



**METROPOLITAN
SEWER DISTRICT**
OF GREATER CINCINNATI



METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

CAPITAL IMPROVEMENT PROGRAM (CIP)

BUDGET REQUEST 2023 - 2027

August 15, 2022

**Metropolitan Sewer District of Greater Cincinnati
Capital Budget and Capital Improvement Program
Year 2023**

Table of Contents

	<u>Page</u>
Glossary of Terms	3
Annual CIP Legislation Assumptions	4
2023 CIP Planning/Design/Easement Funding Request	5
2023 CIP Projects	8
2024 CIP	63
2025 CIP	66
2026 CIP	69
2027 CIP	71

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Glossary of Terms

Abbreviation

Description

ALW	Allowance
BOCC	Board of County Commissioners, Hamilton County, OH
CDOTE	Cincinnati Department of Transportation & Engineering
CEHRT	Chemically Enhanced High Rate Treatment
CIP	Capital Improvement Program
CON	Contingency
CSO	Combined Sewer Overflow; discharge from a combined sewer collection system.
EPA	Environmental Protection Agency
FAC	Treatment Facility
HNS	Home Numbers
HSTS	Home Sewage Treatment System
HW/DW	High Water, Dry Weather, refers to a specific type of CSO, the condition that occurs when the interceptor sewer floods from area rivers or creeks back-flowing into a CSO structure, resulting in extraneous waters that cause a combined discharge further down the collection system
ITS	IT System
LMCPR	Lower Mill Creek Partial Remedy
LMWWTP	Little Miami Waste Water Treatment Plant
MCWWTP	Mill Creek Waste Water Treatment Plant
MGD	Million Gallons per Day
MSD	Metropolitan Sewer District
MUWWTP	Muddy Creek Waste Water Treatment Plant
N/A	Not Applicable
NPDES	National Pollution Discharge Elimination System; permitting authority overseen by USEPA
O&M	Operations and Maintenance
ODOT	Ohio Department of Transportation
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
PRWWTP	Polk Run Waste Water Treatment Plant
PS	Pump Station
PSO	Pump Station Overflow
SBU	Sewer Back Up (aka WIB Water-In-Basement)
SCADA	Supervisory Control and Data Acquisition
SCWWTP	Sycamore Creek Waste Water Treatment Plant
SRC	Source Control
SSO	Sanitary Sewer Overflow; discharge from a separate sanitary sewer
STY	Study
SWR	Sewer
WWC	Wastewater Collection Division of MSD
WWIP	Wet Weather Improvement Program
WWT	Wastewater Treatment Division of MSD
WWTP	Wastewater Treatment Plant

ANNUAL CIP LEGISLATION ASSUMPTIONS

The development of this CIP was based on several key assumptions that are defined below:

Escalation, Inflation, and Labor Inflation

Per MSD's Project Costing Manual

Planning / Study

The cost for planning or study, during any stage of the planning phase. May be performed by MSD personnel and or by consultant contract.

Design

The cost for detailed design during the design phase. May be performed by MSD personnel and or by consultant contract.

Pre Construction Services

Prior to 2020, this included the cost of MSD personnel performing support functions during the planning and design phases. These costs are now captured in an Allowance for MSD Labor.

Miscellaneous Expense

The cost of all permit fees paid directly by MSD during the design phase. These costs include, but are not limited to, PTI, street opening permit, building permits, 401 permits. In addition, costs may include utility relocations and demolition if not handled during construction.

Right of Way

The cost of easement acquisition by MSD personnel, professional services for appraisal and title opinions, appropriation costs, court costs, and compensation paid to property owners for easements during the design phase.

Construction

The bid cost to construct the project as estimated by the engineer, including startup and commissioning costs if required for project.

Construction Services

The cost for construction phase professional services, as needed, including construction management, construction inspection, field engineering and other related costs.

Interest/Financing

The cost of interest charged prior to the asset being placed in service. This is only applied to projects that have a prospective borrowing, such as projects financed through OPEA low interest loan program. Most 2022 CIP Projects will proceed with bond financing, so the value is shown as \$0.

MSD Labor

The cost for MSD project planning, design and delivery related activities, including project management, construction management, construction inspection, field engineering, and other project-related personnel costs.

2023 - 2027 CIP

The schedule for the Phase 2 WWIP remains under development by the City and County in preparation for anticipated Regulatory discussions. Individual projects to be advanced are subject to change pending on-going engineering or affordability considerations. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the Projects associated with the future Phase 2 WWIP have not been included in this CIP.

Legislated Costs

Legislated costs include costs that have been previously legislated and legislation anticipated to be approved during 2023. Due to this assumption, it may be the case that some legislated costs may not have been approved at the time of drafting this document.

Cost Estimates

Project costs have been estimated and based on industry best practice and AACE International guidelines. In general, most P D E projects are considered as a Class 5 estimates based on the maturity of the scope development and have an expected accuracy range of -50% to +100%. Construction projects are based on an Engineer's Opinion of Probable Costs (OPCC) and will be reflective of the estimate class at the time of the budget update.

Project Schedules

Project schedules are established based on the use of a standard template developed for the type and size of the project. The schedules are then refined to address project specific issues or complexities, such as alternative delivery method, hydraulic physical modeling, or extensive ROW acquisition requirements. In general, the schedule templates for conveyance projects account for a typical ROW activity and duration. This is not included in most facility projects. All schedules are created and maintained in Primavera P6 and updated on a regular basis to reflect the current forecasted completion of the remaining milestones.

HRT Project Schedules

All HRT projects included herein are subject to change based on ongoing regulatory discussions related to Phase 2A of the WWIP. The schedules will be adjusted prior to finalization of the CIP.

Metropolitan Sewer District of Greater Cincinnati
Planning/Design/Easement Funding Request (Exhibit A)

Project ID	Project Type	Project Name	Project Phase(s)	P/D/E Funds Requested
10130161	PS	Muddy Creek PSU & Force Main	(Design)	\$1,696,600
10130566	FAC	Muddy Creek WWTP EHRT and Pump Station	(Design,Easement)	\$4,859,000
10132930	SWR	Wulff Run Sewer Replacement	(Planning)	\$489,500
10142950	SWR	East Branch Ohio River Interceptor Extension	(Planning,Design)	\$4,700,000
10172950	FAC	LMWWTP Electrical, Primary, and Secondary Improvements	(Design)	\$3,226,800
10172960	FAC	LMWWTP HRT Facility, Plant Pumping, and Disinfection Upgrade	(Planning)	\$872,000
10190223	ALW	Phase 2 WWIP Planning 2023	(Planning)	\$2,678,063
10190323	ALW	HSTS Elimination 2023	(Planning)	\$500,000
10199023	ALW	Program Management and Support Services 2023	(Design)	\$7,144,250
10199123	ALW	Hamilton County Utility Oversight and Coordination 2023	(Design)	\$4,713,390
10232035	SWR	CSO 541 Outfall Replacement	(Design,Easement)	\$201,800
10240640	FAC	MCWWTP Dewatering Building Improvements	(Planning)	\$2,520,000
10240765	SWR	Fyffe Avenue Sewer	(Planning)	\$94,000
10240775	SWR	Gilbert Avenue at Casino Sewer Replacement	(Easement)	\$185,700
10240785	SWR	Clifton Avenue from MLK to Howell Sewer Replacement	(Design,Easement)	\$605,374
10240795	SWR	Central to McMicken at Stark St Sewer Replacement	(Design,Easement)	\$326,000
10240845	SWR	Taft Road & McMillan Street Sewer Replacement	(Design,Easement)	\$3,052,500
10240875	SWR	Ledgewood Ave Sewer Replacement	(Design,Easement)	\$1,100,000
10241905	SRC	Congress Run Stream Restoration and Bank Stabilization	(Design)	\$296,000
10242155	SWR	Morrison Avenue Sewer Replacement	(Planning)	\$160,000
10242165	FAC	MCWWTP Disinfection and Outfall	(Design)	\$2,361,300
10242180	SWR	Winton Lake Aerial Sewer Structure and Weir Modifications	(Planning)	\$110,000
10242185	SWR	Anthony to Innes Sewer Replacement	(Planning)	\$110,000
10242190	FAC	Bold Face Pump Station	(Planning)	\$500,000
10242195	SWR	Paris Street and Kinsey Avenue	(Planning)	\$50,000
10242205	SWR	CSO 424 425 Compliance Improvements	(Planning)	\$50,000
10252025	FAC	PRWWTP Screening and Grit Process Renewal	(Planning)	\$300,000
10262015	FAC	SCWWTP Secondary Clarifier Upgrade	(Design)	\$500,000
10270007	SWR	Dry Run Area Sewers Phase 2 Contract RB	(Design)	\$30,000
10270155	SWR	Paxton Avenue Sewer Rehabilitation	(Design)	\$191,800
10270225	SWR	Elsmere Avenue from Slane to Lafayette Sewer Replacement	(Design,Easement)	\$1,104,000
10272070	SWR	Summerview Low Pressure Forcemain	(Easement)	\$26,800
10272085	SWR	Ault Park Sewer Stabilization Study	(Planning)	\$250,000
10280243	ALW	Hydraulic Modeling 2023	(Planning)	\$1,500,000
10282023	ALW	CIP Planning Projects 2023	(Planning)	\$2,249,573
10282423	ALW	Flow Monitoring 2023	(Planning)	\$2,700,000
13090000	CON	Programmatic Contingency	(Design)	\$5,000,000
13099999	ALW	MSD LABOR	(Design)	\$8,500,000
38 Planning/Design/Easement Projects in 2023				\$ 64,954,450

FY 2023 MSD CIP Funding Request
Metropolitan Sewer District of Greater Cincinnati
Estimate of Construction
Detailed Project Estimated Cost (Exhibit B)

