

MPART PFAS Community Meeting North 30th St Area of Interest

July 16, 2025

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MICHIGAN PFAS ACTION RESPONSE TEAM

MPART PFAS Community Meeting

Abigail Hendershott, MPART Executive Director
Michigan PFAS Action Response Team

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Agenda

- Introductions – Abigail Hendershott, MPART Executive Director
- Agenda:
 - MPART Overview – Abby Hendershott
 - Health – Jinyi Chen, Michigan Department of Health and Human Services
 - Investigation Area – Miranda Triolet, Michigan Department of Environment, Great Lakes, and Energy
 - Public Water Supply – Ian Smith, Michigan Department of Environment, Great Lakes, and Energy
 - Point of Use Filters – Lucas Pols, Kalamazoo County Health Department
- Q&A

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Michigan PFAS Action Response Team (MPART)

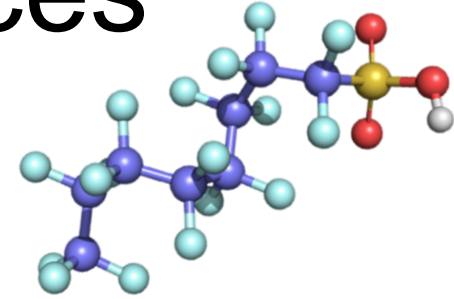


- Executive Order 2019-03
- Unique Multi-Agency Approach
- Leads Coordination and Cooperation Among All Levels of Government
- Directs Implementation of State's Action Strategy

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Per- and Polyfluoroalkyl Substances (PFAS)



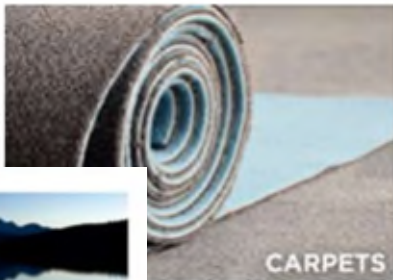
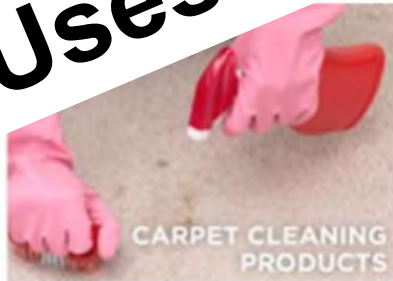
What are they?

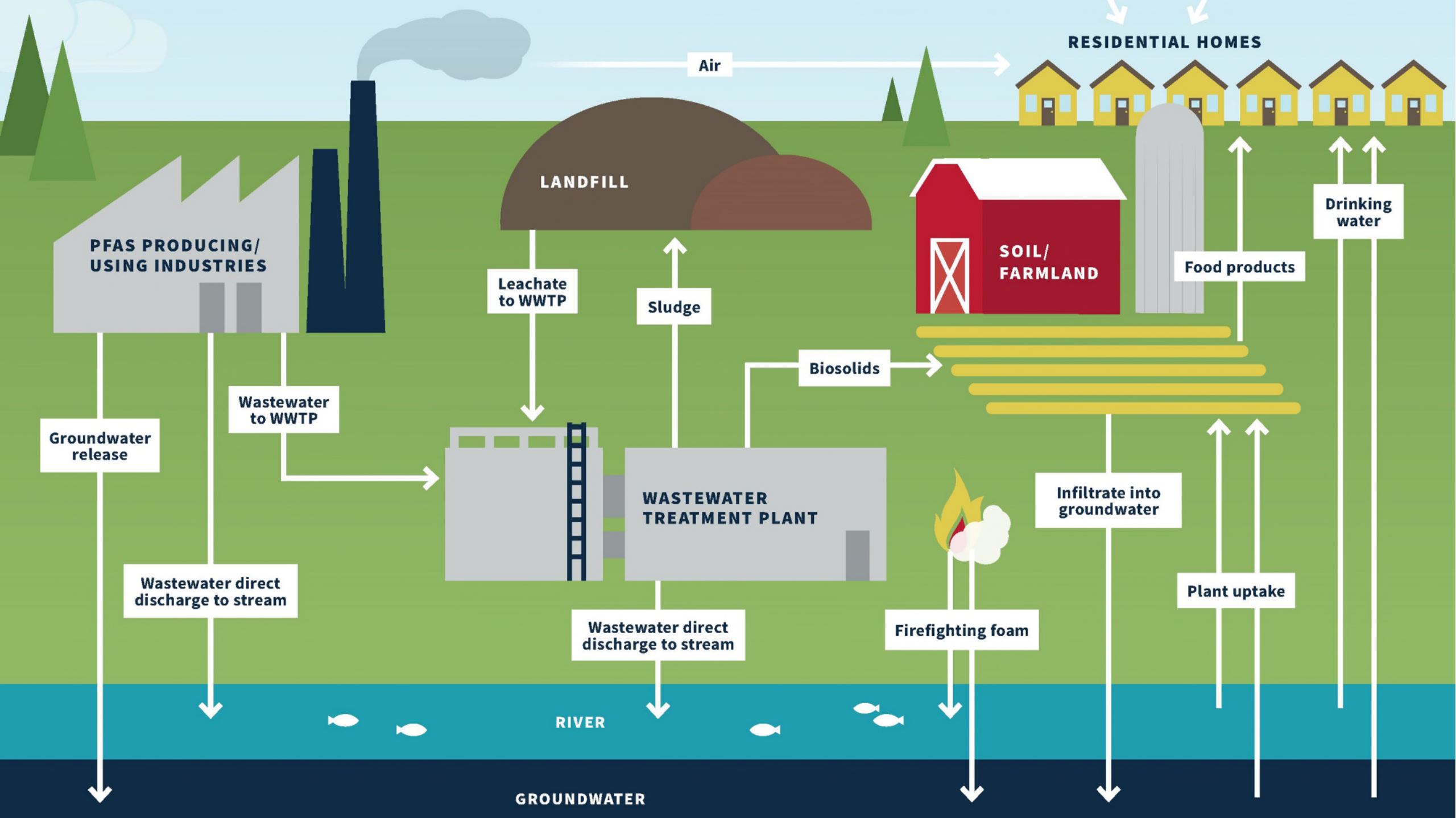
- Strong Carbon-Fluorine Bonds
- Surfactants
- Highly Stable
- Repel Water, Oil, Fat, and Grease
- Began Developing in 1940s
- Thousands of Compounds Today

Why the concern?

