



Regional Wastewater Collection System

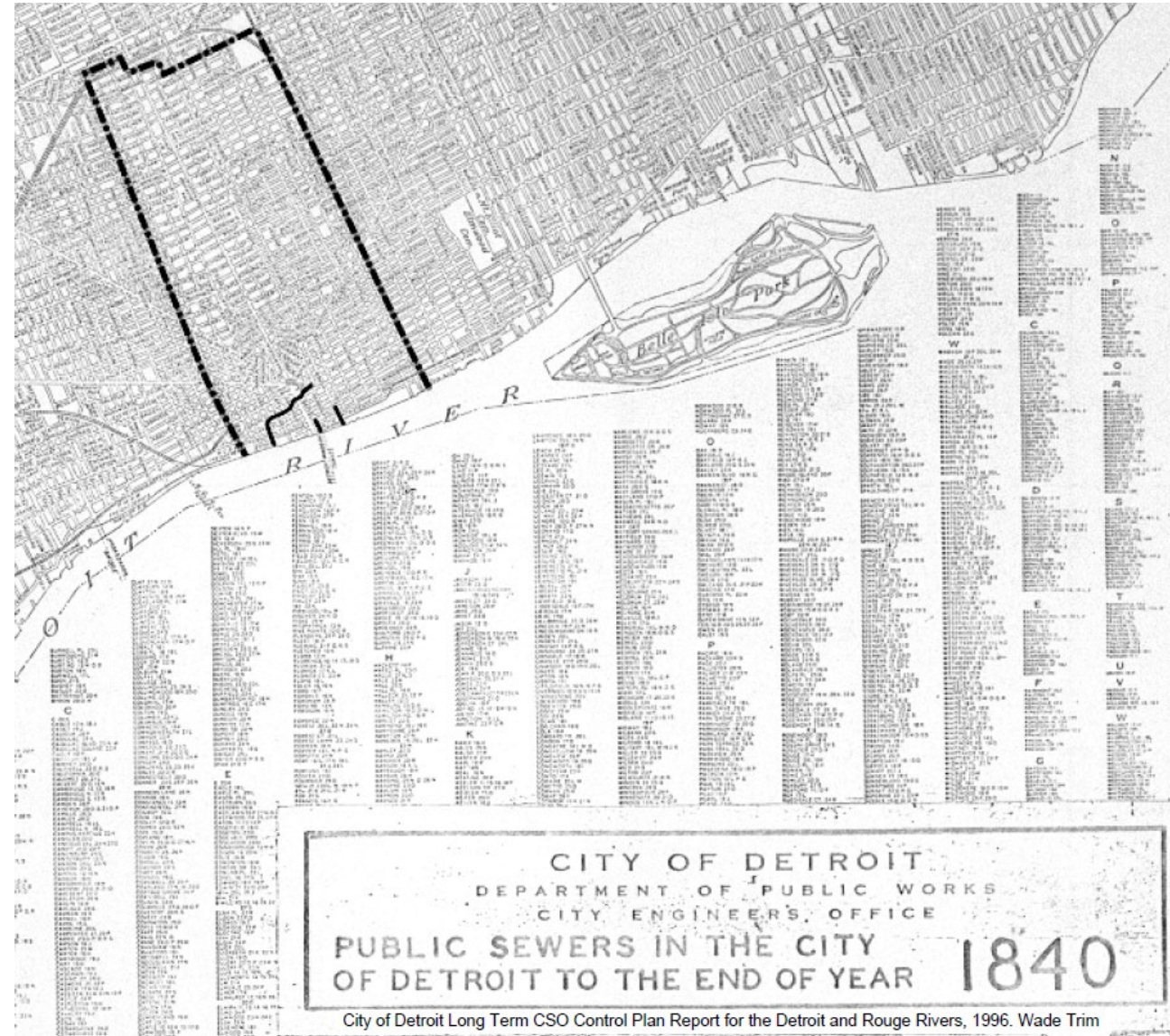
Suzanne R. Coffey P.E., Interim Chief Executive Officer

