

THE CITY OF



**KALAMAZOO
COUNTY GOVERNMENT**
In pursuit of extraordinary governance

Ross Township Town Hall PFAS Contamination

Tuesday, October 3, 2023

Agenda

Introduction

34th Street Production Plated Plastics

Investigation Summary

Michigan Drinking Water Criteria
(PFAS)

Monitoring Well & Residential Well
Sampling Trends

Long Term Drinking Water
Recommendations

Proposed Alternative, Kalamazoo
Municipal Water Extensions

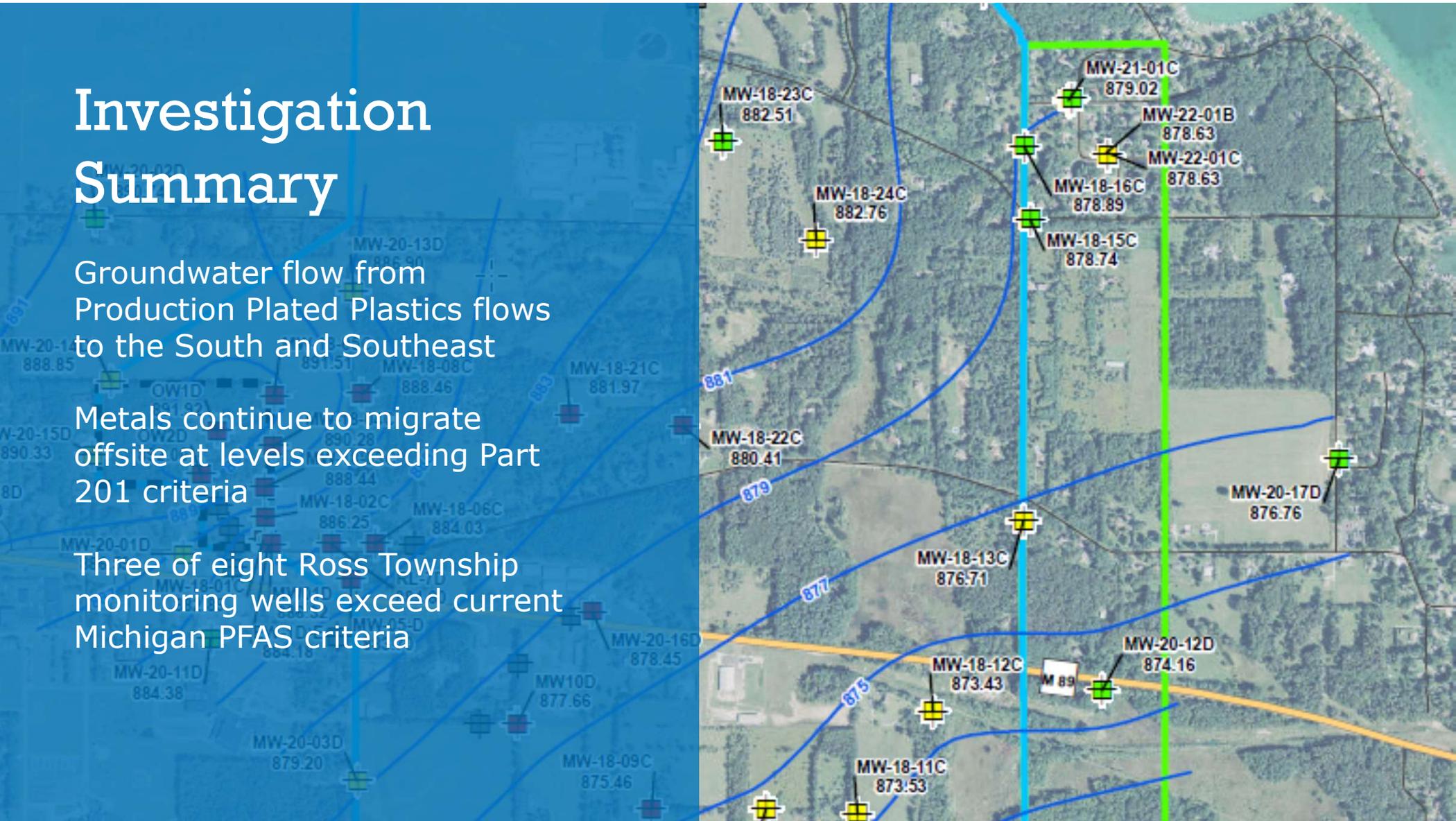


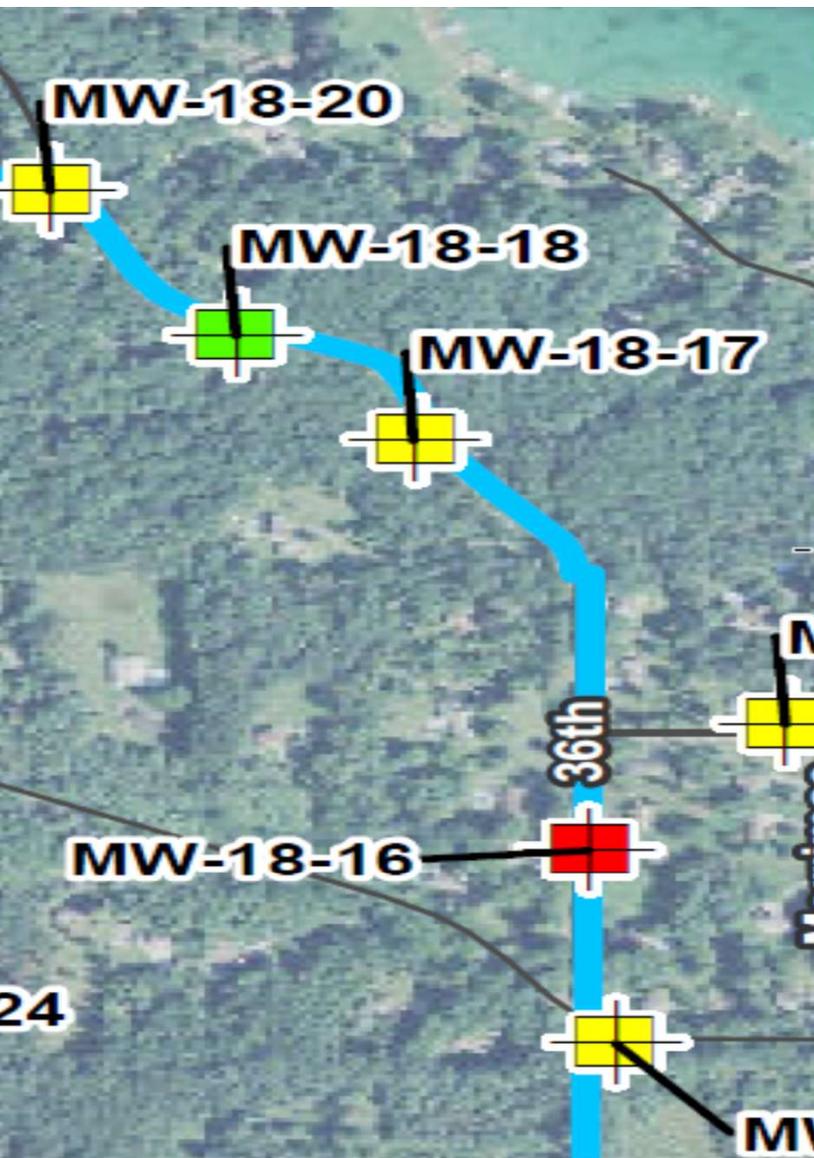
Investigation Summary

Groundwater flow from Production Plated Plastics flows to the South and Southeast

Metals continue to migrate offsite at levels exceeding Part 201 criteria

Three of eight Ross Township monitoring wells exceed current Michigan PFAS criteria