- Widespread through the ecosystem
- Don't Break Down Easily - Hard to Get Rid of
- Bioaccumulate – Build Up in Our Bodies
- Some PFAS May Affect Health
- Some emerging science/information
- Need for additional Federal Standards

PFAS Uses





What is Michigan doing?

Protect Public Health

- Investigating where PFAS is in the environment
 - Drinking water, groundwater, water bodies
- Developed and enforcing, standards for PFAS in surface water, drinking water, and groundwater cleanup standards
 - Modifying standards as science evolves
- Educating the public to:
 - Prevent future contamination
 - Minimize future use of PFAS



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Michigan's Drinking Water and Groundwater Cleanup Standards

Compound	Standards
PFNA	6 ppt
PFOA	8 ppt
PFOS	16 ppt
PFHxS	51 ppt
GenX (HFPO-DA)	370 ppt
PFBS	420 ppt
PFHxA	400,000 ppt

Michigan Surface Water Quality Values

Compound	Water Quality Value
PFOA	170 ppt
<i>If Drinking Water Source</i>	<i>66 ppt</i>
PFOS	12 ppt
<i>If Drinking Water Source</i>	<i>11 ppt</i>
PFBS	670,000 ppt
<i>If Drinking Water Source</i>	<i>8,300 ppt</i>
PFHxS	210 ppt
<i>If Drinking Water Source</i>	<i>59 ppt</i>
PFNA	30 ppt
<i>If Drinking Water Source</i>	<i>19 ppt</i>

Michigan's Rule 57 Water Quality Values
apply to NPDES discharges



Lakes and Streams Investigations

- Collecting water and fish samples

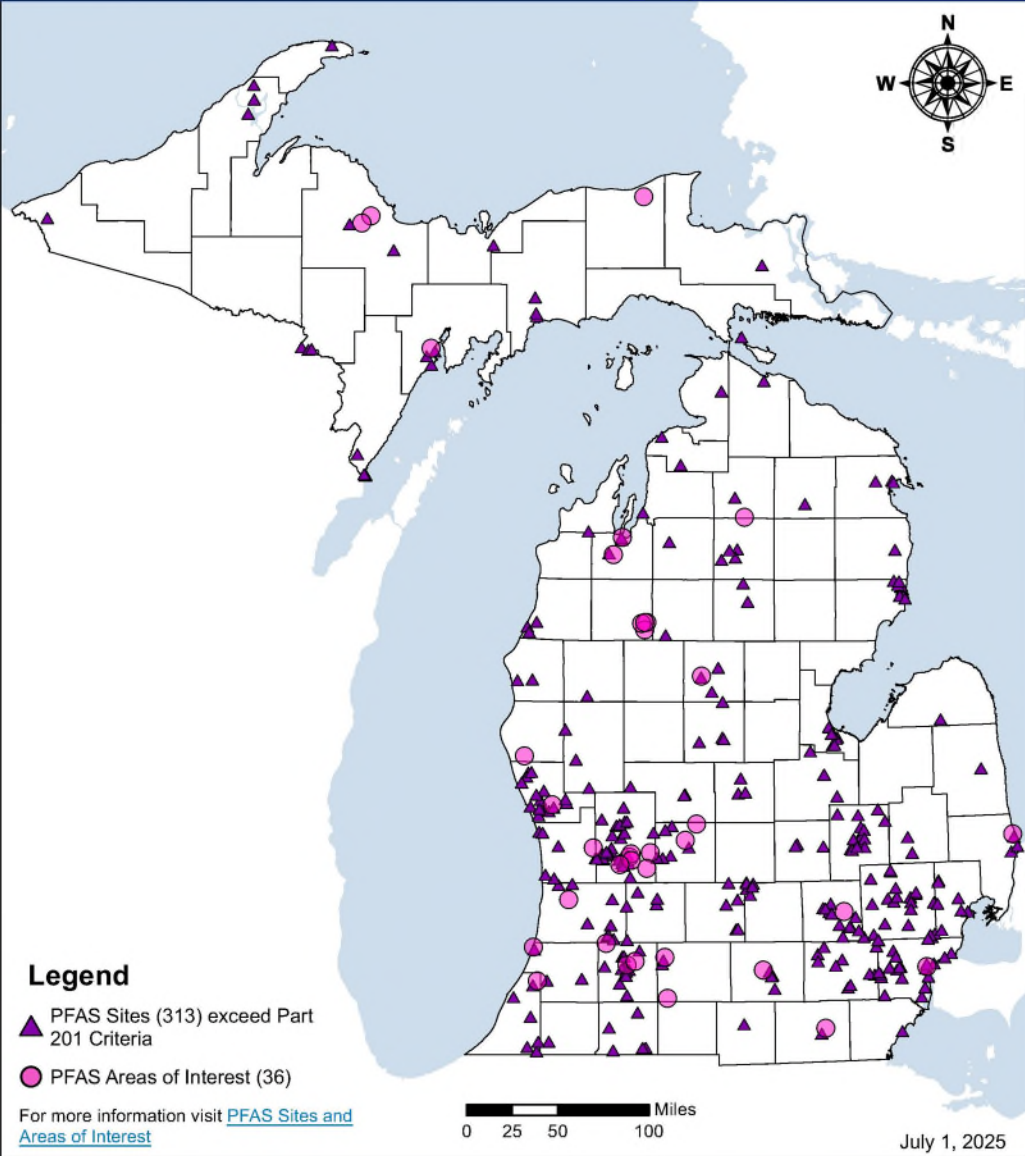
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MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Michigan PFAS Sites and Areas of Interest



Sites Being Investigated

- Prioritized Investigations Based on Known or Suspected Sources, Potential for Exposure
- Protect Drinking Water Pathway
- Multiple Other Investigations Underway

QR Code for:
MPART Sites and Investigation





Michigan PFAS Action Response Team (MPART)



What's new

- New section of the website: [Resources for Residents](#)
- New site in [Wayne County](#): Cul-Mac Industries, LLC (added 12/15)
- New site in [Keweenaw County](#): Copper Harbor Landfill (added 12/13)
- New site in [Ionia County](#): Lowell City Landfill (added 11/30)



MPART FY2023 Fast Facts

In FY2023, the Michigan legislature supported the PFAS response by appropriating funding across the 7 state agencies that make up MPART. Learn more about the impact of that funding.

