

Program 8090 – Interceptor Rehabilitation Program



Vactor truck used to clean debris from interceptors

Description

This program includes miscellaneous projects to rehabilitate failing facilities, address inflow and infiltration (I/I) sources, and address general needs of the interceptor system not programmed into a region- or facility-specific program. This program also includes additional condition assessment work to complement the internal inspections work completed by Operations, odor control improvements, city coordination for street improvement projects, and office space planning and design to accommodate all staff assigned to the Regional Maintenance Facility.

Purpose and justification

Periodic condition assessments for interceptor facilities have revealed facilities requiring immediate projects. In addition, system-wide administrative and management work is needed to efficiently operate the interceptor system.

Program location

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

Active projects in program

Project Number	Project Title
809099	Funds for Future Interceptor Rehabilitation Projects (Parent Project)
809089	Special Interceptor Inspections
809095	Regional Maintenance Facility (RMF) Expansion
819011	Interceptor Chemical Odor Control
819016	Large Diameter Interceptor Cleaning – Phase 2
819019	Regional Vactor Waste Facility Improvements

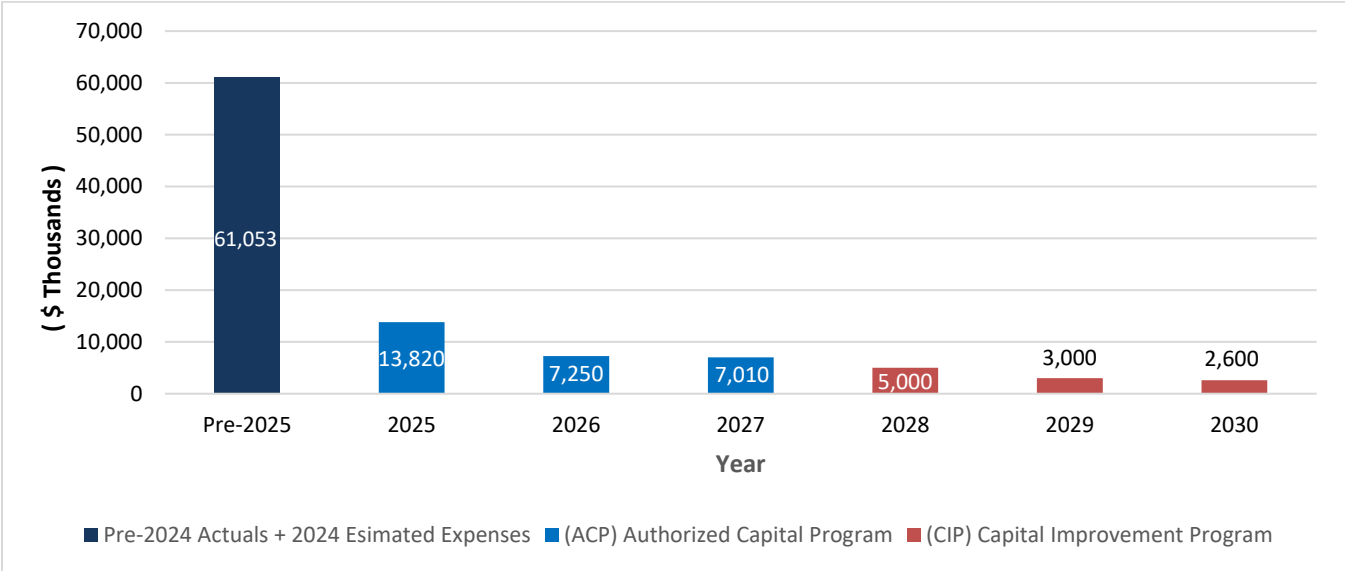
Project Number	Project Title
819022	Interceptor Rehabilitation Project 6-MO-650
819025	TH-13 – MnDOT Coordination

Environmental Services 2025 through 2030 Capital Program

- Authorized Capital Program (ACP): \$89,133,662
- Capital Improvement Plan (CIP): \$10,600,000

Estimated program cash flow from 2025 through 2030

Note: the ACP is the total amount of all past and present authorizations including pre-2025 expenses.



Project location: Project location varies across seven-county Twin Cities Metro Area



UTV equipped with tracks and CCTB equipment

Project type

Condition Assessment

Objectives

Asset Preservation

Scope

Work is identified each year during the planning for the sewer televising work that is to be completed. Work that cannot be handled in-house is contracted out. Less than 20% of the work in the last two years has been contracted.

Project need

Environmental Services maintains critical infrastructure throughout the greater metropolitan area, and not all of it is accessible by using the standard equipment that Interceptor Operations owns. Specialized equipment, permits, and coordination with the communities are needed to complete the work.



Planning: Ongoing



Design: N/A



Construction: N/A

Financial analysis

2025 cash flow:	\$75,000
Current ACP:	\$1,500,000
2025 through 2030 cash flow: Total	\$32,000,000
project cost:	\$32,000,000

Regional Maintenance Facility (RMF) Expansion

Program family 8090

Project #809095

Project location: Council district #15, City of Eagan, 3565 Kennebec Drive



Regional Maintenance Facility (RMF)

Project type

Building Improvements

Objectives

Quality Improvements

Scope

This project includes remodeling RMF to address the inadequate women’s locker room and bathrooms and expansion to include the Air Quality lab and accommodate current staffing along with planned growth. The building improvements will address ADA deficiencies. Finally, a large meeting room is being planned that could share space with other amenities for consistent use and serve as an emergency operations center.

