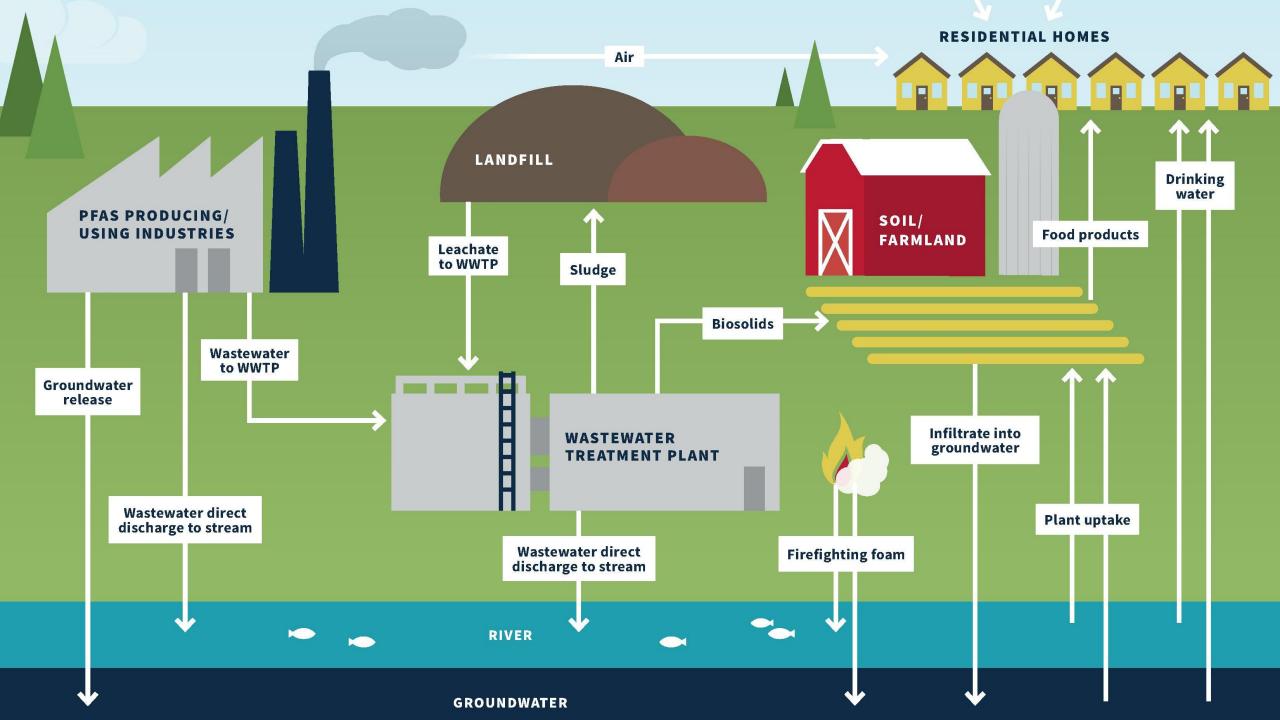
#### **MPART 2021**

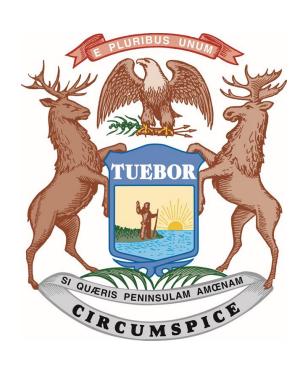
#### AWMA/ELS Virtual Fall Joint Conference November 10, 2020

Steve Sliver, Executive Director Michigan PFAS Action Response Team (517) 290-2943

SliverS@Michigan.gov



#### Michigan PFAS Action Response Team (MPART)



- Executive Order 2019-03
- Unique multi-agency approach
- Directs implementation of state's action strategy
- Coordinates with local and federal governments and stakeholders
- Data-driven and science-based
- Transparent

#### MI PFAS Standards



ENABLE INVESTIGATIONS AND RESPONSES



**HEALTH-PROTECTIVE** 



**DATA-DRIVEN** 



**SCIENCE-BASED** 



STATE-LED

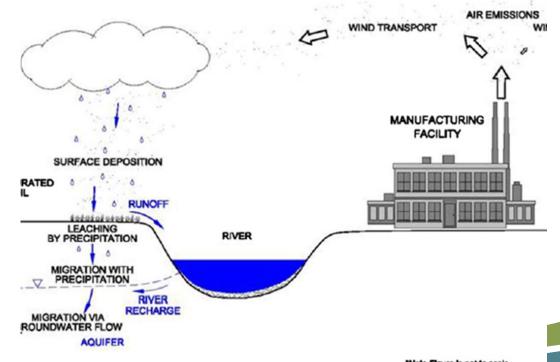


**EVOLVING** 

#### Air Toxics Screening Levels

- Part 55
- Initial Threshold Screening Levels
- $0.07 \,\mu g/m^3 \,PFOA$
- $0.07 \,\mu g/m^3 \,PFOS$
- $1 \mu g/m^3 6:2 FTS (proposed)*$