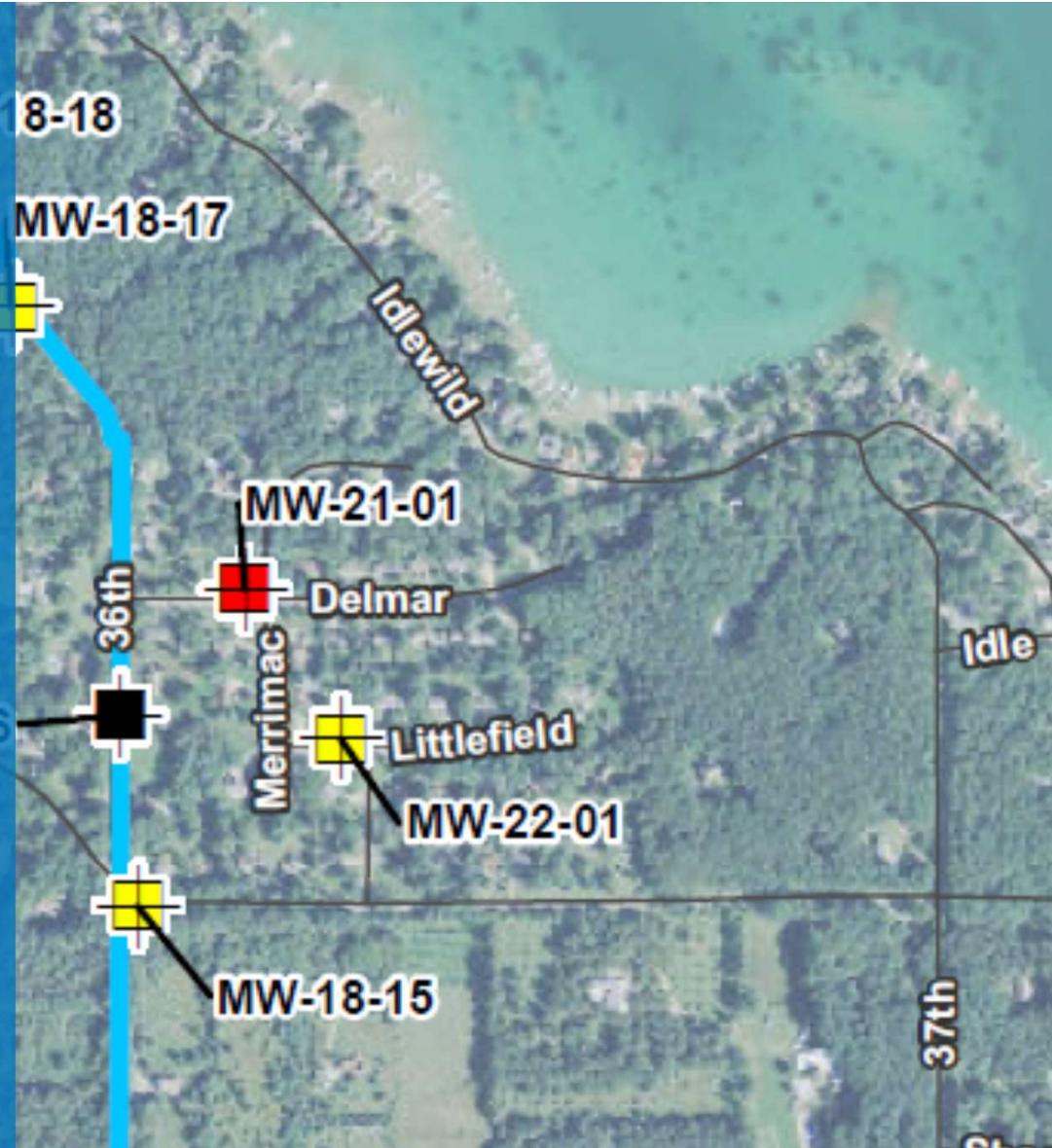
Specific PFAS	Michigan MCL	Michigan GSIC	Specific Monitoring Well			
			MW-18-15	MW-18-16	MW-21-01	MW-22-01
PFNA	6	N/A	ND	1.2	1.28	1.5
PFOA	8	12,000	2.5	13.1	4	8.68
PFHxA	400,000	N/A	0.85	8.61	4.1	4.9
PFOS	16	12	2.6	58	13.2	2.05
PFHxS	51	N/A	5.91	12.7	2.03	1.1
PFBS	420	N/A	34.1	14.4	18.3	2.44
HFPO-DA	370	N/A	NS	NS	NS	NS