Michigan.gov/PFASResponse

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- PFAS 101
- FAQs
- Site investigation summaries
- Public meeting calendar

Featured topics



NEW! Resources for residents



About MPART



Citizen's Advisory Workgroup



Drinking water



Public engagement



Investigations



Sampling guidance



Identified sites

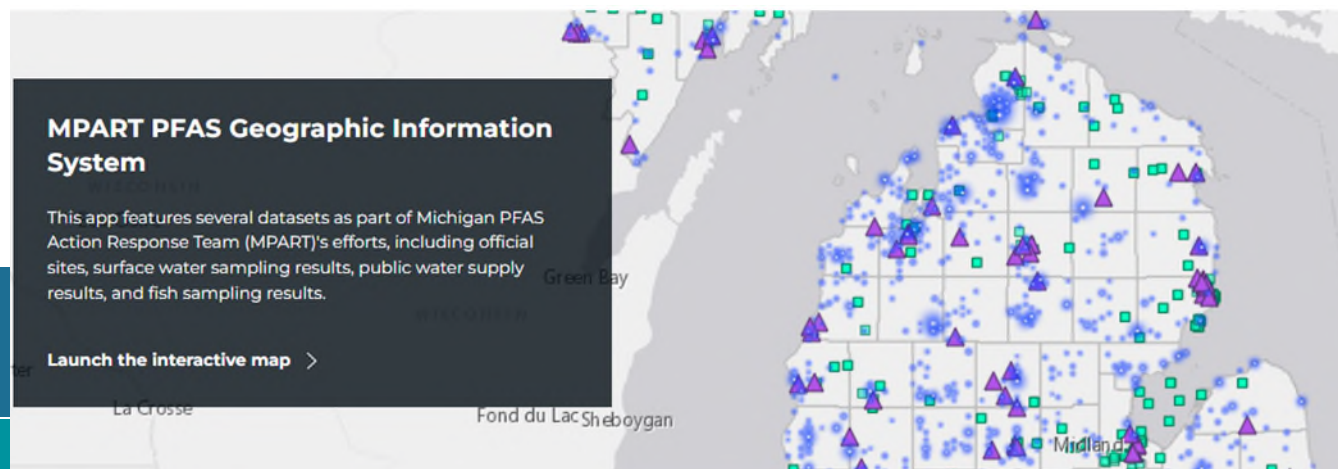
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MPART PFAS Geographic Information System

This app features several datasets as part of Michigan PFAS Action Response Team (MPART)'s efforts, including official sites, surface water sampling results, public water supply results, and fish sampling results.

Launch the interactive map >



Citizens Advisory Workgroup

Michigan.gov/MPARTCAWG

- Residents From Impacted Communities
- Key Charges:
 - Recommend How to Engage and Empower Communities
 - Recommend How to Educate the General Public
- Residents interested in becoming a CAWG Member:
 - Read the [CAWG Charter](#)
 - Submit a [Membership Registration Form](#)



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QR Code for:
MPART Citizen Advisory Workgroup



PFAS and Health

Jinyi Chen, Toxicologist

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Rachel Higgins, Toxicologist

517-243-7756

HigginsR1@michigan.gov

Michigan Department of Health and Human Services

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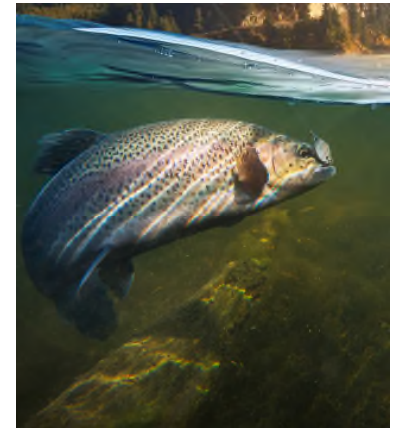
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The Role of MDHHS/ Local Health Department (LHD)