\*Accepting comments until 11/17/20 www.Michigan.gov/air







### Surface Water Quality Standards

- Part 31
- 12 ppt PFOS (11 ppt DW source)
- 12,000 ppt PFOA (420 ppt DW source)

## Michigan's Drinking Water Standards

- August 3, 2020
- Maximum
   Contaminant
   Levels (MCLs)
- 2,700 water systems

| Compound    | MCL         | EPA<br>Recommendation |  |
|-------------|-------------|-----------------------|--|
| PFNA        | 6 ppt       | NA                    |  |
| PFOA        | 8 ppt       | 70 nnt combined       |  |
| PFOS        | 16 ppt      | 70 ppt combined       |  |
| PFHxS       | 51 ppt      | NA                    |  |
| GenX (HFPO- |             |                       |  |
| DA)         | 370 ppt     | NA                    |  |
| PFBS        | 420 ppt     | NA                    |  |
| PFHxA       | 400,000 ppt | NA                    |  |

#### 7 MCLs ≠ 7 Cleanup Criteria

Groundwater cleanup criteria already in rule

| Compound | Prior to 8/3/20 | After 8/3/20 |
|----------|-----------------|--------------|
| PFOA     | 70 ppt combined | 8 ppt        |
| PFOS     |                 | 16 ppt       |

- Rulemaking necessary for other 5 MCLs to become groundwater cleanup criteria
- Important for how we define a PFAS site



#### Cleanup Standards

- Part 201
- Groundwater cleanup criteria
  - 8 ppt PFOA
  - 16 ppt PFOS
  - GSI per water quality standards
- PFAS Criteria Rulemaking Information Session 11/16/20

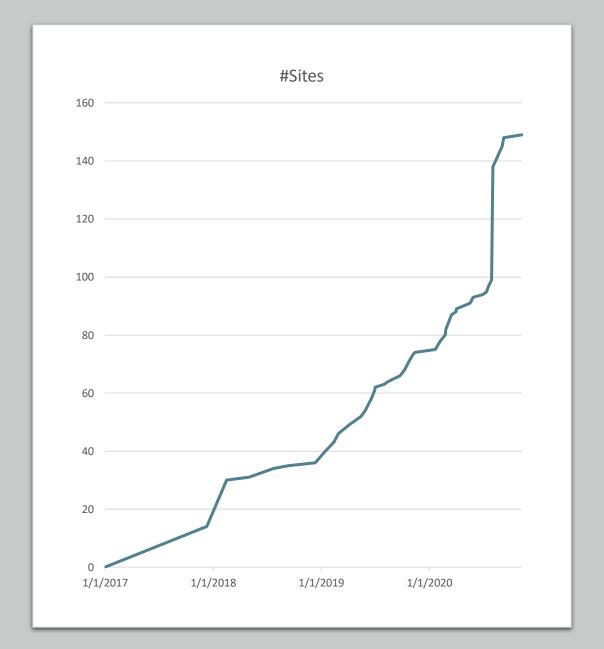
#### ONTONAGON BARAGA GOGEBIC MARQUETTE ALGER EMMET CHEBOYGAN PRESQUE ISLE CHARLEVOIX TUSCOLA Legend BRANCH HILLSDALE LENAWER PFAS Sites (149) >8 ppt PFOA or 16 ppt PFOS in Groundwater - Part 201 Criteria November 9, 2020

#### **PFAS Sites**

- Exceed groundwater cleanup criteria
- Prioritized investigations based on known or suspected sources, potential for exposure
- Protect drinking water pathway
- Pace of new discoveries likely to increase in 2021

## Faster Pace of Discovery?

- Experience in where to investigate
- Adoption of lower and more criteria
- Implementation of MCLs
- Testing initiated by industry
  - Baseline environmental assessments
- Self-initiated residential well testing
- \$4M grants to airports to investigate





#### Site or Not a Site?

- Bigger challenge with lower concentrations
- Does 1 result make a site a site?
- Factors
  - Concentration
  - Can it be replicated
  - Type of source
  - Hydrogeology
  - How well is plume characterized
- MPART Groundwater Workgroup developing guidance for 2021



#### **Community Outreach**

- Robust
  - Local officials
  - Town halls
  - Web site
- Adapting
- Citizens AdvisoryWorkgroup

#### Residential Well Initiative

- One million residential wells
- Most not within MPART investigation area
- Help residents make informed decisions about their risk and what to do about it
- Avoid creating unwarranted fear

DEQ: Harmful PFAS might contaminate more than 11,000 sites statewide

**Keith Matheny** Detroit Free Press
Published 6:00 a.m. ET Jul. 30, 2018 | **Updated 9:18 a.m. ET Jul. 30, 2**0













## Residential Well Information and Tools

- PFAS 101
- Well construction and groundwater basics
- Known and potential PFAS sources
- Testing
- Interpreting results
- Reducing exposure

# Great Lakes PFAS Task Force

- June 2019 Resolution
- Share information and coordinate
- 3 workgroups report in 2021
  - Air Quality
  - Land Application
  - Fish and Wildlife