ID#	CIP#	Project Name	Location	Explanation/Description	Legislation Type	Resolution 1	Resolution 2	Resolution 3	Current Request	WWIP	AM	Proj Start	Proj End
10180123	NA	Main Sewer Renewal Program 2023	Throughout the MSD service area	This allowance addresses the renewal, repair, and rehabilitation of existing main sewers throughout MSD's service area using trenchless technologies. The program focuses on structurally deteriorated main sewers to improve the hydraulic performance of the sewer. Building sewers are excluded. Trenchless technologies have many benefits such as; shorter duration, durable, safer, and cost effective. This program's scope will include, but not limit itself to, slip-lining, point lining, spiral wound lining, pipe bursting, carbon filament wrapping, directional drilling, jack-and-boring, Cured-in-place-pipe, and other methods. The sewer segments to be addressed under this program were identified through investigations (condition assessments) of the sewer lines and are prioritized based on their risk ranking relative to sewer's structural condition, and the likelihood and consequence of a sewer failure. The risk ranking is calculated utilizing the Gravity Sewer Asset Management System (GSAM).	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 6,437,350.00	X		Jan 2023	Dec 2023
10180223	NA	Manhole Renewal Program 2023	Throughout the MSD service area	This allowance addresses the repair, rehabilitation and replacement of structurally deteriorated manholes throughout the system. The work includes manhole repairs, rim adjustments, replacement, and chimney repairs to accommodate street paving and improvement projects. Manhole repairs, rehab and replacement projects are prioritized based on their risk ranking relative to structural condition and the likelihood and consequence of failure.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 1,042,601.00	X		Jan 2023	Dec 2023
10280823	NA	MSD Asset Inventory 2023	Throughout the MSD service area	This allowance will fund a one-time project to build-up spare replacement part inventory for MSD's most critical wastewater treatment process equipment. This project is proposed in response to sustained global and domestic supply-chain disruptions, and in recognition of the fact that MSD must transition away from just-in-time inventory management in order to comply with its permits. Asset inventory provides replacement parts and components necessary to sustain operational, regulatory, and safety levels of service throughout all MSD facilities. This allowance is important to allow MSD to operate efficiently and minimize costly downtime, and will be used to fund the purchase of assets that may be capitalized according to GASB guidance.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 4,000,000.00		X	Jan 2023	Dec 2023
10281323	NA	Prioritized Wastewater Collection System Improvements 2023	Throughout the MSD service area	This allowance is intended to repair and renew failed and/or structurally deteriorated sewer segments by responding to sudden, unexpected system failures, completing planned repairs and improvements to high-risk utility-owned assets, to remedy structurally failed privately-owned active building sewers located within the right-of-way, and making prioritized system improvements through construction coordination of projects. Collectively, this operational strategy will assist in achieving and maintaining acceptable levels of service at the lowest life-cycle cost.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 18,200,000.00		X	Jan 2023	Dec 2023
10280723	NA	Critical Asset Management Projects 2023	Throughout the MSD service area	This allowance provides capital resources to address a risk-based prioritized wastewater treatment expenditure that are critical to sustain operational, regulatory, and safety expected performance levels. Expenditures are identified, planned, prioritized, and executed within the allowance annual budget.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 6,427,350.00		X	Jan 2023	Dec 2023
Total									\$ 36,107,301.00				

**FY 2023 MSD CIP Funding Request
Metropolitan Sewer District of Greater Cincinnati
Estimate of Construction
Detailed Project Estimated Cost (Exhibit B)**

ID#	CIP#	Project Name	Planning	Design	Pre-Construction Services	Miscellaneous Expense	Right Of Way	Construction	Contingency	Construction Services	Interest / Financing	Total
10180123	NA	Main Sewer Renewal Program 2023	\$ -	\$ -	\$ -	\$ -	\$ -	6,437,350.00	\$ -	\$ -	\$ -	6,437,350.00
10180223	NA	Manhole Renewal Program 2023	\$ -	\$ -	\$ -	\$ -	\$ -	1,042,601.00	\$ -	\$ -	\$ -	1,042,601.00
10280823	NA	MSD Asset Inventory 2023	\$ -	\$ -	\$ -	\$ -	\$ -	4,000,000.00	\$ -	\$ -	\$ -	4,000,000.00
10281323	NA	Prioritized Wastewater Collection System Improvements 2023	\$ -	\$ -	\$ -	\$ -	\$ -	18,200,000.00	\$ -	\$ -	\$ -	18,200,000.00
10280723	NA	Critical Asset Management Projects 2023	\$ -	\$ -	\$ -	\$ -	\$ -	6,427,350.00	\$ -	\$ -	\$ -	6,427,350.00
Total											\$ 36,107,301.00	

Approved this _____ day of _____, 2022
Board of County Commissioners
Hamilton County, Ohio

Ryan Welsh, P.E.
Deputy Director, MSD
Hamilton County Sanitary Engineer
(for the purposes of the Metropolitan Sewer District of Greater Cincinnati
as authorized in the Resolution of February 28, 2007, Comm. Minutes, Vol. 305, Images 4190-4191)
City of Cincinnati Department of Sewers

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Project ID	Project Type	Project Name	Project Phase(s)	2023 Total Requested	Total Project Cost
10130161	PS	Muddy Creek PSU & Force Main	(Design)	\$1,696,600	\$9,258,600
10130566	FAC	Muddy Creek WWTP EHRT and Pump Station	(Design,Easement)	\$4,859,000	\$171,329,369
10132930	SWR	Wulff Run Sewer Replacement	(Planning)	\$489,500	\$30,456,600
10142950	SWR	East Branch Ohio River Interceptor Extension	(Planning,Design)	\$4,700,000	\$88,700,000
10172940	SRC	Mt Washington Source Control Implementation	(Construction)	\$9,708,000	\$10,598,700
10172950	FAC	LMWWTP Electrical, Primary, and Secondary Improvements	(Design)	\$3,226,800	\$64,053,400
10172960	FAC	LMWWTP HRT Facility, Plant Pumping, and Disinfection Upgrade	(Planning)	\$872,000	\$247,399,500
10180123	ALW	Main Sewer Renewal Program 2023	(Construction)	\$6,437,350	\$6,437,350
10180223	ALW	Manhole Renewal Program 2023	(Construction)	\$1,042,601	\$1,042,601
10190223	ALW	Phase 2 WWIP Planning 2023	(Planning)	\$2,678,063	\$2,678,063
10190323	ALW	HSTS Elimination 2023	(Planning)	\$500,000	\$500,000
10199023	ALW	Program Management and Support Services 2023	(Design)	\$7,144,250	\$7,144,250
10199123	ALW	Hamilton County Utility Oversight and Coordination 2023	(Design)	\$4,713,390	\$4,713,390
10230045	SWR	Stonebridge Relief Sewer	(Construction)	\$4,302,300	\$5,350,300
10230130	SWR	Dry Weather Channel for SS 937	(Construction)	\$4,460,000	\$5,677,405
10232035	SWR	CSO 541 Outfall Replacement	(Design,Easement)	\$201,800	\$1,406,500
10240495	SWR	Wahl Terrace Sewer Replacement	(Construction)	\$891,678	\$1,172,832
10240545	SWR	Central Parkway Sewer Replacement (HN 2402)	(Construction)	\$444,000	\$644,611
10240640	FAC	MCWWTP Dewatering Building Improvements	(Planning)	\$2,520,000	\$119,433,000
10240645	FAC	WWC Maintenance Shop Improvements	(Construction)	\$1,968,529	\$3,639,477
10240735	SWR	De Votie Avenue Sewer Replacement	(Construction)	\$645,000	\$1,892,000
10240765	SWR	Fyffe Avenue Sewer	(Planning)	\$94,000	\$1,191,130
10240775	SWR	Gilbert Avenue at Casino Sewer Replacement	(Easement)	\$185,700	\$5,188,100
10240785	SWR	Clifton Avenue from MLK to Howell Sewer Replacement	(Design,Easement)	\$605,374	\$3,731,374

Project ID	Project Type	Project Name	Project Phase(s)	2023 Total Requested	Total Project Cost
10240795	SWR	Central to McMicken at Stark St Sewer Replacement	(Design,Easement)	\$326,000	\$2,377,000
10240845	SWR	Taft Road & McMillan Street Sewer Replacement	(Design,Easement)	\$3,052,500	\$11,602,500
10240875	SWR	Ledgewood Ave Sewer Replacement	(Design,Easement)	\$1,100,000	\$3,560,000
10241905	SRC	Congress Run Stream Restoration and Bank Stabilization	(Design)	\$296,000	\$2,679,000
10242155	SWR	Morrison Avenue Sewer Replacement	(Planning)	\$160,000	\$2,500,000
10242165	FAC	MCWWTP Disinfection and Outfall	(Design)	\$2,361,300	\$50,571,500
10242180	SWR	Winton Lake Aerial Sewer Structure and Weir Modifications	(Planning)	\$110,000	\$1,400,000
10242185	SWR	Anthony to Innes Sewer Replacement	(Planning)	\$110,000	\$1,400,000
10242190	FAC	Bold Face Pump Station	(Planning)	\$500,000	\$29,824,700
10242195	SWR	Paris Street and Kinsey Avenue	(Planning)	\$50,000	\$214,900
10242205	SWR	CSO 424 425 Compliance Improvements	(Planning)	\$50,000	\$240,700
10252020	FAC	PRWWTP Sludge Storage Tank with Odor Control	(Construction)	\$12,702,600	\$13,767,773
10252025	FAC	PRWWTP Screening and Grit Process Renewal	(Planning)	\$300,000	\$12,806,400
10262015	FAC	SCWWTP Secondary Clarifier Upgrade	(Design)	\$500,000	\$6,213,216
10270007	SWR	Dry Run Area Sewers Phase 2 Contract RB	(Design,Construction)	\$8,530,000	\$8,530,000
10270155	SWR	Paxton Avenue Sewer Rehabilitation	(Design)	\$191,800	\$2,674,240
10270225	SWR	Elsmere Avenue from Slane to Lafayette Sewer Replacement	(Design,Easement)	\$1,104,000	\$9,489,300
10272065	FAC	LMWWTP Flow Meter Renewal	(Construction)	\$8,367,000	\$8,997,000
10272070	SWR	Summerview Low Pressure Forcemain	(Easement)	\$26,800	\$269,535
10272085	SWR	Ault Park Sewer Stabilization Study	(Planning)	\$250,000	\$250,000
10280243	ALW	Hydraulic Modeling 2023	(Planning)	\$1,500,000	\$1,500,000
10280723	ALW	Critical Asset Management Projects 2023	(Construction)	\$6,427,350	\$6,427,350
10280823	ALW	MSD Asset Inventory 2023	(Construction)	\$4,000,000	\$4,000,000
10281323	ALW	Prioritized Wastewater Collection System Improvements 2023	(Construction)	\$18,200,000	\$18,200,000

Project ID	Project Type	Project Name	Project Phase(s)	2023 Total Requested	Total Project Cost
10282023	ALW	CIP Planning Projects 2023	(Planning)	\$2,249,573	\$2,249,573
10282423	ALW	Flow Monitoring 2023	(Planning)	\$2,700,000	\$2,700,000
13090000	CON	Programmatic Contingency	(Design)	\$5,000,000	\$38,438,000
13099999	ALW	MSD LABOR	(Design)	\$8,500,000	\$61,566,669
52 CIP Projects for 2023				\$153,050,858	\$ 1,098,087,908

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Muddy Creek PSU & Force Main