September 9, 2021

The City of Detroit Collection System

First Constructed in 1840

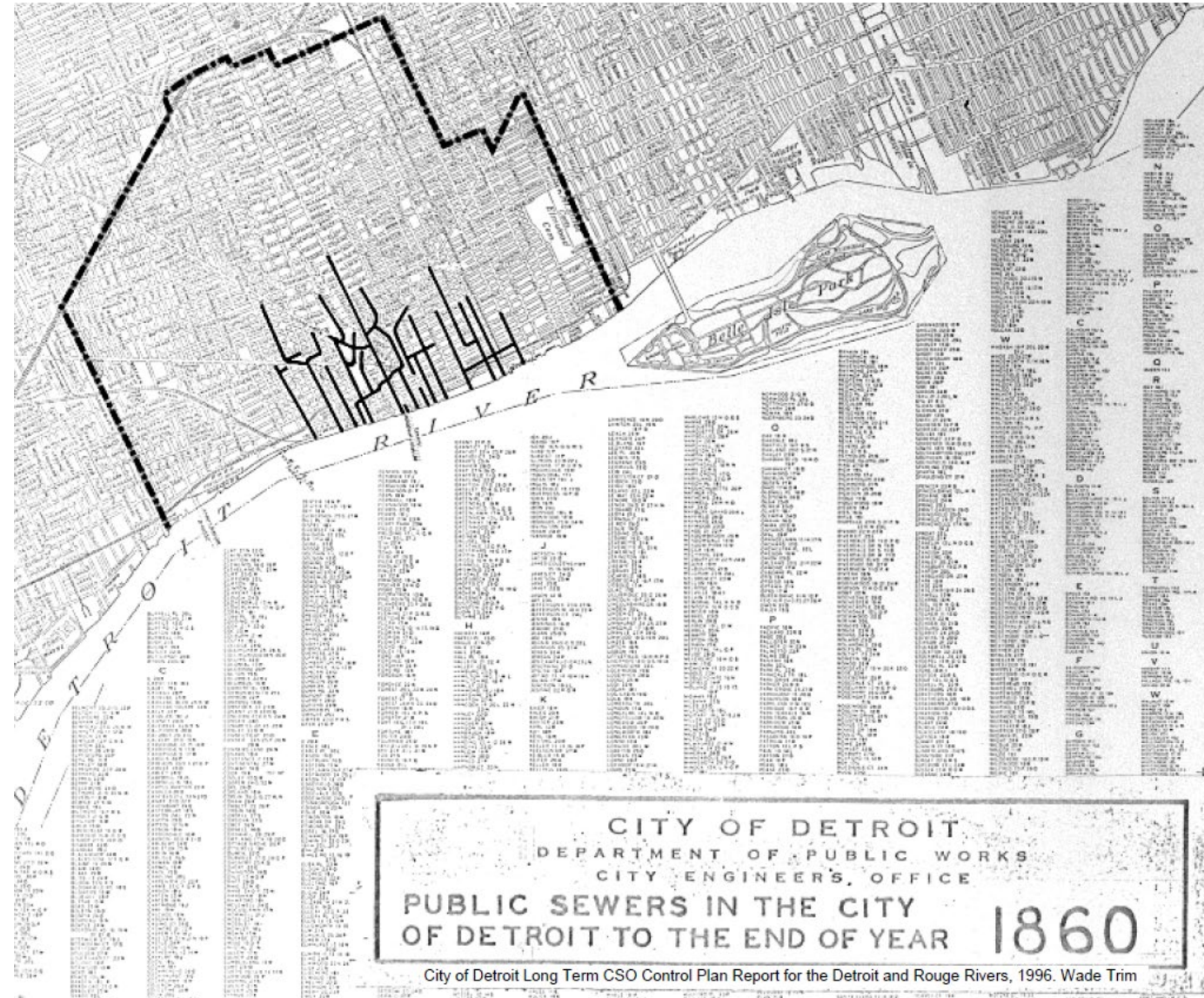
Significant growth over 140+ years



The City of Detroit Collection System

First Constructed in 1840

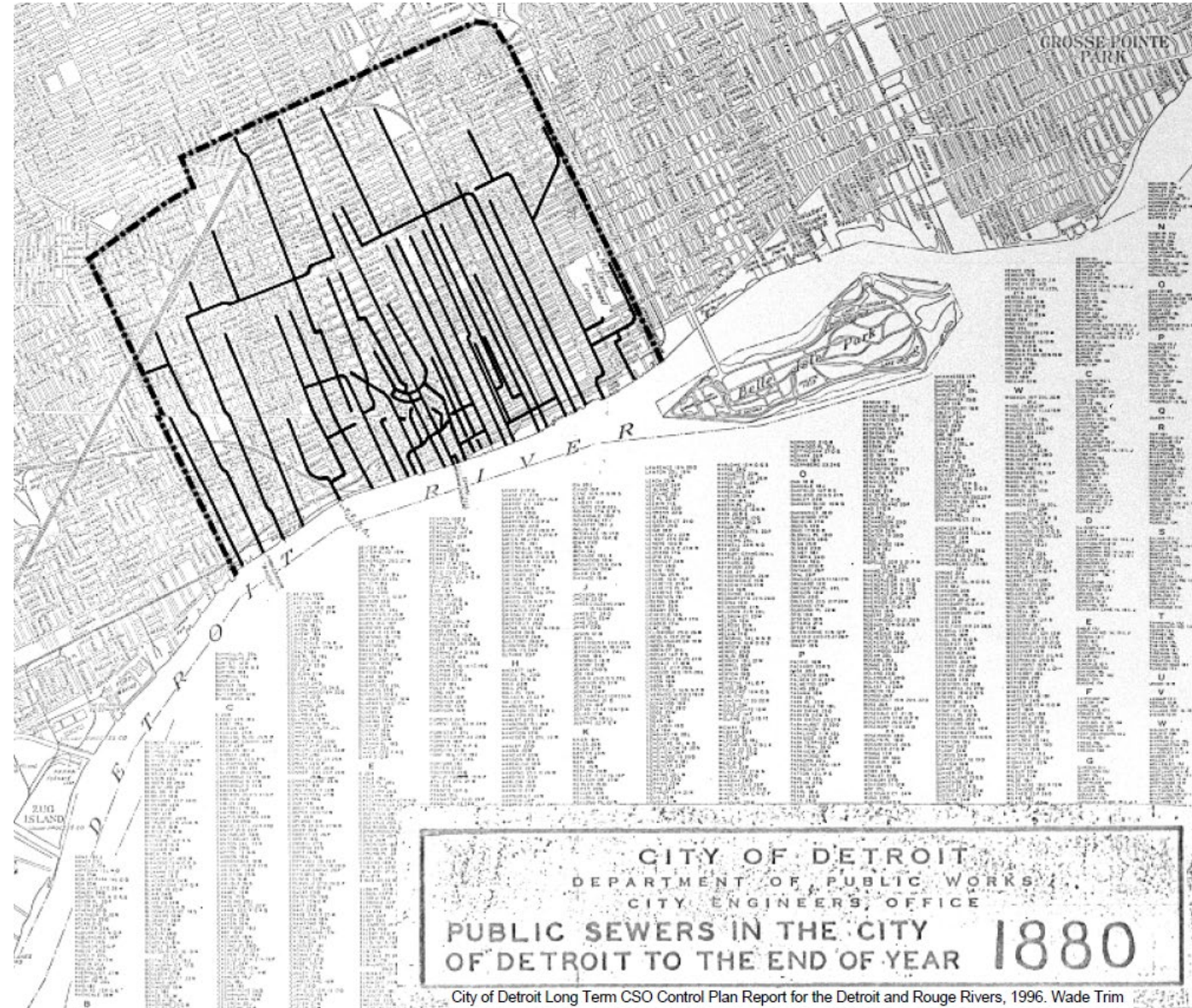
Significant growth over 140+ years



The City of Detroit Collection System

First Constructed in 1840

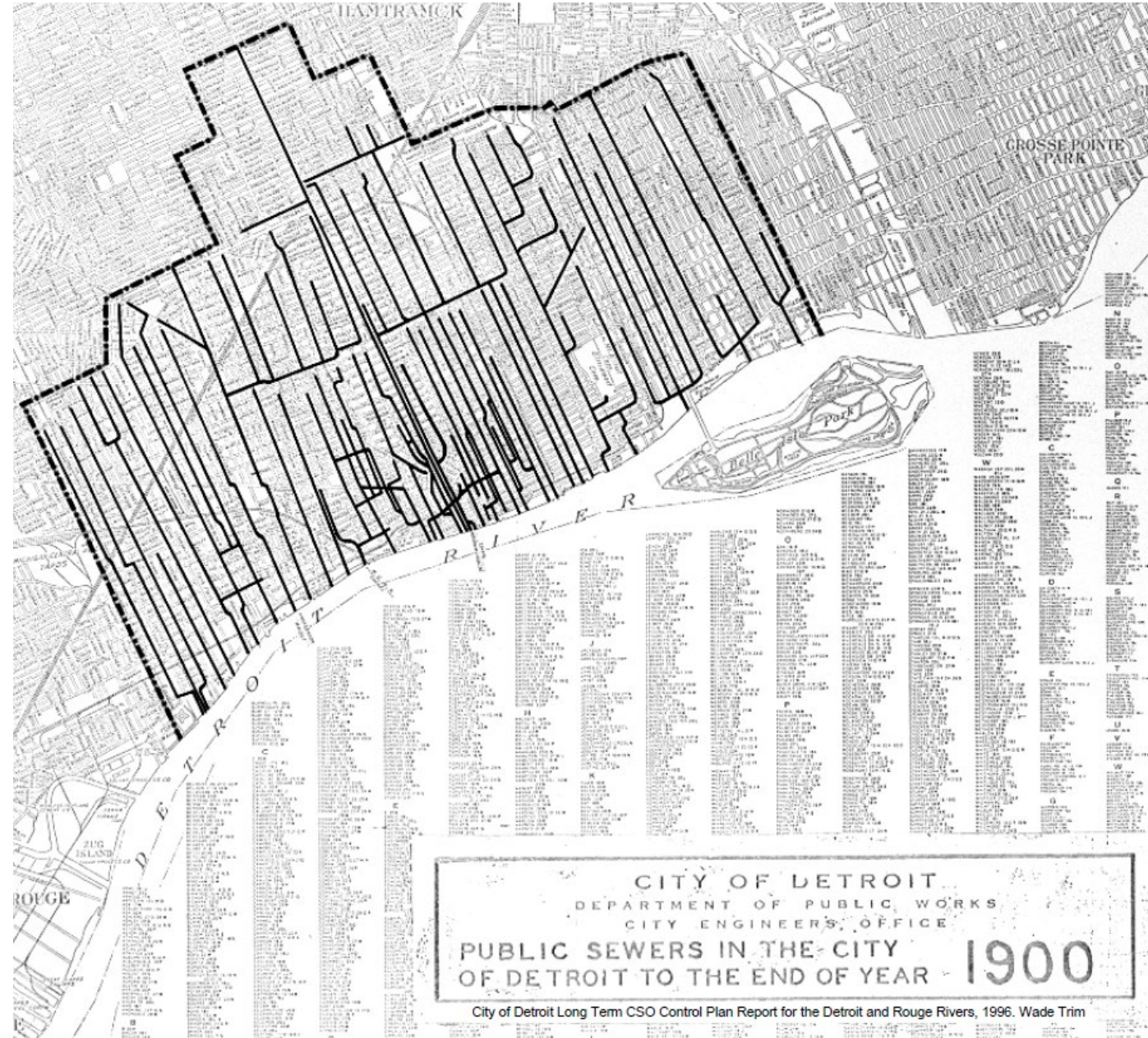
Significant growth over 140+ years



The City of Detroit Collection System

First Constructed in 1840

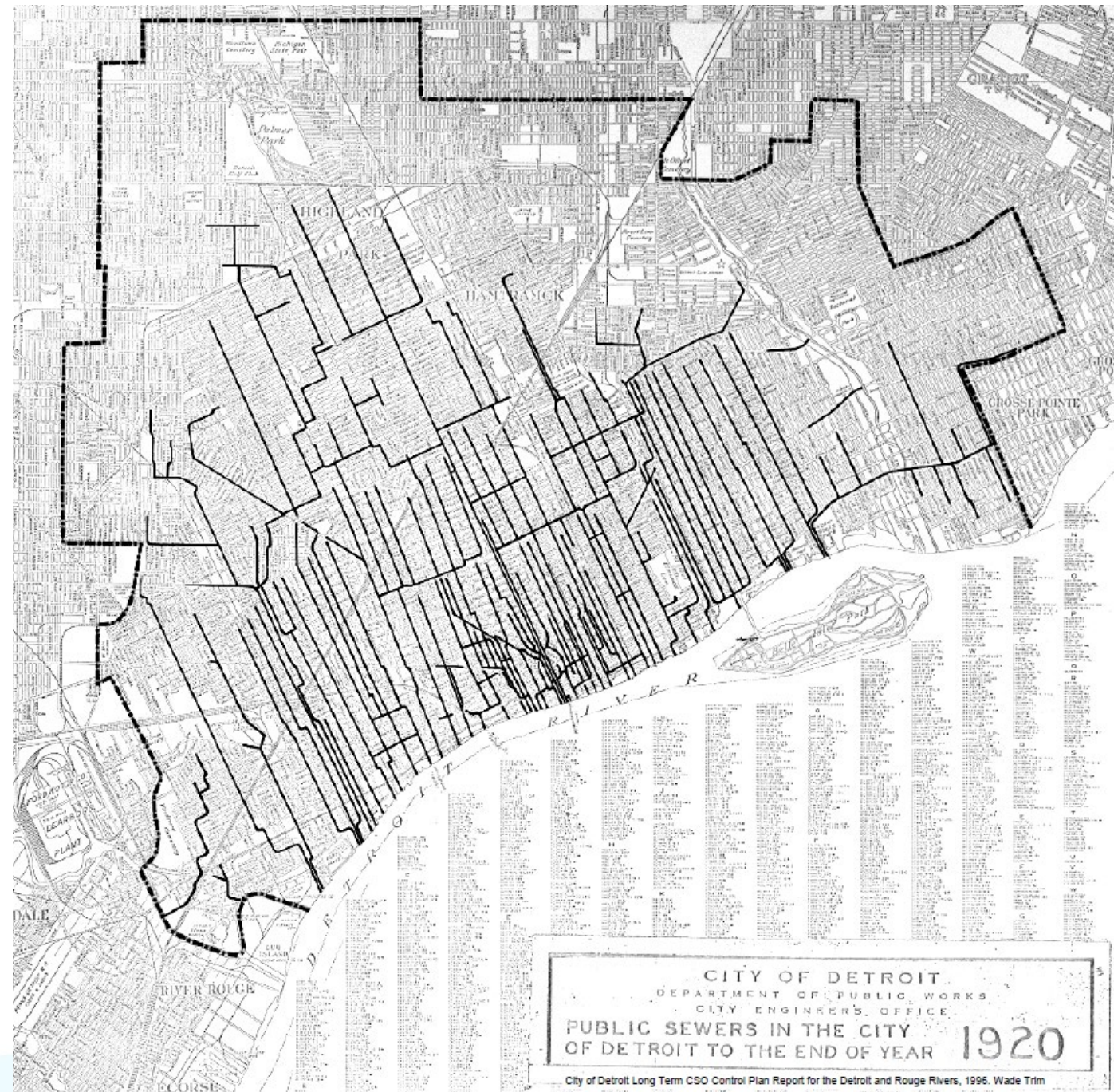
Significant growth over 140+ years



The City of Detroit Collection System

First
Constructed in
1840

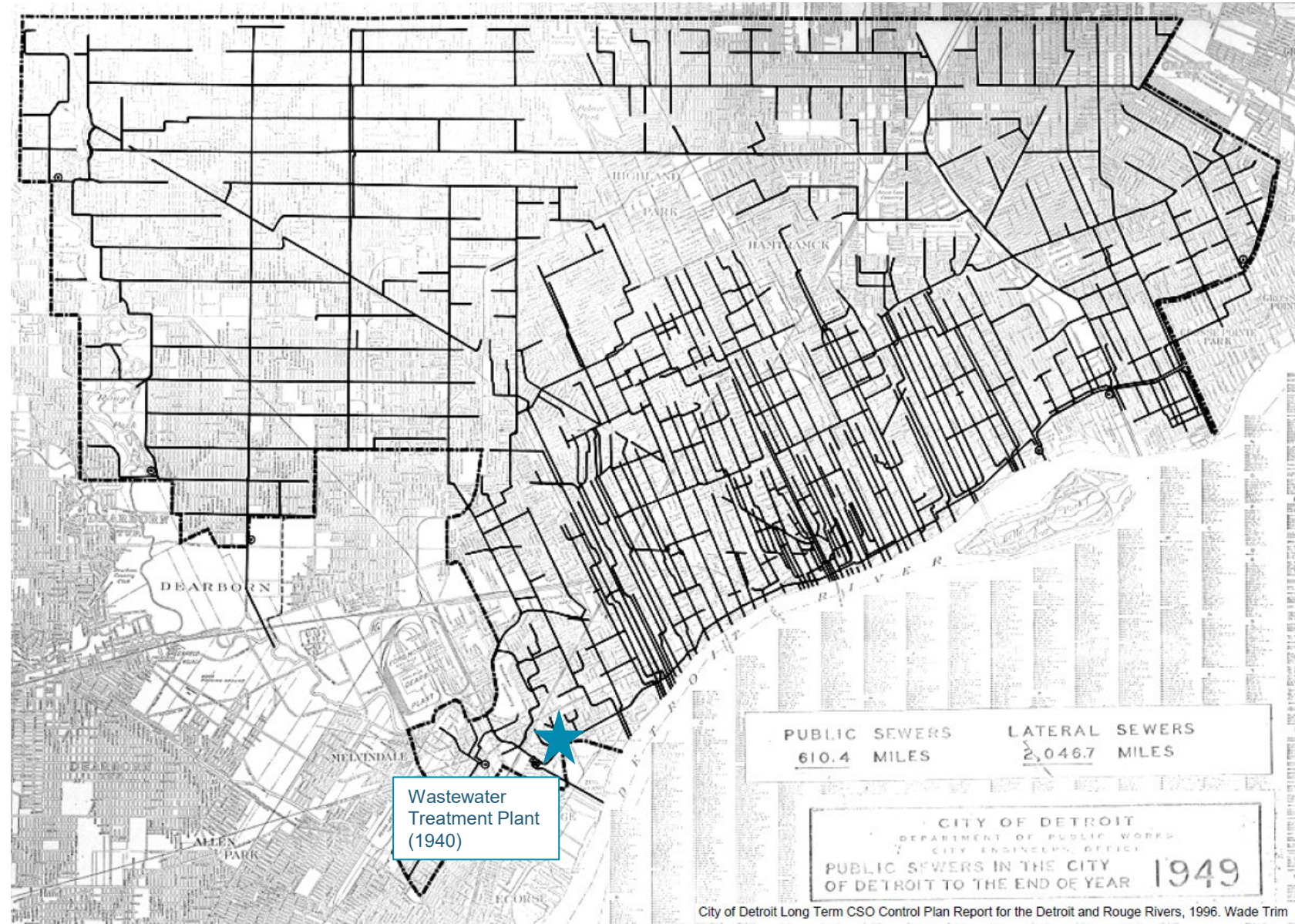
Significant
growth over
140+ years



The City of Detroit & Regional Collection System

First Constructed in 1840

Significant growth over 140+ years



