or per- and polyfluoroalkyl substances, in our environment.

Learn more about what Madison Metropolitan Sewerage District is doing to address PFAS in wastewater and beneficial biosolids and the role individuals and businesses have in helping reduce PFAS use and contamination.

https://madsewerpfasinitiative.org/
Conclusions
Thank you