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10130161	WWIP Index #: 216	CSO(s): N/A	
Project Type: Pump Station	Project Phase: Planning	SSO(s): 676	
WWTP Basin: Muddy Creek	Sanitary Sewer No: 7060	PSO(s): 675A,692,697	
Watershed: River Road			
Municipality: City of Cincinnati			
Neighborhood: Sayler Park			

Project Description

The Muddy Creek Pump Station is a dry pit type pump station constructed in 1959. The pump station is at the downstream end of the Muddy Creek Interceptor and accepts flows from this interceptor in addition to all of the flow from the Addyston combined sewer system that is conveyed through an inverted siphon across Muddy Creek. The pump station has three horizontal direct coupled centrifugal pumps with a capacity of 9.1 MGD and a firm capacity of approximately 5.5 MGD. During wet weather, the pump station is unable to convey the high flows, which causes the pump station to overflow. The capacity issues at the pump station also prohibit new developments in the service area. The obsolete design of the pump station that was constructed in 1959 has led to decreased reliability in both wet weather and dry weather conditions. The project will evaluate replacement or elimination of the pump station based on capacity and the condition assessment information. The project is located at 7513 Gracely Drive in the Sayler Park neighborhood in the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$250,594	\$550,000	\$0	\$0	\$550,000
Design	\$390,046	\$0	\$1,600,000	\$0	\$1,600,000
Pre-Construction Services	\$380,902	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$96,586	\$0	\$96,600	\$0	\$96,600
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$4,655,468	\$0	\$0	\$5,762,000	\$5,762,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$651,766	\$0	\$0	\$1,250,000	\$1,250,000
Interest / Financing	\$105,806	\$0	\$0	\$0	\$0
Total	\$6,531,168	\$550,000	\$1,696,600	\$7,012,000	\$9,258,600

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$550,000	\$1,696,600	\$0	\$0	\$0	\$0	\$2,246,600

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/04/2021	01/16/2023	n/a	12/11/2028		06/14/2030	
End Date	01/12/2022	04/02/2025	n/a	06/14/2030	04/15/2030	06/13/2031	n/a



Muddy Creek WWTP EHRT and Pump Station

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10130566	WWIP Index #: 215R PN# 04	CSO(s): N/A
Project Type: Treatment Facility	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Muddy Creek	Sanitary Sewer No: 6901	PSO(s): N/A
Watershed: River Road		
Municipality: City of Cincinnati		
Neighborhood: Sayler Park		

Project Description

This project is located at the Muddy Creek WWTP in the Sayler Park neighborhood of the City of Cincinnati, Hamilton County, Ohio. The project includes the planning, design and construction of a raw sewage pumping facility and high rate treatment facility to serve the Muddy Creek Wastewater Treatment Plant. Firm pumping capacity will be increased to 35 MGD. HRT will be designed to treat wet weather needs of the current conveyance system with future expansion to accommodate anticipated future wet weather needs.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,500,000	\$1,524,602	\$0	\$0	\$1,524,602
Design	\$2,884,924	\$7,200,000	\$2,149,000	\$0	\$9,349,000
Pre-Construction Services	\$648,838	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$350,000	\$0	\$2,635,000	\$0	\$2,635,000
Right-of-Way	\$0	\$0	\$75,000	\$0	\$75,000
Construction	\$6,488,368	\$0	\$0	\$136,347,000	\$136,347,000
Program Management	\$0	\$2,767	\$0	\$0	\$2,767
Construction Services	\$17,667,008	\$0	\$0	\$12,294,000	\$12,294,000
Interest / Financing	\$3,244,182	\$0	\$0	\$9,102,000	\$9,102,000
Total	\$32,783,320	\$8,727,369	\$4,859,000	\$157,743,000	\$171,329,369

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$8,727,369	\$4,859,000	\$0	\$0	\$0	\$157,743,000	\$171,329,369

Prior Legislation Action							
May 2014, Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	09/07/2021	05/18/2022	04/16/2025	10/08/2027		03/15/2032	
End Date	06/01/2022	12/16/2026	04/15/2026	03/15/2032		03/15/2033	n/a



Wulff Run Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10132930	WWIP Index #: 332 333 334	CSO(s): N/A
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Muddy Creek	Sanitary Sewer No: 7187	PSO(s): 623
Watershed: Wulff Run		
Municipality: Delhi Township		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

This project is located in the Wulff Run sewershed of the West Basin in Delhi Township, Hamilton County, Ohio. The sewer that collects flow from the area along Delhi Road and Wulff Run Creek is undersized. The proposed project area begins as a 12-inch sewer near Shroer Avenue and end as an 18-inch sewer at Neeb Rd. Most of the sewer segments show surcharging in the 6-month design storm. There are a number of confirmed overflowing manholes along Wulff Run, as well as SBU properties and SSO 623 on a branch line at Viscount Drive. The project will evaluate alternatives for upsizing the sewer or otherwise improving conveyance capacity as well as evaluate alternatives for control of SSO 623.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$489,500	\$0	\$489,500	\$0	\$489,500
Design	\$908,700	\$0	\$0	\$908,700	\$908,700
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$164,300	\$0	\$0	\$164,300	\$164,300
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$28,131,300	\$0	\$0	\$28,131,300	\$28,131,300
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$762,800	\$0	\$0	\$762,800	\$762,800
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$30,456,600	\$0	\$489,500	\$29,967,100	\$30,456,600

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$489,500	\$1,073,000	\$0	\$0	\$28,894,100	\$30,456,600

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	08/28/2024	12/10/2025	02/11/2028		08/13/2029	
End Date	08/28/2024	09/01/2027	06/10/2027	08/13/2029		08/12/2030	n/a



East Branch Ohio River Interceptor Extension

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10142950	WWIP Index #: 394,395,396,417	CSO(s): 430,431,432,489,666
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No:	PSO(s): N/A
Watershed: East Ohio River		
Municipality: City of Cincinnati		
Neighborhood: Queensgate		

Project Description

This project will increase flow from combined sewer overflows (CSOs) 666, 430, 431, 432, and 489 to the Mill Creek wastewater treatment plant (MCWWTP) via the construction of an extension of the East Branch Ohio River Interceptor. Overflow volumes from CSOs 666, 430, and 431 will be mitigated, and overflow volumes from CSOs 432 and 489 will be eliminated entirely. This effort will involve coordination and cost sharing with ODOT on their upcoming project, HAM 75 113361.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,600,000	\$0	\$1,000,000	\$0	\$1,000,000
Design	\$3,400,000	\$0	\$3,400,000	\$0	\$3,400,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$300,000	\$0	\$300,000	\$0	\$300,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$79,300,000	\$0	\$0	\$79,300,000	\$79,300,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$4,700,000	\$0	\$0	\$4,700,000	\$4,700,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$89,300,000	\$0	\$4,700,000	\$84,000,000	\$88,700,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$4,700,000	\$0	\$84,000,000	\$0	\$0	\$88,700,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	01/01/2023	05/22/2024	02/05/2026		08/09/2027	
End Date	08/23/2023	08/13/2025	05/21/2025	08/09/2027		08/07/2028	n/a



Mt Washington Source Control Implementation

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10172940	WWIP Index #: 317	CSO(s): 182
Project Type: Source Control	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Little Miami	Sanitary Sewer No: 6811	PSO(s): N/A
Watershed: Clough		
Municipality: City of Cincinnati		
Neighborhood: Mt. Washington		

Project Description

This project proposes to construct approximately 4300 LF of new 12”, 15”, 18”, 24”, 42”, 48”, and 54” pipe, 27 new catch basins, and 24 new manholes. The project is designed to mitigate a large number of SBUs in the Mt Washington neighborhood, and assist in a future sewer separation project. This project is located in the Little Miami sewer shed of the East Basin within the City of Cincinnati’s Mt. Washington neighborhood.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$332,300	\$0	\$0	\$0	\$0
Design	\$541,925	\$448,723	\$0	\$0	\$448,723
Pre-Construction Services	\$265,143	\$62,200	\$0	\$0	\$62,200
Miscellaneous Expense	\$114,129	\$349,777	\$0	\$0	\$349,777
Right-of-Way	\$600,000	\$30,000	\$0	\$0	\$30,000
Construction	\$7,291,418	\$0	\$9,700,000	\$0	\$9,700,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$689,371	\$0	\$8,000	\$0	\$8,000
Interest / Financing	\$165,714	\$0	\$0	\$0	\$0
Total	\$10,000,000	\$890,700	\$9,708,000	\$0	\$10,598,700

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$890,700	\$9,708,000	\$0	\$0	\$0	\$0	\$10,598,700

Prior Legislation Action							
May 2019, Oct 2019, Mar 2020, Jul 2020, Jun 2021							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	06/21/2021	06/21/2021	02/04/2022	09/11/2023		11/11/2024	
End Date	07/06/2022	04/19/2023	02/03/2023	11/11/2024	09/10/2024	11/10/2025	n/a



LMWWTP Electrical, Primary, and Secondary Improvements

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10172950	WWIP Index #: 195 195R 196 197 197R	CSO(s): 467,468,469,472,476,656	
Project Type: Treatment Facility	Project Phase: Design Legislation	SSO(s): N/A	
WWTP Basin: Little Miami	Sanitary Sewer No: 7188	PSO(s): N/A	
Watershed: Lower Duck Creek			
Municipality: City of Cincinnati			
Neighborhood: East End			

Project Description

To eliminate the flow bypassing the Little Miami WWTP and comply with MSD's Consent Decree, MSD has prioritized evaluation of an HRT and treatment plant upgrades. The LMWWTP Electrical, Primary, and Secondary Improvements includes repairs and equipment replacements at Primary and Secondary Treatment to restore the useful life of the facilities as well as modify the facilities to support expanded treatment capacity from 55 MGD to 100 MGD. This project also includes replacement of electrical equipment that is beyond its useful life and should address anticipated future capacity needs.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$2,520,000	\$0	\$2,770,000	\$0	\$2,770,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$456,800	\$0	\$456,800	\$0	\$456,800
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$50,840,100	\$0	\$0	\$50,840,100	\$50,840,100
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$7,888,500	\$0	\$0	\$7,888,500	\$7,888,500
Interest / Financing	\$2,224,300	\$0	\$0	\$2,098,000	\$2,098,000
Total	\$63,929,700	\$0	\$3,226,800	\$60,826,600	\$64,053,400

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$3,226,800	\$0	\$60,826,600	\$0	\$0	\$64,053,400

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	08/22/2022	n/a	09/05/2025		08/21/2028	
End Date	n/a	03/12/2025	n/a	08/21/2028		08/20/2029	n/a



