

# MPART PFAS Community Scio Township Board Meeting

April 29, 2025

**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

# MPART PFAS Community Scio Township Board Meeting

Abigail Hendershott, MPART Executive Director  
Michigan PFAS Action Response Team  
(616) 888-0528

[HendershottA@Michigan.gov](mailto:HendershottA@Michigan.gov)

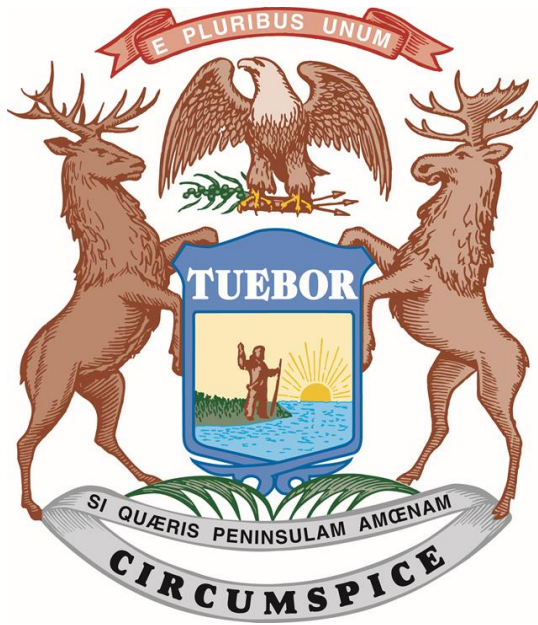
**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

# Agenda

- Introductions – Abigail Hendershott, MPART Executive Director
- Agenda:
  - MPART Overview – Abby
  - Health – Trisha Dubie, Michigan Department of Health and Human Services
  - Investigation Area –
    - Dan Wilde, Michigan Department of Environment, Great Lakes, and Energy
    - Joseph Rogers, Michigan Department of Environment, Great Lakes, and Energy
    - Stephanie Kammer, Michigan Department of Environment, Great Lakes, and Energy
  - MPART Website – Abby
- Q&A

# Michigan PFAS Action Response Team (MPART)

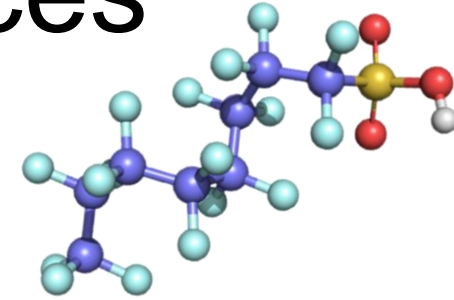


- Executive Order 2019-03
- Unique Multi-Agency Approach
- Leads Coordination and Cooperation Among All Levels of Government
- Directs Implementation of State's Action Strategy

**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

# Per- and Polyfluoroalkyl Substances (PFAS)



## What are they?

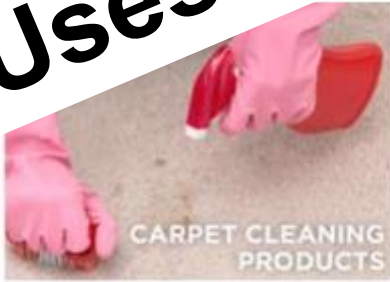
- Strong Carbon-Fluorine Bonds
- Surfactants
- Highly Stable
- Repel Water, Oil, Fat, and Grease
- Began Developing in 1940s
- Thousands of Compounds Today

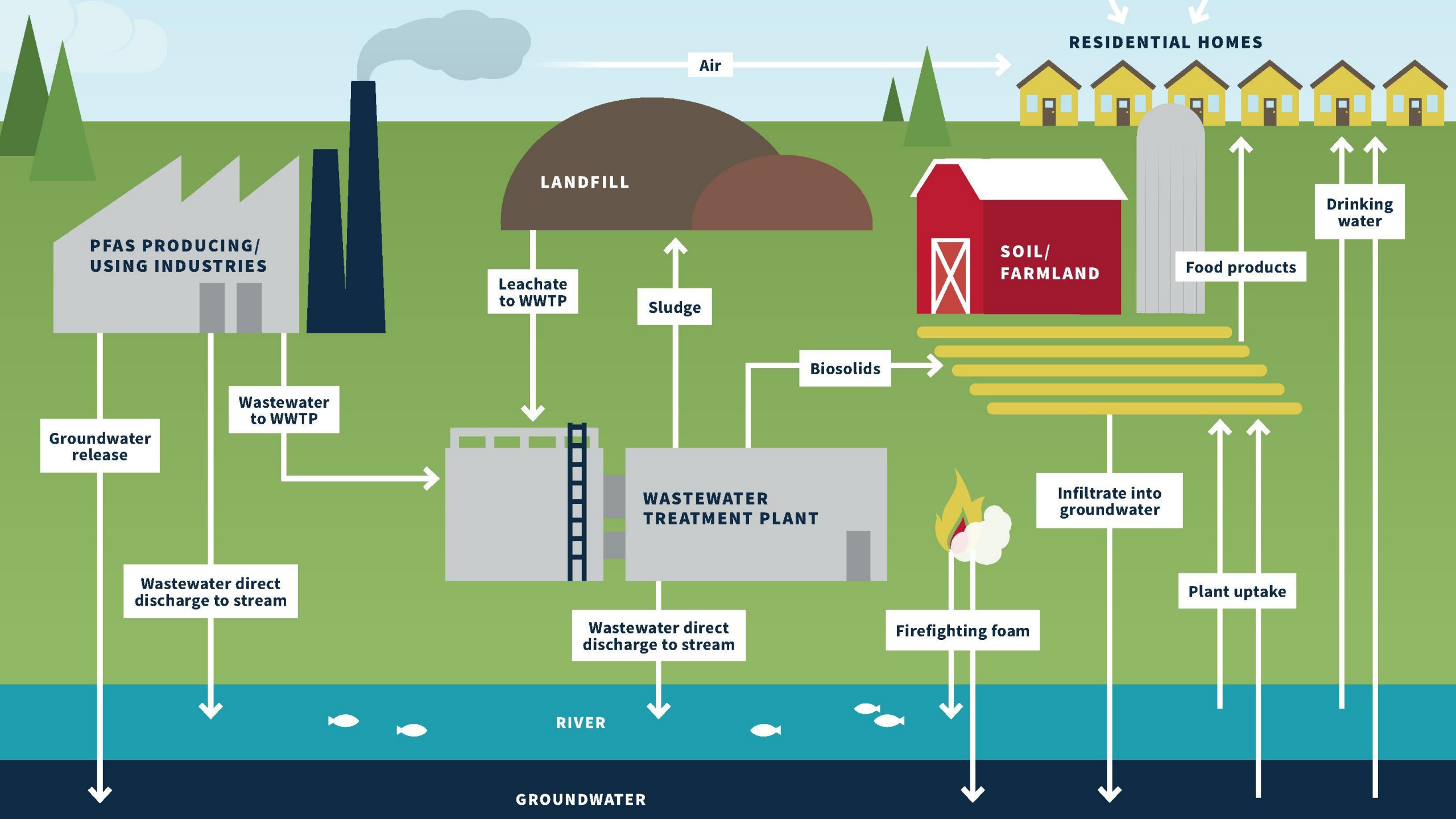
## Why the concern?

