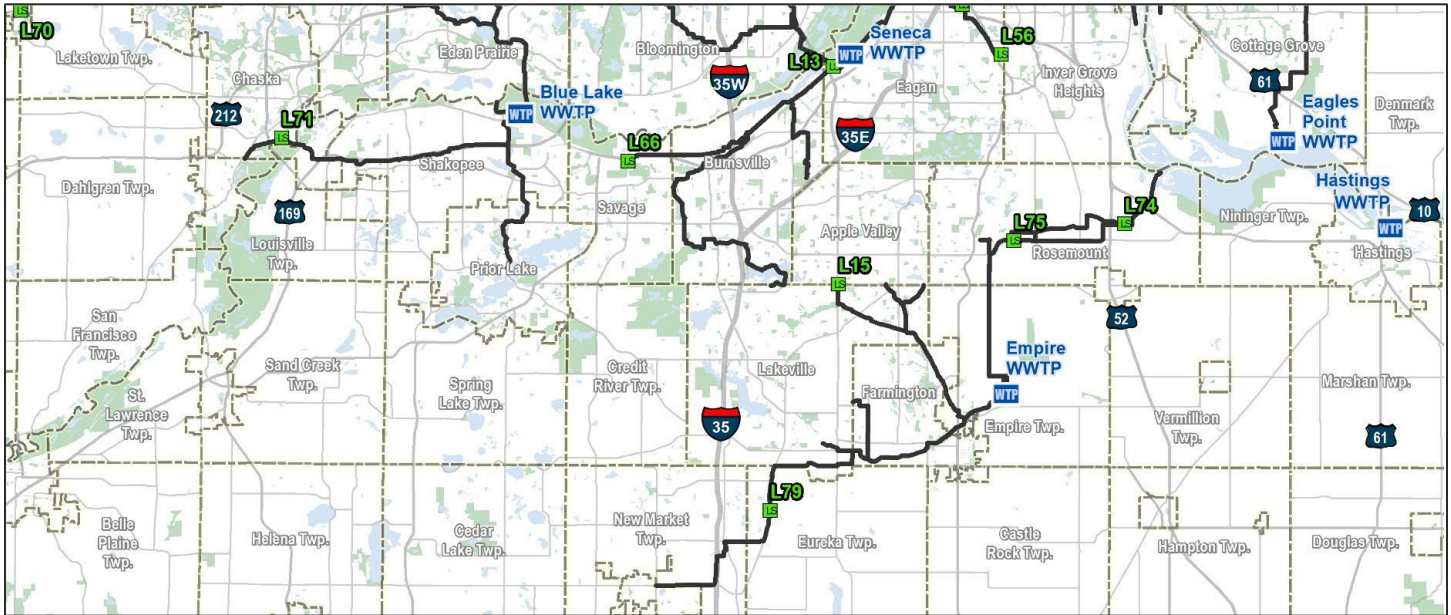


# Program 8095 – South Area Interceptor Improvements



Map showing Council lift stations and wastewater treatment facilities in the south metro area

## Description

The interceptor systems in Apple Valley, Eagan, Farmington, Lakeville, Savage, and other south area communities need rehabilitation and/or replacement as well as expansion to serve growth. This program will rehabilitate existing interceptor facilities, including gravity sewers, and forcemains, and will analyze system needs to accommodate growth.

## Purpose and justification

The program provides for improvements to the interceptor system that serves the south area. This includes work that will rehabilitate deteriorated interceptors in this area.

## Program location

The active projects within this program are in the following Council districts: 4, 15, and 16

## Active projects in program

Project Number	Project Title
809500	South Area Improvements (Parent Project)
809510	Shakopee Interceptor Odor Improvements
809520	South Area Rehabilitation (Sites 1 – 4)

