

Grants and Collaboration

Presentation to Board of Water Commissioners
September 6, 2023



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Goals for DWSD Grants and Collaboration

- DWSD pursues grants to supplement its typical annual capital improvement program (CIP).
- Grants allow DWSD to explore different ways to improve infrastructure; some of which allow DWSD to be industry leaders, innovative and collaborative.
- Grants on occasion allow for community enhancements which are typically not permissible when using rate dollars.
- These funding opportunities often generate creative thinking and encourage external collaboration as opposed to traditional ways of performing CIP projects.



Drinking Water Grants



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Drinking Water Grants: Statement of Need

Lead Service Lines: Detroit has an estimated 80,000 lead service lines that require replacement within the next 20 years. DWSD has been aggressive in securing grants to advance replacement work city-wide.

Water Main: The majority of Detroit's 2,700 miles of water main are in excess of 100-years of age. DWSD has been aggressive in utilizing loans and grants to reduce costs to ratepayers.



Drinking Water Grants & State Revolving Fund

Secured – Lead Service Lines

- **EGLE Drinking Water Asset Management Plan (WS-723) \$154K** to improve DWSD service lines inventories which refines estimates of future work
- **EPA \$5M WIIN Grant (2023)** for lead service line replacement by DWSD Crews
- **EGLE ARPA \$75M** for lead service line replacement – neighborhood-by-neighborhood for vulnerable populations and first \$25M contracted

Secured – Water Main with Lead Service Lines

- **EGLE ARPA Grant \$15.73M (WS-732)** for various water main and Lead Service Line replacement on various streets west of Livernois
- **EGLE ARPA Grant \$17.26M (WS-733)** for various water main and Lead Service Line replacement on various streets east of Livernois

Sewer and Stormwater Grants



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Sewer and Stormwater Grants: Statement of Need

Improving Capacity: Prior studies by DWSD and GLWA have identified areas where combined sewer system alterations will help improve sewer function.

Reducing Risk: In areas where large capacity improvements are not cost effective, risk reduction can be realized at the resident level.

Resiliency: DWSD is studying the affects of extreme wet weather events and the impacts of future large-scale projects on neighborhoods.



Sewer Grants

Allocated, Waiting Approval

- **HUD Disaster Recovery \$40M** for flood and sewage backup mitigation following June 25-26, 2021 flooding – may increase to \$80M

Applied

- **MI State Police ORG3785 Safeguarding Tomorrow Through Ongoing Risk Mitigation Revolving Loan Fund Program \$10M** to upsize certain sewer segments to reduce combined sewer system surcharging near the Conner sewer
- **U.S. Department of Homeland Security HMGP \$1.9M** to support Basement Back-Up Mitigation efforts in Jefferson Chalmers neighborhood
- **U.S. Department of Homeland Security HMGP \$21M** to conduct engineering, environmental, feasibility and/or benefit cost analyses for the Fischer Sewer improvements project
- **U.S. Department of Homeland Security HMGP \$13.4M** to support the Design and Planning of the Near Eastside Sewer improvements.
- **U.S. Department of Homeland Security HMGP \$9.4M** to conduct engineering, environmental, feasibility and/or benefit cost analyses for East English Village Sewer improvements project
- **FEMA BRIC \$11.3 grant** for upsizing sewers in Jefferson Chalmers – approval expected by September
- **FEMA HMGP \$3.2M grant** for Basement Backup Protection Program – expect response by Fall 2023
- **MSP Storm \$10M grant** for the Annsbury & Norcross Village Stormwater Improvements Project

Stormwater Grants and Regional Collaboration

Secured

- **GLWA Capital Contribution Agreement (\$31.6M)** to complete neighborhood drainage improvements and Green Stormwater Infrastructure (GSI) feature in Rouge Park

Fenkell Stormwater Projects

- **USFWS - Great Lakes Restorative Initiative: Forest Restoration \$300K**
- **EPA - Great Lakes Restorative Initiative – Shoreline Cities \$600K**
- **EGLE - Non-point Source (319) Grant \$429K**
- **NFWF - Southeast Michigan Resiliency \$300K**
- **EGLE State High Water Infrastructure Grant Program \$480K** - East Side Resiliency Planning Project

Applied

- **EGLE Clean Water State Revolving Fund \$80M** for four westside stormwater projects – expect approval by September
 - Schoolcraft – North and South
 - West Chicago – North and South
- **FEMA - Building Resilience in Communities (BRIC) \$900K Planning**
 - McNichols West
 - McNichols East
- **NFWF – National Coastal Resilience Fund - East Side Detroit Resiliency Plan - \$540K**