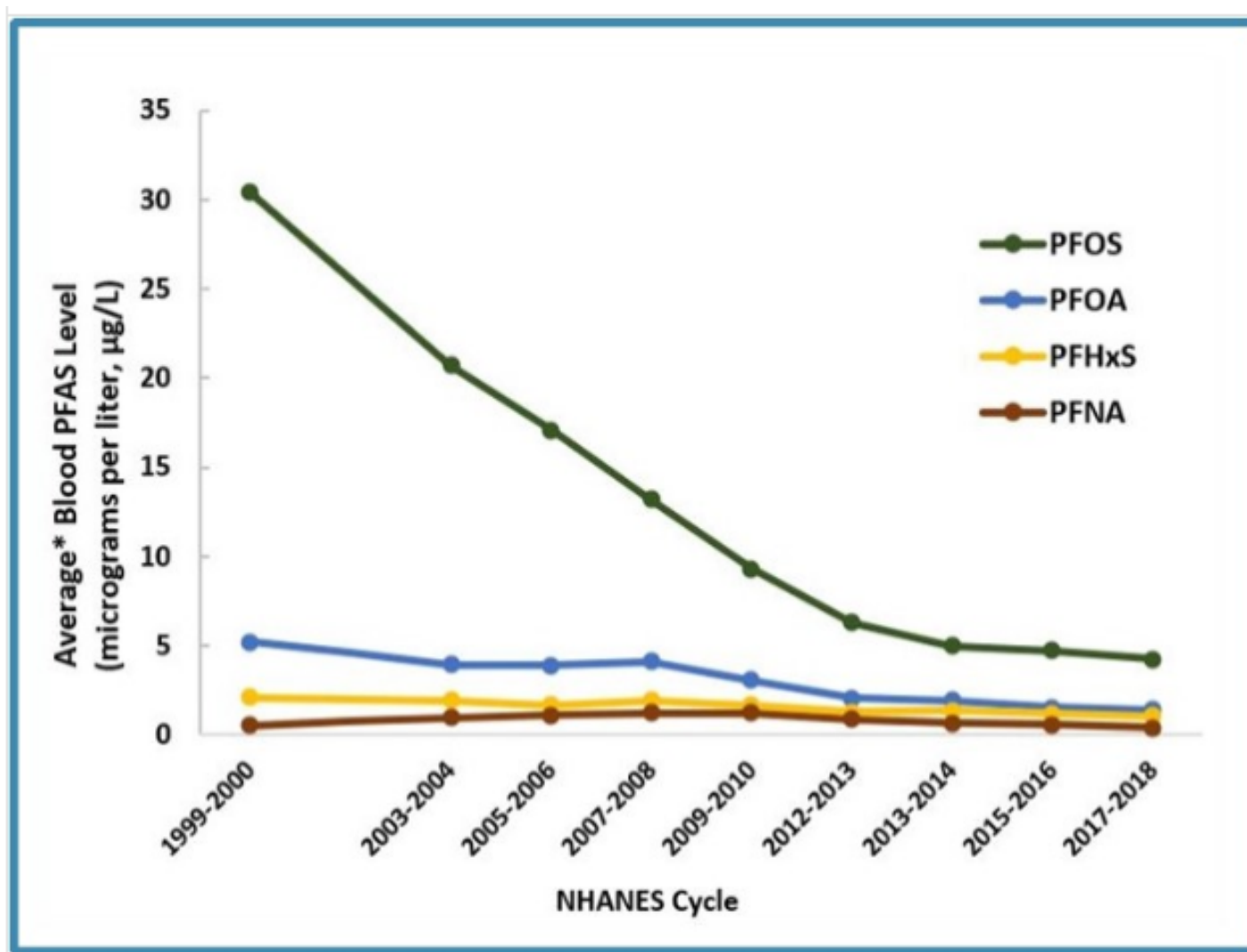
- Understand the health concerns facing your community
- Develop a plan to investigate and address health risks
 - EGLE leads the site investigation
 - MDHHS and the Local Health Department lead the public health planning and response
- Evaluate PFAS exposures to residents in the community
 - Recommend public health actions as needed

Exposure to PFAS Chemicals

- Drinking contaminated water
- Eating fish caught from water contaminated by PFAS
 - “Eat Safe Fish” Guidelines
- Incidental swallowing of contaminated soil or dust
- Eating food packaged in materials containing PFAS
- Using some consumer products
- PFAS absorption through skin is typically not a concern



Blood levels of the most common PFAS in people in the United States 2000-2018



Associated Human Health Outcomes PFOA and/or PFOS

- Reduced fertility
- High blood pressure or pre-eclampsia in pregnant women
- Small decreases in infant birth weight
- Higher cholesterol
 - Especially total cholesterol and LDL cholesterol

Associated Human Health Outcomes PFOA and/or PFOS

- Thyroid disease
- Liver damage
- Decreased immune system response to vaccines
- Developing certain types of cancer
 - In particular, kidney and testicular cancers*

* PFOA only

Multiple Lines of Consideration for Determining Public Health Response Actions

- MDHHS Comparison Values
- Residential Well Results (individually and collectively)
- Site-specific information (e.g., known source, geology, etc.)

MDHHS Comparison Values

- MDHHS Comparison Values are the lowest of:
 - MDHHS Public Health Drinking Water Screening Level
 - MPART Health-Based Value or Maximum Contaminant Level (MCL)
- Both the MDHHS screening levels and the MCL were set to protect everyone
 - including those most at risk of harm to their health: fetuses and breastfed babies

MDHHS Comparison Values

PFAS	Comparison Values
PFOS	8 ppt ^A
PFOA	8 ppt ^B
PFNA	6 ppt ^B
PFHxS	51 ppt ^B
PFBS	420 ppt ^B
PFHxA	400,000 ppt ^B
GenX	370 ppt ^B

A. MDHHS Public Health Drinking Water Screening Level




B. MPART Health-Based Value or Maximum Contaminant Level (MCL)

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Residential Well Results (individually and collectively)



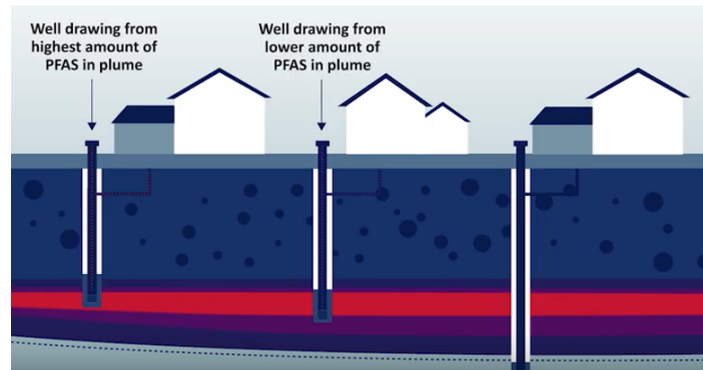
-  No Detection
-  Detected but less than the comparison value
-  Exceedance

