



PROJECT INFORMATION SHEET

St. Anthony Stormwater Research Facility

Project Need

The City of St. Anthony Village, Mississippi Water Management Organization (MWMO), City of Minneapolis, and Hennepin County are collaborating to construct an underground stormwater treatment system that will divert stormwater runoff from the City of St. Anthony Village and County State Aid Highway 88 (CSAH 88) into the research facility. This project is focused on improving the quality of stormwater runoff from approximately 600 acres of fully developed urban land use. Currently, stormwater runoff generated in the southern half of St. Anthony Village receives little or no stormwater treatment prior to being discharged through the City of Minneapolis and into the Mississippi River.



Project Description

The Research Facility will have a primary treatment component consisting of a swirl chamber and flow controls to settle and trap particulate matter, floating trash, and debris from stormwater. The facility will also have a secondary treatment system designed to remove the soluble pollutants from the stormwater. The secondary treatment system is a key component of the research site to help determine the effectiveness of available and emerging treatment technologies such as iron sand filtration, filter media with activated alumina, alum flocculation, ionization, ozone, and other future technologies. New technologies can be plugged into the system and monitored for their effectiveness at pollutant removal and cost for operation.

Project Goals

This project is anticipated to remove 63% of annual Total Suspended Solids (TSS) and 47% of the Total Phosphorus (TP) from stormwater annually. Pollutant reduction goals were targeted based on a detailed flowrate assessment using 5 years of monitoring data collected by the MWMO.

Project Location

The project will be constructed in the CSAH 88 right-of-way just south of the Northgate Office Complex and east of Coolidge Street at Lowry Avenue.

Project Cost: \$1,600,000

Completion: Fall 2015; operation by Spring 2016

Funding Sources

MWMO: \$1,600,000

City of St. Anthony and MWMO: Annual Operations and Maintenance Cost

