Michigan Taking Action on PFAS

Steve Sliver
Michigan PFAS Action Response Team
517-290-2943 | SliverS@Michigan.gov
PFAS Emerge in Michigan

- 2012 Wurtsmith “Do Not Eat” fish advisory
- 2013 surface water recon sampling
- 2017 connecting channels data
- 2017 Camp Grayling sample data
- 2017 North Kent sample data
Michigan PFAS Action Response Team (MPART)

- Unique multi-agency approach
- Leads coordination and cooperation among all levels of government
- Directs implementation of state’s action strategy
MPART Outreach

- Transparency
- Stakeholders
- Other states and associations
- Advisory workgroups
  - Local health
  - Science
  - Citizens
MPART’s Proactive Response

- Protect Public Health
- Standardize sampling and analytical
- Study occurrence
- Identify sources and source pathways
- Study environmental transport and fate
- Study ecological effects
- Educate
- Prevent future contamination
- Develop standards
Sites Being Investigated

- Sources of groundwater contamination over 70 ppt PFOS+PFOA
- Once a source is identified, it becomes an official site
- Multiple other investigations with no known source yet
Surface Water Investigations

- Ambient
- Fish
- Foam
- Wastewater
Environmental Studies and Research

- Biosolids
- Landfill leachate
- Treatment technologies
MI Public Water Supply Testing

- All community water supplies
- All NTNCWS schools and day cares
- May – December 2018
- Informs next phase of testing
Statewide Public Water Supply Testing Initiative Results*

*As of February 5, 2019

- **Community Water Supplies**:
  - Non-Detect Total PFAS: 89.2%
  - < 10 ppt Total PFAS (Not ND): 7.5%
  - 10 – 70 ppt PFOS+PFOA: 0.1%
  - > 70 ppt PFOS+PFOA: 3.1%

- **Schools on Wells**:
  - Non-Detect Total PFAS: 91.1%
  - < 10 ppt Total PFAS (Not ND): 4.6%
  - 10 – 70 ppt PFOS+PFOA: 0.2%
  - > 70 ppt PFOS+PFOA: 4.1%

- **Child Care / Head Start**:
  - Non-Detect Total PFAS: 88.2%
  - < 10 ppt Total PFAS (Not ND): 6.6%
  - 10 – 70 ppt PFOS+PFOA: 0.0%
  - > 70 ppt PFOS+PFOA: 5.3%

- **Tribes**:
  - Non-Detect Total PFAS: 100.0%
  - < 10 ppt Total PFAS (Not ND): 0.0%
  - 10 – 70 ppt PFOS+PFOA: 0.0%
  - > 70 ppt PFOS+PFOA: 0.0%
Public Health Advisories

- Fish and deer consumption
  - 9 – 300 ppb PFOS
- Surface water foam
Exposure and Health Assessments

FOR IMMEDIATE RELEASE: Aug. 14, 2018

CONTACT: Angela Minicuci, 517-241-2112, MinicuciA@michigan.gov

MDHHS and KCHD release PFAS related-cancer incidence report for Kent County

LANSING, Mich. – The Michigan Department of Health and Human Services (MDHHS) and Kent County Health Department (KCHD) today released a review of cancer incidence data in support of

• North Kent County
• Parchment
• Wurtsmith
• Camp Grayling
Fire Fighting Foam

- State Fire Marshal survey of fire departments
- MDOT survey of airports
- Special equipment for required training
- PEAS Hotline after use
- Collection and disposal program
MI Standards

Surface water quality
- ✔ 11/12 ppt PFOS
- ✔ 420/12,000 ppt PFOA

Groundwater cleanup
- ✔ 70 ppt PFOA/PFOS
- ✔ GSI per surface water quality standards

Drinking water
- ✔ 70 ppt PFOA/PFOS
  lifetime health advisory recommendation
- ❑ MCLs
FOR IMMEDIATE RELEASE
March 26, 2019
Contact: BrownT56@michigan.gov

Gov. Whitmer Directs MDEQ To File a Request for Rulemaking to Establish PFAS Drinking Water Standards

LANSING, Mich. – Today Gov. Gretchen Whitmer released the following statement commenting on Michigan’s intent to establish PFAS drinking water standards to further protect Michiganders:

“All Michiganders deserve to know that we are prioritizing their health and are working every day to protect the water that is coming out of their taps.

“As a result, Michigan will begin the process to establish PFAS drinking water standards that protect public health and the environment. Michigan has long advocated that the federal government establish national standards to protect the nation’s water from PFAS contamination, but we can no longer wait for the Trump Administration to act.

“Today I’m directing the Michigan PFAS Action Response Team to form a science advisory workgroup to review both existing and proposed health-based drinking water standards from around the nation to inform the rulemaking process for appropriate Maximum Contaminant Levels (MCL) for Michigan by no later than July 1, 2019. Additionally, I’m directing the Department for Environmental Quality to immediately file a Request for Rulemaking to establish enforceable MCLs for PFAS in our drinking water supplies. The proposed regulations will be completed on an accelerated schedule with input from stakeholders by no later than October 1, 2019.

“These actions will move us a step closer towards finding real and permanent solutions to ensuring that all Michiganders know that they can trust their drinking water.”
PFOA

**USEPA Lifetime Health Advisory**, for PFOA individually or in combination with PFOS (2016)
- Water intake for a woman who is breast-feeding
- USEPA RfD
- Daily exposure
- 20% Relative Source Contribution

**NH Dept of Environmental Services** proposed MCL
- Water intake for a woman who is breast-feeding
- NH RfD
- Daily exposure
- 40% Relative Source Contribution

- Water intake for children less than 1 year old
- ATSDR MRL
- Daily exposure
- No Relative Source Contribution

**MDHHS screening level**, MDH toxicokinetic model
- Water intake varies by age
- ATSDR MRL
- Daily exposure
- 50% Relative Source Contribution

**ATSDR Environmental Media Evaluation Guide** for adults only (2018)
- Adult drinking water intake
- ATSDR MRL
- Daily exposure
- No Relative Source Contribution

**Minnesota Dept. of Health**, protective of breast-feeding infants, both from exposure they may receive prenatally and while breast-feeding (2018)
- Water intake varies by age
- USEPA RfD
- Daily exposure
- 50% Relative Source Contribution

**New Jersey Dept Environmental Protection** (2017)
- Adult drinking water intake
- NJ RfD
- Daily exposure
- 20% Relative Source Contribution

**NY Proposed MCL**: 10 ppt (not all details are available yet)
Overview of MCL Process

BEGIN

4/4 MPART
Apr 4, 2019

MPART
Jul 1, 2019
HBV's Developed
(Health Based Values)

MPART

6/27

9/26

MPART

MPART
Oct 1, 2019
Draft Rules Developed

MPART

9/26

MPART

Dec 1, 2019

MPART

MCL
Apr 2020
Final Rule Adopted

SAWG Develops HBV's

Rules Development with Stakeholder Input

Public Participation

ORR / ERRC