- 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



**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM



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

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

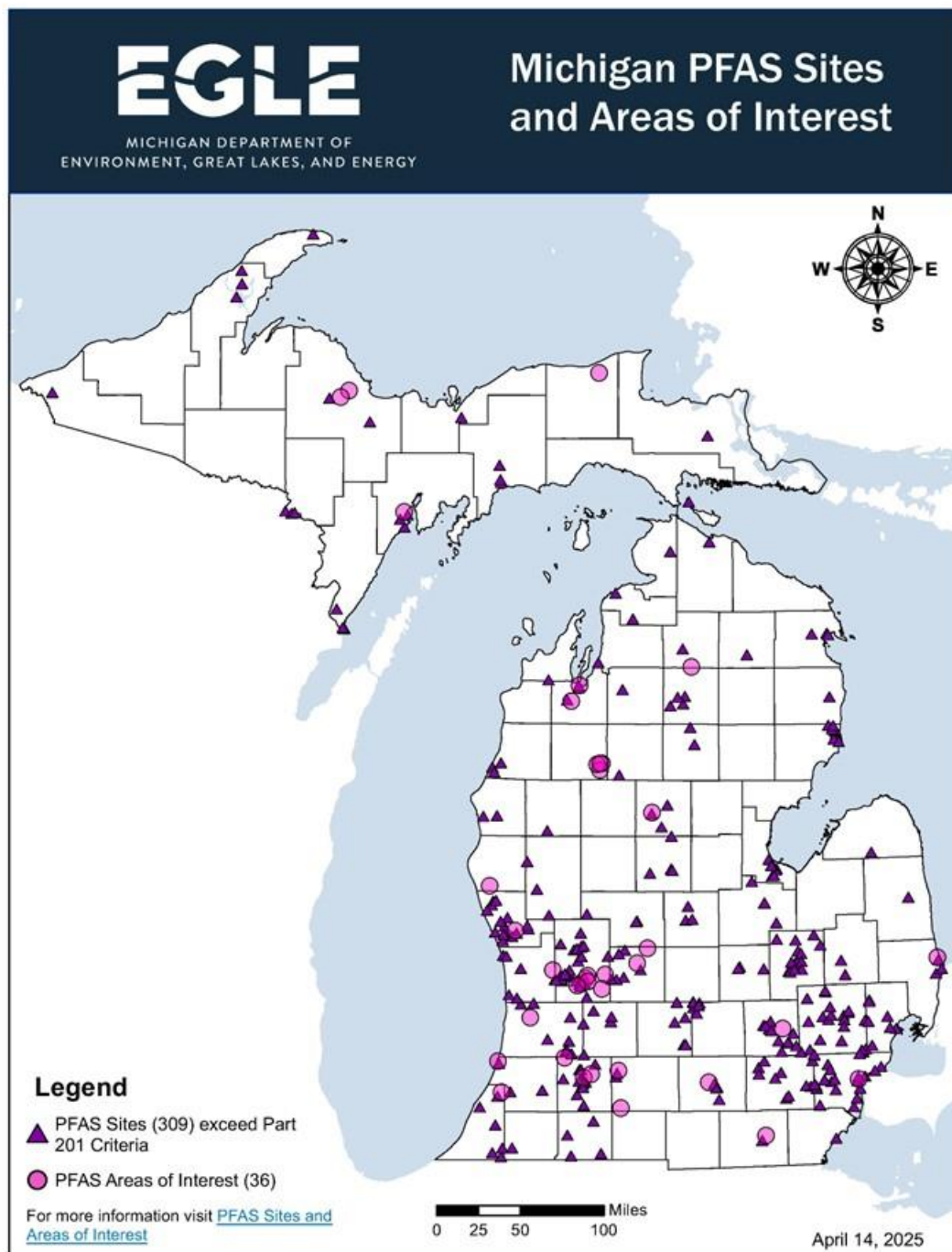


# Lakes and Streams Investigations

- Collecting water and fish samples

**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM



# Sites Being Investigated

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

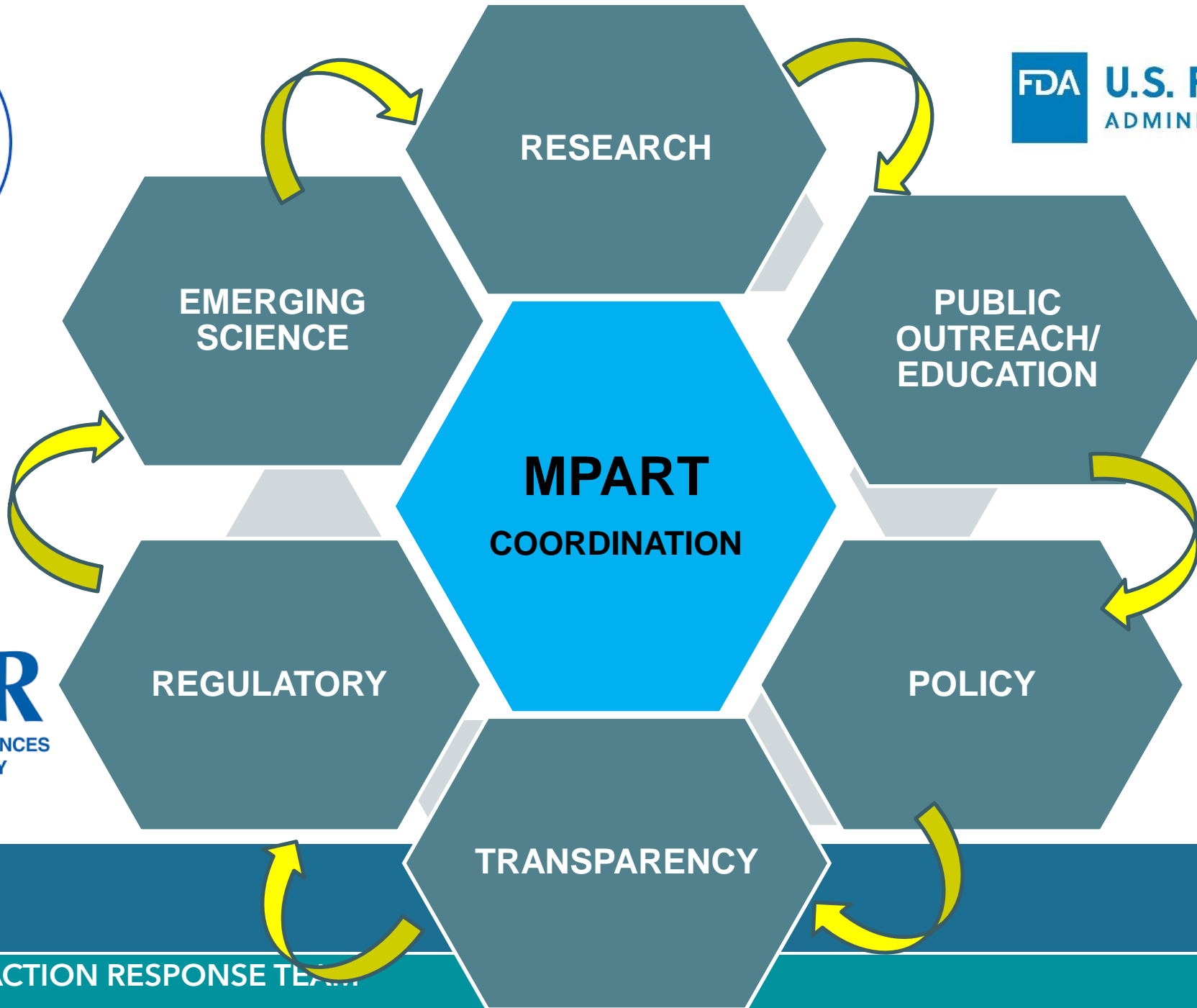
QR Code for:  
MPART Sites and Investigation





# MPART

MICHIGAN PFAS ACTION RESPONSE TEAM





# Michigan PFAS Action Response Team (MPART)



## What's new

- 3/14 - New site in [Washtenaw County: 253 Dino Drive](#)
- 3/3 - New site in [Allegan County: Former Plainwell Mill Operable Unit 7 \(OU7\)](#)
- 3/3 - New site in [Kalamazoo County: Roto-Finish Co., Inc.](#)
- 1/15 - New site in [Wayne County: Nankin Township Landfill](#)



## MPART FY24 Fast Facts

Find a recap of MPART's activities throughout

MP



- 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**

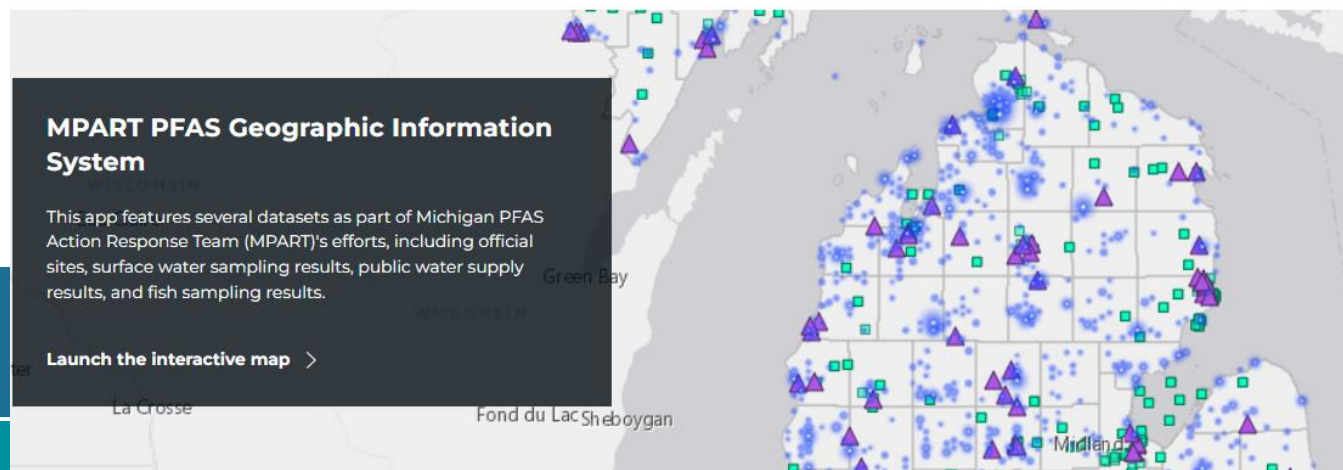
# MPART

**MICHIGAN PFAS ACTION RESPONSE TEAM**

## 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 >**



# First Steps for Avoiding PFAS

- The easiest way to address the risk of repeated exposure to PFAS in your drinking water is by **testing your private drinking water well**
  - Contact a [Certified PFAS Laboratory](#) to order a test kit
  - Video - [Homeowner's Guide: Collecting Samples for PFAS Water Analysis](#)
- Once you get your results, contact the MDHHS Drinking Water Hotline at 800-648-6942 to figure out what your results mean, and if you should start filtering your water



# Next Steps to Avoid PFAS

- After drinking water, the food you eat is the next most common risk of being exposed to PFAS
- EGLE partners with MDHHS to sample fish throughout Michigan water bodies for PFAS, heavy metals, mercury, and PCBs
  - The recommendations based on these samples can be found in the Eat Safe Fish Guide <https://www.michigan.gov/mdhhs/safety-injury-prev/environmental-health/topics/eatsafefish/guides>