Project need

RMF was constructed in 1986, with improvements made in 2012 for expansion to accommodate additional staff. Currently, several work areas require improvements, including Dispatch, Computer Room, and women’s facilities and improvements to comply with the ADA. Furthermore, ES is no longer going to be leasing space at Metro 94 for the Air Quality department, and RMF has been identified as a preferred location.



Planning: 2019



Design: 2019 through 2022



Construction: 2022 through 2024

Financial analysis

2025 cash flow:	\$1,800,000
Current ACP:	\$27,662,000
2025 through 2030 cash flow:	\$2,006,000
Total project cost:	\$27,662,000

Project location: Multiple lift stations and meter stations throughout the seven-county Twin Cities Metro Area



L24 Chemical Odor Control Tank and Pumping System

Project type

Odor Control Improvements

Objectives

Asset Preservation

Scope

Work will be performed under a design-build-operate contract, where Environmental Services will own all equipment (except for hydrogen sulfide monitoring equipment) and a vendor will operate, maintain, monitor, report, and supply chemicals. This includes installing chemical delivery equipment and new HDPE tanks at most sites. The work includes operation of the systems for approximately 7 years with up to two 5-year extensions.

Project need

Environmental Services currently has 16 operational chemical dosing odor control sites, including meters and lift stations. These sites are critical to reducing odor releases impacting communities and reducing corrosion within the interceptor system.



Planning: 2019 through 2020



Design: 2020 through 2022



Construction: 2022 through 2023

Financial analysis

2025 cash flow:	\$911,000
Current ACP:	\$8,186,100
2025 through 2030 cash flow:	\$1,491,000
Total project cost:	\$8,675,000

Large Diameter Interceptor Cleaning – Phase 2
Program family 8090

Project #819016

Project location: Council districts #6, 7, 8, 13, and 14, Cities of Minneapolis and Saint Paul, Neighborhoods of St. Anthony West, Prospect Park, Downtown, Marcy Holmes, North Loop, Summit Hill



Contractor's cleaning equipment layout

Project type
Interceptor Improvements

Objectives
Asset Preservation

Scope
Clean seven separate segments of Interceptors 1-MN-300, 1-MN-310, 1-MN-320, 1-SP-250, and 1-MS-100. These are deeper or larger tunnels that cannot otherwise feasibly be completed by Council Operations staff.

Project need
Interceptors need to be cleaned to restore original design capacity and minimize the potential for service interruptions.



Planning: 2020 through 2021



Design: 2020 through 2021



Construction: 2021 through 2026

Financial analysis

2025 cash flow:	\$3,500,000
Current ACP:	\$13,010,000
2025 through 2030 cash flow:	\$10,700,000
Total project cost:	\$14,667,000

Regional Vector Waste Facility Improvements
Program family 8090

Project #819019

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



Vector truck discharging into a waste receiving facility

Project type

Study

Objectives

Asset Preservation

Scope

Study the need for regional vector waste facilities. Implementation of improvements, if any, would be completed under a separate project.

Project need

Metro Plant is the only regional vector waste receiving facility in operation. Consequently, no regional vector waste disposal facility is available when river flooding closes access to the plant. Additionally, lack of a disposal facility can interrupt customers' cleaning operations and potentially result in illicit dumping into the regional conveyance system.



Planning: 2023



Design: 2024 through 2025



Construction: 2026 through 2027

Financial analysis

2025 cash flow:	\$100,000
Current ACP:	\$200,000
2025 through 2030 cash flow:	\$200,000
Total project cost:	\$300,000

Project location: Council district #3, City of Mound, Interceptor 6-MO-650



Map of Project #819022 Site 1 along Shoreline Drive in Mound

Project type

Interceptor Improvements

Objectives

Asset Preservation

Scope

Rehabilitation of 2,600 feet of 8-inch and 10-inch forcemain. Rehabilitation of about 500 feet of 24-inch reinforced concrete pipe (RCP) pipe at Auditors Road and Shoreline Drive.

Project need

Routine condition assessments have identified interceptors at this site as pipes in poor condition. 6-MO-650 has experienced recent breaks in the forcemain due to its age. There is sag in the gravity section of the pipe. Hennepin County is planning a road reconstruction project on Shoreline Drive. This project needs to be completed before the road reconstruction.



Planning: 2022



Design: 2023



Construction: 2023 through 2025

Financial analysis

2025 cash flow:	\$1,700,000
Current ACP:	\$7,580,000
2025 through 2030 cash flow:	\$1,700,000
Total project cost:	\$7,580,000

Project location: Council district #16, City of Savage



Map of Project #819025 along Highway 13 in Savage

Project type

Interceptor Improvements

Objectives

Asset Preservation

Scope

This project realigns the existing forcemain route to move it from under MnDOT’s proposed entrance ramps and frontage roads.

Project need

MnDOT’s TH-13 project includes constructing an overpass with entrance and exit ramps to improve traffic safety at the intersections of Highway 13 and Dakota Ave and Highway 13 and Yosemite Ave. The existing forcemains need to be relocated to ensure continued maintenance without disrupting the proposed highway improvements. The work will be completed as a part of a MnDOT construction contract.



Planning: 2021



Design: 2021 through 2022



Construction: 2022 through 2023

Financial analysis

2025 cash flow:	\$500,000
Current ACP:	\$4,200,000
2025 through 2030 cash flow: Total	\$500,000
project cost:	\$4,200,000