The City of Detroit & Regional Collection System

First Constructed in 1840

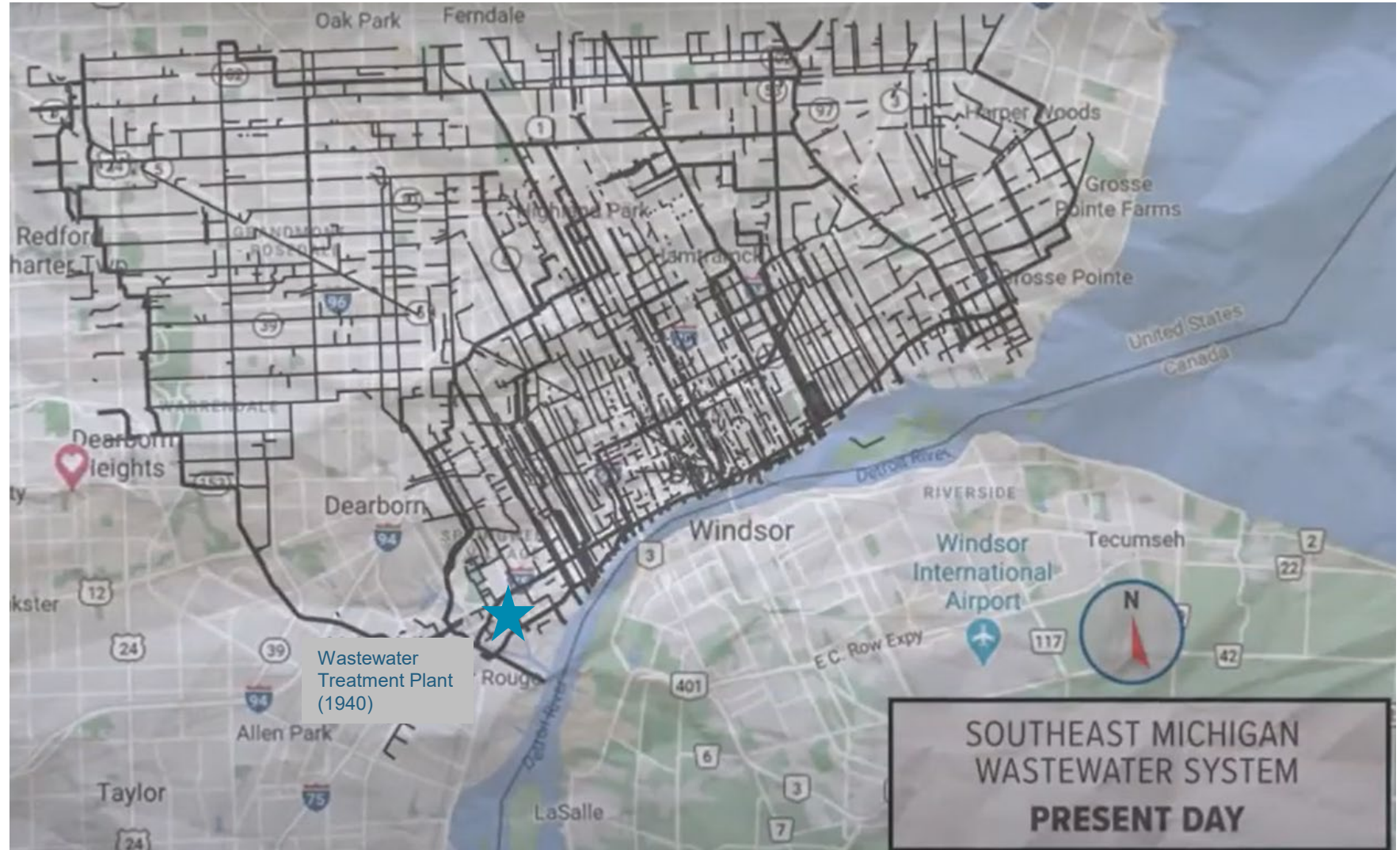
Significant growth over 140+ years



The City of Detroit & Regional Collection System

First Constructed in 1840

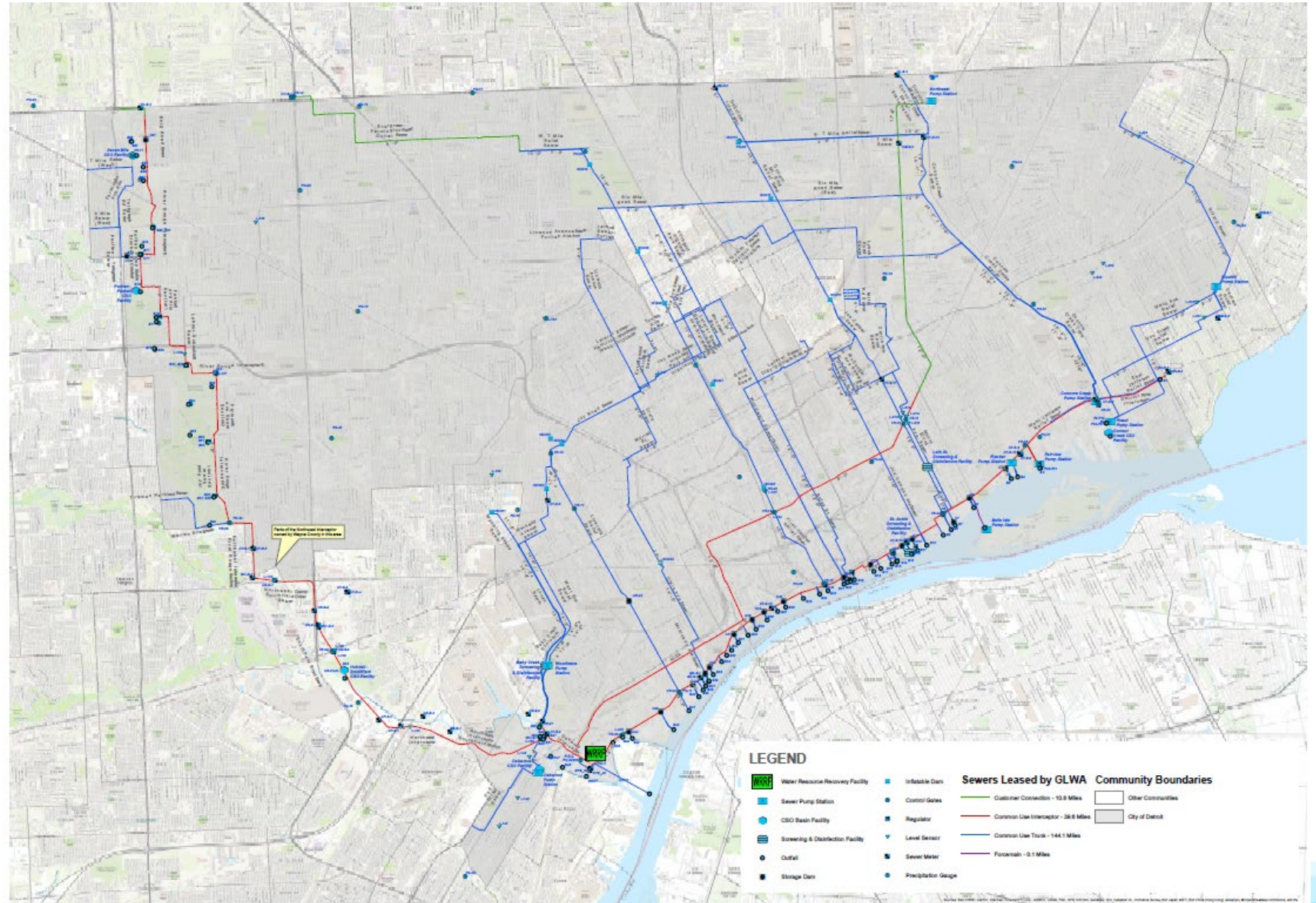
Significant growth over 140+ years



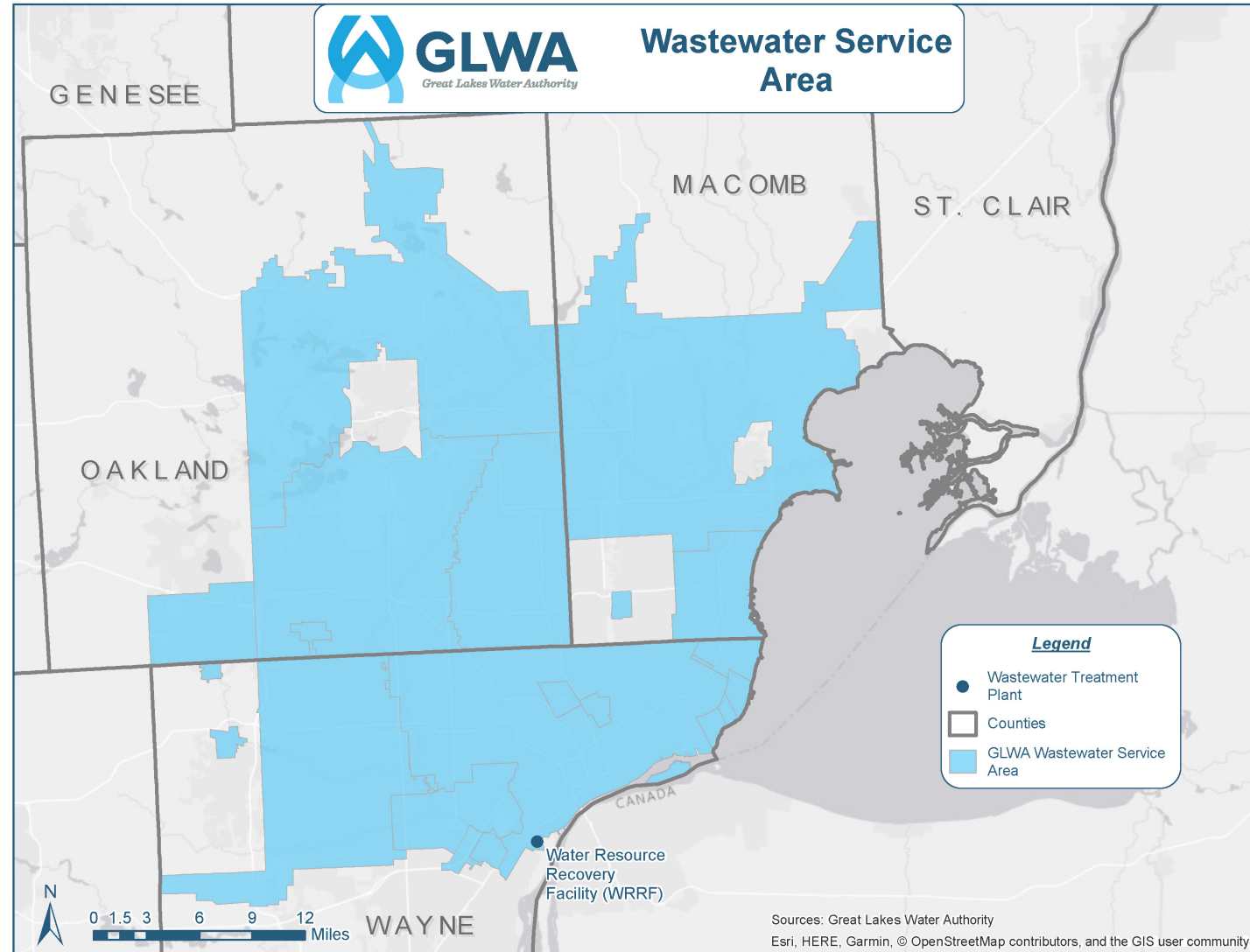
The Regional Collection System

First Constructed in 1840

Significant growth over 140+ years

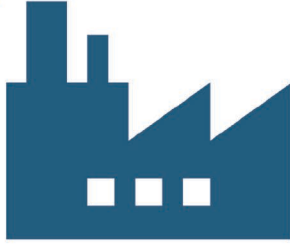


GLWA Current Wastewater Service Area



Wastewater System

W
R
R
F



The largest single-site wastewater treatment facility in the United States



195 miles of trunk sewers & interceptors



2.8 MILLION
PEOPLE SERVED



19 Member Partners
across **79** communities



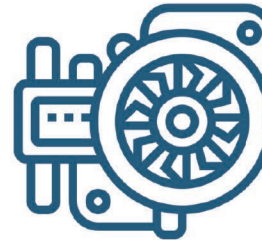
Treatment capacity of **1,700**
million gallons per day