LMWWTP HRT Facility, Plant Pumping, and Disinfection Upgrade

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10172960	WWIP Index #: 195 195R 196 197 197R	CSO(s): 467,468,469,472,476,656	
Project Type: Treatment Facility	Project Phase: Design Legislation	SSO(s): N/A	
WWTP Basin: Little Miami	Sanitary Sewer No:	PSO(s): N/A	
Watershed: Lower Duck Creek			
Municipality: City of Cincinnati			
Neighborhood: East End			

Project Description

To eliminate the flow bypassing the Little Miami WWTP and comply with MSD's Consent Decree, MSD has prioritized evaluation of an HRT and treatment plant upgrades. This project is intended to construct an HRT facility, upgrade the treatment plant influent pumping, and expand the capacity of the disinfection process. The upgrades include constructing a new cloth media filter technology HRT facility, as well as upgrades to the two existing influent pump stations and building an additional disinfection tank.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$872,000	\$0	\$872,000
Design	\$18,512,000	\$0	\$0	\$23,140,000	\$23,140,000
Pre-Construction Services	\$9,388,900	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$1,224,100	\$0	\$0	\$1,225,000	\$1,225,000
Right-of-Way	\$297,500	\$0	\$0	\$297,500	\$297,500
Construction	\$194,447,500	\$0	\$0	\$207,070,000	\$207,070,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$14,515,600	\$0	\$0	\$1,894,000	\$1,894,000
Interest / Financing	\$1,944,500	\$0	\$0	\$12,901,000	\$12,901,000
Total	\$240,330,100	\$0	\$872,000	\$246,527,500	\$247,399,500

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$872,000	\$0	\$24,662,500	\$0	\$0	\$25,534,500

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	10/02/2023	06/01/2026	n/a	01/04/2029		10/28/2033	
End Date	09/11/2024	03/19/2029	n/a	11/01/2034		10/27/2034	n/a



Main Sewer Renewal Program 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10180123	WWIP Index #: 113	CSO(s):	N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s):	N/A
WWTP Basin: Multiple	Sanitary Sewer No:	PSO(s):	N/A
Watershed: Multiple			
Municipality: Multiple			
Neighborhood: Systemwide			

Project Description

This allowance addresses the renewal, repair, and rehabilitation of existing main sewers throughout MSD’s service area using trenchless technologies. The program focuses on structurally deteriorated main sewers to improve the hydraulic performance of the sewer. Building sewers are excluded. Trenchless technologies have many benefits such as; shorter duration, durable, safer, and cost effective. This program’s scope will include, but not limit itself to, slip-lining, point lining, spiral wound lining, pipe bursting, carbon filament wrapping, directional drilling, jack-and-boring, Cured-in-place-pipe, and other methods. The sewer segments to be addressed under this program were identified through investigations (condition assessments) of the sewer lines and are prioritized based on their risk ranking relative to sewer’s structural condition, and the likelihood and consequence of a sewer failure. The risk ranking is calculated utilizing the Gravity Sewer Asset Management System (GSAM).;

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$6,437,350	\$0	\$6,437,350
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$6,437,350	\$0	\$6,437,350

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$6,437,350	\$0	\$0	\$0	\$0	\$6,437,350

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	01/02/2023	n/a	01/02/2023		n/a	
End Date	n/a	06/30/2024	n/a	06/30/2024		n/a	n/a



Manhole Renewal Program 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10180223	WWIP Index #: 113	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed: Multiple		
Municipality:		
Neighborhood:		

Project Description

This allowance addresses the repair, rehabilitation and replacement of structurally deteriorated manholes throughout the system. The work includes manhole repairs, rim adjustments, replacement, and chimney repairs to accommodate street paving and improvement projects. Manhole repairs, rehab and replacement projects are prioritized based on their risk ranking relative to structural condition and the likelihood and consequence of failure.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$1,042,601	\$0	\$1,042,601
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$1,042,601	\$0	\$1,042,601

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$1,042,601	\$0	\$0	\$0	\$0	\$1,042,601

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	01/01/2023	n/a	01/01/2023		n/a	
End Date	n/a	12/31/2023	n/a	12/31/2023		n/a	n/a



Phase 2 WWIP Planning 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10190223	WWIP Index #: 113	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No: 7050	PSO(s): N/A
Watershed: Multiple		
Municipality:		
Neighborhood:		

Project Description
This funding will provide ongoing support for the technical evaluations and support for the capital program, regulatory and affordability needs for the Phase 2A program. This additionally includes all legal costs associated with capital projects. This is estimated to be \$350,000

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$2,678,063	\$0	\$2,678,063
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$2,678,063	\$0	\$2,678,063

5 Year Projected Legislation							
Prior Legislation	2023	2024	2025	2026	2027	Project Total	
\$0	\$2,678,063	\$0	\$0	\$0	\$0	\$2,678,063	

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	n/a	n/a	n/a		n/a	
End Date	12/28/2023	n/a	n/a	n/a		n/a	n/a



HSTS Elimination 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10190323	WWIP Index #: 113	CSO(s):	N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s):	N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s):	N/A
Watershed: Multiple			
Municipality: System Wide			
Neighborhood: Systemwide			

Project Description

This allowance will be used to fund a study to: 1) identify priority HSTS areas, 2) identify areas for public sewer extensions based on updated criteria and available information, and 3) to further development of an updated sewer master plan. The study and master plan will identify and prioritize potential HSTS elimination projects based on water quality in a manner consistent with paragraph C.6. e of the WWIP. In addition, this study will develop criteria which can be applied to logically and economically determine priorities that align with utility needs and financial capacity. The study is also intended to review all pertinent statutory requirements along with MSD Rules (1216 & 1805) and identify any issues, conflicts and opportunities for improving upon the current process.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$500,000	\$0	\$500,000	\$0	\$500,000
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$500,000	\$0	\$500,000	\$0	\$500,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$500,000	\$0	\$0	\$0	\$0	\$500,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	01/01/2023	01/01/2023	n/a		n/a	
End Date	12/31/2023	12/31/2023	12/31/2023	n/a		n/a	n/a



Program Management and Support Services 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10199023	WWIP Index #: 113	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed: Multiple		
Municipality: System Wide		
Neighborhood: Systemwide		

Project Description

The Program Management Team (PMT) consists of outside professional consultant staff working in an integrated manner with internal MSD personnel. The PMT is providing support for the development and delivery of the entire CIP, inclusive of all WWIP and Asset Management projects. The core services needed to support the management, delivery, and reporting has been defined in an Annual Program Work Plan. The budget, as a % of the CIP, is consistent with average National Program Management Fees, per CMAA.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$2,000,000	\$0	\$7,144,250	\$0	\$7,144,250
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,000,000	\$0	\$7,144,250	\$0	\$7,144,250

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$7,144,250	\$0	\$0	\$0	\$0	\$7,144,250

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	n/a	n/a	n/a		n/a	
End Date	12/29/2023	n/a	n/a	n/a		n/a	n/a



Hamilton County Utility Oversight and Coordination 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10199123	WWIP Index #: 113	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed: Multiple		
Municipality: System Wide		
Neighborhood: Systemwide		

Project Description

The Hamilton County Board of County Commissioners has determined that the continued use of County staff and outside consultants and attorneys is warranted to ensure that MSD rate payers are funding only those projects that are necessary and cost effective to adhere to the terms of the Wet Weather Improvement Program "WWIP". The "Monitor Team" will work closely with MSD employees and supplemental staff to ensure that projects are built on time and on budget to minimize risk to MSD rate payers. The project funds the team responsible for this oversight function. The Board is solely responsible for selecting, supervising, and directing the County monitor. The Board is solely responsible for determining that (1) the County Monitor's work is an appropriate expenditure of MSD funds under R.C. 6117.02 and the 1968 Operating Agreement (including all amendments), and (2) the County Monitor is charging fees and expenses consistent with the Board's contract with the County Monitor.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$4,713,390	\$0	\$4,713,390
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$4,713,390	\$0	\$4,713,390

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$4,713,390	\$0	\$0	\$0	\$0	\$4,713,390

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	n/a		n/a	
End Date	n/a	n/a	n/a	n/a		n/a	n/a



Stonebridge Relief Sewer

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10230045	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Muddy Creek	Sanitary Sewer No: 6881	PSO(s): N/A
Watershed: Upper Muddy Creek		
Municipality: Green Township		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

This project will eliminate overflowing manholes located on the property of the Stonebridge Condominium Complex. These overflows occur frequently, are highly visible, and are a source of frequent complaints. Local residents are concerned about human exposure and the water. This project includes the construction of approximately 1900 linear feet of 36 inch pipe and 11 manholes. The overflowing manholes will be reduced at their current location with the installation of this relief sewer. The project is located on the Stonebridge Lake Condominium property and south of Werk Road in Green Township, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$187,000	\$30,000	\$0	\$0	\$30,000
Design	\$71,000	\$420,000	\$0	\$0	\$420,000
Pre-Construction Services	\$57,000	\$27,000	\$0	\$0	\$27,000
Miscellaneous Expense	\$41,000	\$178,100	\$0	\$0	\$178,100
Right-of-Way	\$168,000	\$392,900	\$0	\$0	\$392,900
Construction	\$407,000	\$0	\$4,102,300	\$0	\$4,102,300
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$42,000	\$0	\$200,000	\$0	\$200,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$973,000	\$1,048,000	\$4,302,300	\$0	\$5,350,300

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$1,048,000	\$4,302,300	\$0	\$0	\$0	\$0	\$5,350,300

Prior Legislation Action							
Jan 2019, Jun 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/15/2019	01/01/2020	09/29/2021	06/09/2023		12/09/2024	
End Date	10/15/2019	12/14/2022	09/30/2022	12/09/2024	10/09/2024	12/08/2025	n/a



Dry Weather Channel for SS 937

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10230130	WWIP Index #: 109	CSO(s): 522
Project Type: Sewer	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Muddy Creek	Sanitary Sewer No: 6253	PSO(s): N/A
Watershed: Lower Muddy Creek		
Municipality: Green Township		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

The proposed Dry Weather Channel for SS 937 will install a 5,640 linear foot dry weather flow channel along the existing combined sewer as well as repair structural deficiencies in the sewer. The dry weather channel, in conjunction with the Werk and Westbourne Enhance High Rate Treatment facility that was recently constructed, will also significantly reduce the quantity of solids and associated odors that are conveyed to Schiaible Creek during wet weather events.

This project is located between the intersections of Werk Road and Westbourne Drive and Glenway Avenue and Bridgetown Road, in the Muddy Creek sewer shed of the West Basin in Green Township, Hamilton County, Ohio.

