Per- and Polyfluoroalkyl Substances

Michigan Department of Environmental Quality

January 11, 2018



PFAS

Per- and Polyfluoroalkyl Substances

- USEPA designation national emerging contaminant
- PFAS suite of chemicals, thousands of applications
- Used in industrial, food, and textile industries
- Characteristics
 - Incredibly stable
 - Break down very slowly
 - Highly soluble
 - Easily transferred through soil to groundwater



Statewide Concerns

- PFAS contamination identified in several locations in Michigan
- Currently 14 locations, 29 sites
- Sources include:
 - Current and former military installations
 - Tanneries
 - Plating operations
 - Legal and illegal disposal sites

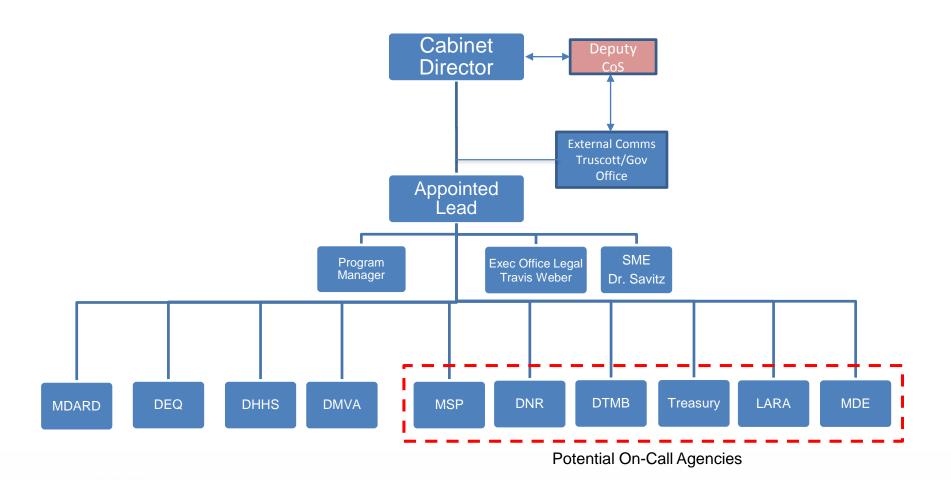


Michigan PFAS Action Response Team (MPART)

- Governor Snyder signed ED 2017-4 on November 13
- Design: ensure comprehensive, cohesive, timely response to continued mitigation PFAS substances (PFAS) across Michigan
- Goal: provide cooperation and coordination among all levels of government

