Program 8062 Metro WWTP Solids Improvements



Description:

This program provides funding for planning and implementation of improvements to wastewater solids processing facilities at the Metropolitan Wastewater Treatment Plant (Metro WWTP).

Purpose and Justification:

The program provides for planning and implementation of projects to address capacity and renewal needs for continued, reliable and sustainable wastewater solids processing at the Metro WWTP through the year 2050.

Program Location:

The active projects within this program are in the following Council Districts: 13

Active Projects in Program:

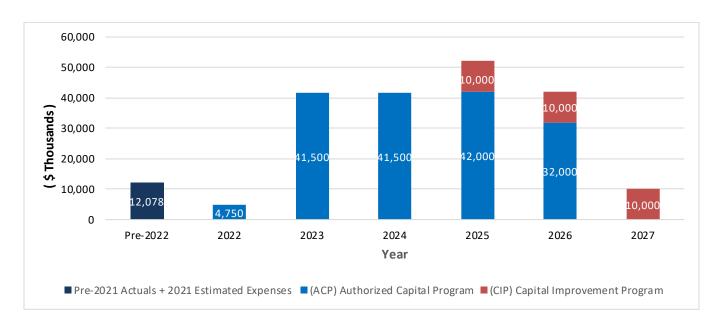
Project Number	Project Title
806210	Metro WWTP Solids Management Improvements Facility Plan
806230	Metro WWTP Fluid Bed Reactor 4
806240	Metro WWTP Renewal of Fluid Bed Reactors 1, 2 & 3

MCES 2022 - 2027 Capital Program:

Authorized Capital Program (ACP)
\$173,828,000

Capital Improvement Plan (CIP)
\$30,000,000

Estimated Program Cash Flow 2022 - 2027:



Note: The ACP is the total amount of all past and present authorizations including Pre-2022 Expenses.

Program Family: 8062 Project # 806210

Metro WWTP Solids Management Improvements Facility Plan

Project Location:

Council District # 13

City of Saint Paul

Metro WWTP



PROJECT TYPE: Plant Improvements

OBJECTIVES: Preservation and Expansion

CUSTOMER LEVEL OF SERVICE: Comply with Permits, Minimize Impacts, Lead by Example, Be A Good Neighbor,

Optimize Budget Plan, and Preserve Assets

SCOPE: Develop a facility plan for Council approval. Conduct planning activities

necessary to support facility plan development: evaluate current and future wastewater solids production, evaluate air emissions, assess existing solids

treatment facilities, develop and evaluate alternatives. Identify the

recommended alternative(s) and the implementation plan.

Develop and execute a communications plan for internal and external outreach,

including a public hearing for facility plan review.

PROJECT NEED: The Metro WWTP needs additional solids treatment capacity to preserve existing

wastewater infrastructure and to serve regional population growth.

PROJECT SCHEDULE



FINANCIAL ANALYSIS

2022 Cash Flow	Current ACP	2022 – 2027 Cash Flow	Total Project Cost
\$500,000	\$4,287,546	\$500,000	\$4,287,546

Program Family: 8062 Project # 806230

Metro WWTP Fluid Bed Reactor 4

Project Location:

Council District # 13

City of Saint Paul

Metro WWTP



PROJECT TYPE: Plants

OBJECTIVES: Preservation and Expansion

CUSTOMERLEVELOFSERVICE: Meet Capacity Need and Preserve Assets

SCOPE: Expand the Metro WWTP solids management building and install a fourth

incinerator train next to the existing three. The fourth train will include energy

recovery, air pollution control, and related solids processing equipment.

PROJECT NEED: The Metro WWTP needs additional solids treatment capacity to preserve existing

wastewater infrastructure and to serve regional population growth through the

year 2050.

PROJECT SCHEDULE



FINANCIAL ANALYSIS

2022 Cash Flow	Current ACP	2022 – 2027 Cash Flow	Total Project Cost
\$2,500,000	\$155,000,000	\$152,500,000	\$155,000,000

Program Family: 8062 Project # 806240

Metro WWTP Renewal of Fluid Bed Reactors 1,2&3

Project Location:

Council District # 13

City of Saint Paul

Metro WWTP

















PROJECT TYPE: Plants

OBJECTIVES: Preservation and Improvement

CUSTOMER LEVEL OF SERVICE: Communicate Information and Preserve Assets

SCOPE: Implement renewal and level of service improvements (e.g., increased

reliability, flexibility, operability, maintainability) to the three existing fluid bed

reactors and associated solids treatment facilities.

PROJECT NEED: In 2025, the existing incinerators will be 20 years old and in need of major renewal

work to extend service life and to recover capacity.

PROJECT SCHEDULE



Planning





N/A

Design 2022-2024 Construction 2024-2027

FINANCIAL ANALYSIS

2022 Cash Flow	Current ACP	2022 – 2027 Cash Flow	Total Project Cost
\$0	\$0	\$30,000,000	\$32,000,000