Site-Specific Information

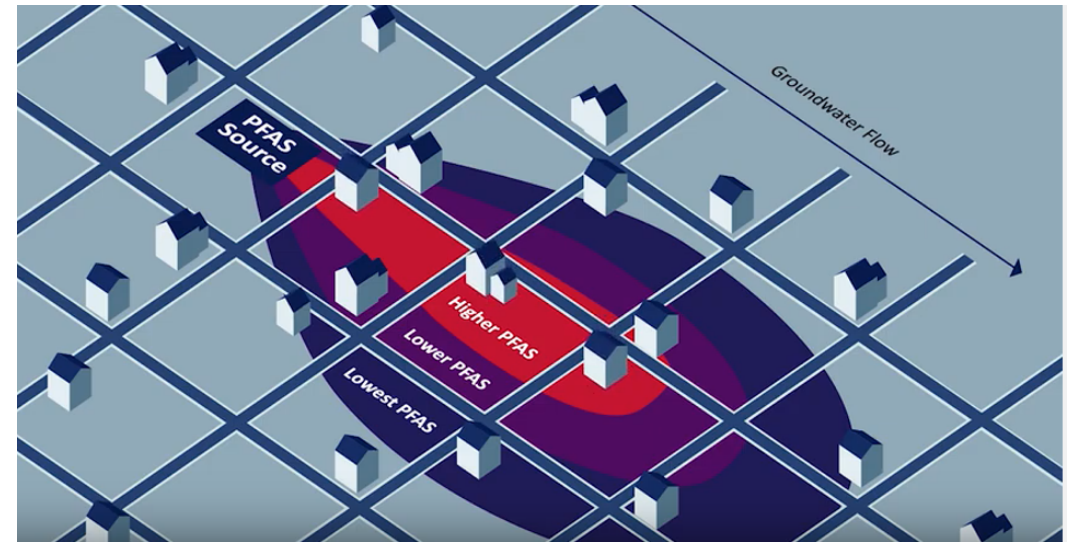
Known Source



Geology



Plume



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MDHHS/LHD

Public Health Response Actions

- No public health actions necessary
- Recommend filter or use of alternate water
 - Need time to conduct investigation
 - Provides residents with protection from potential fluctuations in PFAS levels, if any, while investigation is ongoing
- Education
 - Provide information on PFAS in drinking water

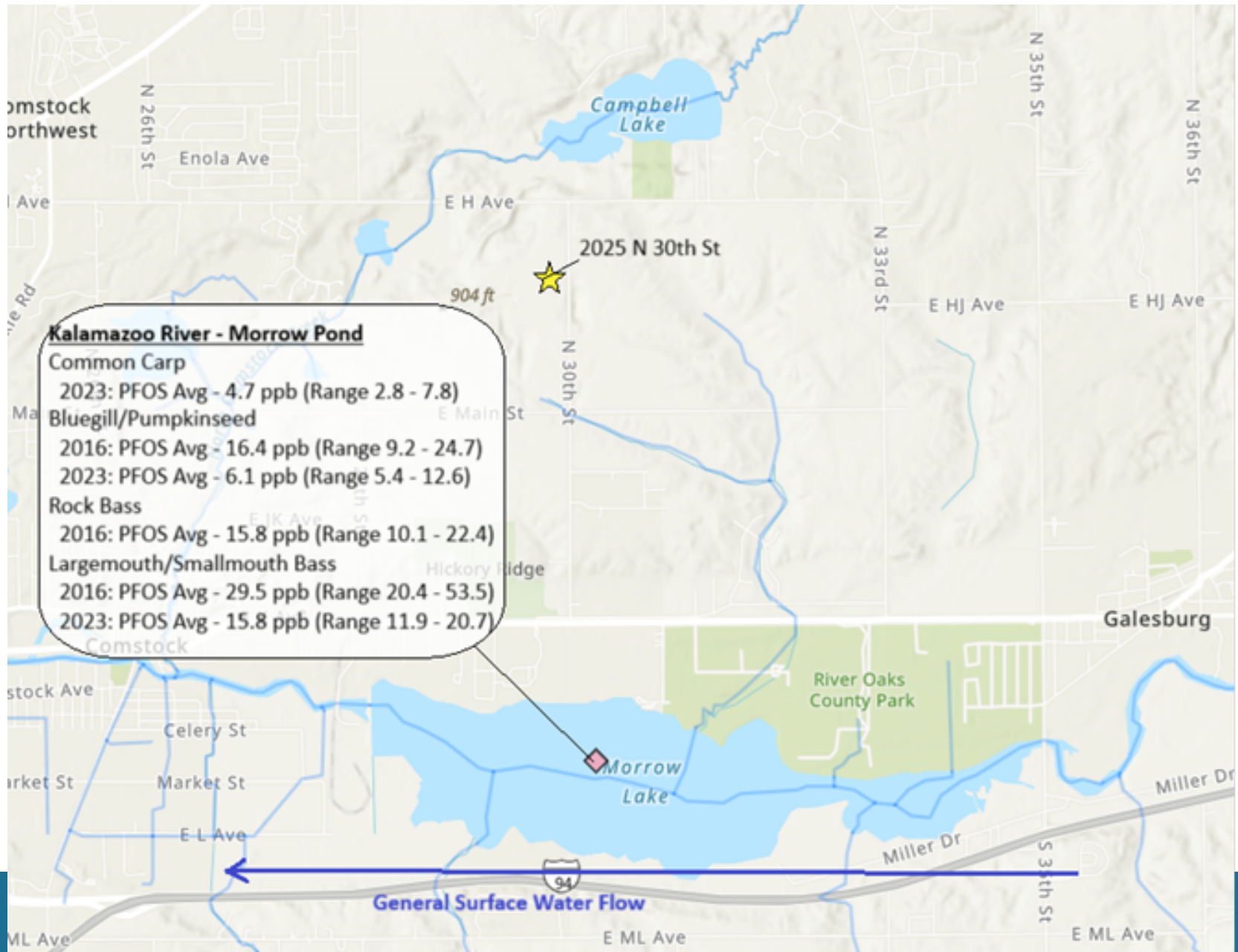
What to Look for When Selecting a Filter



<http://bit.ly/PFASHomeFilter>

- Make sure the filter has a NSF/ANSI Standard 53 for PFOA and PFOS reduction.
- Follow all manufacturing instructions to make sure it is reducing the PFAS as expected.