The project is needed to reduce odors in the project area as solids currently build up during dry weather. On ‘first flush’ occurrences, excessive solids will be flushed from the system to the Werk and Westbourne Enhance High Rate Treatment facility and Schiaible Creek downstream creating higher operation costs and decreased water quality. Also, needed structural repairs in the existing sewer will be completed.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$120,011	\$0	\$0	\$120,011
Design	\$244,900	\$290,700	\$0	\$0	\$290,700
Pre-Construction Services	\$67,300	\$67,300	\$0	\$0	\$67,300
Miscellaneous Expense	\$42,500	\$42,500	\$0	\$616,500	\$659,000
Right-of-Way	\$65,700	\$65,700	\$0	\$0	\$65,700
Construction	\$1,701,000	\$0	\$4,410,000	\$0	\$4,410,000
Program Management	\$0	\$14,694	\$0	\$0	\$14,694
Construction Services	\$70,000	\$0	\$50,000	\$0	\$50,000
Interest / Financing	\$28,000	\$0	\$0	\$0	\$0
Total	\$2,219,400	\$600,905	\$4,460,000	\$616,500	\$5,677,405

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$600,905	\$4,460,000	\$616,500	\$0	\$0	\$0	\$5,677,405

Prior Legislation Action							
May 2013, May 2014, Mar 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	05/13/2011	02/03/2014	06/01/2015	08/14/2023		06/21/2024	
End Date	04/20/2012	02/08/2023	12/21/2022	06/21/2024		06/20/2025	n/a



CSO 541 Outfall Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10232035	WWIP Index #: N/A	CSO(s): 541
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Muddy Creek	Sanitary Sewer No: 7141	PSO(s): N/A
Watershed: River Road		
Municipality: City of Cincinnati		
Neighborhood: Riverside		

Project Description

This project is located near 5718 River Road in the Riverside neighborhood of the City of Cincinnati, Hamilton County, Ohio in the River Road watershed of the Muddy Creek treatment basin. The project will evaluate alternatives for the replacement or repair of a failed outfall pipe and headwall at CSO 541. The project consists of approximately 150 feet of 36-inch pipe, one manhole, and one headwall on the Ohio River.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$104,800	\$209,600	\$0	\$0	\$209,600
Design	\$145,600	\$0	\$145,600	\$0	\$145,600
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$17,200	\$0	\$17,200	\$0	\$17,200
Right-of-Way	\$39,000	\$0	\$39,000	\$0	\$39,000
Construction	\$932,200	\$0	\$0	\$932,200	\$932,200
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$62,900	\$0	\$0	\$62,900	\$62,900
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,301,700	\$209,600	\$201,800	\$995,100	\$1,406,500

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$209,600	\$201,800	\$0	\$0	\$0	\$995,100	\$1,406,500

Prior Legislation Action							
Jan 2022							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	01/16/2023	03/26/2025	06/07/2027		12/08/2028	
End Date	11/15/2023	12/16/2026	09/24/2026	12/08/2028	10/09/2028	12/07/2029	n/a



Wahl Terrace Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240495	WWIP Index #: NA	CSO(s): N/A
Project Type: Sewer	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6781	PSO(s): N/A
Watershed: Lick Run		
Municipality: City of Cincinnati		
Neighborhood: South Fairmount		

Project Description

This project entails the replacement of approximately 1,170 feet of 8 to 18-inch combined sewers and lining of approximately 330 feet of 12-inch combined sewer due to the existing structural condition and inability to effectively maintain the sewers. The subdivision is located south of Harrison Avenue and just north of the Lick Run Valley Conveyance project. The project is located in the Westwood and South Fairmount neighborhoods of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$10,303	\$0	\$0	\$10,303
Design	\$99,400	\$98,200	\$0	\$0	\$98,200
Pre-Construction Services	\$43,000	\$53,900	\$0	\$0	\$53,900
Miscellaneous Expense	\$112,400	\$29,800	\$0	\$0	\$29,800
Right-of-Way	\$323,000	\$87,800	\$0	\$0	\$87,800
Construction	\$729,800	\$0	\$849,178	\$0	\$849,178
Program Management	\$0	\$1,151	\$0	\$0	\$1,151
Construction Services	\$53,700	\$0	\$42,500	\$0	\$42,500
Interest / Financing	\$9,000	\$0	\$0	\$0	\$0
Total	\$1,370,300	\$281,154	\$891,678	\$0	\$1,172,832

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$281,154	\$891,678	\$0	\$0	\$0	\$0	\$1,172,832

Prior Legislation Action							
May 2014, Mar 2016, Nov 2019, Aug 2021							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	10/08/2010	08/18/2017	10/29/2018	09/11/2023		03/14/2025	
End Date	12/17/2015	03/15/2023	01/26/2023	03/14/2025	01/13/2025	03/13/2026	n/a



Central Parkway Sewer Replacement (HN 2402)

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240545	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 7064	PSO(s): N/A
Watershed: Clifton		
Municipality: City of Cincinnati		
Neighborhood: CUF		

Project Description

The proposed Central Parkway Sewer Replacement project will fill, seal, and abandon 1100 linear feet of combined sewers which sewers are in poor condition as they are partially collapsed or deformed and broken. Additionally, this project will construct approximately 360 linear feet of 24-inch diameter, 170 linear feet of 15-inch diameter, and 20 linear feet of 12-inch diameter combined sewer along the east side of Central Parkway, including 8 new manholes and reconnecting 15 sewer laterals. The completion of this project will enable the asset to convey flow at full capacity and allow normal maintenance practices in the future.

This project is located in the vicinity of 2402 Central Parkway, just north of the Western Hills Viaduct, in Hamilton County.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$28,210	\$0	\$0	\$28,210
Design	\$54,900	\$58,800	\$0	\$0	\$58,800
Pre-Construction Services	\$18,100	\$58,100	\$0	\$0	\$58,100
Miscellaneous Expense	\$43,300	\$39,400	\$0	\$0	\$39,400
Right-of-Way	\$12,900	\$12,900	\$0	\$0	\$12,900
Construction	\$302,200	\$0	\$434,000	\$0	\$434,000
Program Management	\$0	\$3,201	\$0	\$0	\$3,201
Construction Services	\$40,100	\$0	\$10,000	\$0	\$10,000
Interest / Financing	\$3,800	\$0	\$0	\$0	\$0
Total	\$475,300	\$200,611	\$444,000	\$0	\$644,611

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$200,611	\$444,000	\$0	\$0	\$0	\$0	\$644,611

Prior Legislation Action							
May 2014, Dec 2014, Apr 2017, Dec 2020, Apr 2022							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	12/02/2011	01/01/2015	06/03/2019	02/12/2024		10/29/2024	
End Date	06/19/2013	08/30/2023	06/16/2023	10/29/2024	08/30/2024	10/28/2025	n/a



MCWWTP Dewatering Building Improvements

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240640	WWIP Index #: 248	CSO(s): N/A
Project Type: Treatment Facility	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No:	PSO(s): N/A
Watershed: Central		
Municipality: City of Cincinnati		
Neighborhood: Lower Price Hill		

Project Description

Mill Creek Wastewater Treatment plant's existing dewatering building, retrofitted in 2001 for centrifugation, has several challenges including aging equipment, restricted conveyance, and inefficient cake loadout. These issues have led to increased O&M requirements for the dewatering and incineration processes. This project is intended to construct a new dewatering building that will replace older, inefficient equipment, provide more stable sludge pumping and conveyance, and provide a more reliable feed to the Fluidized Bed Incinerators. This project is an intergral part of MSD's 2019 Solids Handling Master Plan which is intended to improve the reliability of MSD's solids handling assets in consideration of a goal of no off-site odors, minimizing rate impacts, providing community benefits, optimizing operations, and providing system-wide resiliency. The Project is located at the Mill Creek Wastewater Treatment Plant facility, in the City of Cincinnati's Lower Price Hill Neighborhood.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$2,520,000	\$0	\$2,520,000
Design	\$0	\$0	\$0	\$7,872,000	\$7,872,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$188,000	\$188,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$105,097,000	\$105,097,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$3,756,000	\$3,756,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$2,520,000	\$116,913,000	\$119,433,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$2,520,000	\$0	\$8,060,000	\$0	\$0	\$10,580,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	07/03/2023	01/13/2025	n/a	06/09/2028		05/05/2031	
End Date	10/01/2025	12/15/2027	n/a	05/05/2031		05/03/2032	n/a



WWC Maintenance Shop Improvements

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240645	WWIP Index #: 000	CSO(s): N/A
Project Type: Treatment Facility	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No:	PSO(s): N/A
Watershed: Upper South Branch Mill Creek		
Municipality: City of Cincinnati		
Neighborhood: Hartwell		

Project Description

The purposes of the WWC Maintenance Shop Improvements are to provide additional office and shop space for current and future staffing levels. This added space will also provide an area for maintenance personnel to access a computerized maintenance management system for improved asset management. The Location is in the Hartwell community of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$115,850	\$119,756	\$0	\$0	\$119,756
Pre-Construction Services	\$14,500	\$15,674	\$0	\$0	\$15,674
Miscellaneous Expense	\$14,500	\$14,500	\$0	\$0	\$14,500
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$965,390	\$1,437,918	\$1,902,514	\$0	\$3,340,432
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$53,100	\$83,100	\$66,015	\$0	\$149,115
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,163,340	\$1,670,948	\$1,968,529	\$0	\$3,639,477

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$1,670,948	\$1,968,529	\$0	\$0	\$0	\$0	\$3,639,477

Prior Legislation Action							
Dec 2014, Jan 2016, Dec 2017, Oct 2018							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	05/25/2012	01/01/2019	n/a	06/09/2023		12/09/2024	
End Date	03/31/2015	12/20/2019	n/a	12/09/2024	10/09/2024	12/08/2025	n/a



De Votie Avenue Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240735	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6683	PSO(s): N/A
Watershed: Clifton		
Municipality: City of Cincinnati		
Neighborhood: University/Fairview Heights		

Project Description

This project was nominated by WWC due to structural deteriorating condition of sewer segments under buildings. The project will rehabilitate or replace multiple failing pipe segments that are located in a direct proximity to one another. The construction of the project will be broken out into two phases to reduce a risk that is associated with a collapsing sewer directly under a foundation of residential building. Phase 1 will not require easement acquisition, and can be expedited.

The segments that are to rehabilitated or replaced are as follows:

Phase 1: Replace in a different alignment approximately 238 feet of 20-inch that is located beneath residential structures. Line approximately 908 feet of sewers in Wagner Street, Enslin Street and DeVoite Avenue.