8 
CSOs

3 
Interceptors

9 PUMP
STATIONS

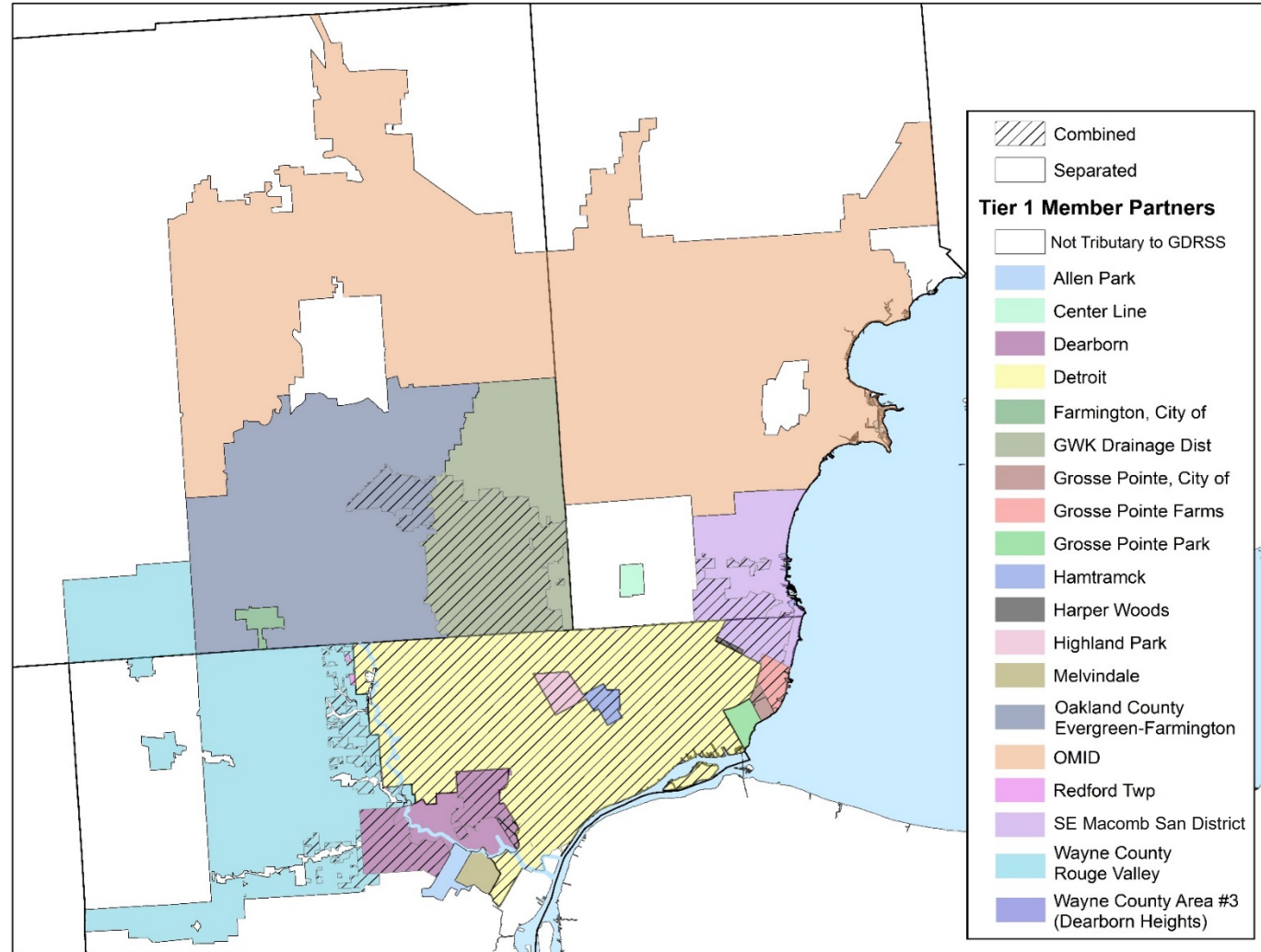


944 SQ. MILE
service area

VISION:

Through regional collaboration, GLWA strives to be the provider of choice, dedicated to efficiently and effectively delivering the nation's best water and sewer services in partnership with our member partners.