Fish Collection Data



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Eating Fish from Michigan's Lakes & Rivers

Michigan.gov/eatsafefish



Kalamazoo River

(downstream of Morrow Dam to Allegan Dam in Allegan Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	PCBs	Any	Do Not Eat▲
Bluegill	PCBs, PFOS	Any	Do Not Eat▲
Carp	PCBs	Any	Do Not Eat▲
Catfish	PCBs	Any	Do Not Eat▲
Largemouth Bass	PCBs, PFOS	Any	Do Not Eat▲
Northern Pike	PCBs	Any	Do Not Eat▲
Rock Bass	PCBs	Any	Do Not Eat▲
Smallmouth Bass	PCBs, PFOS	Any	Do Not Eat▲
Suckers	PCBs	Any	Do Not Eat▲
Sunfish	PCBs, PFOS	Any	Do Not Eat▲
Walleye	PCBs	Any	Do Not Eat▲
White Crappie	PCBs	Any	Do Not Eat▲
All Other Species	PCBs	Any	Do Not Eat▲

Kalamazoo River

(upstream of Morrow Dam to Marshall Dam in Calhoun Co., includes Morrow Lake)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	1
Carp	Dioxins	Any	6 Per Year ^{2x}
Catfish	Dioxins, PCBs	Any	6 Per Year ^{2x}
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year
Sunfish	PFOS	Any	1

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Eating Fish from Michigan's Lakes & Rivers

Michigan.gov/eatsafefish



Morrow Lake

(same guidelines as the Kalamazoo River on page 68 - between Marshall Dam and Morrow Dam in Calhoun Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	1
Carp	Dioxins	Any	6 Per Year ^{2x}
Catfish	Dioxins, PCBs	Any	6 Per Year ^{2x}
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year
Sunfish	PFOS	Any	1

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North 30th St Site Investigation