Phase 2: Build a new 8-inch sewer to replace existing 398 feet of 12-inch sewer that is located in the backyards of houses on Enslin Street and Wagner Street, which is located under buildings.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$172,000	\$0	\$0	\$172,000
Design	\$120,000	\$200,000	\$0	\$0	\$200,000
Pre-Construction Services	\$22,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$190,000	\$60,000	\$0	\$0	\$60,000
Right-of-Way	\$67,000	\$90,000	\$0	\$0	\$90,000
Construction	\$638,000	\$0	\$645,000	\$725,000	\$1,370,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$78,000	\$0	\$0	\$0	\$0
Interest / Financing	\$7,250	\$0	\$0	\$0	\$0
Total	\$1,122,250	\$522,000	\$645,000	\$725,000	\$1,892,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$522,000	\$645,000	\$0	\$725,000	\$0	\$0	\$1,892,000

Prior Legislation Action							
Jan 2020, Jan 2022							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/30/2019	01/01/2022	05/03/2023	06/07/2024		05/05/2025	
End Date	09/22/2021	07/16/2025	05/01/2025	06/08/2026	03/04/2025	05/04/2026	n/a



Fyffe Avenue Sewer

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240765	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6691	PSO(s): N/A
Watershed: Denham		
Municipality: City of Cincinnati		
Neighborhood: Westwood		

Project Description

Visual condition assessments have shown the presence of multiple structural defects in the VCP sewer along Fyffe Avenue and the RCP sewer along Saffer Street in the East Westwood neighborhood of the City of Cincinnati. In addition, a portion of the Fyffe Avenue sewer is under a building and poses an elevated public health and safety risk. This project will rehabilitate or replace approximately 2,300 linear feet of 15-, 18-, and 24-inch VCP and approximately 600 linear feet of 12-inch RCP.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$94,000	\$0	\$94,000
Design	\$99,000	\$0	\$0	\$130	\$130
Pre-Construction Services	\$18,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$150,000	\$0	\$0	\$100,000	\$100,000
Right-of-Way	\$15,000	\$0	\$0	\$165,000	\$165,000
Construction	\$530,000	\$0	\$0	\$780,000	\$780,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$64,000	\$0	\$0	\$52,000	\$52,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$876,000	\$0	\$94,000	\$1,097,130	\$1,191,130

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$94,000	\$0	\$265,130	\$0	\$0	\$359,130

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	01/01/2025	04/15/2026	06/05/2028		12/07/2029	
End Date	08/28/2024	01/05/2028	10/14/2027	12/07/2029	10/08/2029	12/06/2030	n/a



Gilbert Avenue at Casino Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240775	WWIP Index #: NA	CSO(s): N/A
Project Type: Sewer	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6694	PSO(s): N/A
Watershed: East Ohio River		
Municipality: City of Cincinnati		
Neighborhood: Downtown		

Project Description

Project to address combined sewer pipe installed in 1881 in deteriorating condition. The section of the sewer in question ranges in depth from 30' feet toward southern end to 60' near northern end near Elsinore Place.

This project includes the rehabilitation of 2,350 linear feet of existing sewer (1630 - 96", 600' - 114" and 120' - oval 114") via pipe repair utilizing structural cementitious geopolymer lining which is spray applied to the existing sewer following cleaning, grouting in leaking joints and preparing wall surface. Portions of this sewer is located next to or under Hardrock Casino Buildings. This project is located in the Downtown area of the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$520,000	\$322,600	\$0	\$0	\$322,600
Pre-Construction Services	\$180,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$1,500,000	\$105,100	\$0	\$0	\$105,100
Right-of-Way	\$75,000	\$75,000	\$185,700	\$0	\$260,700
Construction	\$4,900,000	\$0	\$0	\$4,475,000	\$4,475,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$610,000	\$0	\$0	\$24,700	\$24,700
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$7,785,000	\$502,700	\$185,700	\$4,499,700	\$5,188,100

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$502,700	\$185,700	\$0	\$4,499,700	\$0	\$0	\$5,188,100

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/06/2020	01/04/2021	03/01/2023	11/10/2025		04/09/2027	
End Date	01/26/2022	05/21/2025	02/27/2025	04/09/2027	02/08/2027	04/07/2028	n/a



Clifton Avenue from MLK to Howell Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240785	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6698	PSO(s): N/A
Watershed: Clifton		
Municipality: City of Cincinnati		
Neighborhood: Clifton		

Project Description

This project was nominated by WWC due to the deteriorating condition, structural risks scores between 21 and 25 and capacity concerns of the sewer built in 1905.

The project will mitigate deteriorating condition and capacity issue of the existing combine sewers along Clifton Avenue, adjacent to Burnet Woods. The project will evaluate rehabilitate or upsize of approximately 2,600 linear feet of combine sewer that ranges from 24-inch to 30-inch. This project will also evaluate physical condition and hydraulic capacity of the combine sewer pipes that are located in Clifton Avenue from Martin Luther King Drive to West McMillan Street.

This project will mitigate the risk of failing sewers under a busy city street, and mitigate insufficient hydraulic capacity of the existing pipes.

This project is located in the City of Cincinnati neighborhood of Clifton along Clifton Avenue.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$375,374	\$0	\$375,374
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$50,000	\$0	\$50,000
Right-of-Way	\$0	\$0	\$180,000	\$0	\$180,000
Construction	\$0	\$0	\$0	\$3,076,000	\$3,076,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$50,000	\$50,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$605,374	\$3,126,000	\$3,731,374

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$605,374	\$0	\$0	\$3,126,000	\$0	\$3,731,374

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	05/01/2021	01/01/2023	06/26/2024	09/11/2026		03/13/2028	
End Date	11/17/2021	03/18/2026	12/25/2025	03/13/2028	01/12/2028	03/12/2029	n/a



Central to McMicken at Stark St Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240795	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6701	PSO(s): N/A
Watershed: Central		
Municipality: City of Cincinnati		
Neighborhood: Over-the-Rhine		

Project Description

This project is to address approximately 1500 ft of sewer that ranges in diameter between 12" - 90". These sewers are over 140 years and constructed with brick and stone. They have structural risk scores of 14 to 23 (where 25 is the most critical score). This project includes the lining the existing sewers with cementitious geopolymer material spray applied to the existing sewer following cleaning, grouting in voids, leaking cracks and joints and forming an invert for daily flows for the larger sewers. This works involves 910 lineal feet of sewer (73' - 90", 244' - 72", 500' - 54" & 93' - 48") with a structural cementitious geopolymer spray-on lining, rehabilitation of existing 83 lineal feet of 24-inch lined sewer with CIPP lining and replacement of 131' - 24" x 54" rectangular sewer with new 30" sewer or cementitious lining if utility conflicts cause open cut issues. This project is located in the City of Cincinnati Neighborhood of Over The Rhine on the streets of Central Parkway, Branch Street, Stark Street, McMicken Ave., and Mohawk Street.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$66,000	\$0	\$0	\$66,000
Design	\$240,000	\$0	\$214,000	\$0	\$214,000
Pre-Construction Services	\$61,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$510,000	\$0	\$72,000	\$0	\$72,000
Right-of-Way	\$150,000	\$0	\$40,000	\$0	\$40,000
Construction	\$1,700,000	\$0	\$0	\$1,972,000	\$1,972,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$210,000	\$0	\$0	\$13,000	\$13,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,871,000	\$66,000	\$326,000	\$1,985,000	\$2,377,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$66,000	\$326,000	\$0	\$0	\$1,985,000	\$0	\$2,377,000

Prior Legislation Action							
Jan 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	03/01/2019	01/03/2023	04/24/2024	07/13/2026		12/10/2027	
End Date	09/07/2022	01/14/2026	10/23/2025	12/10/2027	10/11/2027	12/08/2028	n/a



Taft Road & McMillan Street Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240845	WWIP Index #: NA	CSO(s): N/A
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6775	PSO(s): N/A
Watershed: East Ohio River		
Municipality: City of Cincinnati		
Neighborhood: East Walnut Hills		

Project Description

The project will replace or rehab structurally deficient, 52” stone sewer located under or near residential structures, and investigate the feasibility and possible construction of a new alignment to provide relief to the local sewer main. This project is located in the East Walnut Hill neighborhood of the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$420,000	\$0	\$0	\$420,000
Design	\$710,000	\$0	\$710,000	\$0	\$710,000
Pre-Construction Services	\$270,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$2,200,000	\$0	\$2,200,000	\$0	\$2,200,000
Right-of-Way	\$142,500	\$0	\$142,500	\$0	\$142,500
Construction	\$7,200,000	\$0	\$0	\$7,200,000	\$7,200,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$930,000	\$0	\$0	\$930,000	\$930,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$11,452,500	\$420,000	\$3,052,500	\$8,130,000	\$11,602,500

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$420,000	\$3,052,500	\$0	\$0	\$8,130,000	\$0	\$11,602,500

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2021	01/01/2023	01/08/2025	03/15/2027		09/15/2028	
End Date	10/11/2023	09/30/2026	07/09/2026	09/15/2028	07/17/2028	09/14/2029	n/a



Ledgewood Ave Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10240875	WWIP Index #:	CSO(s): N/A
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6832	PSO(s): N/A
Watershed: Ross Run		
Municipality: City of Cincinnati		
Neighborhood: North Avondale		

Project Description

The project is located in the North Avondale neighborhood of the City of Cincinnati, Hamilton County, Ohio. The project proposed the replacement of approximately 1,520 feet of 15-36 inch diameter combined sewer pipe. The pipe is in poor condition and is located near or beneath several homes. A proposed new alignment for the replacement sewer will reduce the risk of maintaining sewers under homes.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$300,000	\$0	\$300,000	\$0	\$300,000
Pre-Construction Services	\$82,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$680,000	\$0	\$680,000	\$0	\$680,000
Right-of-Way	\$120,000	\$0	\$120,000	\$0	\$120,000
Construction	\$2,420,000	\$0	\$0	\$2,420,000	\$2,420,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$280,000	\$0	\$0	\$40,000	\$40,000
Interest / Financing	\$55,000	\$0	\$0	\$0	\$0
Total	\$3,937,000	\$0	\$1,100,000	\$2,460,000	\$3,560,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$1,100,000	\$0	\$0	\$2,460,000	\$0	\$3,560,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/24/2020	01/03/2023	04/24/2024	07/13/2026		09/13/2027	
End Date	11/09/2022	01/14/2026	10/23/2025	09/13/2027	07/13/2027	09/11/2028	n/a



Congress Run Stream Restoration and Bank Stabilization

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10241905	WWIP Index #: N/A	CSO(s): N/A
Project Type: Source Control	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 6843	PSO(s): N/A
Watershed: Upper South Branch Mill Creek		
Municipality: City of Cincinnati		
Neighborhood: Hartwell		

Project Description

This project will provide a solution to mitigate the erosion issues, stabilize the stream, protect existing infrastructure. Severe erosion poses a threat to the existing WWC facility and multiple sewers and building lateral crossings in the area of the project.