	Website							
	<a href="#">PFAS Central</a>	<a href="#">EWG</a>	<a href="#">Mamavation</a>	<a href="#">EWG Skin Deep</a>	<a href="#">Clearya</a>	<a href="#">EGLE Field Guide</a>	<a href="#">Mass. OSD Guide</a>	<a href="#">EPA Safer Choice List</a>
Cosmetics and personal care products	✓	✓	✓	✓	✓	✓	✓	
Apparel and shoes	✓	✓	✓				✓	
Carpets and rugs	✓	✓					✓	
Furniture	✓	✓					✓	
Textiles and textile technologies	✓	✓					✓	
Water/ stain repellent	✓	✓						
Outdoor gear	✓	✓						
Baby/child products	✓		✓					
Food ware	✓	✓	✓				✓	
Home maintenance products	✓						✓	✓
Overall tips for avoiding PFAS in products							✓	✓

***Note that MPART cannot endorse products and cannot verify claims made by manufacturers claiming to distribute PFAS-free products. MPART has not evaluated or verified conclusions on the websites listed on this chart.***

## Info About PFAS-Free Products



# MPART

MICHIGAN PFAS ACTION RESPONSE TEAM



# Citizens Advisory Workgroup

[Michigan.gov/MPARTCAWG](https://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](#)



**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

QR Code for:  
MPART Citizen Advisory Workgroup





# PFAS and Health

Trisha Dubie, Toxicologist

Michigan Department of Health and Human Services

517-243-3743

[DubieT@Michigan.gov](mailto:DubieT@Michigan.gov)

**MPART**

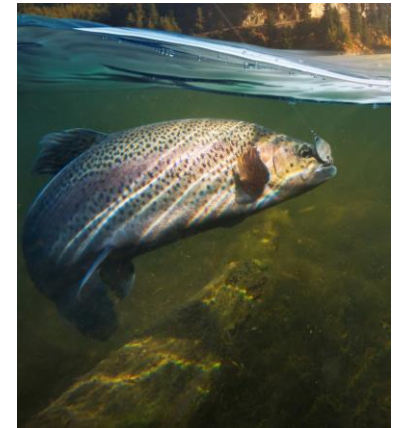
MICHIGAN PFAS ACTION RESPONSE TEAM

# The Role of MDHHS/ Local Health Department (LHD)

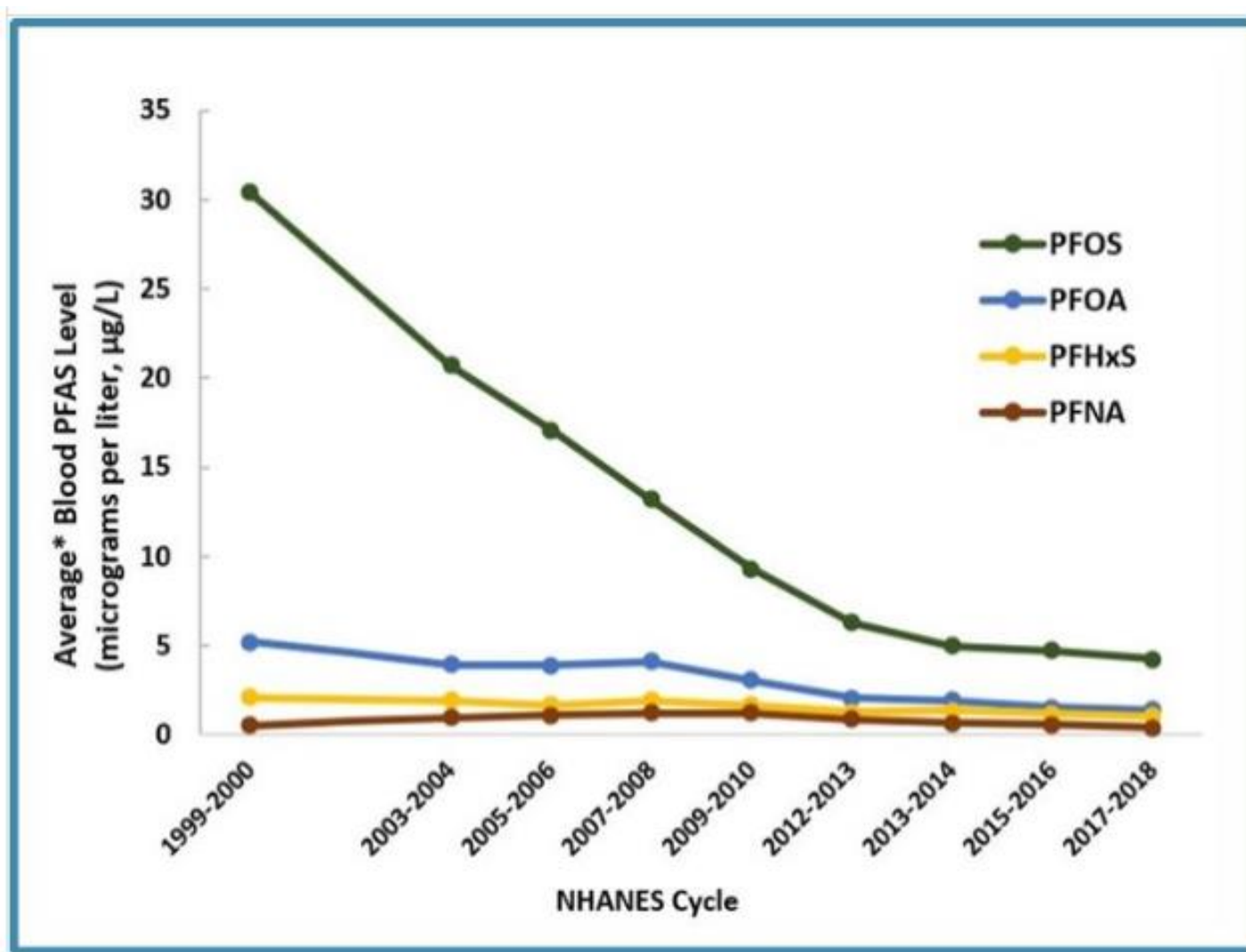
- Understand the health concerns facing your community
- Develop a plan to investigate and address health risks
  - EGLE leads the site investigation
  - MDHHS and the Local Health Department lead the public health planning and response
- Evaluate PFAS exposures to residents in the community
  - Recommend 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 <sup>A</sup>
PFOA	8 ppt <sup>B</sup>
PFNA	6 ppt <sup>B</sup>
PFHxS	51 ppt <sup>B</sup>
PFBS	420 ppt <sup>B</sup>
PFHxA	400,000 ppt <sup>B</sup>
GenX	370 ppt <sup>B</sup>

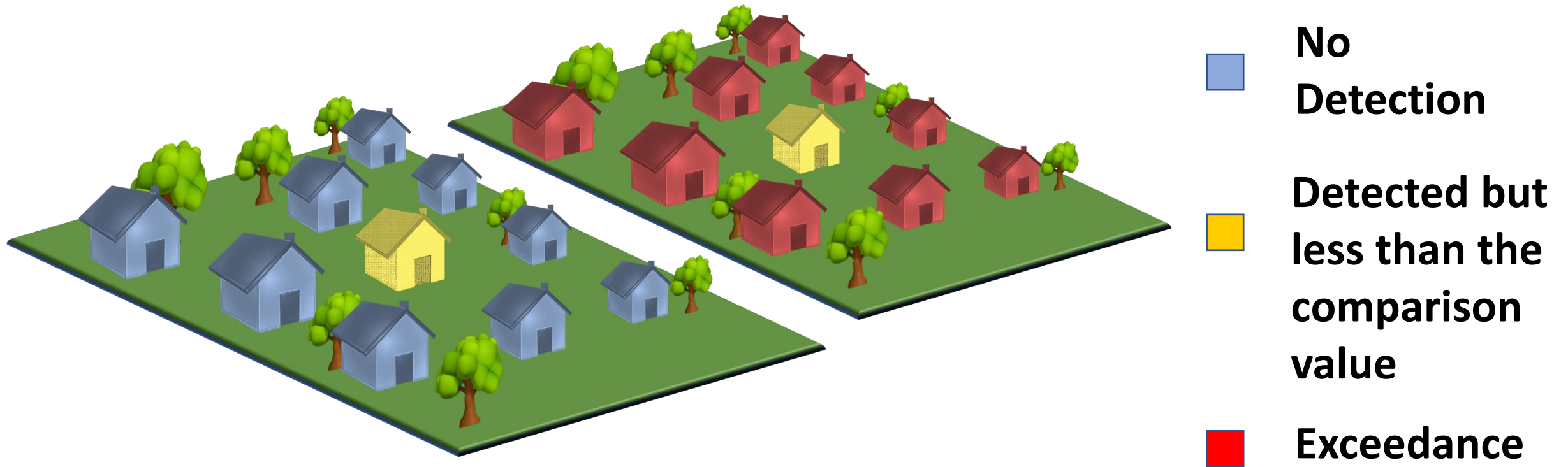
A. MDHHS Public Health Drinking Water Screening Level