Miranda Triolet, PFAS Site Lead

Michigan Department of Environment, Great Lakes, and Energy

517-290-2201

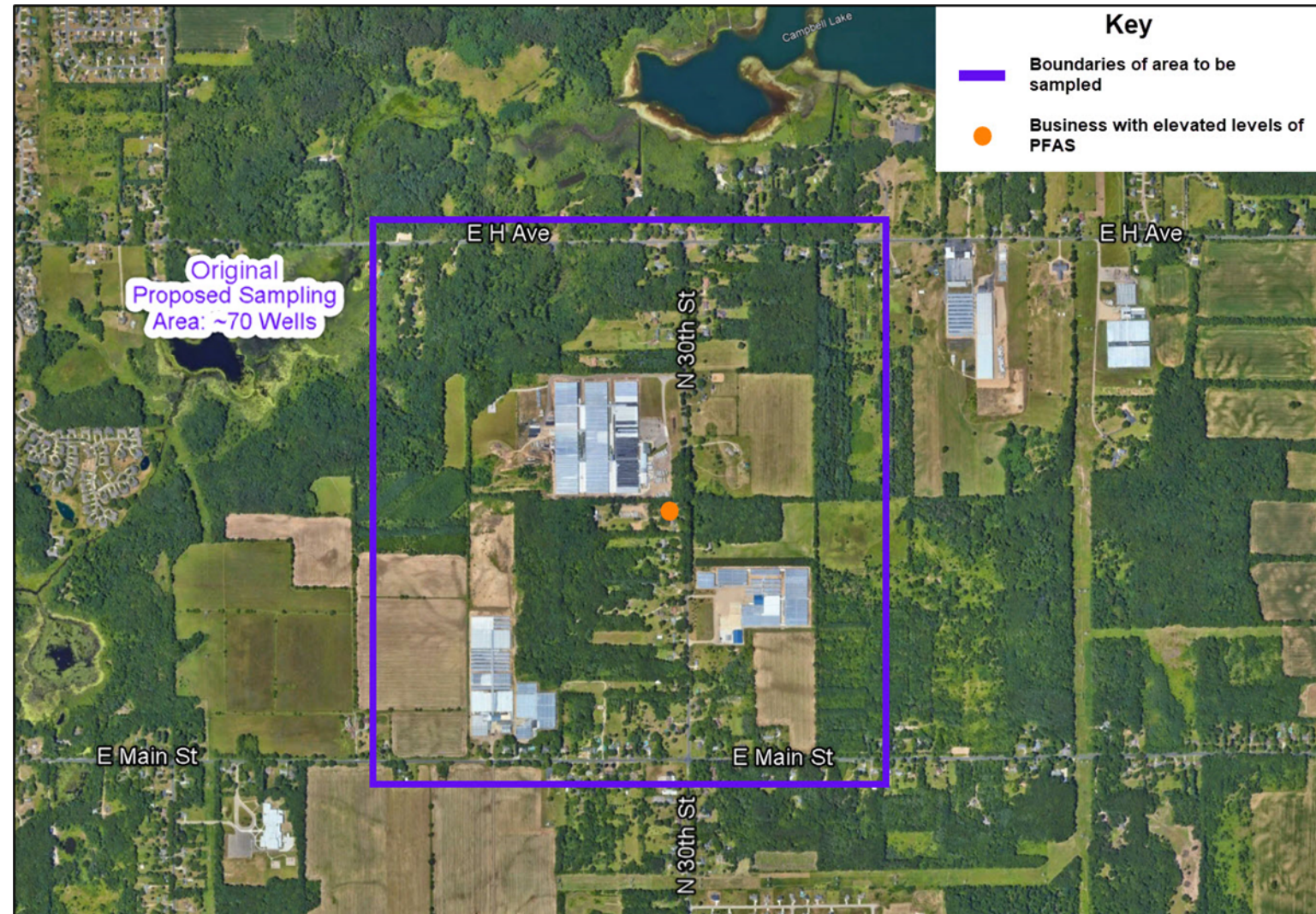
TrioletM@Michigan.gov

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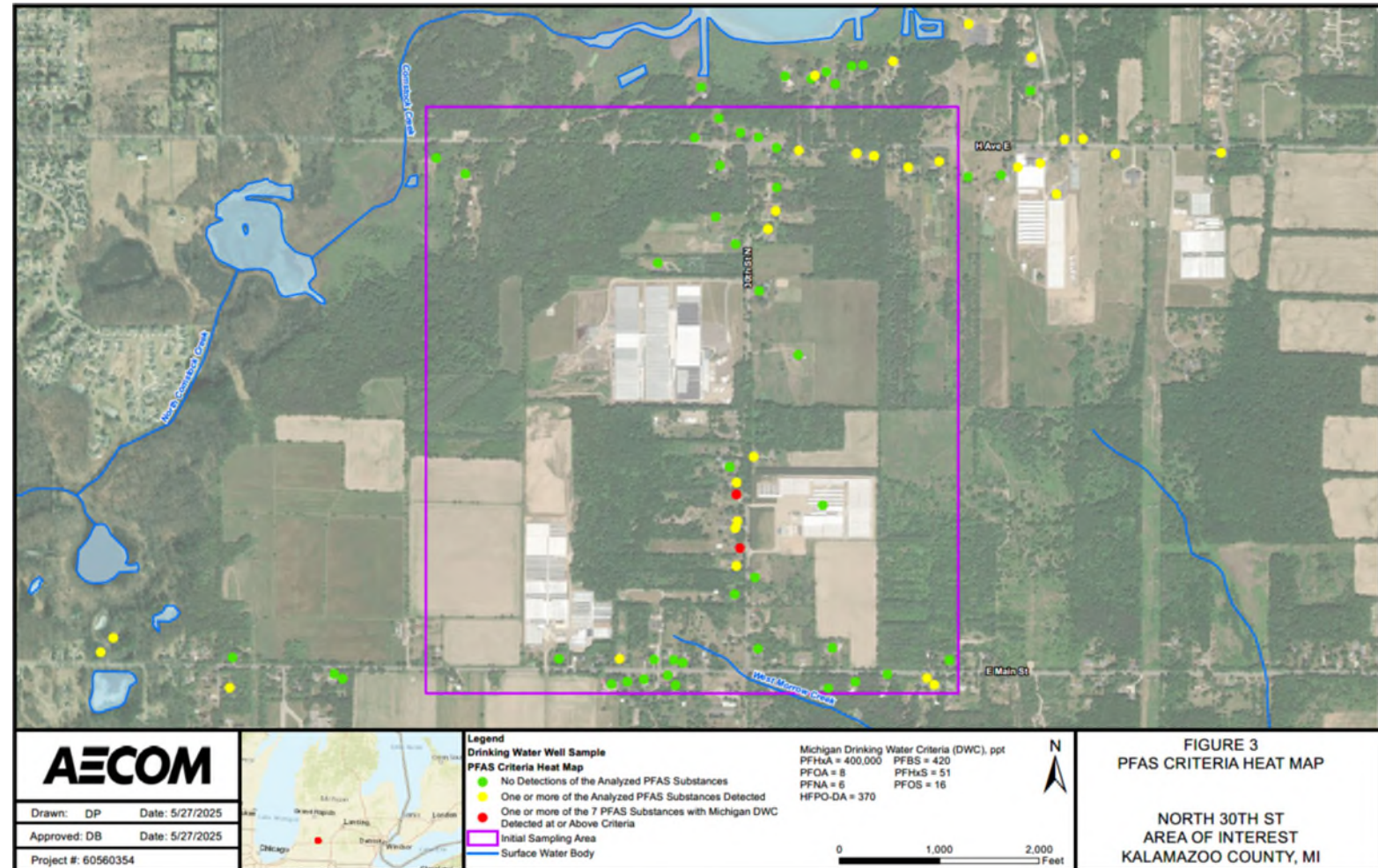
Background

- Greenhouse business near North 30th St and East H Ave showed elevated levels of PFOS during routine compliance monitoring
- Individual detections as high as 20 ppt PFOS
 - Compliance based on running annual average, has not exceeded Michigan drinking water criteria
 - Greenhouse providing bottled water to migrant homes and offices in greenhouse
- Groundwater flow direction expected to be towards Campbell Lake (north)



Results

- After first round of sampling, area was expanded to pick up additional homes
- Between the two rounds of sampling, 103 letters sent
- 77 samples collected
 - 46 non-detect
 - 29 detections below criteria
 - 2 detections above criteria



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Next Steps

- All homes with detections or exceedances were recommended filters
- No additional residential sampling is planned at this time
- MDARD will continue to work with the greenhouses in the area

North 30th St Investigation Public Water Supply

Ian Smith, Unit Manager, Emerging Contaminants Unit
Michigan Department of Environment, Great Lakes, and Energy
517-256-2474

smithi@michigan.gov

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Public Water Supply

- The North 30th Street Area of Interest (AOI) is not served by a municipal or regional community water supply (CWS). The City of Kalamazoo CWS serves the greater Kalamazoo area to the west and has ten production wells northwest of the AOI. The Morrow Crossing MHC is a small CWS south of the AOI that conducts routine compliance monitoring for PFAS.
 - The City of Kalamazoo CWS is currently on **annual** monitoring with past results showing non-detections for all tested PFAS.
 - Morrow Crossing MHC CWS is currently on **annual** monitoring with past results showing non-detections for all tested PFAS.
- There are is one noncommunity water supply systems within the AOI that conducts compliance monitoring for PFAS.
 - Wenke Greenhouse shows detections for PFOA (ranging from ND – 4.5 ppt) and PFOS (ranging from 10 – 20 ppt), from 2022 through 2025. The supply is currently on **quarterly** monitoring and has **not exceeded** the running annual average for PFAS compliance.

Kalamazoo County Point-of-Use Filters

N. 30th Street PFAS Site

Lucus Pols, REHS – Environmental Health Division



HEALTH & COMMUNITY SERVICES DEPARTMENT



Who Qualifies for a *Free* Point-of-Use Filter?



