

## Program 8056 – Meter Improvements



Photo of typical flow meter

### Description

This program provides funding to upgrade ES's ability to measure flows for billing, operational, and planning purposes and standardize meter equipment at similar facilities. Meter improvements include meter rehabilitation or replacement, planning meter installation, and new meter installation.

### Purpose and justification

Accurate flow metering is the basis of the ES's billing system. It is essential that our customers trust the reliability and accuracy of the flow metering system. The project provides a systematic approach for capital improvements to the flow metering system. Increases in flow, greater emphasis on capturing peak flows stemming from ES's infiltration/inflow program, normal facility rehabilitation needs, and the need for additional flow metering locations for system planning purposes are driving this meter improvements project.

### Program location

The active projects within this program are in the following Council districts: All

### Active projects in program

Project Number	Project Title
805600	Meter Improvements (Parent Project)
805603	Flow Meter Program Support
805636	Replacement Meter Vault M228

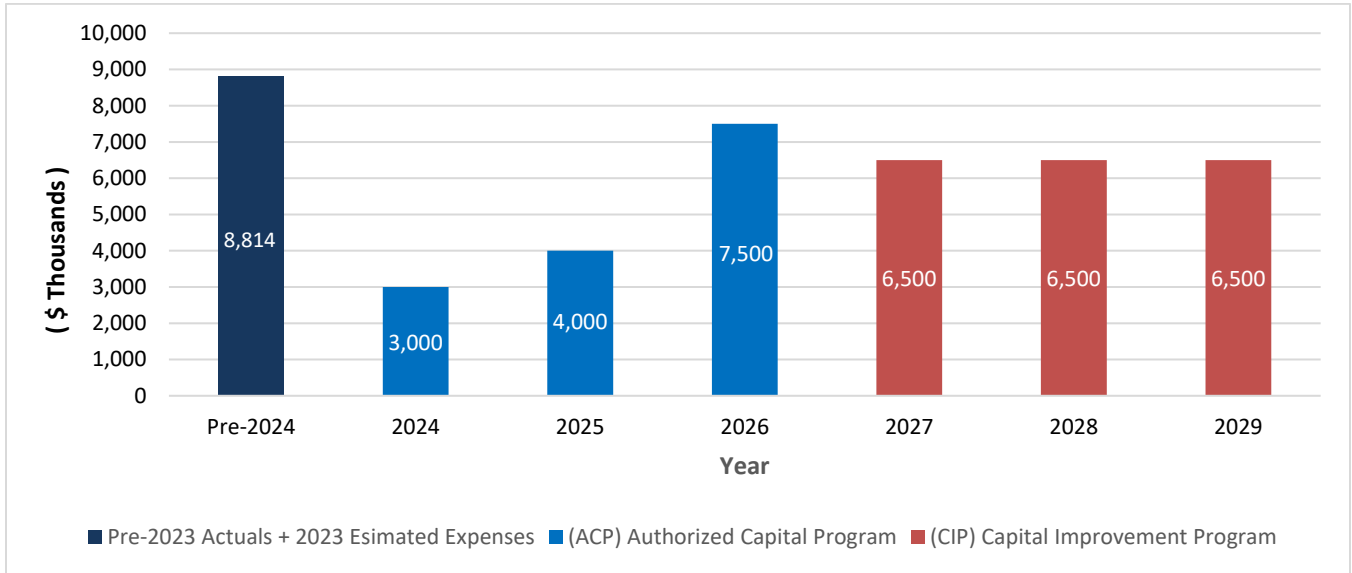
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### Environmental Services 2024 through 2029 Capital Program

- Authorized Capital Program (ACP): \$23,314,339
- Capital Improvement Plan (CIP): \$19,500,000