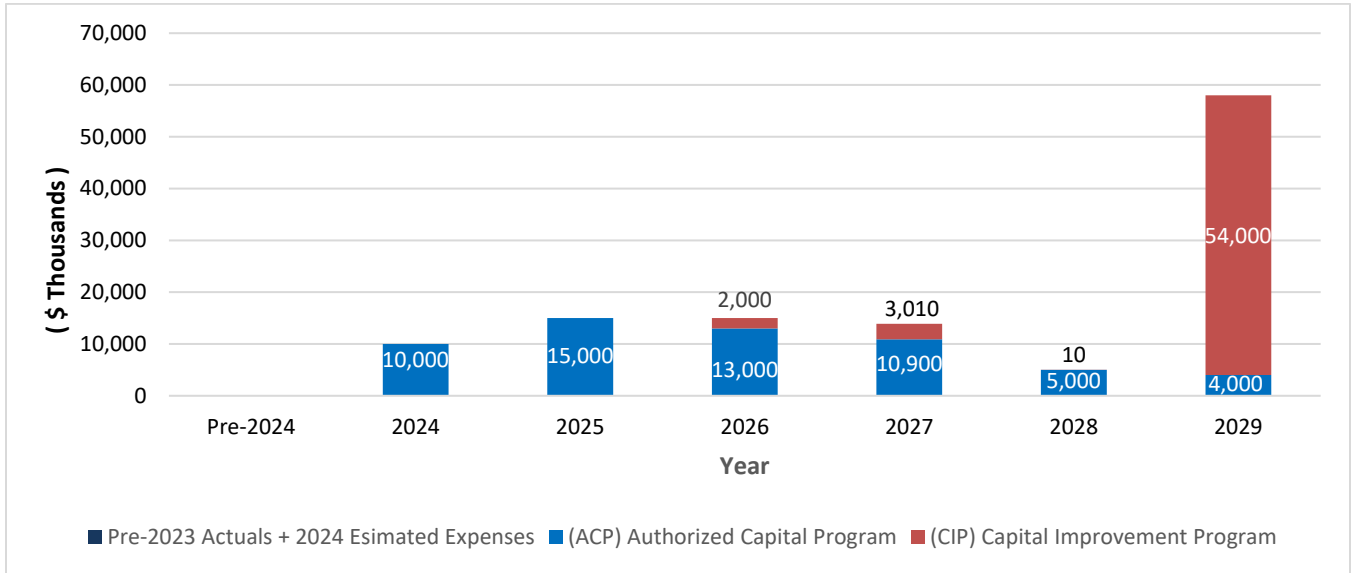
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### Environmental Services 2024 through 2029 Capital Program

- Authorized Capital Program (ACP): \$57,900,000
- Capital Improvement Plan (CIP): \$59,020,000

### 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.

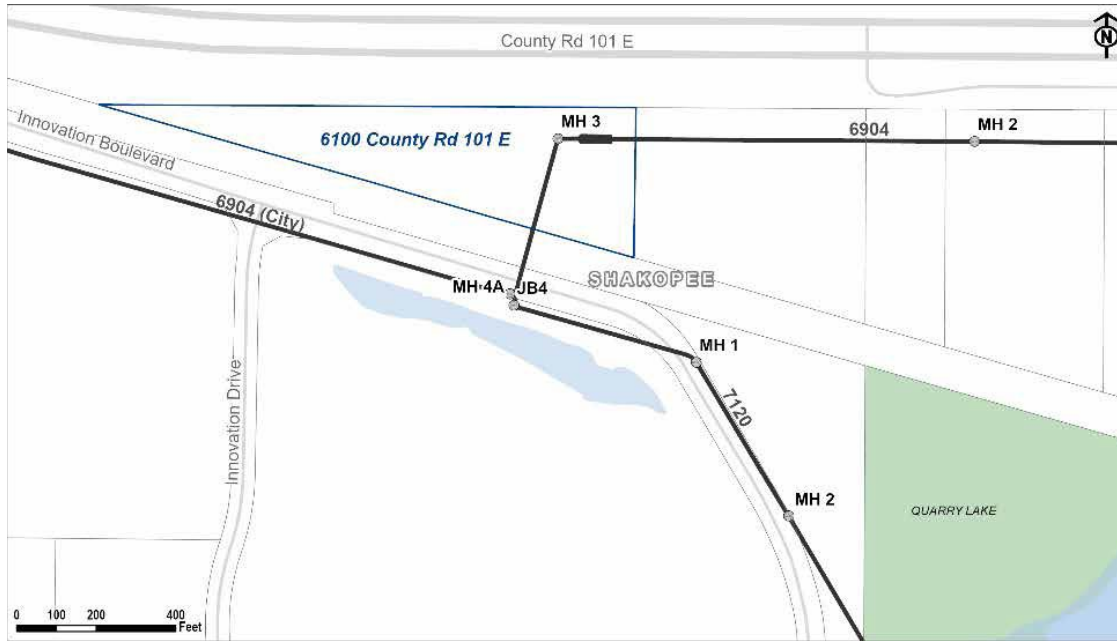


# Shakopee Interceptor Odor Improvements

Program family 8095

Project #809510

Project location: Council district #4, City of Shakopee, 9206 and 7120; pipe that runs along Highway 169



Map of project #809510 north of Innovation Boulevard and south of County Road 101 East in Shakopee.