Any home with a water well with a detection of a PFAS compound



MDHHS will contact you once they receive results



Kalamazoo County Environmental Health follows up



Filter Location

- 311 East Alcott Street
- Kalamazoo County Environmental Health
- Basement Floor





Contact

Leah Erlandson
Groundwater Specialist
269-373-5336

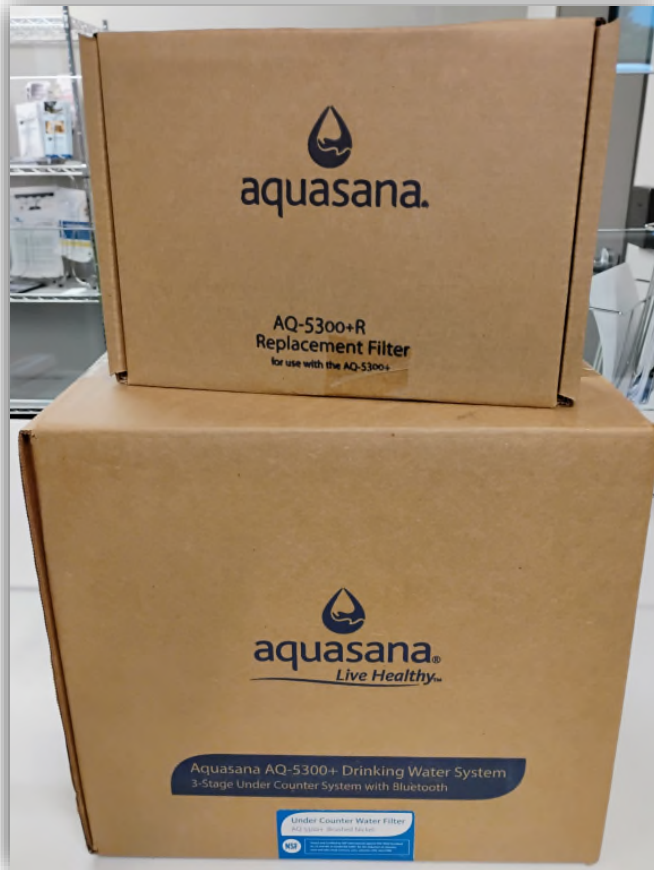
- Main Office 269-373-5210





What to Expect

- Bring your MDHHS or Kalamazoo County letter to confirm eligibility



Chrome or
Brushed Nickel



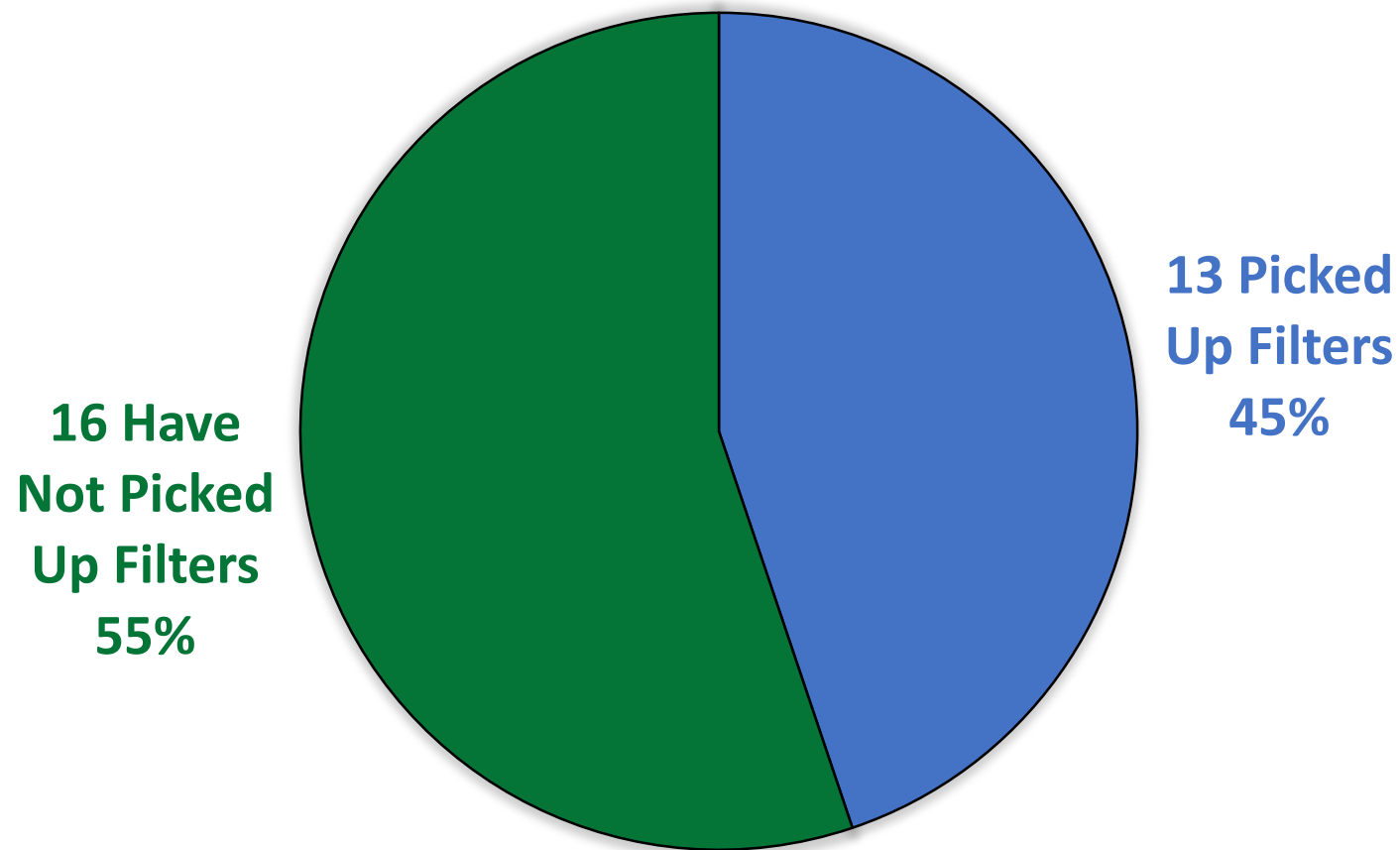
What is this Filter?

- Aquasana 5300+ and 5300+R
- Installed under your kitchen sink
- Use cold water only
- Certified to remove PFAS by:
 - *National Sanitation Foundation (NSF)*
 - *American National Standard Institute (ANSI)*
- Each set of cartridges rated for 800 gallons (about 6 months)
- New sets of cartridges available every 6 months
- Dispose of used cartridges in household trash





Currently, 29 Addresses Eligible





Contact

Leah Erlandson
Groundwater Specialist
269-373-5336

- Main Office 269-373-5210



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www.Michigan.gov/PfasResponse



MICHIGAN DEPARTMENT OF
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Questions

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