Tier 1 Member Partner Collection System Type

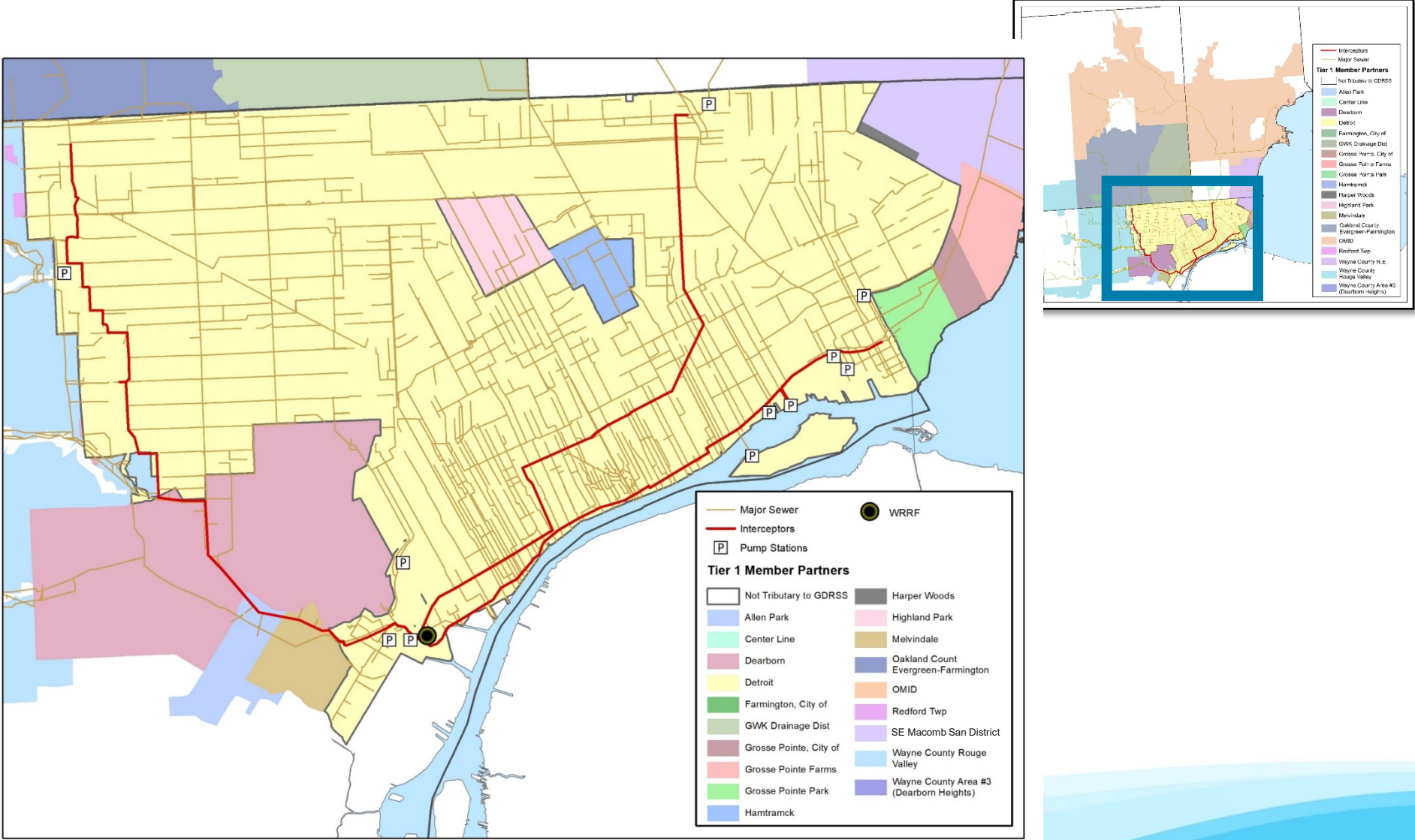


Combined = 24%
Separated = 76%

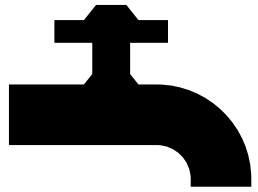
GLWA Dry Weather Facilities Overview

Three Interceptors Flow Into the WRRF

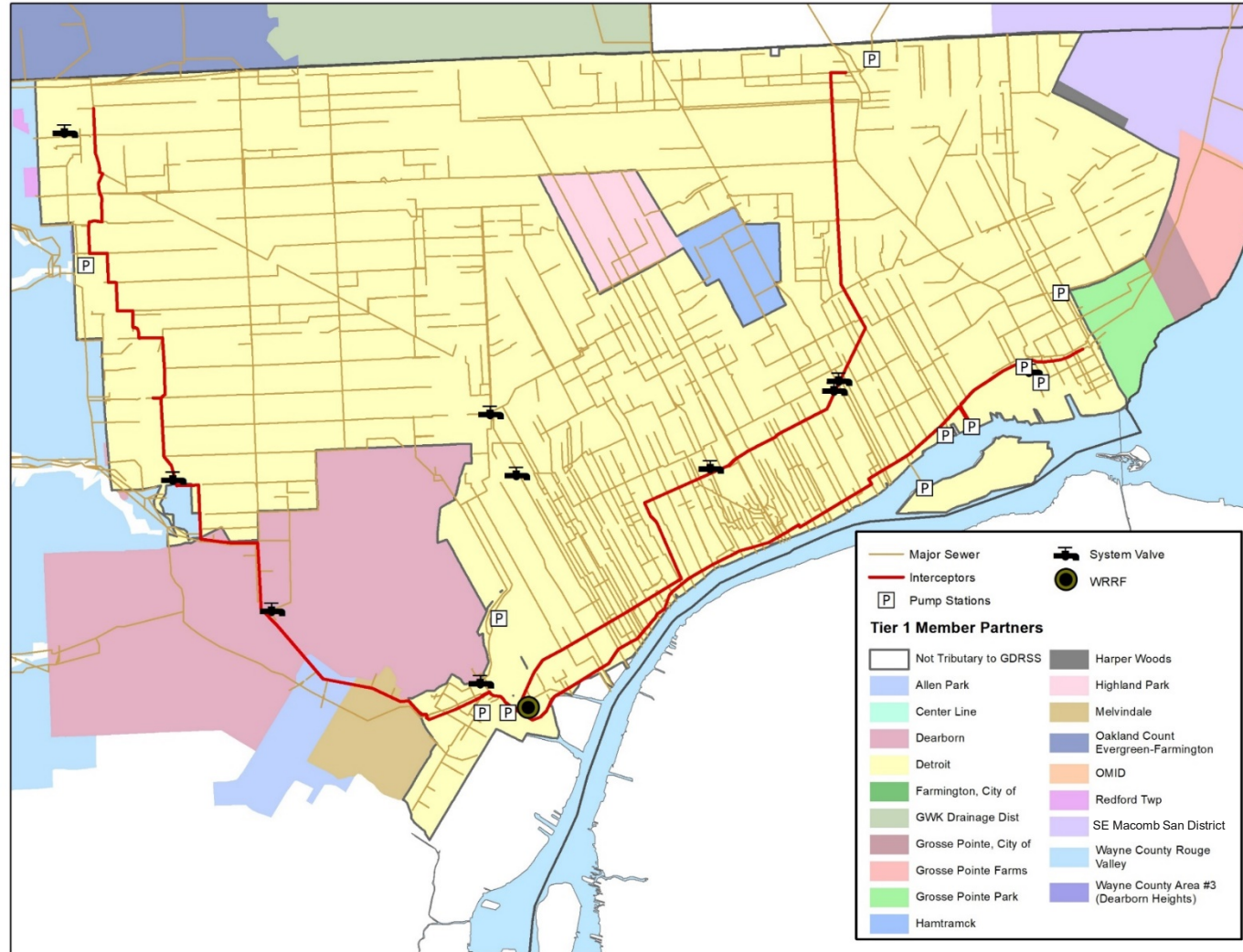
- Northwest Interceptor (NWI)
- North Interceptor East Arm (NIEA)
- Detroit River Interceptor (DRI)



GLWA Wet Weather Facilities Overview



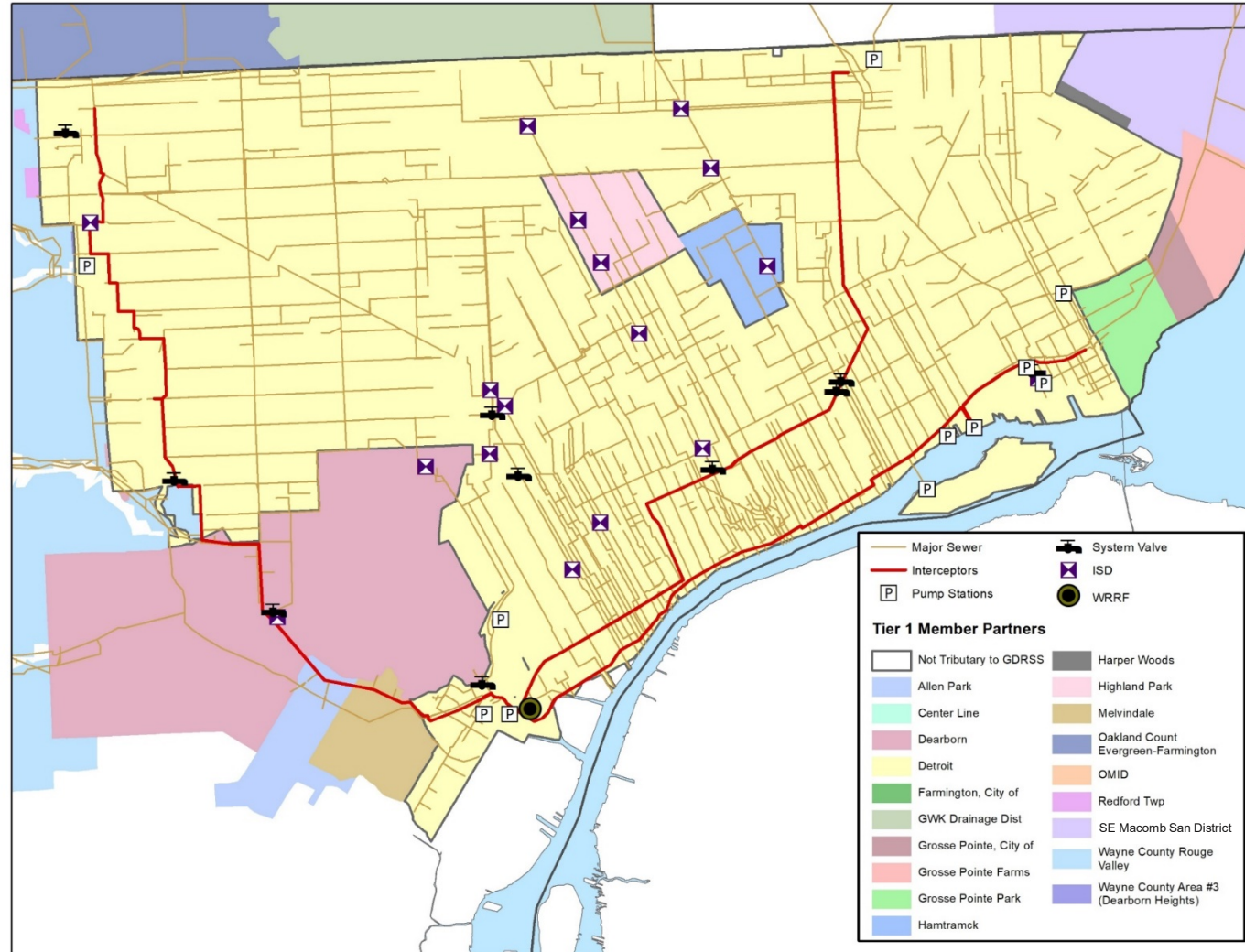
System Valves



GLWA Wet Weather Facilities Overview



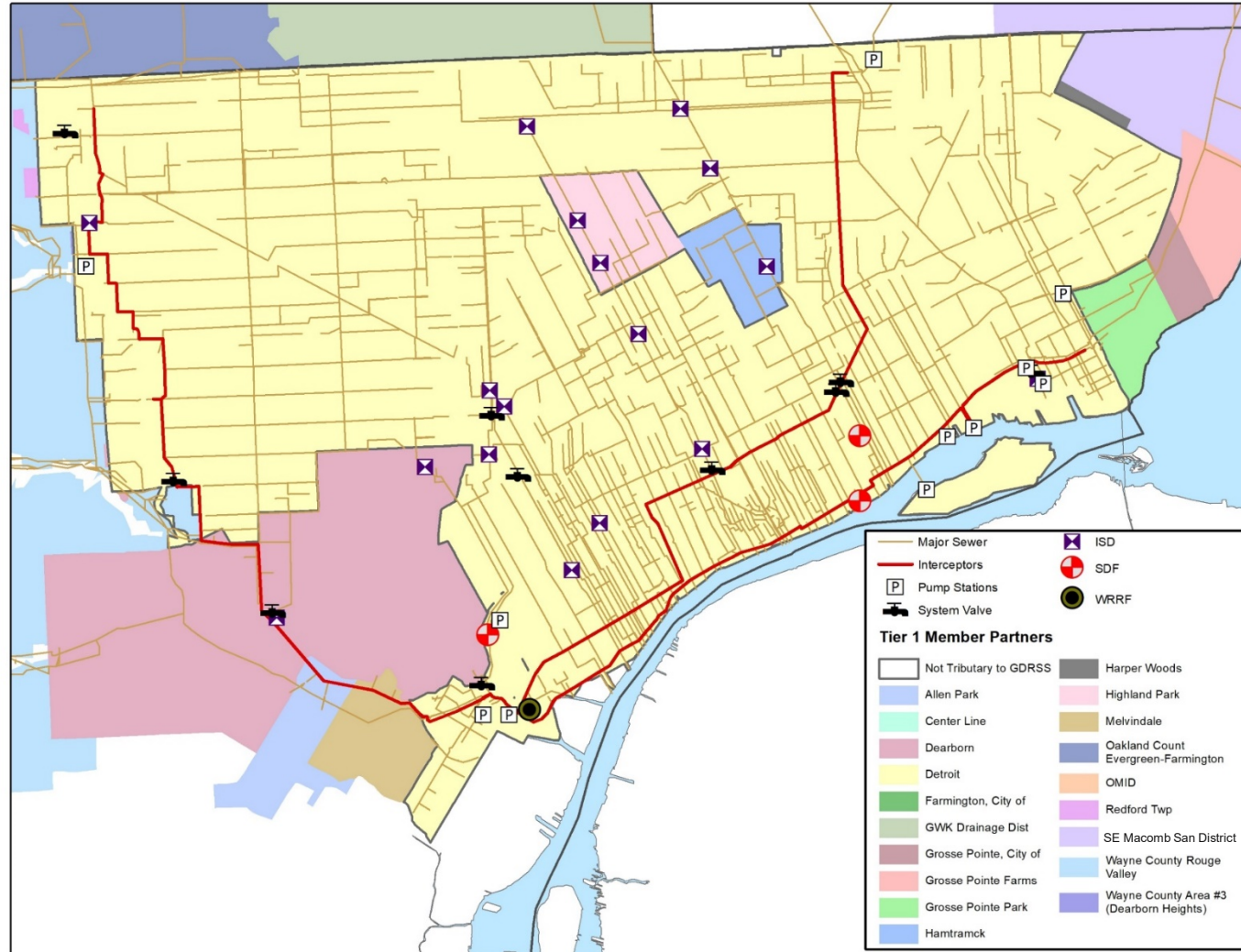
In-System
Storage Devices
(ISD)