Future work includes bank stabilization near sewer segments 36207005-36207004 and 36207006-36207005, stream restoration at various locations along the length of the creek adjacent to the WWC facility, and development of parking lot BMPs to improve stream quality where a 36" diameter storm sewer (362033002-362033001) located along the eastern side of the facility and a 24" diameter storm sewer (362063005-362021001) discharge directly to the stream.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$166,000	\$0	\$0	\$166,000
Design	\$0	\$0	\$276,000	\$0	\$276,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$20,000	\$0	\$20,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$2,008,000	\$2,008,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$209,000	\$209,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$166,000	\$296,000	\$2,217,000	\$2,679,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$166,000	\$296,000	\$0	\$2,217,000	\$0	\$0	\$2,679,000

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2021	01/03/2023	08/09/2022	02/09/2026		08/13/2027	
End Date	07/12/2023	08/13/2025	07/24/2024	08/13/2027	06/14/2027	08/11/2028	n/a



Morrison Avenue Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10242155	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 7046	PSO(s): N/A
Watershed: Clifton		
Municipality: City of Cincinnati		
Neighborhood: Clifton		

Project Description

The proposed project, near the Ludlow and Morrison Avenues intersection in the Clifton neighborhood, includes 3 pipe segments identified with an extreme risk of failure with structural risk bin scores ranging from 22 to 23 (on a scale of 1 to 25 where 22-25 is extreme risk). 600-ft of extreme risk, 18" to 27" diameter clay and concrete pipes, include portions located underneath homes and a major roadway, Ludlow Avenue. Portions of the pipe underneath the homes have severe deformation and are difficult to access due to private improvements such as landscaping and other homes obstructing equipment pathways to the pipe.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$120,000	\$0	\$160,000	\$0	\$160,000
Design	\$200,000	\$0	\$0	\$240,000	\$240,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$270,000	\$0	\$0	\$100,000	\$100,000
Right-of-Way	\$20,000	\$0	\$0	\$50,000	\$50,000
Construction	\$1,800,000	\$0	\$0	\$1,820,000	\$1,820,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$190,000	\$0	\$0	\$130,000	\$130,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,600,000	\$0	\$160,000	\$2,340,000	\$2,500,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$160,000	\$0	\$390,000	\$0	\$0	\$550,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	01/01/2025	04/15/2026	06/05/2028		12/07/2029	
End Date	08/28/2024	01/05/2028	10/14/2027	12/07/2029	10/08/2029	12/06/2030	n/a



MCWWTP Disinfection and Outfall

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10242165	WWIP Index #: N/A	CSO(s): N/A
Project Type: Treatment Facility	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 7092	PSO(s): N/A
Watershed: Central		
Municipality: City of Cincinnati		
Neighborhood: Lower Price Hill		

Project Description

The effluent limits on the Mill Creek WWTP’s NPDES permit for fecal coliform switched to E. coli for the 2020 disinfection season. Due to this update, it is necessary to evaluate disinfection options that will allow the plant to meet the new limit. This project will evaluate a variety of options including using PAA, constructing a chlorine contact tank with a dechlorinate system, and rebuilding the current outfall. Improvements and repairs to the Mill Creek Outfall should also be included.

MSD is currently evaluating the possible combination of this project with the Mill Creek HRT Pump Station and or Mill Creek HRT Facility. Combining this project with either of the previously mentioned projects will mitigate operational and construction risks, but will result in additional scope and budget for the appropriate project, reduce this project’s budget to zero, and have a potential minor impact on project schedule.

The MCWWTP is located in the Lower Price Hill.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,059,393	\$1,113,900	\$0	\$0	\$1,113,900
Design	\$2,132,754	\$0	\$2,261,300	\$0	\$2,261,300
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$100,000	\$0	\$100,000	\$0	\$100,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$36,084,058	\$0	\$0	\$39,084,100	\$39,084,100
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$7,397,232	\$0	\$0	\$8,012,200	\$8,012,200
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$46,773,437	\$1,113,900	\$2,361,300	\$47,096,300	\$50,571,500

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$1,113,900	\$2,361,300	\$0	\$47,096,300	\$0	\$0	\$50,571,500

Prior Legislation Action							
Jan 2022							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2022	05/26/2023	n/a	11/03/2024		07/30/2029	
End Date	03/20/2024	08/01/2025	n/a	07/31/2030		07/29/2030	n/a



Winton Lake Aerial Sewer Structure and Weir Modifications

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10242180	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 7140	PSO(s): N/A
Watershed: West Branch Winton Woods		
Municipality: Springfield Township		
Neighborhood: Inside Ham Cty/Inside & Outsid		

Project Description

An interceptor along the north side of Winton Lake, east of Winton Road, experiences chronic sewage surfacing in recreational and residential areas. At a location roughly 5,000-ft east of Winton Road on the interceptor, the problem is created by a weir within gated structure No. 34912007, which purposely surcharges the sewer when Winton Lake has high water conditions, thereby counteracting the buoyancy of the pipe. The project will investigate the optimal height for the weir, then design and construct as necessary to achieve structural integrity of the gate, weir, and walls of the chamber, as well as the optimal hydraulic grade line within the system and ensure no adverse impact for the aerial sewers.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$110,000	\$0	\$110,000	\$0	\$110,000
Design	\$180,000	\$0	\$0	\$160,000	\$160,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$60,000	\$0	\$0	\$50,000	\$50,000
Right-of-Way	\$10,000	\$0	\$0	\$10,000	\$10,000
Construction	\$1,050,000	\$0	\$0	\$1,000,000	\$1,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$75,000	\$0	\$0	\$70,000	\$70,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,485,000	\$0	\$110,000	\$1,290,000	\$1,400,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$110,000	\$220,000	\$0	\$1,070,000	\$0	\$1,400,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	01/02/2024	n/a	02/04/2027		10/04/2027	
End Date	07/31/2024	08/12/2026	n/a	10/04/2027	08/03/2027	10/02/2028	n/a



Anthony to Innes Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10242185	WWIP Index #: N/A	CSO(s): 125
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 7143	PSO(s): N/A
Watershed: West Fork		
Municipality: City of Cincinnati		
Neighborhood: Northside		

Project Description

The project area includes approximately 600-ft. of 12- to 15-in. clay sewer within the Northside neighborhood that cuts diagonally through backyards and underneath homes from Innes to Anthony Avenues. The sewer system has multiple high and extreme risk pipe segments, and potential capacity issues. Planning activities will update condition assessment information and modeling to evaluate feasible alternatives for sewer replacement, rehabilitation, and capacity improvements..

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$100,000	\$0	\$110,000	\$0	\$110,000
Design	\$120,000	\$0	\$0	\$150,000	\$150,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$120,000	\$0	\$0	\$30,000	\$30,000
Right-of-Way	\$25,000	\$0	\$0	\$40,000	\$40,000
Construction	\$620,000	\$0	\$0	\$1,000,000	\$1,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$85,000	\$0	\$0	\$70,000	\$70,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,070,000	\$0	\$110,000	\$1,290,000	\$1,400,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$110,000	\$220,000	\$0	\$0	\$1,070,000	\$1,400,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	07/31/2024	12/03/2025	02/11/2028		08/13/2029	
End Date	07/31/2024	08/25/2027	06/03/2027	08/13/2029	06/13/2029	08/12/2030	n/a



Bold Face Pump Station

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10242190	WWIP Index #: NA	CSO(s): 419,420,421
Project Type: Treatment Facility	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Mill Creek	Sanitary Sewer No: 7159	PSO(s): N/A
Watershed: Bold Face Creek		
Municipality: City of Cincinnati		
Neighborhood: Sedamsville		

Project Description

The Bold Face Pump Station is an aging facility with numerous operations, maintenance, and performance issues. Additionally, this facility lacks the capacity to handle wet weather flows which contributes to overflows at CSO 419. This project will evaluate alternatives for replacement or elimination of the pump station. The evaluation will include the force main, adjacent high extreme-risk sewer assets, as well as the gates that control flow to the Pump Station. This project is located in the Sedamsville neighborhood of Cincinnati, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,067,200	\$0	\$500,000	\$0	\$500,000
Design	\$1,708,800	\$0	\$0	\$1,708,800	\$1,708,800
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$18,500	\$0	\$0	\$18,500	\$18,500
Right-of-Way	\$554,000	\$0	\$0	\$554,000	\$554,000
Construction	\$24,158,600	\$0	\$0	\$24,158,000	\$24,158,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$2,885,400	\$0	\$0	\$2,885,400	\$2,885,400
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$30,392,500	\$0	\$500,000	\$29,324,700	\$29,824,700

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$500,000	\$2,281,300	\$0	\$0	\$27,043,400	\$29,824,700

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	07/31/2024	12/03/2025	02/11/2028		08/13/2029	
End Date	07/31/2024	08/25/2027	06/03/2027	08/13/2029	06/13/2029	08/12/2030	n/a



Paris Street and Kinsey Avenue

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10242195	WWIP Index #: N/A	CSO(s): 461	
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A	
WWTP Basin: Mill Creek	Sanitary Sewer No: 7184	PSO(s): N/A	
Watershed: New Baltimore			
Municipality: City of Cincinnati			
Neighborhood: Mt. Auburn			

Project Description

In the Mt. Auburn neighborhood of Cincinnati, near the intersection of Paris street and Kinsey avenue, a confluence of deteriorating combined sewer pipes exists underneath multiple properties. Over the years service laterals have been disconnected from these sewers in lieu of new combined sewers in public ROW. These old sewers present critical problems for WWC, as they are beginning to deteriorate and have limited MH access. A capital project is needed to address rehabilitation or abandonment of these assets.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$50,000	\$0	\$50,000	\$0	\$50,000
Design	\$50,000	\$0	\$0	\$50,000	\$50,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$27,900	\$0	\$0	\$27,900	\$27,900
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$80,000	\$0	\$0	\$80,000	\$80,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$7,000	\$0	\$0	\$7,000	\$7,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$214,900	\$0	\$50,000	\$164,900	\$214,900

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$50,000	\$0	\$77,900	\$0	\$87,000	\$214,900

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	01/02/2025	n/a	06/07/2027		09/05/2028	
End Date	08/28/2024	01/06/2027	n/a	09/05/2028	06/06/2028	09/04/2029	n/a



CSO 424/425 Compliance Improvements

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10242205 Project Type: Sewer WWTP Basin: Mill Creek Watershed: Bold Face Creek Municipality: City of Cincinnati Neighborhood: Lower Price Hill	WWIP Index #: N/A Project Phase: Preplanning Sanitary Sewer No: 7186	CSO(s): 424,425 SSO(s): N/A PSO(s): N/A