#### Coordinating with National Associations

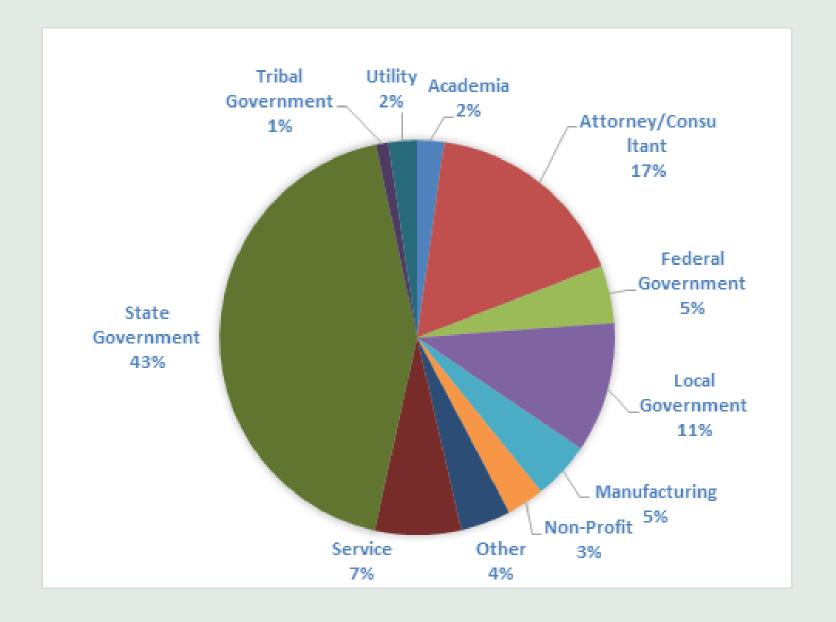
- Environmental Council of States (ECOS)
  - Interstate Technology & Regulatory Council
- Association of State and Territorial Solid Waste Management Officials (ASTSWMO)
  - Contaminants of Emerging Concern (CEC) Steering Committee
    - Multi-state coordination
    - Multi-program coordination
    - State CEC program guidance

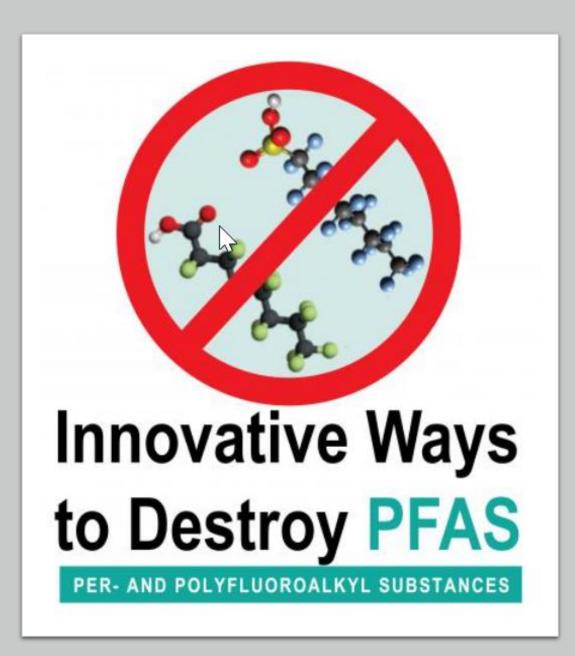




#### Summit Attendees

- 4 countries
  - US
  - Australia
  - Canada
  - Germany
- 36 states





#### EPA Challenge

- Non-thermal technologies for AFFF
- Partners
  - DOD
  - ECOS
  - Michigan EGLE
  - Colorado DPHE
- November 23, 2020 deadline
- https://www.epa.gov/innovation/innovati
   ve-ways-destroy-pfas-challenge



#### Landfills and WWTPs

- Facilitating information sharing and cooperation among waste and wastewater industry
- Challenge of PFAS in leachate
  - Unavoidable
  - Treatment options limited
- Waste stabilization studies
- Mass load approach?
  - Timing of deliveries
  - Local limits



## Studies and Research in 2021

- Biosolids
  - Report on initial screening value for industrial impacted
  - Expanded monitoring
- Statewide soil survey
- Plant uptake
  - Home gardening project
  - Crops
- Point of use filter performance









#### TOPICAL WORKGROUPS

The MPART Coordination Structure includes topical workgroups that manage PFAS initiatives, analysis, and research across state agencies. Each topical workgroup is led by a member of the broader Technical Advisory Workgroup, which helps to ensure coordination across the topical workgroups. As of May 7, 2020, 16 of these multi-agency topical workgroups have been established. Webpages are being created to share their mission, accomplishments, and activities going forward.



Air Quality Workgroup



Airport Workgroup



Animal Health & Food Safety Workgroup



Biosolids Workgroup



Drinking Water Workgroup



Fire Station



Human Health



Lab Standards



Landfills



Pollution

Workgroup

Workgroup

Workgroup

Workgroup

Workgroup

#### Details on the Web









## MICHIGAN PFAS ACTION RESPONSE TEAM (MPART)

www.Michigan.gov/PfasResponse