Monitoring Well & Residential Well Sampling Trends

30 of 58 residential well samples collected detected PFAS, representing 49 wells and 9 duplicates

PFAS found in shallow, intermediate and deep wells

Point of use filters provided as an interim plan

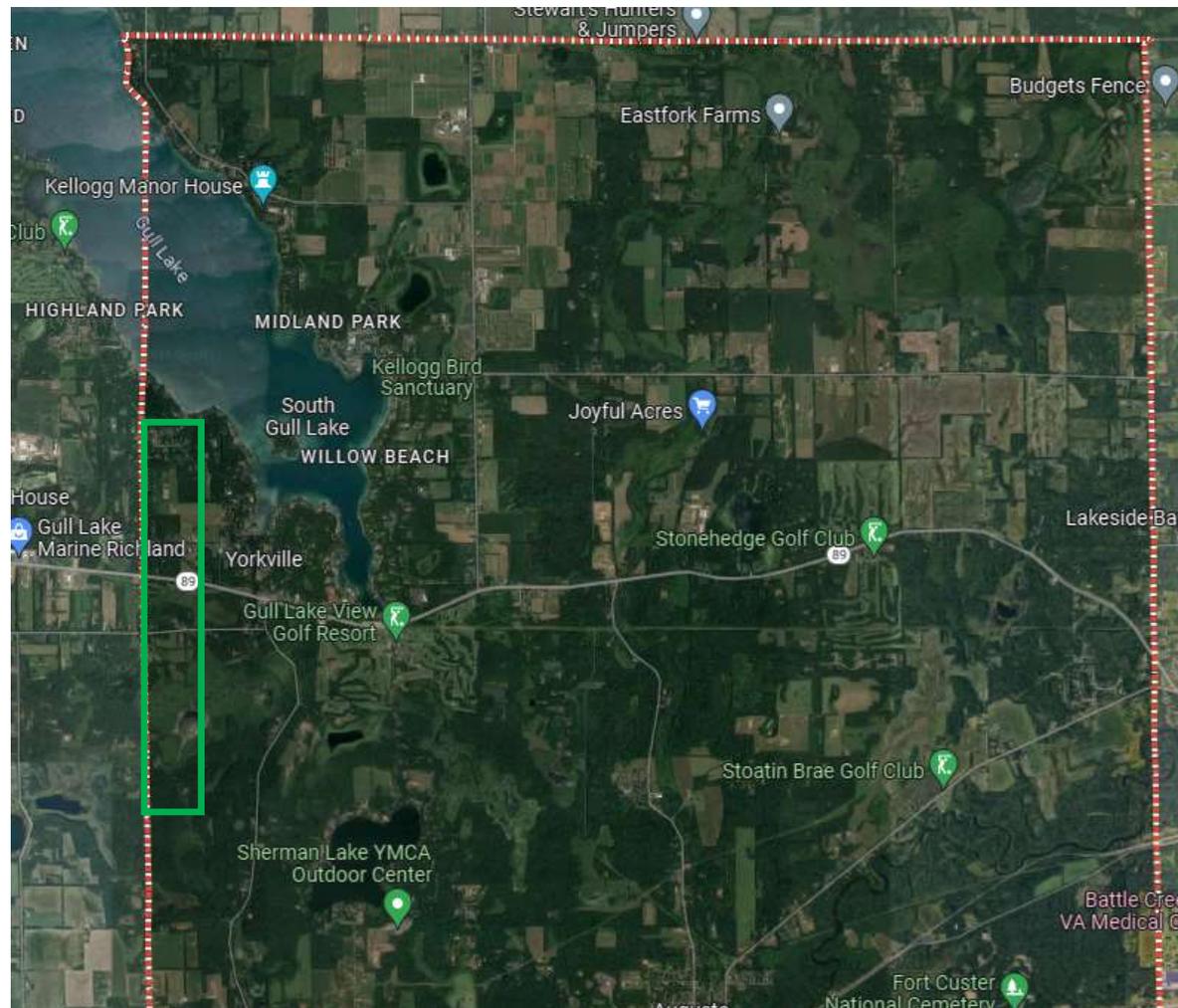




HEALTH & COMMUNITY SERVICES DEPARTMENT

- Investigation Area includes the following areas in Ross Township

- Gull Vista Plat
- East CD, D, and DE Avenue
- M89 Highway
- Greer Drive
- North 36th Street





HEALTH & COMMUNITY SERVICES DEPARTMENT

- POU Filter Data (August 2018 – September 2023)
 - 95 addresses eligible for a filter
 - 73 addresses obtained a filter (77%)
 - 151 replacement cartridges provided to date





HEALTH & COMMUNITY SERVICES DEPARTMENT

- Private well sampling conducted in February – May 2023
 - Sampling conducted by MDHHS in the Gull Vista Plat, North 36th Street and East CD Avenue
 - Around 65 – 70 properties
 - 49 wells sampled with 9 duplicate results (quality control)
 - 28 out of 58 results **not detect for PFAS**

Compound	MCL (PPT)	Proposed MCL	# of Detections	Range (PPT)
PFOA	8	4	17	2.41 - 12.45
PFOS	16	4	6	2.16 – 5.94
PFNA	6	-	0	-
PFHxS	51	-	18	3.02 – 26.35
PFBS	420	-	23	2.04 – 85.73
PFHxA	400,000	-	19	2.03 – 23.67



Long Term Drinking Water Recommendations

Specific locations may need to consider future long-term plans for clean safe drinking water alternative sources

Well replacements may not be a feasible alternative

Filters are not considered a viable long-term solution



Proposed Alternative, Kalamazoo Regional Water System Expansion

Previous Kalamazoo municipal extensions successful in solving PFAS contamination in Parchment, Cooper Township and Richland Township

Funding programs available

Parchment, Cooper Township and Richland Township extensions connected over 1700 customer locations at no direct customer cost



Proposed Alternative, Kalamazoo Regional Water System Expansion

Ross Township water main extensions focused within near and known PFAS investigation areas