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

## MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

# Residential Well Results (individually and collectively)



**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

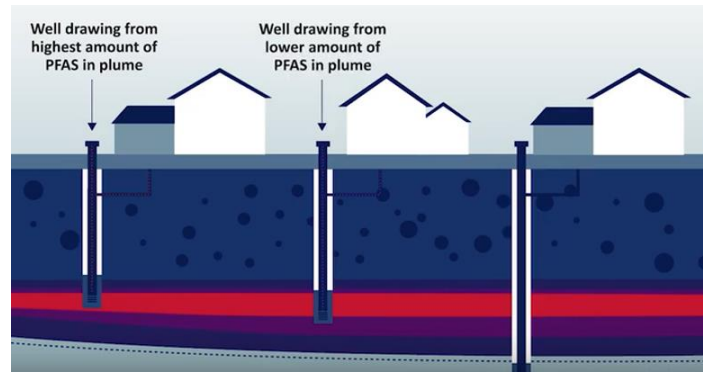


# Site-Specific Information

## Known Source



## Geology



## Plume



**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

# 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.

# 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

# Eating Fish from Michigan's Lakes & Rivers

*Michigan.gov/eatsafefish*



## Huron River (1)

(downstream of N Wixom Rd to where the river crosses I-275 in Wayne County, includes Base Line Lake, Portage Lake, Barton Pond, Geddes Pond, Argo Pond, and Ford Lake)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat▲



# 253 Dino Drive PFAS Site Investigation

Dan Wilde, PFAS Site Lead

Michigan Department of Environment, Great Lakes, and Energy

[wilded1@michigan.gov](mailto:wilded1@michigan.gov)

517-285-6999

**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

# Background

253 Dino Drive, Ann  
Arbor, MI 48103



# MPART

MICHIGAN PFAS ACTION RESPONSE TEAM



# Background

Single Story, 11,344ft<sup>2</sup> Building  
Built in 1987

1987-1993: Occupied by DBA  
Micro technologies (MTI) for  
textile filter, medical equipment,  
and breathable waterproof fabric  
production

MTI was Gelman subsidiary



# MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

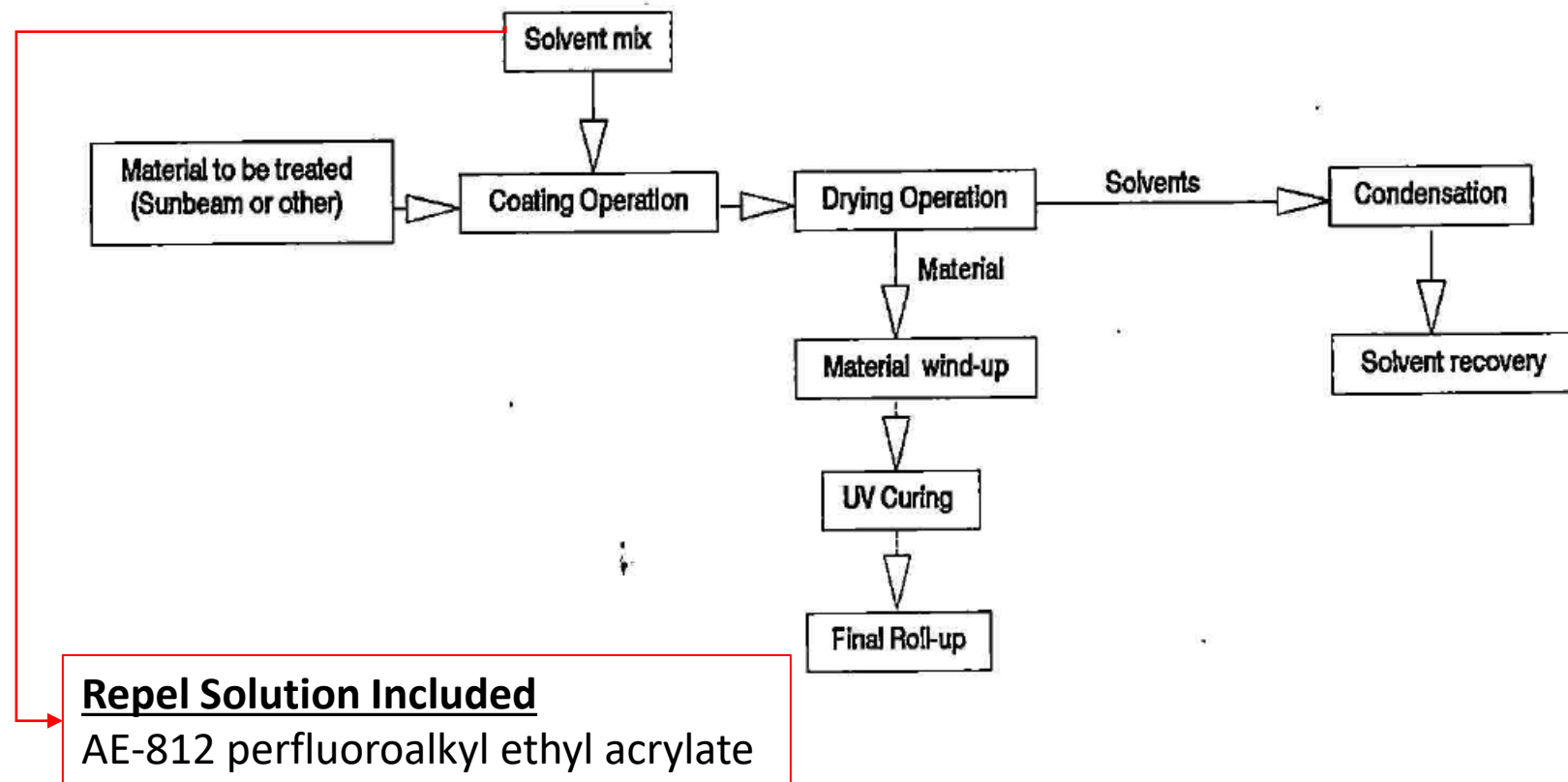
# Background: Geology/Hydrogeology

- Closest surface water – Numerous ponds and Scio Preserve wetlands within 1,000 ft. Tributary of Honey Creek, 2,330 ft southeast.
- Geology based on well logs – 0-24' sandy clay  
24-55' clay  
55-67' sand
- Shallow Hydrogeology – groundwater first encountered at 12 ft below ground surface and flow inferred as south-southeast
- Deep Hydrogeology – static water level within potable well onsite 25 ft below ground surface. Screened interval 59-67 ft.

# Background: Contaminant Source

- Breathable waterproof fabric production (1987-1993)
  - Waste management: recovery, reuse, and disposal
- 1993/1994 investigations documented sealed trench drains and a sump with solvent odor

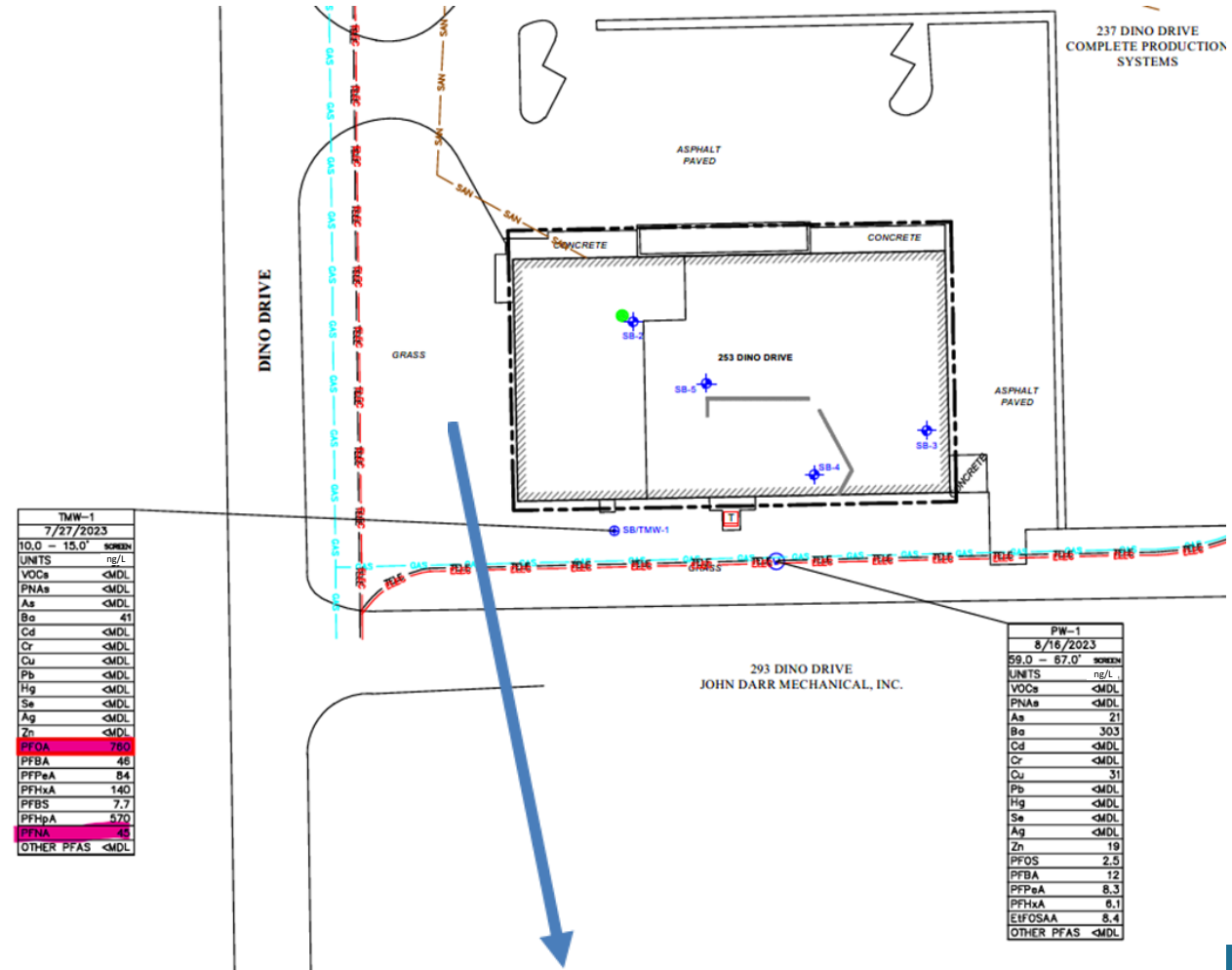
Repel Process Flow Diagram, MicroTechnologies Inc.





