

Report to Congress for Future Water Resources Development (WRRDA 7001) Submission Package

Proposal Name: St. Louis and St. Louis County, Missouri Combined Sewer Overflows Project Authorization Increase

Submission Date: 08/06/2019

Proposal ID Number: 399a5591-4b75-44c6-8fd1-cb519af0f6ec

Purpose of Proposal: This request is to modify the existing Section 219 authority for St. Louis and St. Louis County, Missouri to raise the Federal authorization amount from \$35 million to \$70 million. This would allow for additional construction to reduce and control combined sewer overflows, protecting public health and safety by protecting water resources from this pollution source. An increase in Federal funding limit with MSD matching cost share could lead to an estimated 43,700 feet or 8 miles of separated sewers. This would enable the construction of additional Harlem Baden Relief packages, such as Harlem Baden Relief Phase IV (Hebert) - Hodiament to Cherry Trunk Sewer, which would include construction of over a mile of major sewer. The Water Resources Development Act of 2018, signed into law on October 23, 2018, contains Section 1332 entitled Report on Future Water Resources Development, and provides for a Programmatic Modification of Section 7001 of the Water Resources Reform and Development Act of 2014 (33 U.S.C. 2282d(a)) as amended- allowing for modification to an environmental infrastructure program authority. The Environmental Infrastructure Program, also known as Section 219 (of WRDA 1992, as amended), authorizes the Corps to assist non-Federal interests in carrying out water-related environmental infrastructure and resource protection and development projects. Such assistance may be in the form of technical, planning, and/or design, construction assistance for water supply and storage; treatment and distribution systems; and wastewater treatment systems, including treatment plants.

1. Administrative Details

Proposal Name: St. Louis and St. Louis County, Missouri Combined Sewer Overflows Project Authorization Increase

by Agency: Metropolitan St. Louis Sewer District

Locations: MO

POC Name:

POC Phone:

POC Email:

Date Submitted: 08/06/2019

Confirmation Number: 399a5591-4b75-44c6-8fd1-cb519af0f6ec

Supporting Documents

File Name	Date Uploaded
Letter of Support MSD St Louis City and St Louis County Mo.pdf	08/06/2019
St. Louis and St. Louis County Combined Sewer Project Area.pdf	08/06/2019

2. Provide the name of the primary sponsor and all non-Federal interests that have contributed or are expected to contribute toward the non-Federal share of the proposed feasibility study or modification.

Sponsor	Letter of Support
Metropolitan St. Louis Sewer District (Primary)	The Metropolitan St. Louis Sewer District (MSD) fully supports this project, and will continue to serve as its Local Sponsor, providing all required local match and the technical and logistic support to the Corps of Engineers needed to implement projects. The U.S. Army Corps of Engineers St. Louis District has been successfully implementing the St. Louis and St. Louis County, Missouri Combined Sewer Overflows Project for the last 15 years. This work has reduced and controlled combined sewer overflows in the region, protecting the health and safety of the public, protecting water resources, and promoting economic growth and development. This project has been very successful to date, but much work remains to be done. A combined sewer receives both sanitary sewage flows and stormwater flows. When flows exceed the capacity of the sewer, a release to the environment occurs, which is called an overflow. The combined sewer area in St. Louis and St. Louis County constitutes 87 square miles of area, with over 1,800 miles of combined sewer. Some reaches of this sewer system date back to the Civil War era. As this system which was mainly constructed during the early part of last century does not meet today's standards, the system lacks capacity to contain sewage during substantial rain events, leading to pollution releases to the environment. This project addresses this issue.

3. State if this proposal is for new feasibility study authority, a modification to an existing feasibility study authority, a modification to an existing USACE project authority, or a modification to an existing USACE Environmental Infrastructure Program authority. If it is a proposal for a modification to an existing study, project or program authority, provide the authorized water resources development feasibility study or project name.

[x] Modification to a USACE Environmental Infrastructure Program Authority

Environmental Infrastructure Program Authority Name:

St. Louis and St. Louis County, Missouri. Section 219 (f) (32) of the Water Resource Development Act (WRDA) of 1992 (Public Law 102-580), as amended by Section 502 (b) of WRDA 1999 (Public Law 106-53) and Section 5100 of WRDA 2007 (Public Law 110-114).

Description of assistance provided to date:

To date, \$28,244,330 in Federal funding assistance has been provided. This assistance has enabled the completion of five major construction packages, with a sixth package being recently awarded by the Corps.

Completed packages include the Vandeventer to Grand Sewer Rehabilitation project, the Southern Arsenal Sewer Rehabilitation project, and three phases of the Old Mill Creek Sewer Rehabilitation project. The recently awarded package will commence the Harlem Baden Relief project.

Total Federal cost of assistance provided to date:

\$28,244,330

4. Clearly articulate the specific project purpose(s) of the proposed study or modification. Demonstrate that the proposal is related to USACE mission and authorities and specifically address why additional or new authorization is needed.