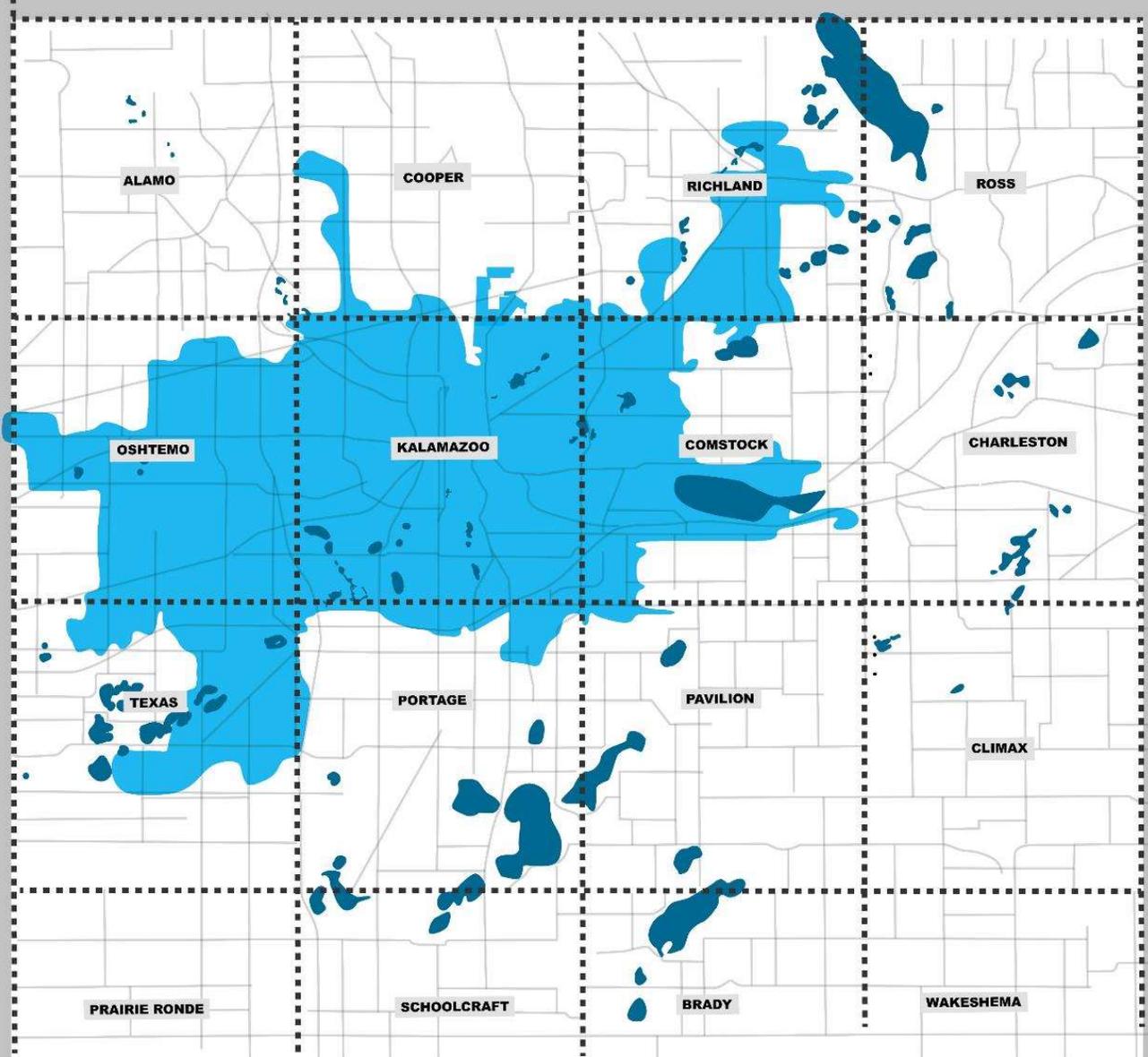
Transmission main (red) and distribution main (blue) to serve the Gull Vista Plat and the Indian Point Plat

Fire hydrants and available fire protection provides an additional benefit and likely reduction in homeowners insurance rates

The background of the slide is a blue-tinted photograph of a water treatment facility. On the left, a close-up shows a circular filter head with water dripping from its bottom. On the right, a large body of water is visible, with a complex metal truss structure (likely a bridge or part of a conveyor system) extending across it. In the foreground, a row of circular aeration tanks is visible, each with a central vertical shaft. The sky is overcast.

Kalamazoo Regional Water System

**Kalamazoo
Water
system**



Michigan's largest groundwater-only water supply

- 41,669 connections
- 839 miles of water main
- 7,000 fire hydrants
- 11 elevated storage facilities
- 11 municipal jurisdictions
- 20 booster/bleeder stations
- 13 point of entry treatment plants
- 94 production wells
- 16 US Geological Survey gauge stations
- 38 million gallons per day average max demand
- 46 million gallons per day max demand (1988)
- 11 municipal jurisdictions represented by 7 voting members to determine Policy and Rates - UPC