GLWA Wet Weather Facilities Overview



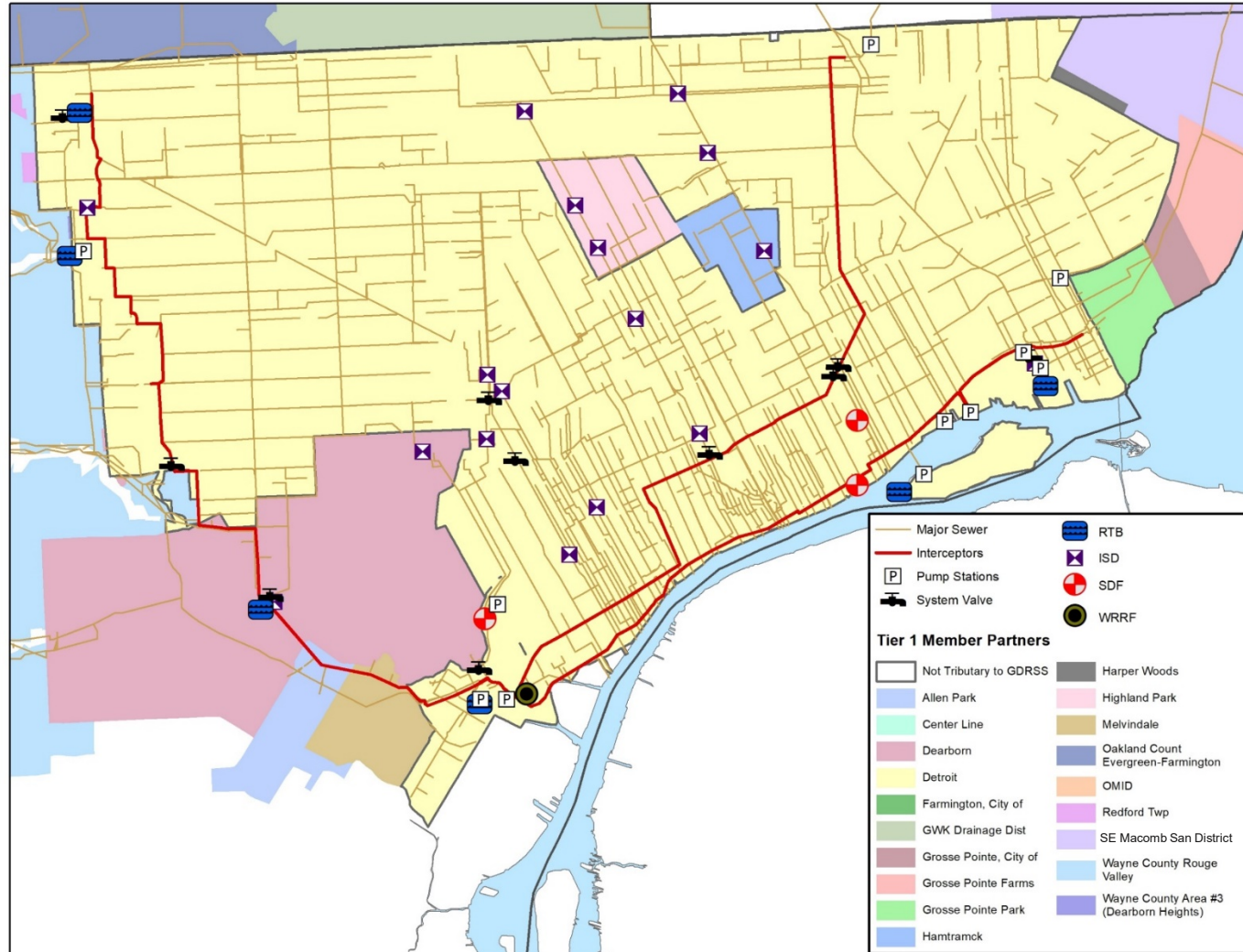
Screening &
Disinfection
Facility
(SDF)



GLWA Wet Weather Facilities Overview

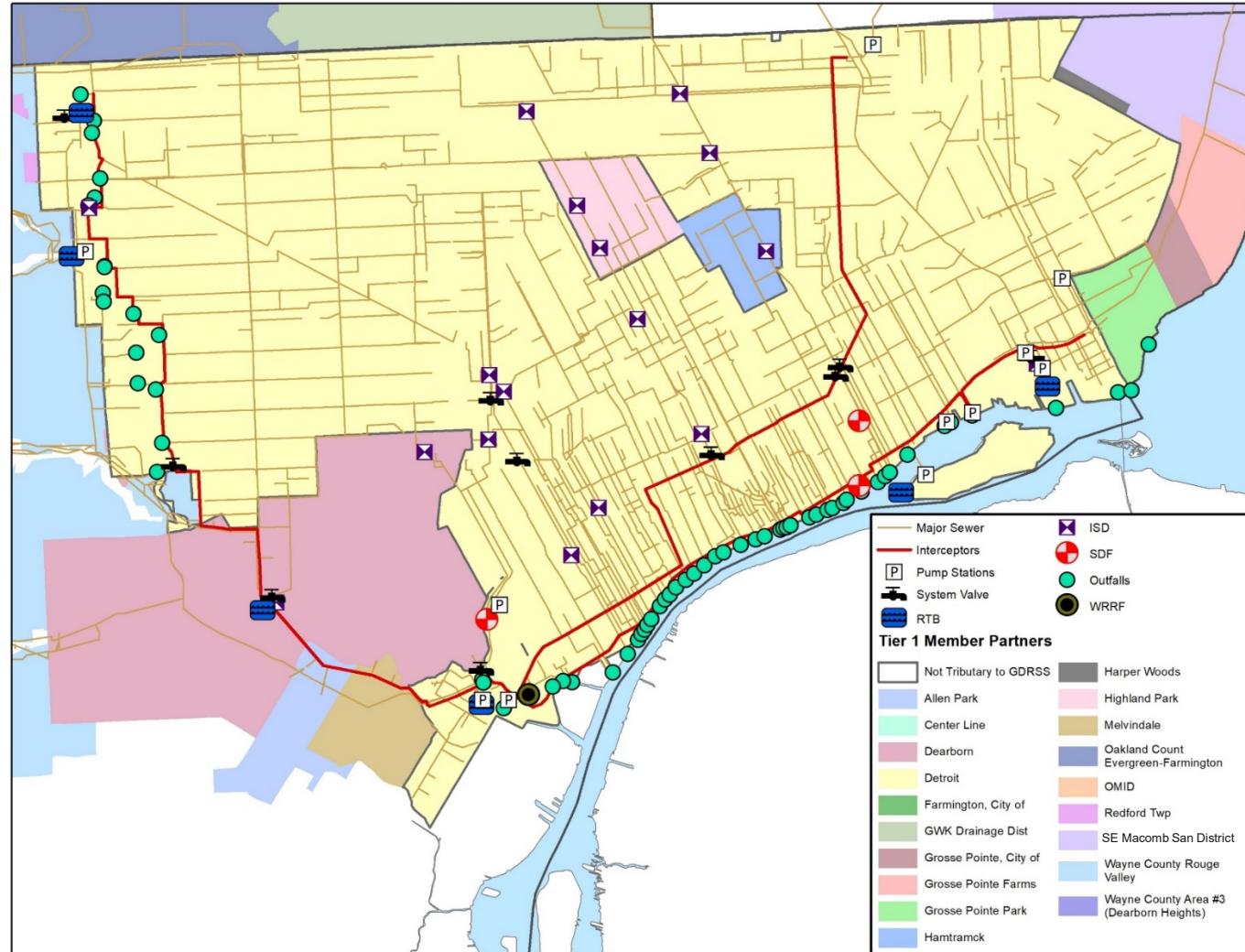


Retention
Treatment Basin
(RTB)