# Background: BEA Groundwater Results

- Temporary Well
  - PFOA at 760 ppt (criteria 8 ppt)
  - PFNA at 45 ppt (criteria 6 ppt)
- Potable Well
  - PFAS detections didn't exceed criteria



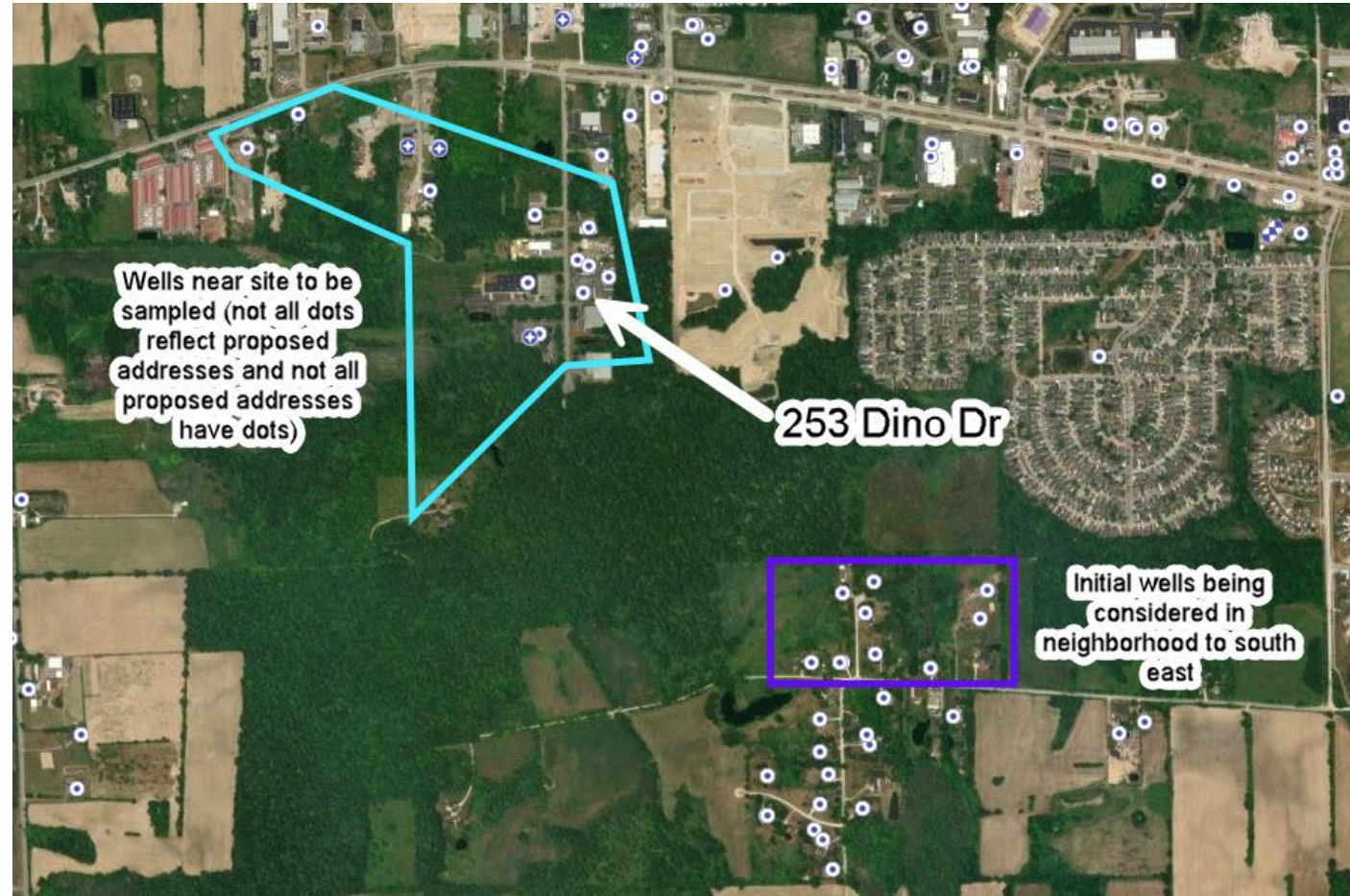
Assumed  
Groundwater  
Flow

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

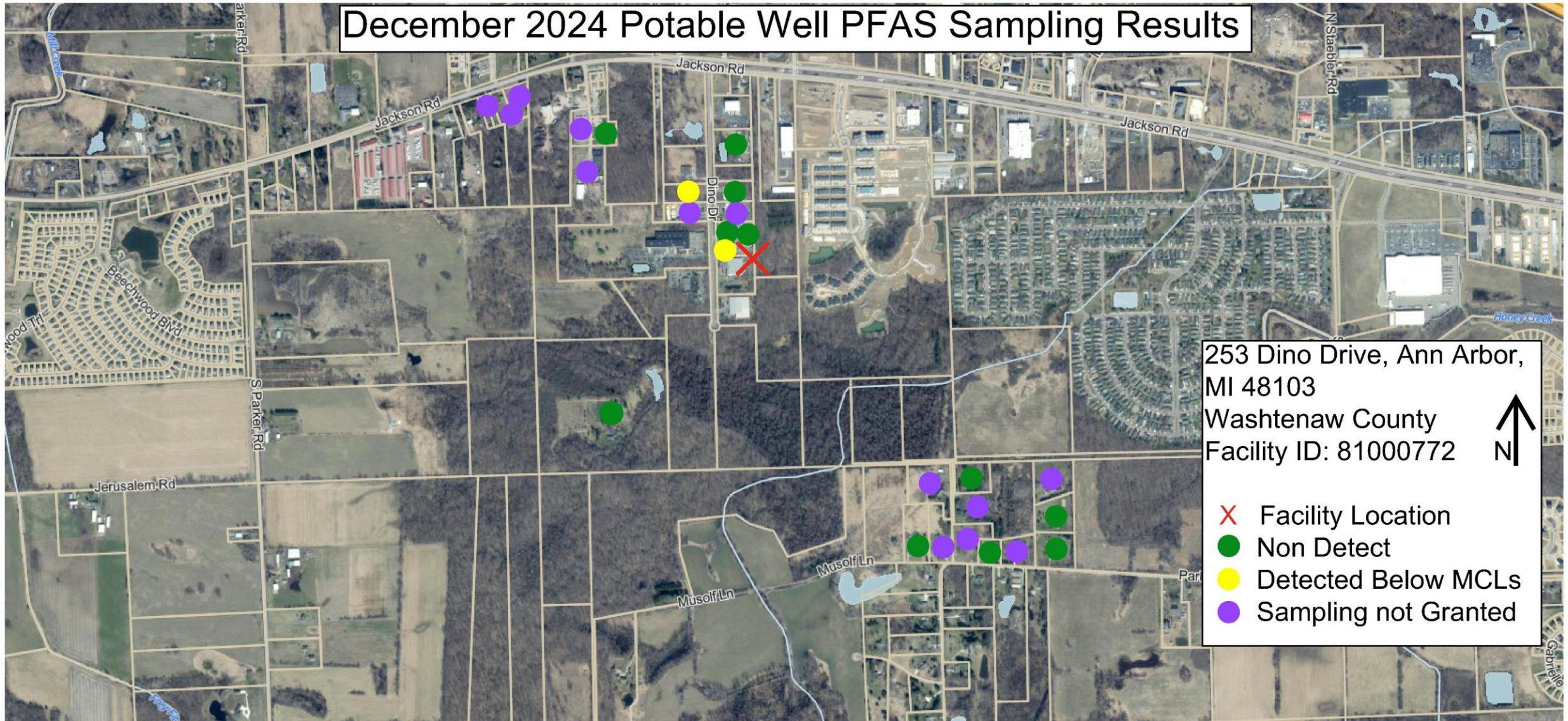
# Well Sampling

- EGLE, DHHS, and local health reviewed well logs
- November 2024 - 26 letters were mailed to nearby well owners
- 12 locations granted access and were sampled in December 2024
  - 11 drinking water samples were non-detect for PFAS
  - 1 well had detections below criteria
    - PFHxA at 2 ppt (criteria 400,000 ppt)





