Program 8056 – Meter Improvements

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

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Project Title</th>
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<tbody>
<tr>
<td>805600</td>
<td>Meter Improvements (Parent Project)</td>
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<tr>
<td>805603</td>
<td>Flow Meter Program Support</td>
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<tr>
<td>805636</td>
<td>Replacement Meter Vault M228</td>
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</tbody>
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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 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
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:

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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