



ACCOMPLISHMENTS

Provided detailed design and engineering services during construction to implement MSD's Project Clear, to get the rain out of the waste water sewer system to reduce basement backups and overflows, thereby improving our local environment.

Managed 19 engineering team partner firms providing specialty services related to surveying, geotechnical, hydraulic modeling, public involvement, storage facility design and public/private Inflow/Infiltration removal. Over 30% of the contract is being performed by minority and/or women owned firms.

Developed processes and procedures to efficiently inspect over 43,000 homes for stormwater connections to the wastewater sewer. Designed over 90 MSD capital improvement projects to date. These projects allow for future elimination of 52 sewer overflows.



INNOVATIONS

Through Adaptive Management, we re-evaluated a 35,000ft. wastewater relief trunk sewer project and recommended an alternative solution using a wastewater storage facility, sewer rehabilitation, and strategic sewer relocation. This revised project reduces community disruption and allows for the elimination of overflows from three sewers.

Developed designs for underground storage projects which eliminated the need for sewer relief projects. This reduced public impacts and costs associated with sewer construction projects in backyards and along creeks.

The Burns & McDonnell projects for the Metropolitan St. Louis Sewer District are changing the infrastructure landscape of our region. These improvements will have a lasting impact on our local water quality through reducing sewer overflows by getting excessive rainwater out of the system. When possible, we are incorporating green infrastructure solutions and rehabilitating sewer utilities to reduce the construction impact to our communities. These projects will improve the environment and serve our local residents for decades to come.

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Burns & McDonnell

St. Louis Green Business Challenge – 2016 Champion Innovation Project

Client Project: Metropolitan Sewer District Stormwater Management Innovations

Project Description

Burns & McDonnell provided detailed design and engineering services during construction to implement MSD's Project Clear, to get the rain out of the wastewater sewer system and reduce basement backups and overflows, thereby improving our local environment.

Project Location

St. Louis Headquarters Campus

Project Time Frame

November 2015-February 2016

Who or what does this project impact?

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