# December 2024 Potable Well PFAS Sampling Results



# MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

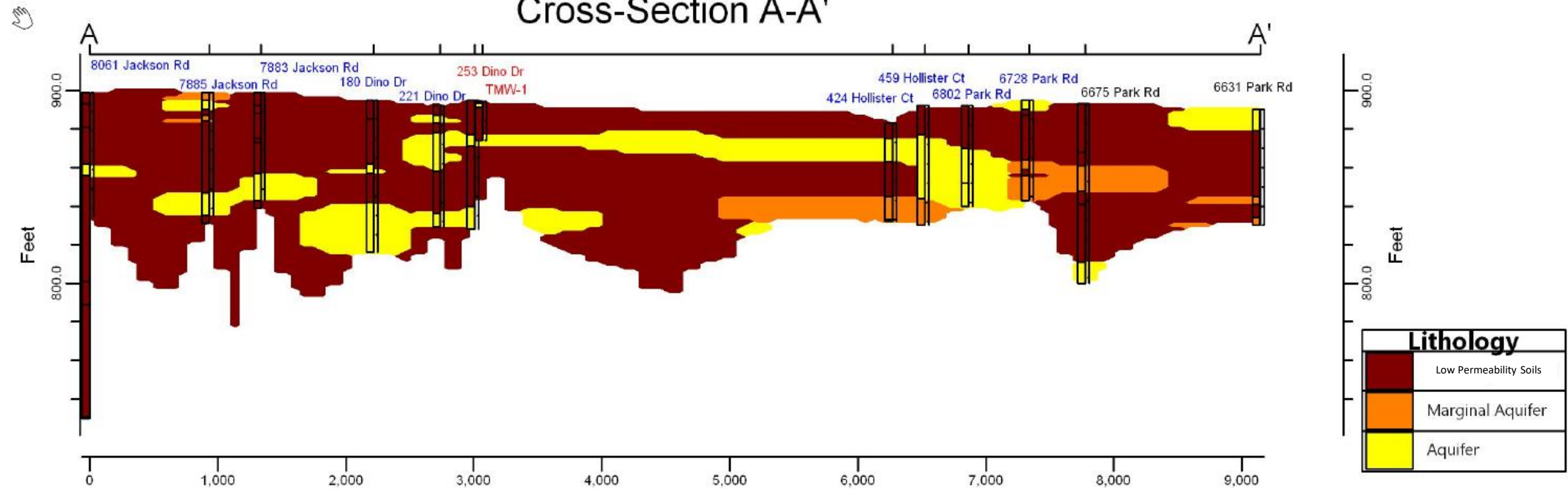




# MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

## Cross-Section A-A'



# MPART

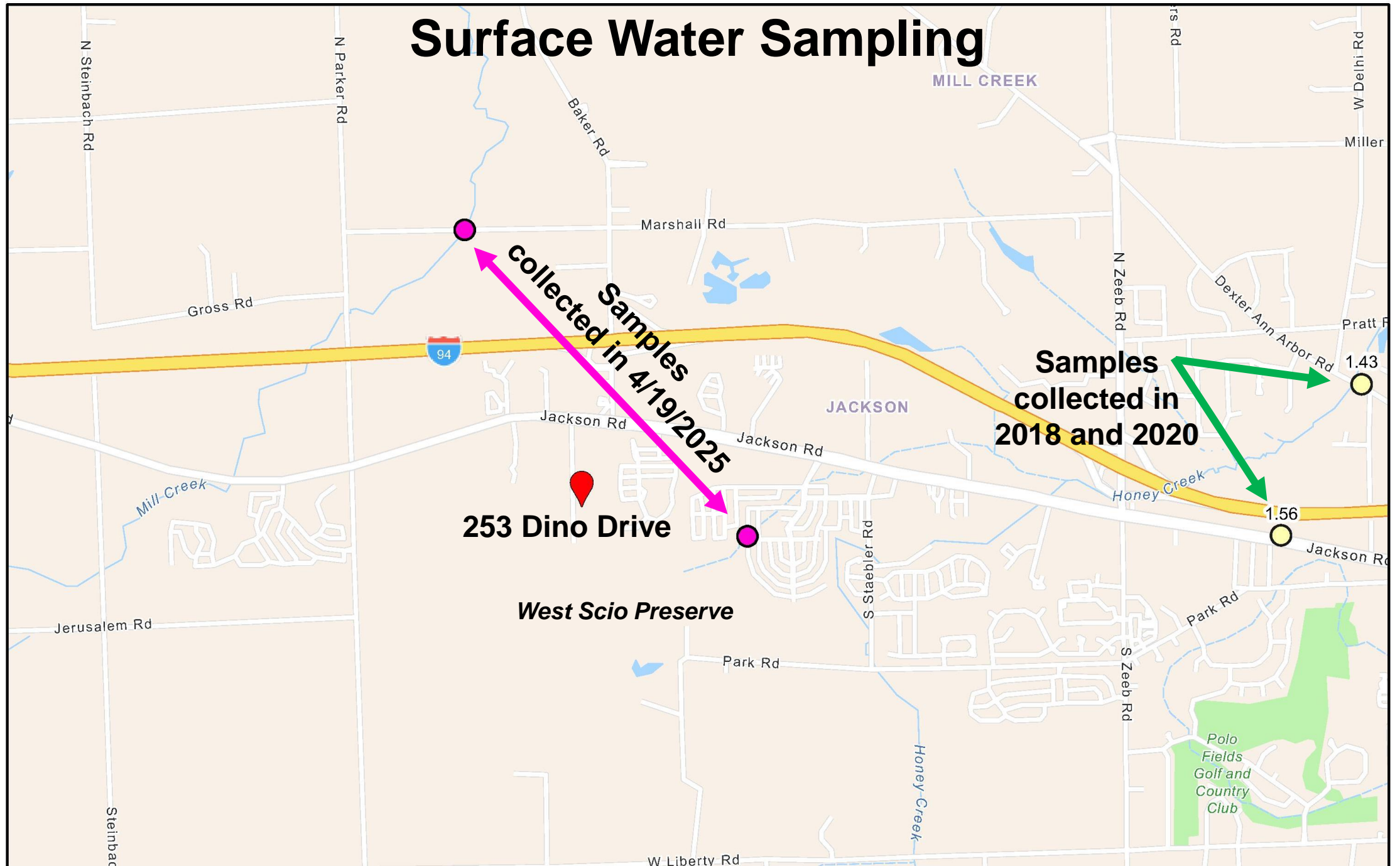
MICHIGAN PFAS ACTION RESPONSE TEAM



# Next Steps

- On 4/19 2025, EGLE staff took two samples near the West Scio Preserve per the request of Scio Township Parks Director. Results expected in the next ~3 weeks.

# Surface Water Sampling



# Public Water Supply

- The area is served by the Scio Township water system, which is a community water supply (CWS) that purchases water from the Ann Arbor CWS.
  - The Ann Arbor community water system is currently on a **quarterly** compliance monitoring frequency for PFAS.
  - Monitoring results have been found to be well below the corresponding maximum contaminant levels (MCLs) for PFHxA and small detections of PFHpA, with non-detections for all other tested PFAS.
- There is one noncommunity water supply north of the AOI that conducts compliance monitoring for PFAS.
  - Thetford LLC is currently on **annual** monitoring with past results showing non-detections for all tested PFAS.

# Chrysler Scio Update

Joseph Rogers, PFAS Site Lead

Michigan Department of Environment, Great Lakes, and Energy

[RogersJ5@michigan.gov](mailto:RogersJ5@michigan.gov)

517-599-5312

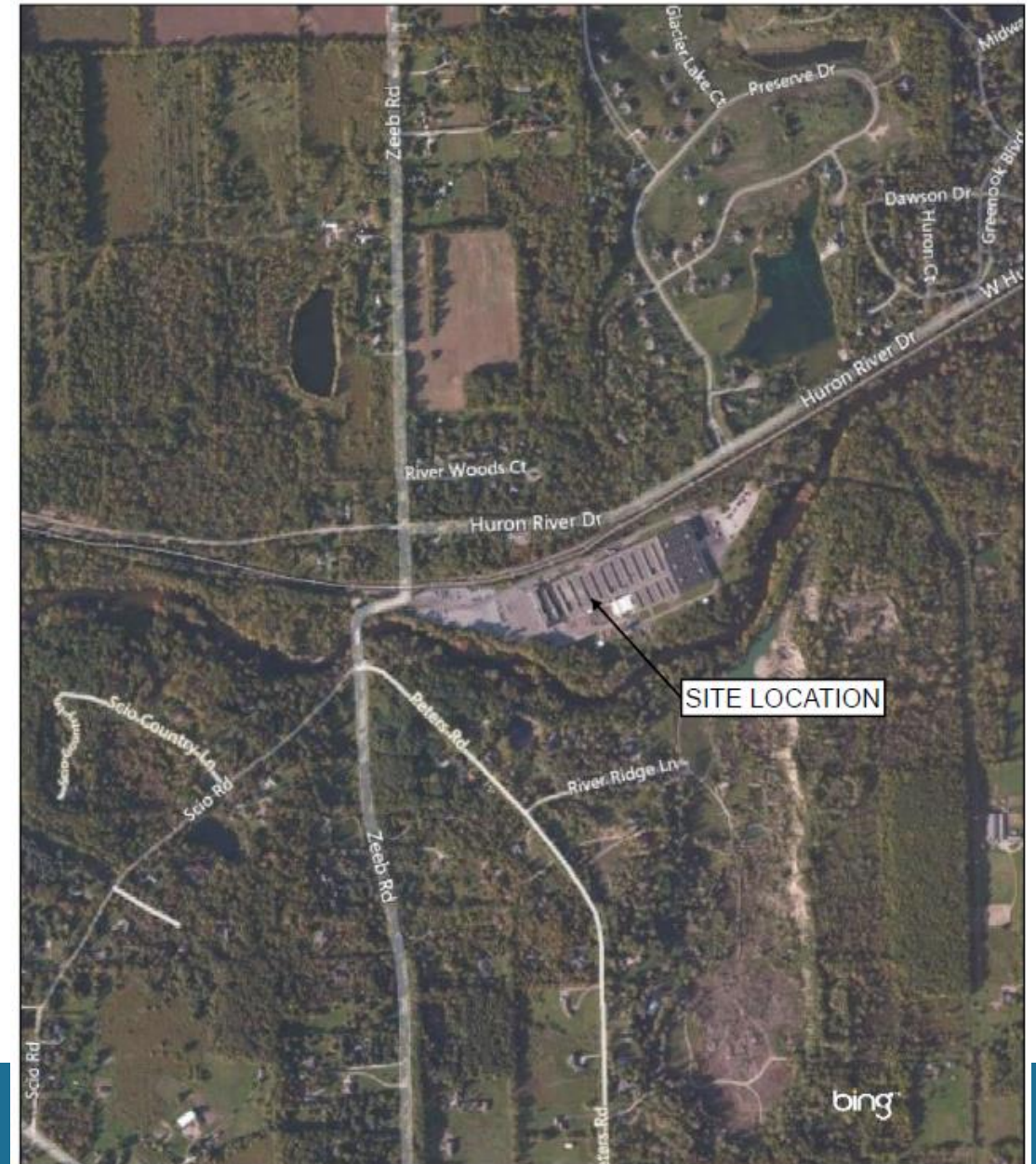
**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM



# Chrysler Scio

- Site is located in Scio Township near Ann Arbor
- 1948 – Developed in 1948 by King-Seely Corporation
- Facility operations included chrome plating
- 1982 – Chrysler ceased operations
- 1986 – Sold to Sweepster Jenkins Equipment Company, Inc., now Triair
- Plant used to manufacture power brooms
- Triair currently leases the Site to various tenants - Stanley Attachments and numerous local businesses for warehousing, much of the exterior is leased to a local car dealership for vehicle storage

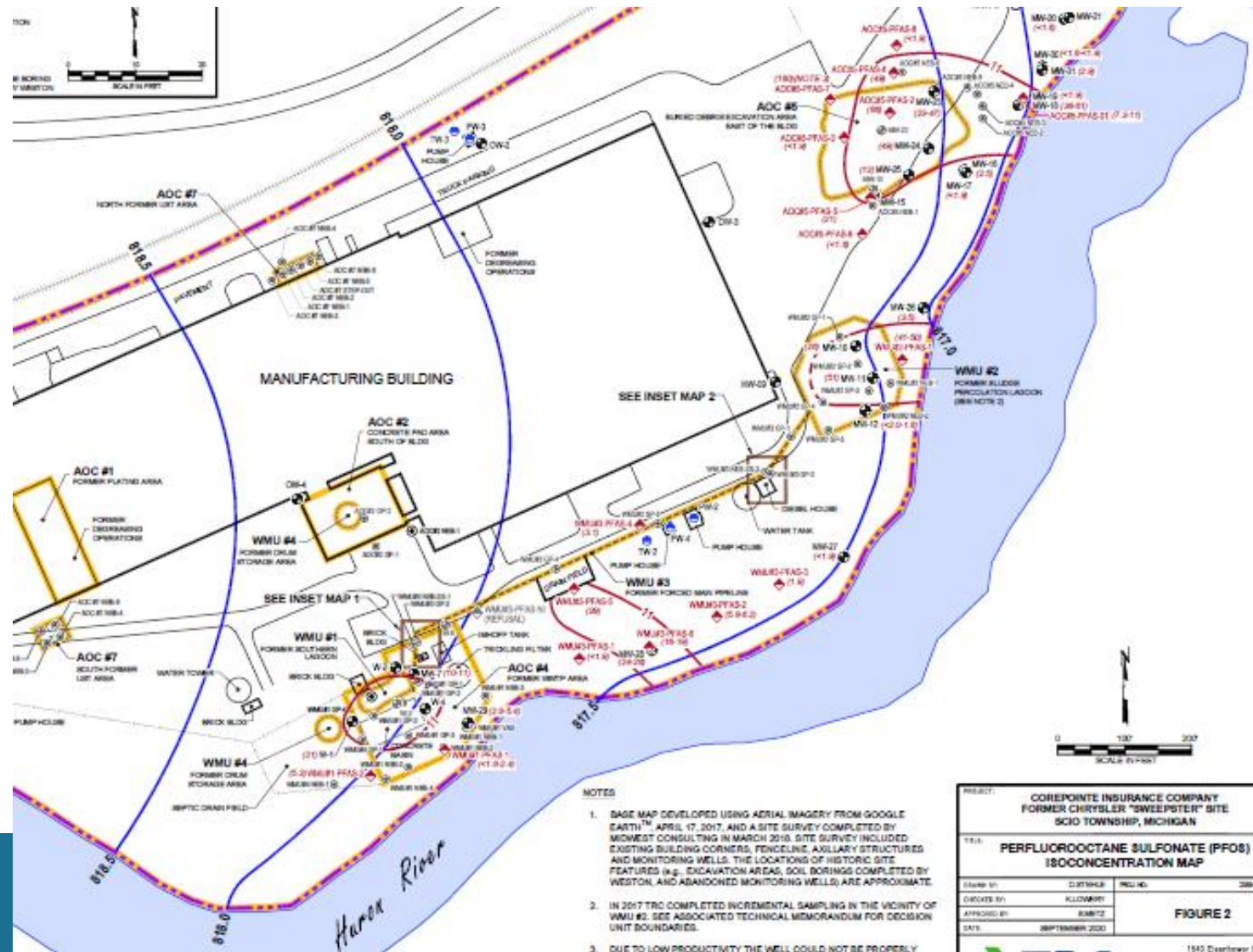




# Chrysler Scio – Environmental Site History

- Facility Regulated Under RCRA (Part 111 of Act 451)
- Chrysler retained environmental liability until bankruptcy in 2009
- EGLE Seized Post-Closure Financial Assurance from Chrysler Insurance Company and using that money to continue corrective measures under RCRA
- PFOS and PFOA detected in groundwater above drinking water and GSI criteria in 2018
- Further investigation (delineation) and corrective measures evaluation continued since