GLWA Wet Weather Facilities Overview

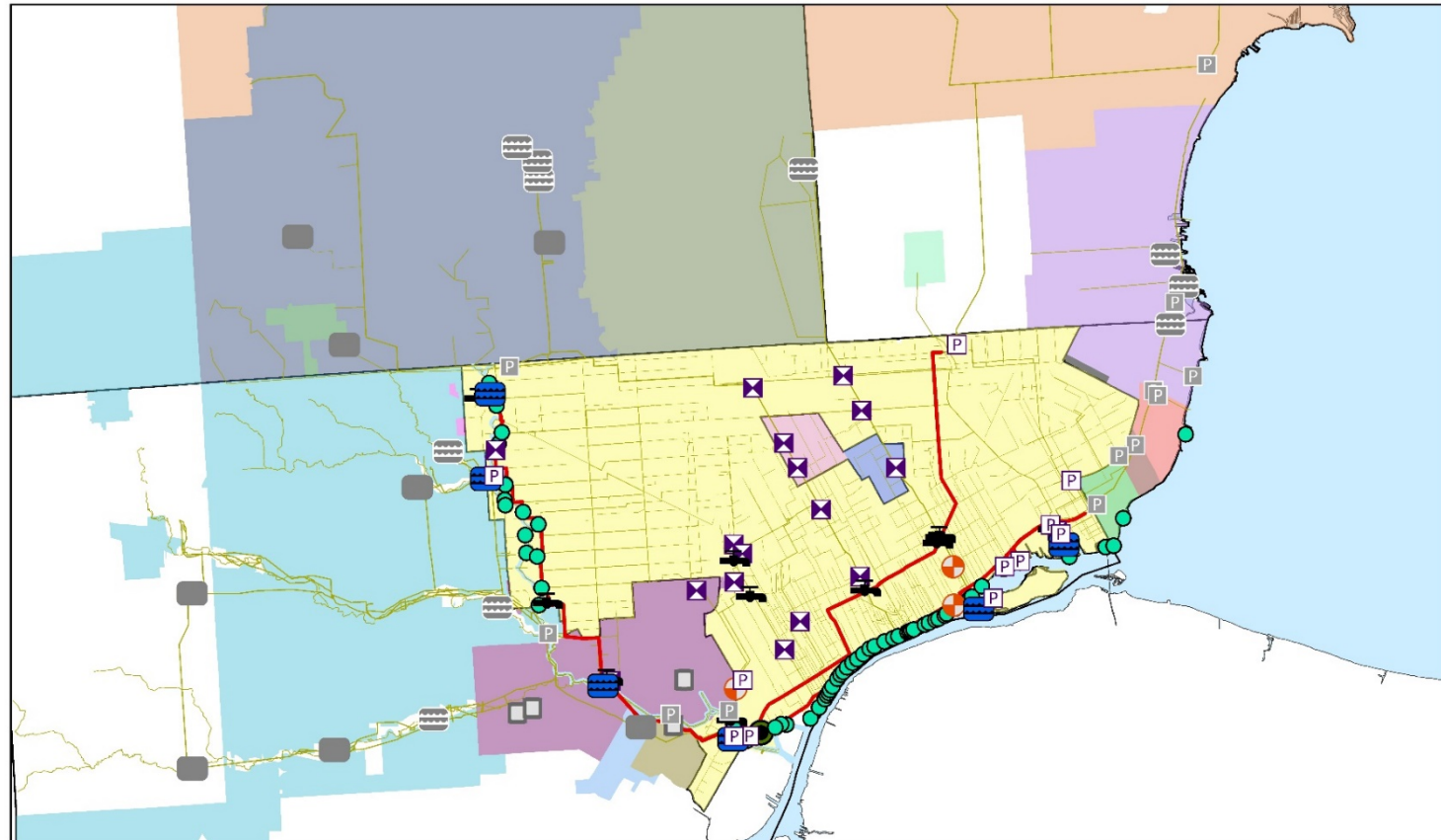

Outfalls




































Regional System Operational Elements

Tier 1 Member Partner Element

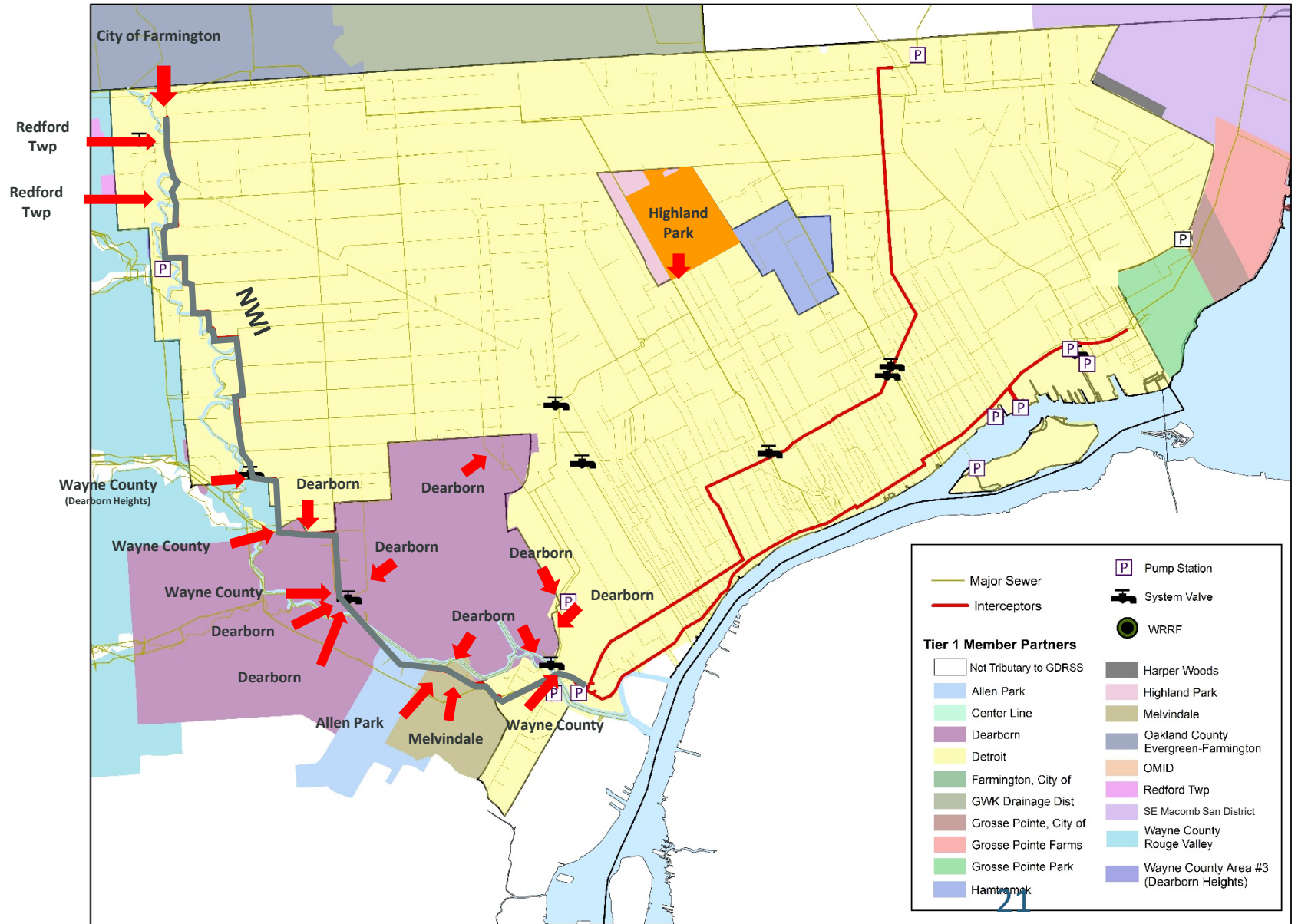
-  Pump Station
-  RTB
-  EQ Basin
-  SHAFTS



Tier 1 Member Partners			GLWA Element		Tier 1 Member Partner Element	
 Not Tributary to GDRSS	 Grosse Pointe, City of	 Oakland County Evergreen-Farmington	 WWTP	 System Valve	 Pump Station	
 Allen Park	 Grosse Pointe Farms	 OMID	 Outfall	 Pump Station	 RTB	
 Center Line	 Grosse Pointe Park	 Redford Twp	 SDF	 Major Sewer	 EQ Basin	
 Dearborn	 Hamtramck	 SE Macomb San District	 ISD	 Interceptors	 SHAFTS	
 Detroit	 Harper Woods	 Wayne County Rouge Valley	 RTB			
 Farmington, City of	 Highland Park	 Wayne County Area #3 (Dearborn Heights)				
 GWK Drainage Dist	 Melvindale					

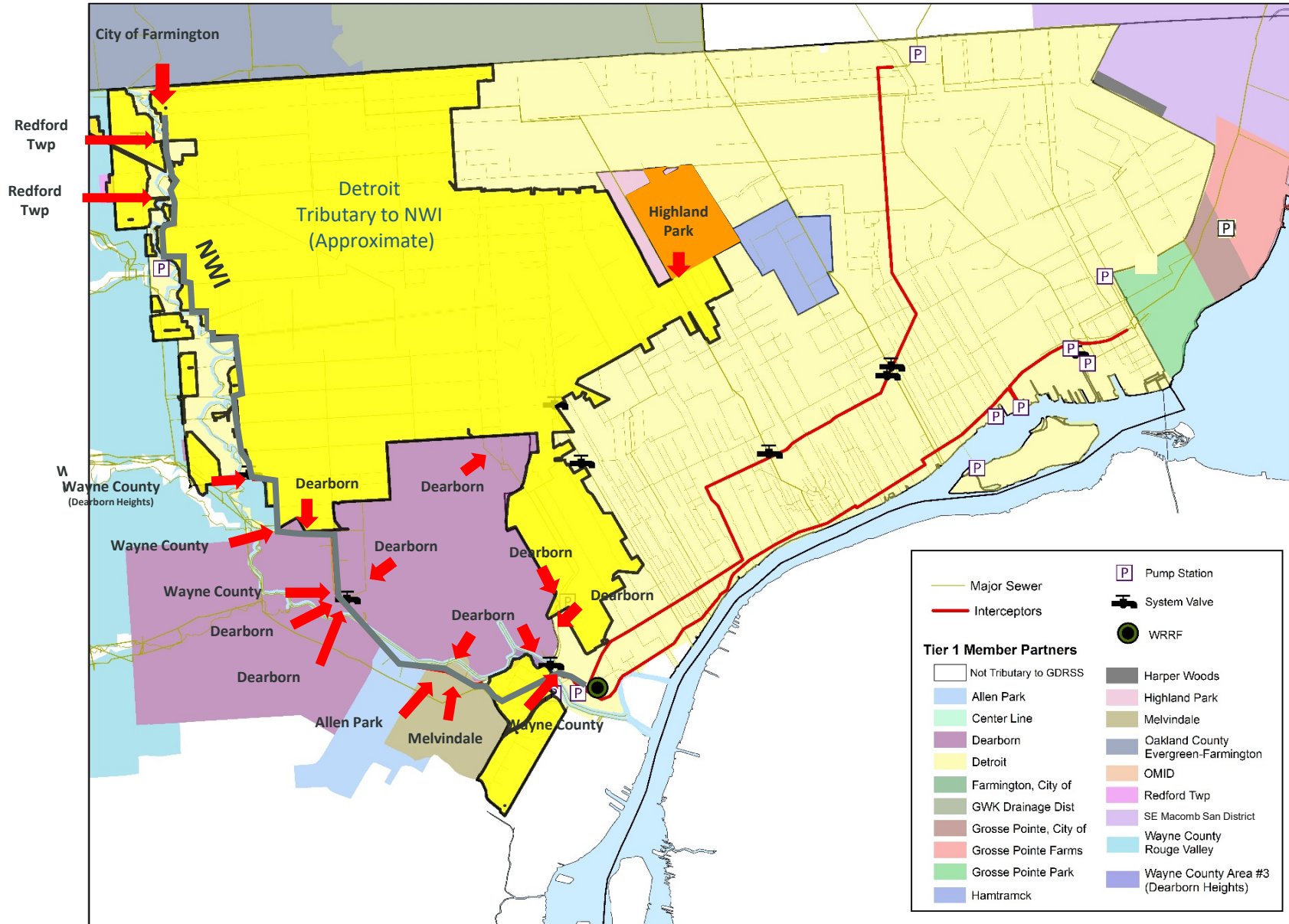


Northwest Interceptor Tributaries



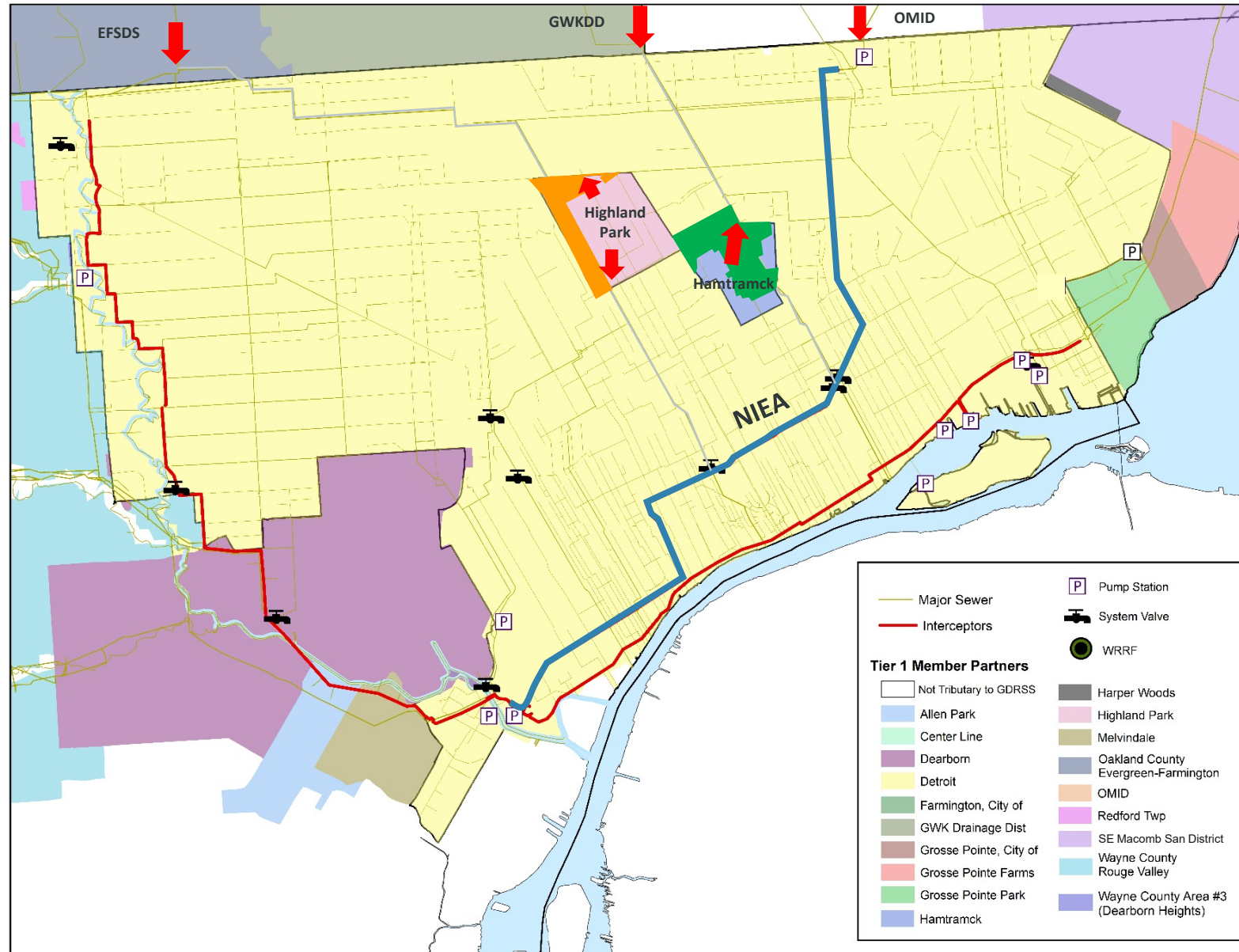
Orange area within Highland Park is tributary to NIEA