DWSRF FY2025 Application Timeline

October 12, 2023 – Request UPC Approval for franchise and system expansion

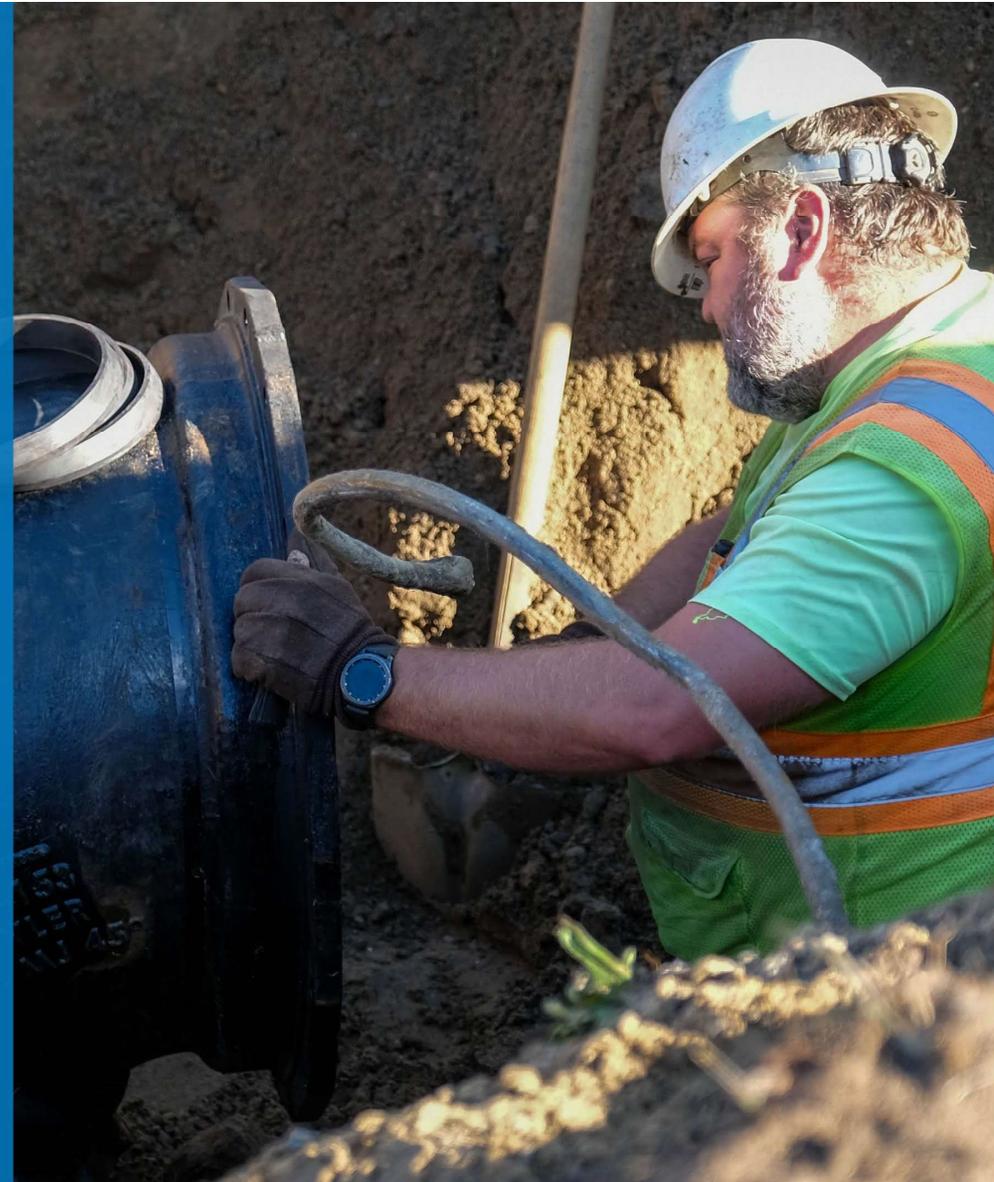
November 1, 2023 – Submit Intent to Apply (ITA) form to EGLE

April 2024 – Complete Project Plan and hold Public Hearing

May 1, 2024 – Submit Project Plan to EGLE

September 2024 – Receive ranking and funding priority from EGLE

October 2024 to September 2025 – Begin construction



Next steps

Ross Township Special Board Meeting, October 3, 2023, following Town Hall, Action Requested

Utility Policy Committee, Thursday, October 12, 2023, Action Requested

MPART PFAS Town Hall, Monday, October 30, 2023, Kellogg Biological Station



Discussion