

MIDDLE BLUE RIVER BASIN SEWER CONSOLIDATION-OUTFALL 063

KANSAS CITY, MISSOURI



COMPLETION DATE
2017

COST OF SERVICES
Engineer's Estimate
\$328,000

REFERENCE
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McClure provided an engineering study, green infrastructure solutions, preliminary design and routing, and final construction contract documents for sewer pipe consolidation to eliminate 15 of 18 diversion structures in the Middle Blue River Basin. KC Water Services intends to construct consolidation piping to eliminate 15 of 18 diversion structures located in the Middle Blue River Basin to eliminate overflows at Outfall 063. Our approach involved analyzing the existing sewer system, model the sewer system, design a new wastewater and storm sewer, prepare contract construction documents and assist KC Water Services in bidding the project. This project was included in the Federal Consent Decree pertaining to the City's Overflow Control Program. McClure assisted KC Water Services to facilitate the design of the separation of combined sewers located in the Middle Blue River Basin

PROJECT HIGHLIGHTS:

- To eliminate 15 of 18 diversion structures in the basin.
- Reduce the volume of untreated wastewater released to downstream receiving waters
- Provide capacity to alleviate basement backup concerns in areas upstream.
- Sanitary flows that would have gone to the 15-inch diameter sanitary sewer are diverted during high-flow conditions to a double box combined sewer system at multiple locations