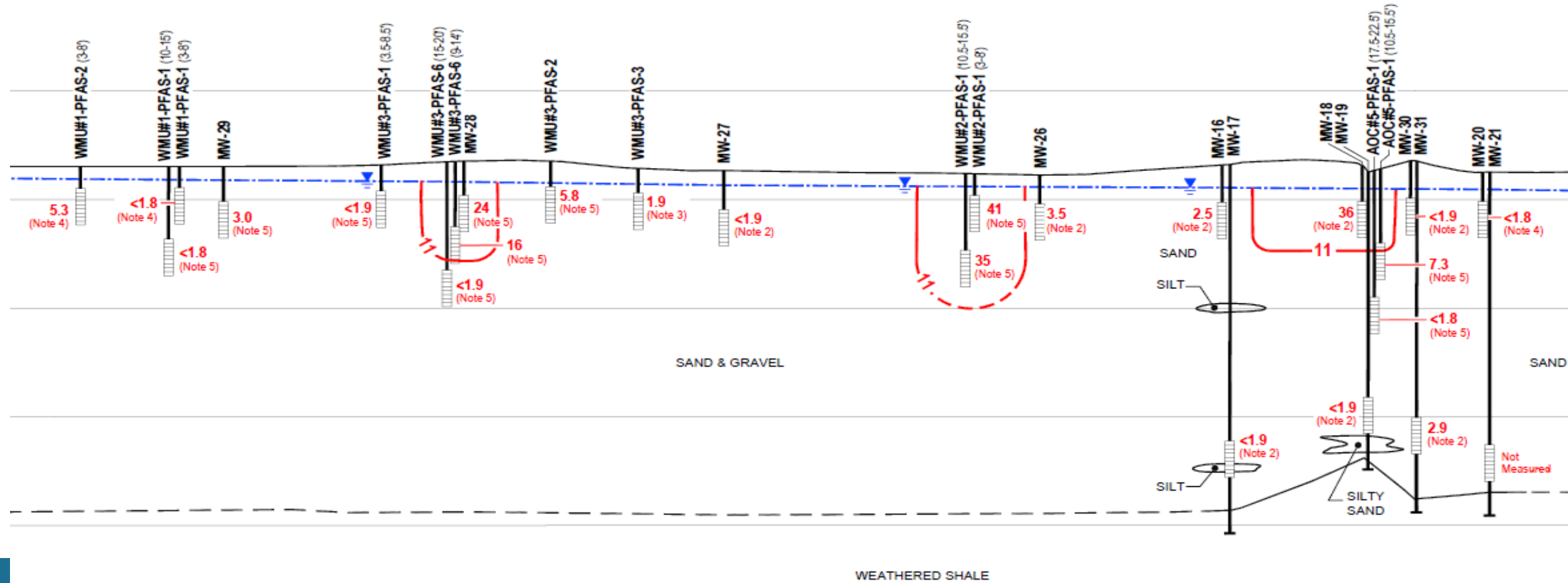
# Chrysler Scio Lateral PFAS Extent



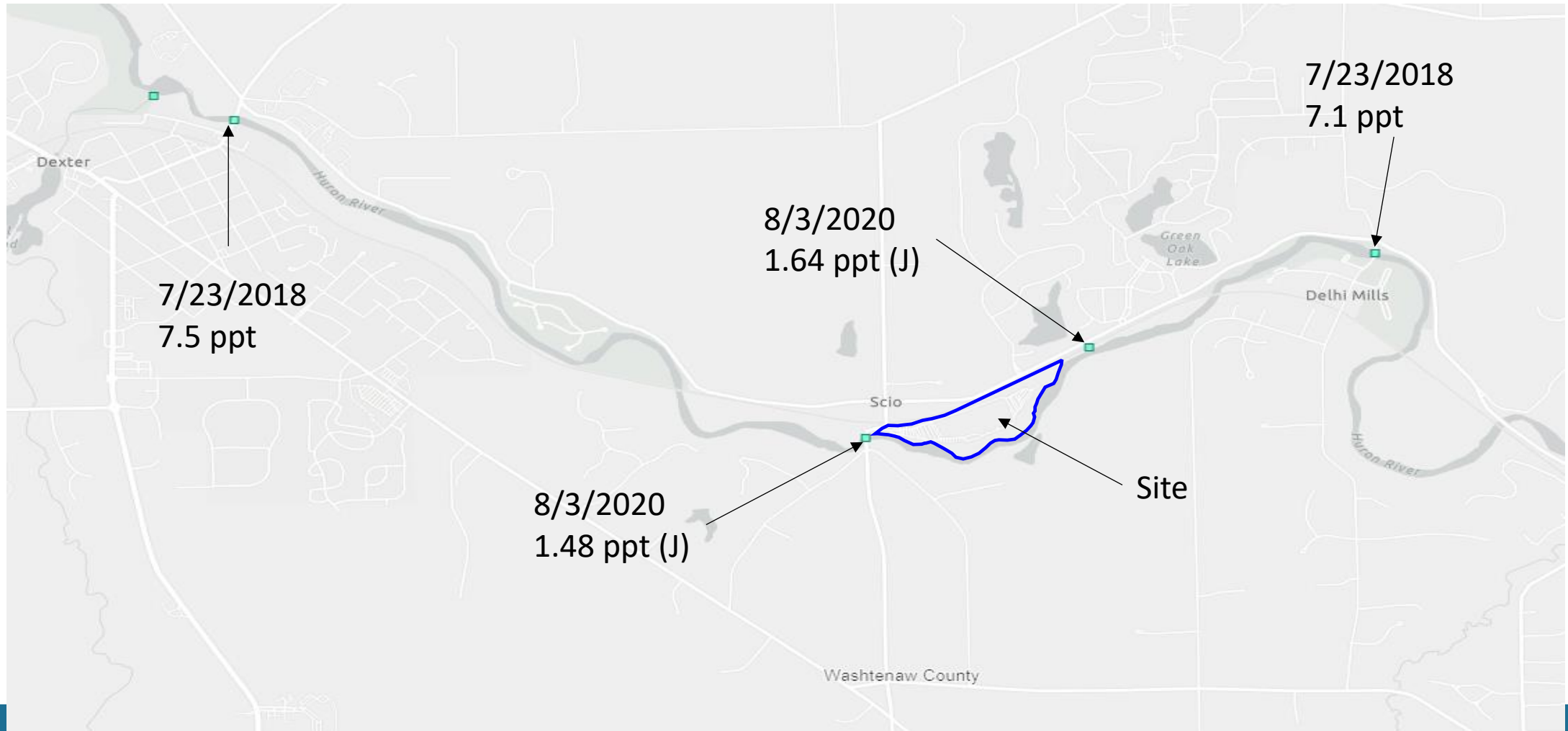
MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

# Chrysler Scio Vertical PFAS Extent



# Chrysler Scio – PFOS in Huron River



**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

# Chrysler Scio – Next Steps

- Working with owners to determine next steps
- Continue periodic monitoring



# Potential Sources Investigated

Stephanie Kammer, Emerging Pollutants Section Manager

Water Resources Division

Michigan Department of Environment, Great Lakes, and Energy

517-897-1597

[KammerS@Michigan.gov](mailto:KammerS@Michigan.gov)

**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM

# Potential Sources Investigated

## Tribar Plant 5

- Elevated PFOS in stormwater identified April 2024

## Lyon Development Landfill (closed landfill)

- Groundwater Results: PFOS + PFOA below criteria

## Former Chrysler Scio Introl Division

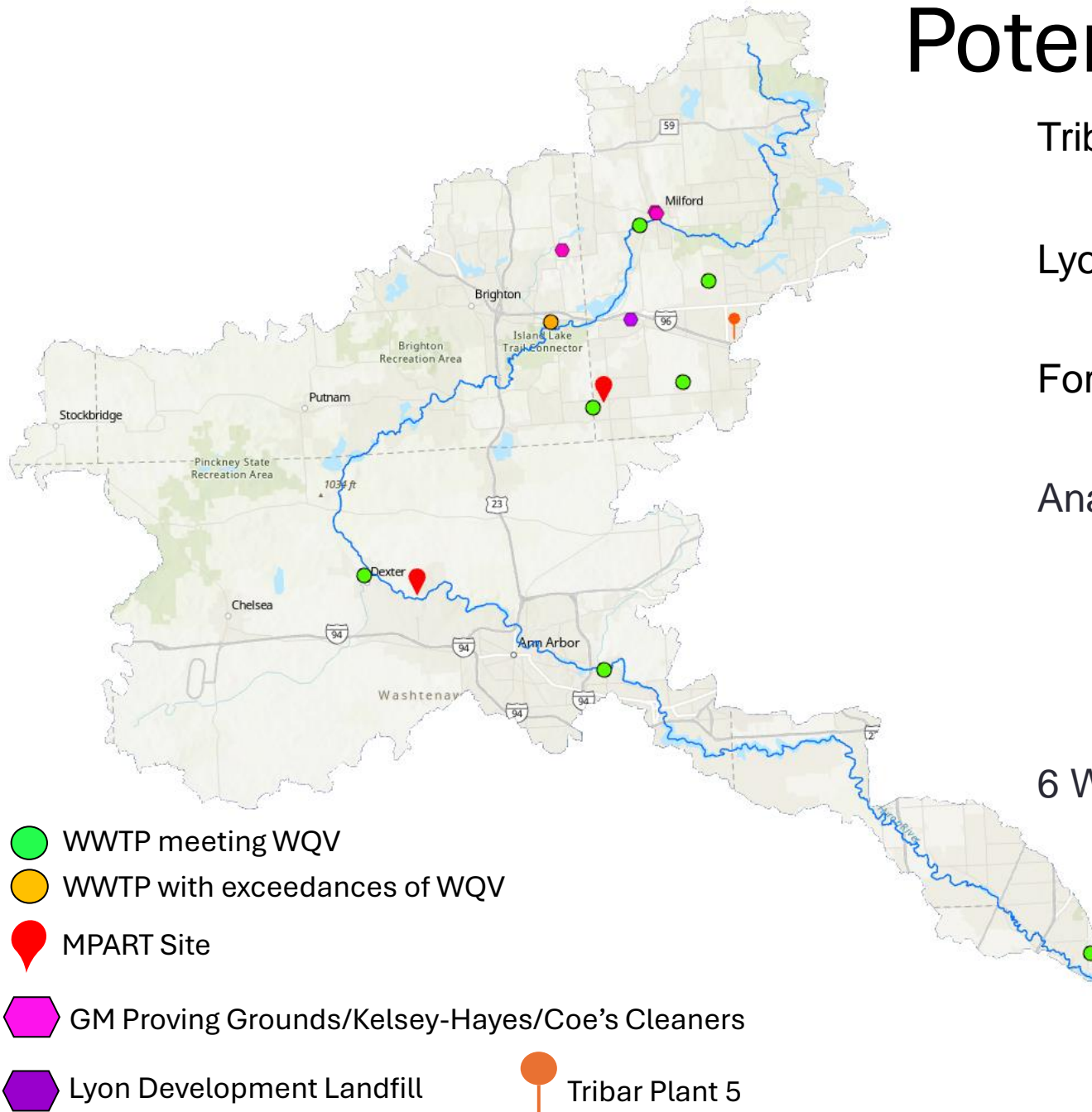
- [MPART Site](#)

## Analysis of 6 permitted discharges

- *All below Water Quality Values (WQVs):*  
Milford WWTP, South Lyon WWTP, [Michigan Seamless Tube](#), GM Proving Grounds, Kelsey-Hayes GWCU, Coe's Cleaners GWCU

## 6 WWTPs participated in IPP PFAS Initiative

- Brighton: investigation ongoing; permit requirements to address PFAS
- Wixom: in compliance with WQVs since 9/2022
- Below WQVs: Ann Arbor, Dexter, South Huron Valley UA; Lyon Township (Groundwater Discharger)



# MICHIGAN PFAS ACTION RESPONSE TEAM (MPART)

[www.Michigan.gov/PfasResponse](http://www.Michigan.gov/PfasResponse)



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY



## MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

# Questions

**MPART**

MICHIGAN PFAS ACTION RESPONSE TEAM