

Harlem-Baden Flood Study

Metropolitan St. Louis Sewer District (MSD)

Location
St. Louis, Missouri

Construction Completion
2005

Construction Cost/Phase 1
\$2 million

DMA Services Provided
Civil Engineering

The overall scope of this planning project was to identify and select the best alternative to relieve flooding in the Harlem and Baden watersheds. In total, there were eight phases to this project with DMA participating in the execution of Phase One.

David Mason & Associates served as a subconsultant to Black & Veatch on this project. The following tasks were performed by David Mason & Associates.

Task One: Consisted of preparing an ArcGIS basemap which illustrated watershed boundaries, contours, street and street names and the entire storm collection system including sewers, manholes and storm inlets.

Task Two: Consisted of identifying and prioritizing flood prone areas within the watersheds by conducting interviews with City of St. Louis Alderpersons, St. Louis County officials and MSD representatives. In addition, the MSD complaint and insurance claim databases were used to identify areas of flooding problems. Once this information was collected it was developed into individual shapefiles and added to the ArcGIS basemap along with a prioritization matrix which categorized the flooding problems in terms of severity.

Task Three: Consisted of creating a Technical Memorandum which incorporated all the information gathered from interviews and MSD databases to summarize the flood prone areas within the Harlem and Baden watersheds.

DMA collected all pertinent shapefiles, geotiffs and databases from various city and county agencies and assembled into a working geodatabase for the Harlem Baden project.