### Estimated program cash flow from 2024 through 2029

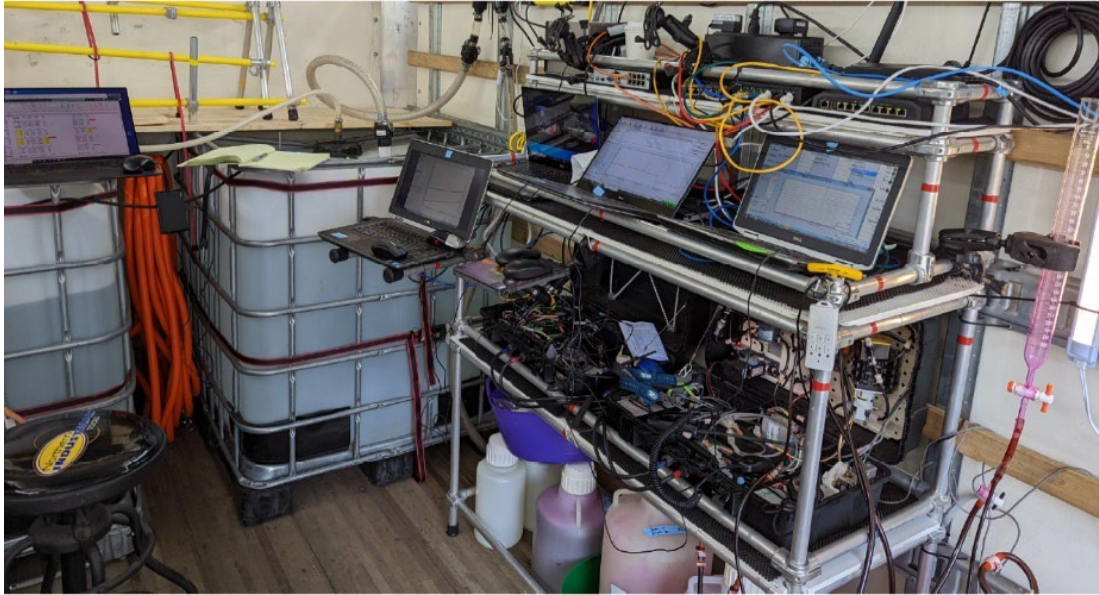
Note: the ACP is the total amount of all past and present authorizations including pre-2024 expenses.



**Flow Meter Program Support**  
Program family 8056

**Project #805603**

Project location: Council districts #1 to 16, regional project



Dilution dye testing mobile laboratory for verification and calibration of ES Flow meters.

**Project type**

Condition Assessment and Study

**Objectives**

Asset Preservation

**Scope**

Perform annual flow meter calibration tests to verify accuracies.

**Project need**

The ES cost allocation program relies extensively on the performance and accuracy of wastewater flow meters for billing, and many meters have never had their accuracies tested.