This request is to modify the existing Section 219 authority for St. Louis and St. Louis County, Missouri to raise the Federal authorization amount from \$35 million to \$70 million. This would allow for additional construction to reduce and control combined sewer overflows, protecting public health and safety by protecting water resources from this pollution source. An increase in Federal funding limit with MSD matching cost share could lead to an estimated 43,700 feet or 8 miles of separated sewers. This would enable the construction of additional Harlem Baden Relief packages, such as Harlem Baden Relief Phase IV (Hebert) - Hebert to Cherry Trunk Sewer, which would include construction of over a mile of major sewer. The Water Resources Development Act of 2018, signed into law on October 23, 2018, contains Section 1332 entitled Report on Future Water Resources Development, and provides for a Programmatic Modification of Section 7001 of the Water Resources Reform and Development Act of 2014 (33 U.S.C. 2282d(a)) as amended- allowing for modification to an environmental infrastructure program authority. The Environmental Infrastructure Program, also known as Section 219 (of WRDA 1992, as amended), authorizes the Corps to assist non-Federal interests in carrying out water-related environmental infrastructure and resource protection and development projects. Such assistance may be in the form of technical, planning, and/or design, construction assistance for water supply and storage; treatment and distribution systems; and wastewater treatment systems, including treatment plants.

5. To the extent practicable, provide an estimate of the total cost, and the Federal and non-Federal share of those costs, of the proposed study and, separately, an estimate of the cost of construction or modification.

	Federal	Non-Federal	Total
Study	\$0	\$0	\$0
Construction	\$35,000,000	\$11,666,667	\$46,666,667

Explanation (if necessary)

Studies are not anticipated as part of this project. The focus of the project is delivery of construction packages providing environmental benefits.

6. To the extent practicable, describe the anticipated monetary and nonmonetary benefits of the proposal including benefits to the protection of human life and property; improvement to transportation; the national economy; the environment; or the national security interests of the United States.

MSD was established in 1954 as a public agency responsible for collecting and treating area wastewater, and for stormwater management. MSD serves a population of approximately 1.3 million people in St. Louis City and St. Louis County over an area of 520 square miles. MSD currently operates 7 treatment facilities, which handle an average of 350 million gallons of sewage per day. Overall, MSD is responsible for operating and maintaining 10,000 miles of sewers, which include over 1,800 miles of combined sewers. Much of the combined sewer system was built in the early 1900s. It was not designed to current standards, and is not able to handle flows during significant rain events. Consequences include: sewage backups into buildings such as homes, schools, and businesses; street and overland flooding; and, discharges of untreated sewage (overflows) into the Mississippi River and the River des Peres which impact the environment. The purpose of this project is to reduce and/or control combined sewer overflows. Benefits include: reduced residential and commercial property owner and insurance losses related to sewage backup damage to buildings and property; reduced disruption in traffic/transportation movements and economic losses due to flooding; reduced incidence of public sickness and disease due to reduction in untreated sewage releases to the environment; and improvement in environmental conditions in the Mississippi River and River des Peres due to reduced releases of untreated sewage. To date, the amount of sewer separation projects exceed the current authorization limit.

7. Does local support exist? If 'Yes', describe the local support for the proposal.

Yes

Local Support Description

There is very strong local support for this proposal and for MSD environmental infrastructure improvements in general. MSD has an initiative to improve water quality and alleviate many wastewater concerns in the St. Louis region, called Project Clear. This initiative over a generation will invest billions of dollars to build system improvements, repair the existing system, and construct green infrastructure. Since MSD's state charter was changed in the early 2000's to allow debt, the public has consistently voted to authorize MSD to sell bonds to finance environmental infrastructure, most recently authorizing \$900 million in bonds in 2016. The region's political and business leaders have consistently supported and continue to support these efforts. Organizations such as the City of St. Louis, the Missouri Botanical Gardens, and Great Rivers Greenway have supported and continue to support and partner with MSD.

8. Does the primary sponsor named in (2.) above have the financial ability to provide for the required cost share?

Yes

Primary Sponsor Letter of Support

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**Letter of Support MSD St Louis City and St Louis County
Mo.pdf**



**Metropolitan St. Louis
Sewer District**

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St. Louis, MO 63103-2555
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www.stlmsd.com

August 2, 2019

COL Bryan K. Sizemore
Commander, St. Louis District
U.S. Army Corps of Engineers
1222 Spruce Street
St. Louis, MO 63103-2833

RE: Request for Modification to a USACE Environmental Infrastructure Program Authority

Dear COL Sizemore:

In response to the U.S. Army Corps of Engineers (Corps) 2019 Request for Proposals under Section 7001 of the Water Resources Reform and Development Act of 2014, as amended, the Metropolitan St. Louis Sewer District (MSD) requests modification to an existing environmental infrastructure program authority.

Our request to modify an existing environmental infrastructure program authority is to increase the Federal authorization amount for the St. Louis and St. Louis County, Missouri, projects from \$35 million to \$70 million. This increase will continue Federal assistance between the Corps and MSD and enable water-related infrastructure projects. Specifically, this increase will allow for continued construction assistance to eliminate or control combined sewer overflows, and assist MSD in meeting local water resources infrastructure needs as well as resource protection of receiving waters. Construction assistance or implementation for the St. Louis and St. Louis County, Missouri projects under the environmental infrastructure program is authorized by Section 219 (f) (32) of the Water Resource Development Act (WRDA) of 1992 (Public Law 102-580), as amended by Section 502 (b) of WRDA 1999 (Public Law 106-53) and Section 5100 of WRDA 2007 (Public Law 110-114).

MSD has the financial capability to serve as the Non-Federal Sponsor and we understand our role as the Sponsor will be to provide 25 percent cost share for construction projects that would result from the modified authority.

Increasing the authorized federal funding limit would allow the Corps and MSD (as the cost-share sponsor) to construct sewer separation projects that keep waste water facilities functional, foster economic growth and development, and are a requirement to protect the health and safety of the public. Thank you for your consideration of this proposal.

Sincerely,

Brian Hoelscher, P.E.
Executive Director and CEO

Map Document

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St. Louis and St. Louis County Combined Sewer Project Area.pdf