McNichols West*
FEMA BRIC \$500K

McNichols East*
FEMA BRIC \$400K

East Side Resiliency
EGL E Grant: \$480K

Schoolcraft
(North/South)*
CWSRF \$39M

West Chicago
(North/South)*
CWSRF \$37M

Far West
EFSDS \$32M

Fenkell - GLRI Shoreline
EPA \$600K

Fenkell - Non Point
Source
EGL \$429K

Fenkell - Resiliency
NFWF \$300K

Fenkell - GLRI Forest
USFS \$300K

Stormwater Projects DWSD External Funding

Planning

Construction

**Denotes project with grant funding under review*

External Collaboration



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MDOT Coordination and Collaboration



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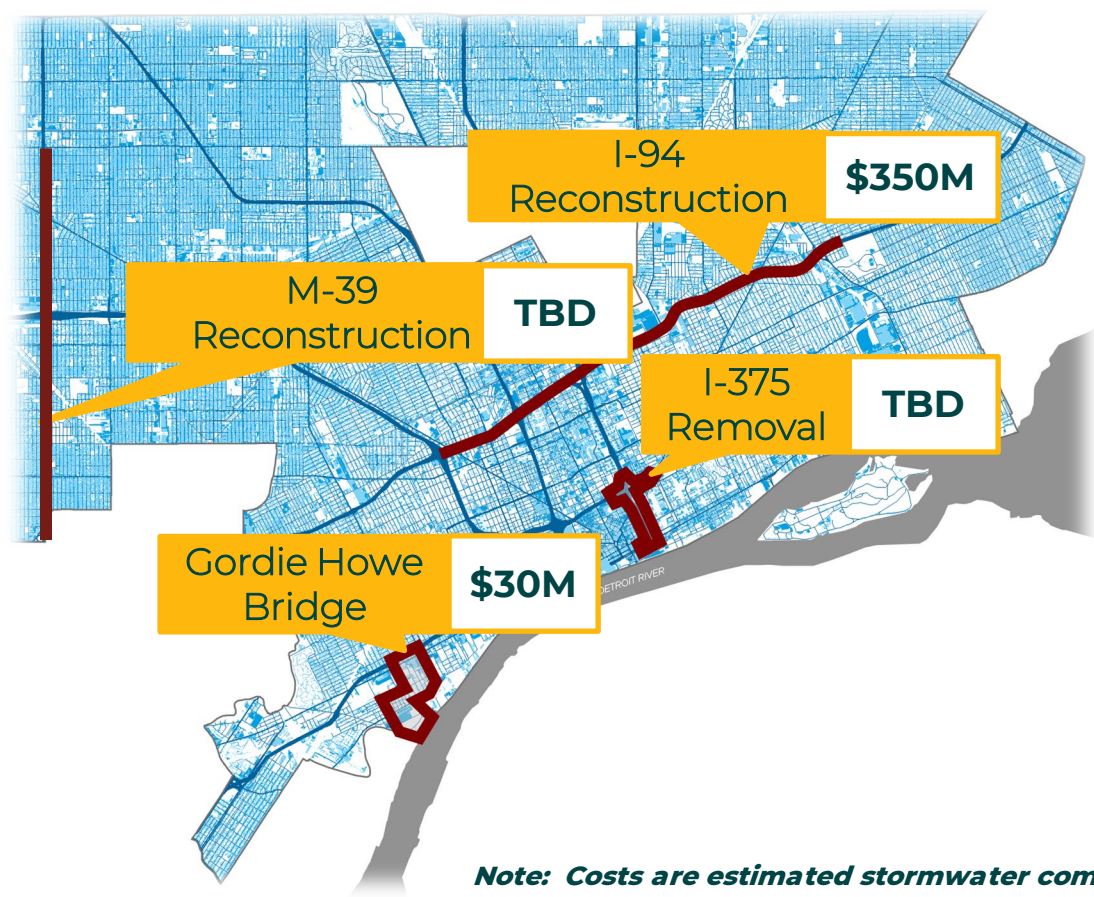
External Collaboration

- DWSD appreciates MDOT recognizing the value of including stormwater management in its plans.
- The freeway projects will utilize existing outfalls to the Detroit River to remove 100s of acres of drainage area from the combined sewer system.
- Projects will manage 100s of millions of gallons annually in accordance with the ordinance.
- Improvements include deep storage tunnels, surface detention and green infrastructure.

**Conceptual rendering of I-375
Freeway Removal Project**



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DWSD/MDOT COLLABORATION PROJECTS

Key to DWSD cSuccess

1. Background planning documents to help identify future and unfunded projects:
 1. GLWA Wastewater Master Plan
 2. GLWA/DWSD NPDES Permit
 3. DWSD's high-resolution hydraulic model of the entire city to identify potential flooding issues.
 4. SEMCOG Southeast Michigan Flooding Risk Tool
2. Grant Application Strategy
 1. Some applications can be effort intensive. DWSD has developed a process to vet grant opportunities and organize the application effort.
 2. Outreach to community leaders to support grant applications through support letters and advocacy
 3. Strategizing with City on which grants to pursue (BRIC especially)
 4. Collaborating with the Mayor's office for application support
3. Allocating local match to boost overall scoring

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