**Project schedule:**



Planning: 2020 through 2025



Design: N/A

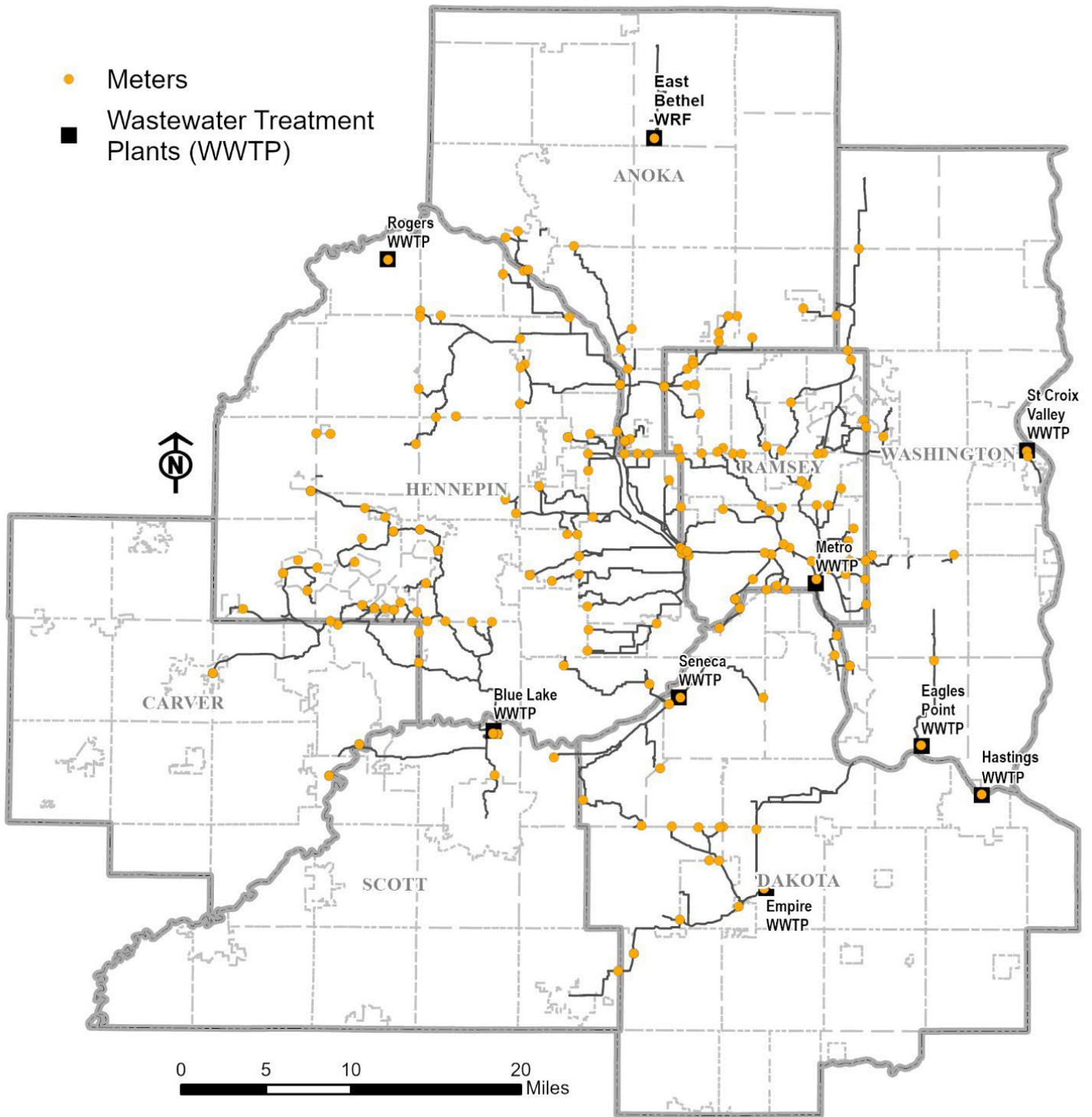


Construction: N/A

**Financial analysis**

2024 cash flow:	\$500,000
Current ACP:	\$2,920,000
2024 through 2029 cash flow:	\$3,000,000
Total project cost:	\$4,920,000

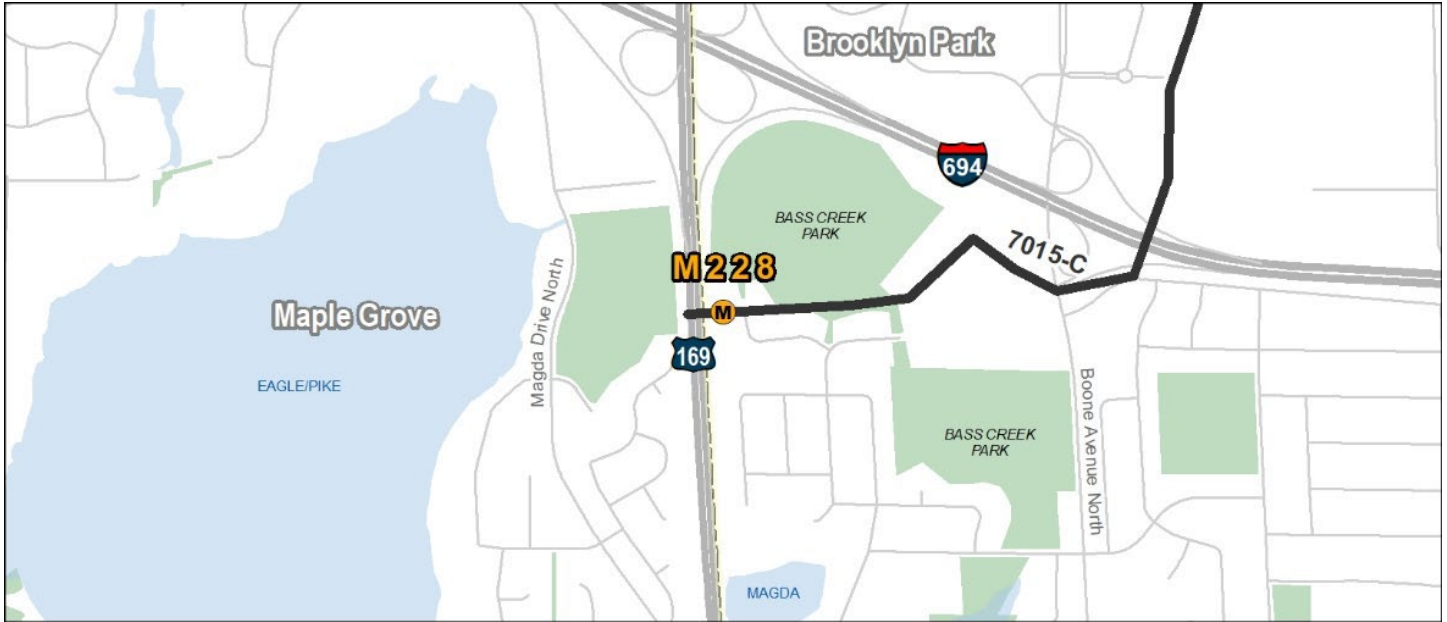
# MCES Project 805603



**Replacement Meter Vault M228**  
Program family 8056

Project #805636

Project location: Council district #2, City of Brooklyn Park



Project #805636 location near Bass Creek Park in Brooklyn Park

**Project type**

Meter Improvements

**Objectives**

Asset Preservation

**Scope**

Replace existing Meter M228.

**Project need**

Replace and update meter due to corrosion and difficult access. Meter is important to ensure accuracy of cost distribution among communities.

**Project schedule:**



Planning: 2019



Design: 2020 through 2023



Construction: 2023 through 2024

**Financial analysis**

2024 cash flow:	\$2,000,000
Current ACP:	\$8,002,000
2024 through 2029 cash flow:	\$7,000,000
Total project cost:	\$8,002,000