DWSD Capital Improvement Program Update 2024





Purpose of the DWSD CIP

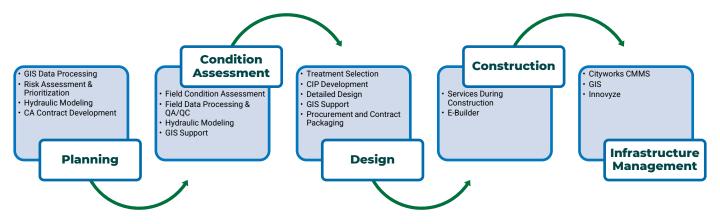


Improve level of service and quality of life by:

- Reducing water main breaks (inflow/infiltration) and non-revenue water
- Reduce costs to maintain the water and sewer infrastructure
- Reducing future investment in new CSO facilities (wet weather treatment) and having a stormwater infrastructure that provides benefit to the DWSD sewer system including partnering with adjacent communities
- Replacing 8,000 Lead Service Lines per year
- Coordinating with other agencies (DPW, DTE, MDOT) via the bi-weekly Infrastructure Coordination meeting to maximize dollars invested and minimize disruption from construction activity

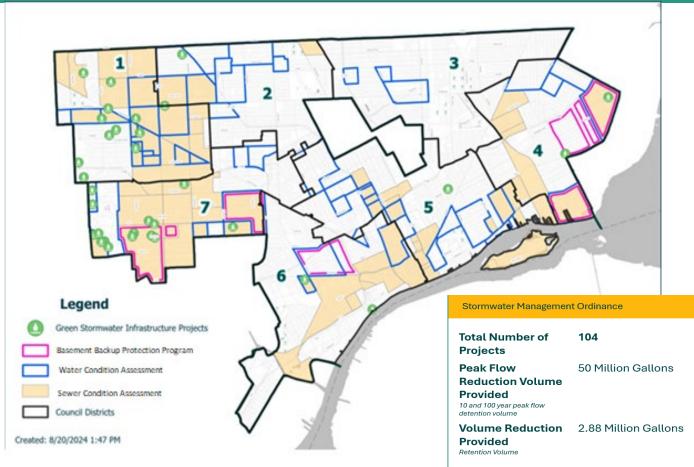
CIP Delivery Process





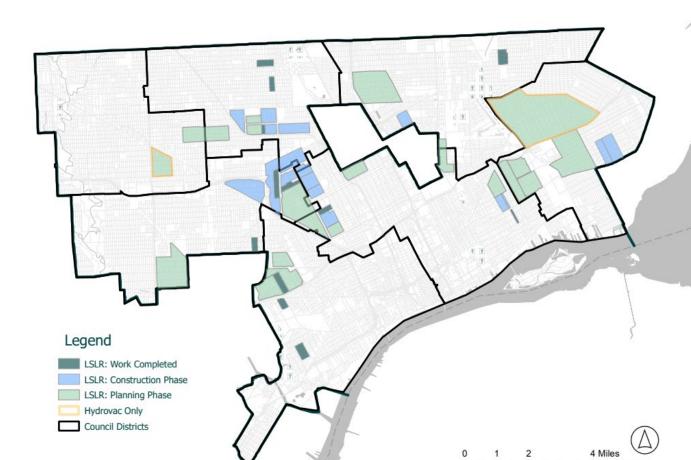
Condition Assessment and Stormwater Infrastructure





Lead Service Line Replacement





Collaboration Projects that reduces Detroit's Wet Weather Peak Flows

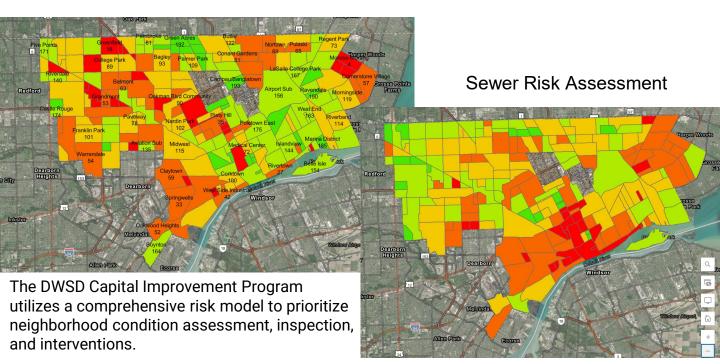




Asset Management Program



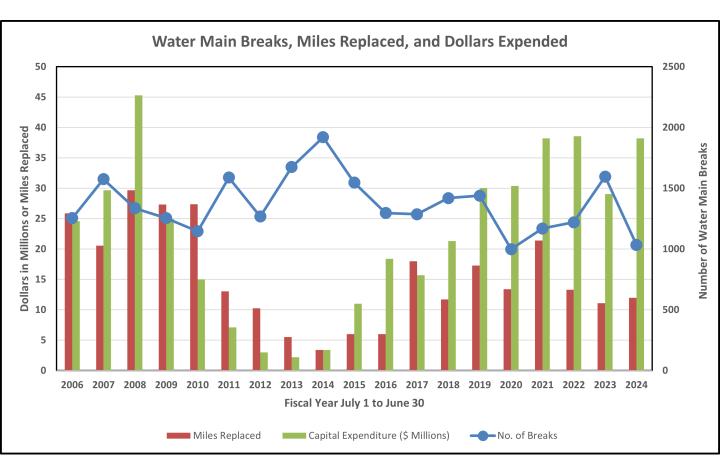
Water Risk Assessment



3 miles of condition assessment typically identify 1 mile of needed rehabilitation