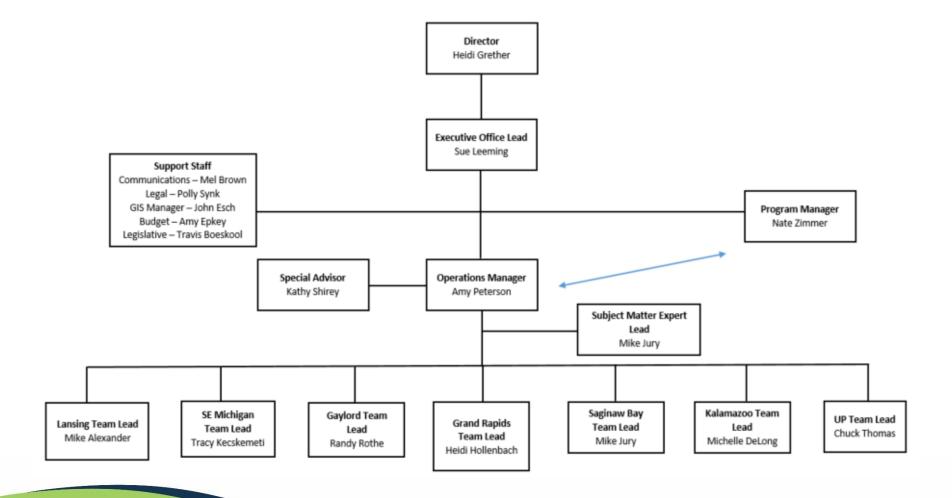


Michigan PFAS Action Response Team





DEQ Action Response Team





Confirmed PFAS Locations

Alpena

Ann Arbor

Escanaba

Flint

Grayling

Gwinn

Lansing

Lapeer

Mt. Clemens

Mt. Pleasant

Oscoda

Plainfield Township

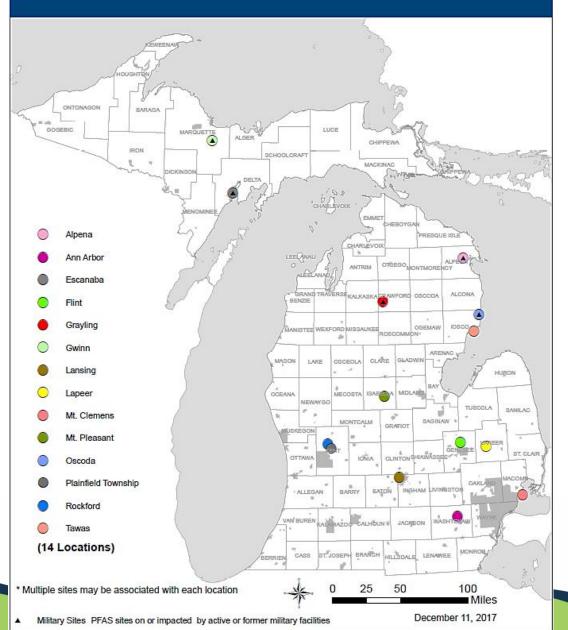
Rockford

Tawas





Confirmed PFAS Locations



Confirmed PFAS Locations/# sites

Alpena/2

Ann Arbor/1

Escanaba/1

Flint/2

Grayling/3

Gwinn/1

Lansing/2

Lapeer/2

Mt. Clemens/2

Mt. Pleasant/1

Oscoda/7

Plainfield Township/2

Rockford/2

Tawas/1

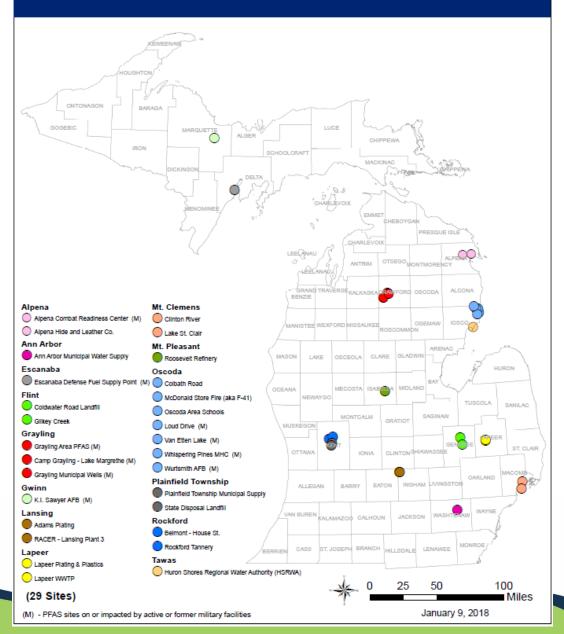
14 locations

29 sites





Confirmed PFAS Sites



Challenges

- Test analysis time frame
- Unsettled science
- Funding



DEQ's PFOA and PFOS 70 ppt Drinking Water Criterion

- PFAS criterion 70 ppt PFOA and PFOS combined, established under Part 201
- Took effect Wednesday, January 10, 2018
- Allows MDEQ to:
 - Mandate responsible parties conduct activities
 - take legal action who doesn't comply with MDEQ's cleanup rules
- 70 ppt comes from the health advisory value set by EPA for PFOA and PFOS.



Next Steps

- Stand up state laboratory capabilities
- MPART
- PFAS Multiagency Technical Workgroup
- Scientific Advisory Committee
- Local Public Health Advisory Committee
- Secure ongoing financial support
- Web site: <u>www.michigan.gov/pfasresponse</u>