Northwest Interceptor Tributaries



Orange area within Highland Park is tributary to NWI

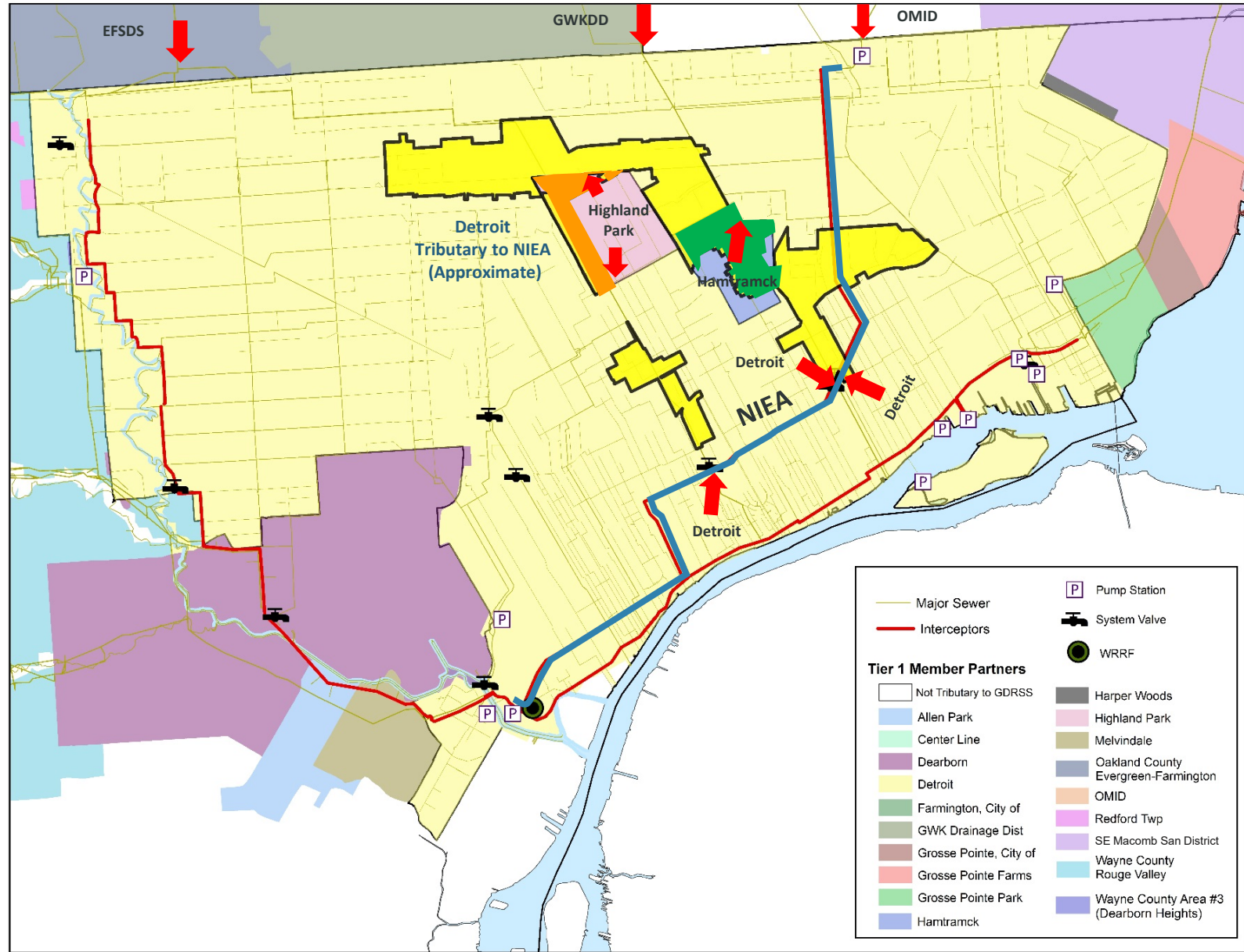
North Interceptor East Arm Tributaries



Orange area within Highland Park is tributary to NIEA

Green area within Hamtramck is tributary to NIEA

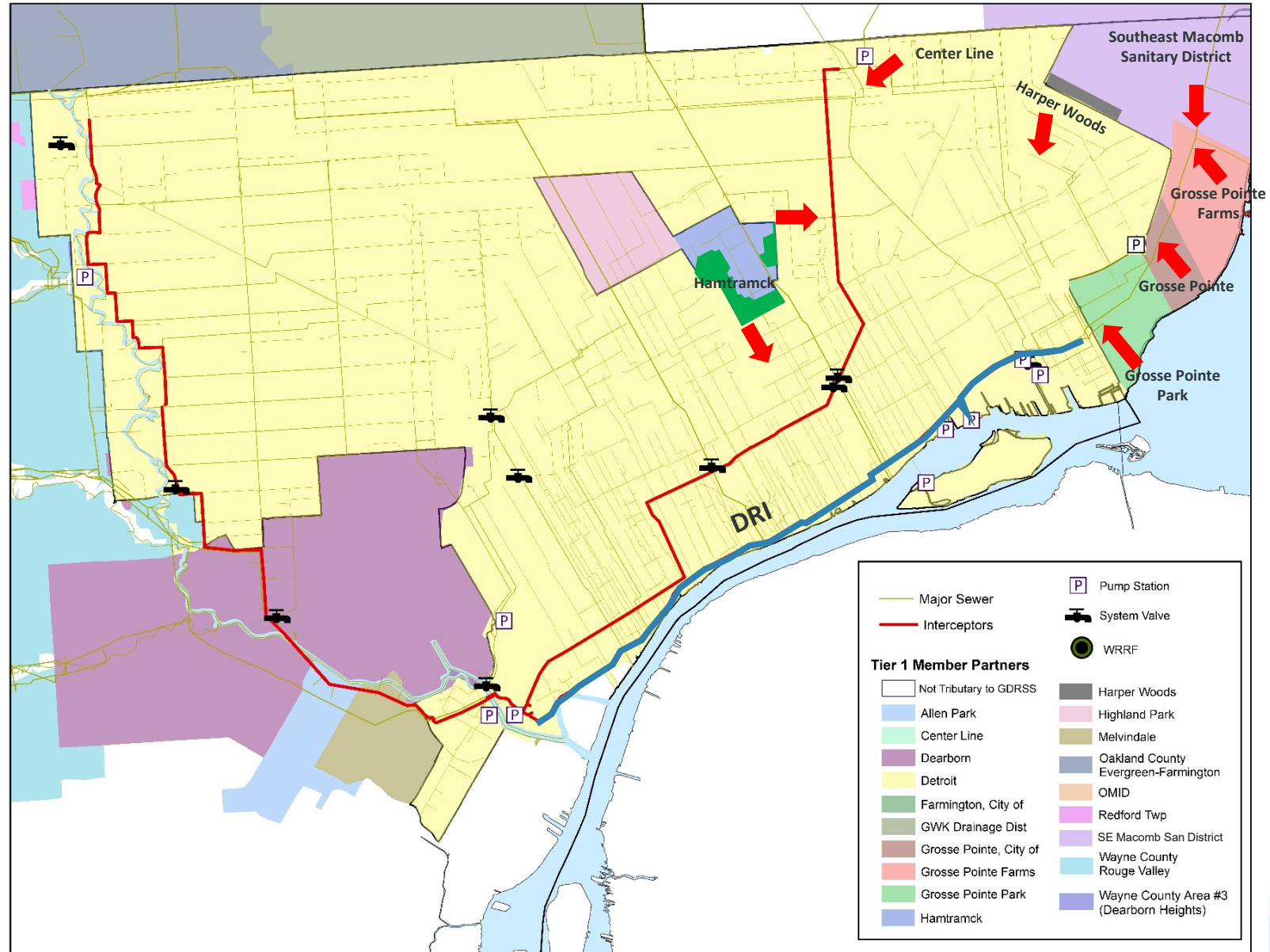
North Interceptor East Arm Tributaries



Orange area within Highland Park is tributary to NIEA

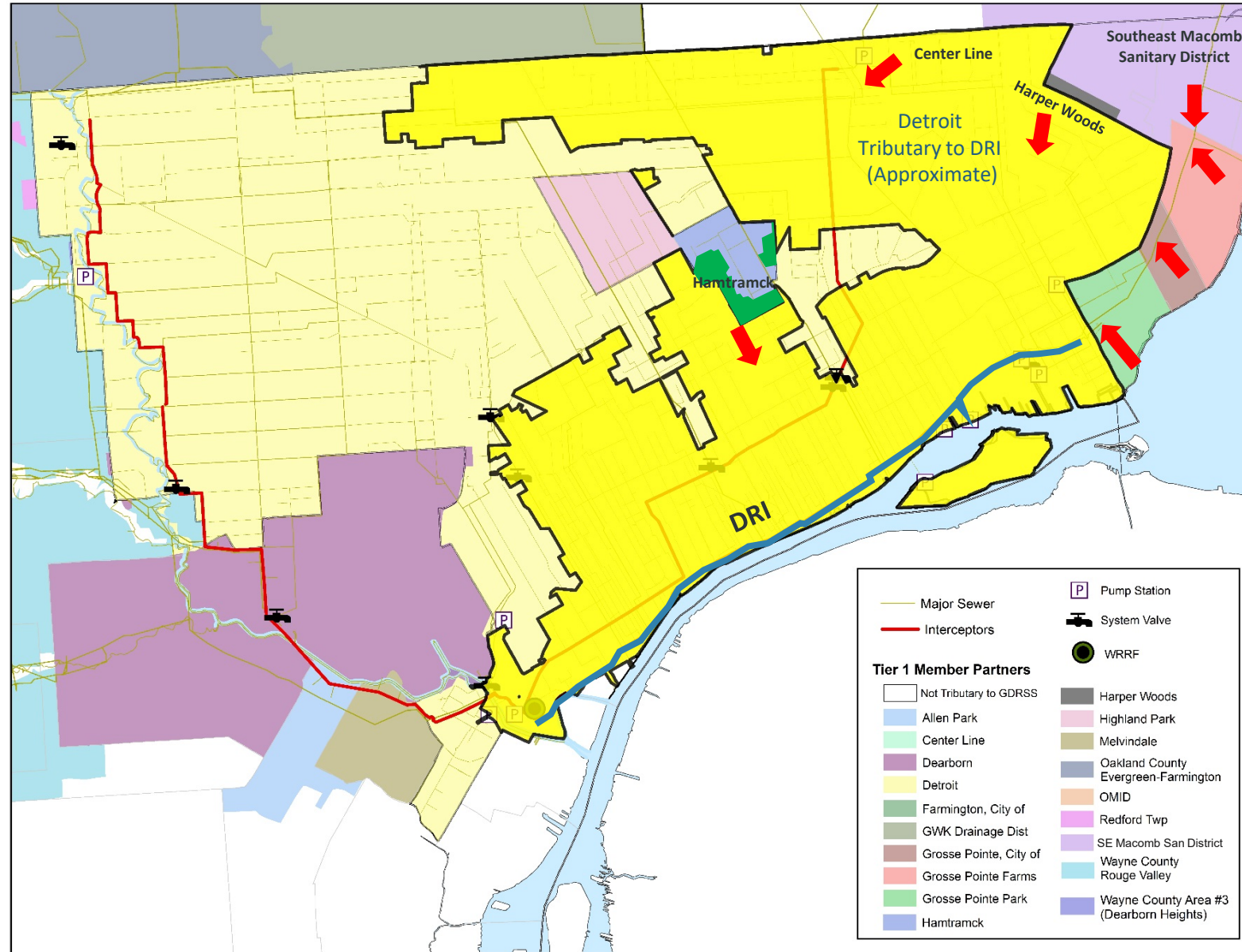
Green area within Hamtramck is tributary to NIEA

Detroit River Interceptor Tributaries



Green area within Hamtramck is tributary to DRI

Detroit River Interceptor Tributaries



Green area within Hamtramck is tributary to DRI