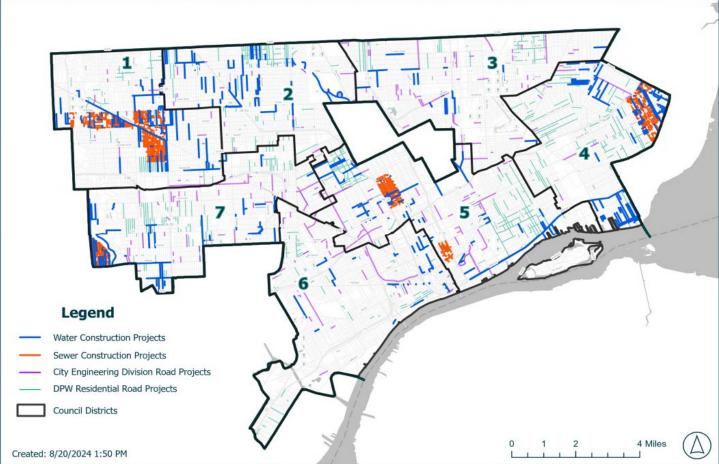
Water System Investments





Capital Improvement Projects from FY 2017 to 2024





Inspection and In-Place Rehabilitation of Emergency

Existing Sewers in the City of Detroit

DWS-968



1,000

145,111

89%

163,857

ACTIVE SEWER PROJECTS						
Contract No	Contract Name	Category	Sewer Lining Scope(Feet)	Sewer Lining Completed(Feet)	% Complete	
DWS-908	Sewer Rehabilitation and Replacement, Cornerstone Village	Improvements	52,000	43,000	83%	
DWS-916	Sewer System Improvement in Five High Priority Neighborhoods	Improvements	31,000	28,000	90%	
DWS-917	Sewer Improvements at Riverdale Neighborhood	Improvements	50,000	31,800	64%	
DWS-918	Sewer Improvements at Rosedale Park	Improvements	27,995	11,500	41%	
DWS-920	Inspection and In-Place Rehabilitation of Existing Sewers in the City of Detroit	Emergency Repair	-	27,000	-	
DWS-932	Large Diameter Sewer Improvements in Riverdale and Rosedale Park Neighborhoods	Improvements	2,862	2,811	98%	
				_		

Repair

TOTAL

ACTIVE WATER PROJECTS



Project No	Contract Amount	Type of Project Scope		% Complete
			Replace approximately 24,556 lf of water mains, 505	
WS- 732	\$12,791,611.00	Watermain Replacement	water services, and related items	31%
			Replace approximately 29,153 If water mains, 442 water	
WS- 733	\$14,446,864.00	Watermain Replacement	services, and related items	29%
			Replace approximately 31047 If water mains, 639 water	
WS- 725	\$15,460,000.00	Watermain Replacement	services, and related items	0%
			Replace approximately 32,108 If water mains, 603 water	
WS- 738	\$14,984,817.20	Watermain Replacement	services, and related items	0%
WS- 735	\$24,702,600.00	Lead Water Service Line Replacement	Replace approximately 2,500 full lead water services	82%
VV3- 733	\$24,702,600.00	Lead Water Service Line	Replace approximately 2,300 full lead water services	0270
WS-737A	\$11,250,000.00	Replacement	Replace approximately 1,092 full lead water services	62%
		Lead Water Service Line		
WS-737B	\$11,250,000.00	Replacement	Replace approximately 1,092 full lead water services	54%
WS-737C	\$11,250,000.00	Lead Water Service Line Replacement	Replace approximately 1,092 full lead water services	76%
	, , , , , , , , , , , , , , , , , , , ,	Lead Water Service Line	, , , , , , , , , , , , , , , , , , ,	
WS-737D	\$11,250,000.00	Replacement	Replace approximately 1,092 full lead water services	29%
		Lead Water Service Line		
WS-739A	\$2,000,000.00	Replacement	Replace approximately 186 full lead water services	0%
WS-737B	\$1,000,000.00	Lead Water Service Line Replacement	Replace approximately 93 full lead water services	0%
VV3-7370	71,000,000.00	Lead Water Service Line	Replace approximately 33 fail lead water services	070
WS-737C	\$2,000,000.00	Replacement	Replace approximately 186 full lead water services	0%

Questions

- Reducing the impact of Likelihood of Failure
- Mitigating against Consequence of Failure
- A Visible Return on Investment for Building Neighborhood Resiliency