

**COMMISSION FILE NO:** 23-155-12 **DATE INTRODUCED:** December 4, 2023

**INTRODUCED BY:** Executive Director (Signature on File in the Office of the Commission)

**REFERRED BY COMMISSION CHAIRPERSON TO:** Operations Committee

**RELATING TO:** Approval of Funding Agreement M10005MI09 Under Project M10005, 2023 City of Milwaukee Private Property Infiltration and Inflow Reduction Project

**SUMMARY:**

The Commission is requested to authorize the Executive Director to execute on behalf of the District Funding Agreement M10005MI09 in the amount of \$999,000 for work outlined in Work Plan M10005MI09 as submitted by the City of Milwaukee (City) under Project M10005, Private Property Infiltration and Inflow (PPII) Reduction Program. Including Funding Agreement M10005MI09, the City has obligated 34% of the funding available to the City through 2023 in the PPII Program.

Through compliance testing for the Wisconsin Pollutant Discharge Elimination System (WPDES) permit held by the City, 50 properties have been identified for full sanitary sewer lateral replacement in 11 sewersheds throughout the City.

The primary objective of the project is to reduce wet weather sanitary flows by reducing infiltration and inflow from private property sources.

**ATTACHMENTS:** **BACKGROUND** ☒ **KEY ISSUES** ☐ **RESOLUTION** ☒  
**FISCAL NOTE** ☒ **S/W/MBE** ☐ **OTHER** ☐ \_\_\_\_\_

*OP\_Milwaukee\_M10005MI09\_II\_Reduction\_Project\_legislative\_file.docx*  
10-31-23

**COMMITTEE ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMISSION ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

## **BACKGROUND**

### **Approval of Funding Agreement M10005MI09 Under Project M10005, 2023 City of Milwaukee Private Property Infiltration and Inflow Reduction Project**

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Through stormwater sampling and analysis as required by the Wisconsin Department of Natural Resources through the City's WPDES permit, owners of 50 private residential properties have been notified that their sanitary lateral requires repair or replacement. The properties are identified through City dye water testing that demonstrates that the laterals are contributing sanitary flow to the storm sewer. The laterals are assumed to be inversely contributing clear water to the sanitary sewer during wet weather and high groundwater conditions. The properties chosen for this project are owner-occupied single- or two-family homes that have been unable to complete the repairs on their own. There are eight wet weather sanitary bypass pumping stations within the areas where the 50 properties reside. Between 2015 and 2021, there have been a total of 333 basement backups in the project areas. The 10 City sewersheds reside in nine District metersheds that have a mix of Chapter 3 wet weather compliance status (noncompliant, compliant, not analyzed).

The scope of work will include the full replacement of the sanitary lateral from the public sewer connection to the first under-house plumbing connection. The laterals will be replaced through open cut excavation or pipe bursting depending on the preference of the property owner and individual property site conditions. Since the existing sanitary lateral and water service line are typically found in the same trench, replacement of known lead water service lines (LWSL) is proactively included in the project scope. The primary objective of the project is to reduce infiltration and inflow in the sanitary system. Secondary benefits include increasing water quality in the Menomonee River watershed and bringing the 50 homes within compliance with the City stormwater quality and sanitary sewer regulations.

The 50 homeowners have already been informed of the repair orders, and that the repairs will be completed through the project. The project is anticipated to be publicly bid in May 2024 with construction to start in September 2024. Completion of the work is anticipated by December 2024.

The total project cost is estimated to be \$1.1 Million. Milwaukee Water Works is funding the public side of the LWSL replacement. The City Department of Public Works will fund engineering and public outreach. Property owners will be assessed \$1,592 each for the private side of LWSL replacement. The District will fund the balance of the project, including the sanitary lateral replacement and the balance of the private LWSL replacement.

Including this work plan, the City has obligated 34% (\$999,000/\$2,965,523) of the funding available to the City through 2023 in the PPII Program.

## **RESOLUTION**

Approval of Funding Agreement M10005MI09 Under Project M10005, 2023 City of Milwaukee Private Property Infiltration and Inflow Reduction Project

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized and directed to execute on behalf of the District Funding Agreement M10005MI09 in the amount of \$999,000 for work outlined in Work Plan M10005MI09 as submitted by the City of Milwaukee under Project M10005, Private Property Infiltration and Inflow Program.