## Project type

Interceptor Improvements

## Objectives

Asset Preservation

## Scope

Project work will include construction of ventilation and odor treatment facilities.

## Project need

Very high hydrogen sulfide generation in interceptors 7120, 9206, and 6904 has led to corrosion and odors. A siphon located along interceptor 6904 creates an air dam forcing sewer air to escape to the surface and impacting surrounding properties with odor. Hydrogen sulfide concentration within the interceptors at this location is at dangerous levels creating a safety issue for inspections and cleaning work.



Planning: 2020 through 2023



Design: 2023 through 2024



Construction: 2024 through 2026

## Financial analysis

2024 cash flow:	\$150,000
Current ACP:	\$360,000
2024 through 2029 cash flow:	\$5,300,000
Total project cost:	\$5,360,000

**South Area Rehabilitation – Interceptor 3-BV-39**  
**Program family 8095**

**Project #809520**

Project location: Council district #16, City of Burnsville



Map of Project #809520 Site 1 location from Frontage Road South across I 35-W to near Cliff Road East in Burnsville.

**Project type**

Interceptor Improvements

**Objectives**

Asset Preservation

**Scope**

Rehabilitation of 8,560 linear feet of interceptor pipe and 30 maintenance structures.

**Project need**

Routine gravity interceptor CCTV inspections have identified four interceptor sites in the South Interceptor Service Area that have that have failed pipes or pipes that will likely fail in the next 5 years. The facilities are in need of rehabilitation.



Planning: 2023



Design: 2024



Construction: 2025 through 2026

**Financial analysis**

2024 cash flow:	\$600,000
Current ACP:	\$0
2024 through 2029 cash flow:	\$16,686,000
Total project cost:	\$16,686,000

**South Area Rehabilitation – Interceptor 3-BV-35**  
**Program family 8095**

**Project #809520**

Project location: Council district #16, City of Burnsville



Map of Project #809520 Site 2 south of the eastern portion of Black Dog Lake and Site 3 along Cliff Road.

**Project type**

Interceptor Improvements

**Objectives**

Asset Preservation

**Scope**

Sites 2 and 3 of the South Area Improvements. This project includes rehabilitation of 2,740 linear feet of interceptor pipe and associated maintenance structures as needed.

**Project need**

Interceptors 3-BV-35 was constructed in 1964. CCTV inspection showed two segments to be conditions 4 and 5 and in need of rehabilitation or replacement. The upstream segment from MH 172 to MH 170 includes approximately 800 feet of 18-inch reinforced concrete pipe (RCP). The downstream segment between MH 85 and the 7030 discharge includes 1,200 feet of 12-inch vitreous clay pipe (VCP) and 740 feet of 18-inch VCP.



Planning: 2023



Design: 2024



Construction: 2025 through 2026

**Financial analysis**

2024 cash flow:	\$200,000
Current ACP:	\$0
2024 through 2029 cash flow:	\$1,907,000
Total project cost:	\$1,907,000

**South Area Rehabilitation – 7102-2 and 7111A**  
**Program family 8095**

**Project #809520**

Project location: Council district #15, City of Inver Grove Heights, 7102-2 and 7111A



Map of Project #809520 Site 4 south of Heritage Village Park in Inver Grove Heights.

**Project type**

Interceptor Improvements

**Objectives**

Asset Preservation

**Scope**

Site 4 of the South Area Improvements. This project includes rehabilitation of 555 linear feet of interceptor pipe and associated maintenance structures.

**Project need**

CCTV inspection showed the segment between the 7102-2 Turning Chamber and 7111A discharge to 7111-1 and 2 at manhole (MH) 212 to be conditions 4 and 5. The turning structure is in very poor to failing condition, as is the tail of the siphon pipes. Other structures associated with these pipes are in poor condition and will need replacement.



Planning: 2023



Design: 2024



Construction: 2025 through 2026

**Financial analysis**

2024 cash flow:	\$150,000
Current ACP:	\$0
2024 through 2029 cash flow:	\$1,907,000
Total project cost:	\$1,907,000