Project Description

This project will evaluate alternatives to optimize the hydraulics of underflow sewers of CSOs 424 and 425 to reduce the overall potential for overflows. The current configuration of the underflow pipes presents a consistent operation and maintenance (O&M) problem as it is both aging and relatively at a flat grade. In addition, the 12-inch underflow sewer pipes make roughly three 90-degree turns in order to connect to the 36-inch interceptor pipe and this creates an opportunity for blockages where debris can easily collect at the bends. This site has been a reoccurring problem (approximately 50 overflows since 2020) and all the cleaning and inspection conducted by WWC crews has not been able to remedy the issue.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$50,000	\$0	\$50,000	\$0	\$50,000
Design	\$50,000	\$0	\$0	\$50,000	\$50,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$27,900	\$0	\$0	\$27,900	\$27,900
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$105,800	\$0	\$0	\$105,800	\$105,800
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$7,000	\$0	\$0	\$7,000	\$7,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$240,700	\$0	\$50,000	\$190,700	\$240,700

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$50,000	\$77,900	\$0	\$112,800	\$0	\$240,700

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	08/28/2024	n/a	02/04/2027		05/04/2028	
End Date	08/28/2024	08/26/2026	n/a	05/04/2028	02/04/2028	05/04/2029	n/a



PRWWTP Sludge Storage Tank with Odor Control

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10252020	WWIP Index #:	CSO(s): N/A
Project Type: Treatment Facility	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Polk Run	Sanitary Sewer No: 6981	PSO(s): N/A
Watershed: Polk Run		
Municipality: Symmes Township		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

The existing sludge storage tanks, constructed in 1968, show signs of structural failure, do not provide the capacity needed by MSD's Wastewater Treatment Division, and currently do not have an odor control system in service due to its poor performance. These current conditions of the sludge storage tanks incur the following at risks at the Polk Run WWTP: structural failure, insufficient sludge storage capacity, and creating issues for inefficient plant operations that can lead to discharge permit violations. Further, the odorous emissions produced from the sludge storage tanks contribute to off-site odors.

This project will expand the sludge storage capacity at the Polk Run WWTP by constructing new sludge storage tanks with a new building for equipment and controls and will mitigate odor at the sludge storage tanks by installing a new odor control system. The increased storage volume will provide flexibility for plant operations to better manage solids to meet permitted discharge effluent limits and odor compliance goals and increased maintainability by providing redundancy.

This project is located at the Polk Run WWTP at 9744 East Kemper Road in Symmes Township, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$208,773	\$0	\$0	\$208,773
Design	\$340,000	\$816,400	\$0	\$0	\$816,400
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$40,000	\$40,000	\$0	\$0	\$40,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$1,590,000	\$0	\$10,847,000	\$0	\$10,847,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$197,000	\$0	\$1,489,000	\$0	\$1,489,000
Interest / Financing	\$0	\$0	\$366,600	\$0	\$366,600
Total	\$2,167,000	\$1,065,173	\$12,702,600	\$0	\$13,767,773

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$1,065,173	\$12,702,600	\$0	\$0	\$0	\$0	\$13,767,773

Prior Legislation Action							
Feb 2020, Apr 2020, Jun 2021, Nov 2021							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/26/2019	09/27/2021	n/a	07/07/2023		10/06/2025	
End Date	09/08/2021	01/11/2023	n/a	10/06/2025	07/07/2025	10/05/2026	n/a



PRWWTP Screening and Grit Process Renewal

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10252025	WWIP Index #: N/A	CSO(s): N/A
Project Type: Treatment Facility	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Polk Run	Sanitary Sewer No:	PSO(s): N/A
Watershed: Polk Run		
Municipality: Symmes Township		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

The Polk Run WWTP currently operates an outdoor screening process that is prone to freezing in the winter, odors in the summer, and utilizes several assets that have reached the end of their useful life. The grit removal process has several O&M issues that cause poor performance and grit accumulation downstream. This project is intended to improve the operations and reliability of the Screening and Grit Removal processes at the Polk Run WWTP. The project will evaluate each process for repair or replacement. Additionally, options for the construction of a screening building, and screening bypass will be evaluated. The Polk Run WWTP is located in Symmes Township.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$458,800	\$0	\$300,000	\$0	\$300,000
Design	\$805,300	\$0	\$0	\$805,300	\$805,300
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$50,000	\$0	\$0	\$50,000	\$50,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$9,669,000	\$0	\$0	\$9,669,000	\$9,669,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$1,982,100	\$0	\$0	\$1,982,100	\$1,982,100
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$12,965,200	\$0	\$300,000	\$12,506,400	\$12,806,400

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$300,000	\$855,300	\$0	\$11,651,100	\$0	\$12,806,400

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	07/31/2024	n/a	01/07/2027		07/10/2028	
End Date	07/31/2024	07/29/2026	n/a	07/10/2028	05/09/2028	07/09/2029	n/a



SCWWTP Secondary Clarifier Upgrade

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10262015	WWIP Index #: N/A	CSO(s):	N/A
Project Type: Treatment Facility	Project Phase: Planning	SSO(s):	N/A
WWTP Basin: Sycamore	Sanitary Sewer No: 7058	PSO(s):	N/A
Watershed: Sycamore			
Municipality: Sycamore Township			
Neighborhood: Inside Ham Cty/Outside City			

Project Description

The Sycamore Creek Wastewater Treatment Plant (SCWWTP) utilizes three 95 foot diameter circular secondary settling tanks or clarifiers for liquid solid separation of the mixed liquor suspended solids. The three clarifiers were constructed in 2010, 1995, and 1984. Each clarifier is also equipped with a rotating mechanism that collects the solids that accumulate in the tank. These collectors, including the gear motors and drive units, are original to the tanks.

The clarifier tanks are nearing the end of their useful life and have damage to the concrete floors that are impeding their operation. This project will evaluate repair or replacement of the clarifiers at the Sycamore Creek Wastewater Treatment Plant, including the collector arms, gear motors and drive units. Redundancy in the secondary clarification process will also be evaluated.

This project is located at the Sycamore WWTP at 9273 Old Remington Road in Sycamore Township, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$227,216	\$227,216	\$0	\$0	\$227,216
Design	\$369,460	\$0	\$460,000	\$0	\$460,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$25,000	\$0	\$40,000	\$0	\$40,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$3,323,627	\$0	\$0	\$4,400,000	\$4,400,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$681,344	\$0	\$0	\$940,000	\$940,000
Interest / Financing	\$0	\$0	\$0	\$146,000	\$146,000
Total	\$4,626,647	\$227,216	\$500,000	\$5,486,000	\$6,213,216

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$227,216	\$500,000	\$0	\$5,486,000	\$0	\$0	\$6,213,216

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2021	05/18/2023	n/a	12/15/2025		06/18/2027	
End Date	05/17/2023	06/25/2025	n/a	06/18/2027	04/19/2027	06/16/2028	n/a



Dry Run Area Sewers Phase 2 Contract RB

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10270007	WWIP Index #: PN# 20	CSO(s): N/A
Project Type: Sewer	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Little Miami	Sanitary Sewer No: 6354	PSO(s): N/A
Watershed: Dry Run		
Municipality: Anderson Township		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

The project consists of constructing approximately 5,968 linear feet of 42-inch sanitary sewer, along with manholes and other appurtenances. The project is entirely along Roundbottom Road, starting at a point approximately 1,150 feet northeast of the intersection of Roundbottom and Edwards Roads at the terminus of Contract A and ending at point approximately 970 feet northeast of the intersection with Broadwell Road. The project is located in Anderson Township, Hamilton County, Ohio.

PDE was accomplished under 10270005.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$30,000	\$0	\$30,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$6,677,000	\$0	\$8,500,000	\$0	\$8,500,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$170,100	\$0	\$0	\$0	\$0
Interest / Financing	\$334,000	\$0	\$0	\$0	\$0
Total	\$7,181,100	\$0	\$8,530,000	\$0	\$8,530,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$8,530,000	\$0	\$0	\$0	\$0	\$8,530,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	01/01/2023	n/a	11/10/2023		05/12/2025	
End Date	n/a	05/24/2023	n/a	05/12/2025	03/12/2025	05/11/2026	n/a



Paxton Avenue Sewer Rehabilitation

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10270155	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Little Miami	Sanitary Sewer No: 6648	PSO(s): N/A
Watershed: East Duck Creek		
Municipality: City of Cincinnati		
Neighborhood: Oakley		

Project Description

This project was nominated by WWC due to the deteriorating condition of large sewer segments under buildings. The BCE for this project was developed in 2012, but the alternatives are being re-evaluated. The scope of work includes expanded project area, and hydraulic of the system are being re-evaluated.

This project will rehabilitate approximately 1086 feet of existing 84-inch diameter arch pipe and 54 feet of existing 84-inch x 108-inch rectangular combine sewer. The sewer was installed in 1932.

This project will mitigate risk of pipe failure under structures.

This project is located in the Duck Creek watershed and Oakley neighborhood, in the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$25,561	\$0	\$0	\$25,561
Design	\$176,100	\$0	\$145,000	\$0	\$145,000
Pre-Construction Services	\$93,200	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$43,300	\$0	\$46,800	\$0	\$46,800
Right-of-Way	\$20,000	\$0	\$0	\$0	\$0
Construction	\$1,552,700	\$0	\$0	\$2,454,000	\$2,454,000
Program Management	\$0	\$2,879	\$0	\$0	\$2,879
Construction Services	\$181,500	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$2,066,800	\$28,440	\$191,800	\$2,454,000	\$2,674,240

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$28,440	\$191,800	\$0	\$0	\$2,454,000	\$0	\$2,674,240

Prior Legislation Action							
May 2014, Dec 2014, Aug 2017							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2019	01/03/2023	10/02/2024	12/14/2026		06/16/2028	
End Date	10/26/2022	06/24/2026	04/02/2026	06/16/2028	04/17/2028	06/15/2029	n/a



Elsmere Avenue from Slane to Lafayette Sewer Replacement

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10270225	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Little Miami	Sanitary Sewer No: 6697	PSO(s): N/A
Watershed: Upper Duck Creek		
Municipality: City of Norwood		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

The project was nominated by Wastewater Collection division (WWC) due to the observed structural defects and because the existing assets within the project area are located directly adjacent to, or underneath, several residences. During Planning efforts, three separate sewer crossings that run through the cross section of the sewer were discovered, which would not allow the sewer to be lined, and it was found that many homes in the project area experience sewer backups during wet weather.

The recommended alternative includes relocating the alignment of 37713030-37713031-37804004. The new alignment consists of approximately 1,000 feet of 54" and 1,720 feet of 60" combined sewer. Additionally, this alternative requires approximately 13 manholes, 120 laterals to be reconstructed with two-way cleanouts, and 1,600 feet of pipe to be filled, sealed, and abandoned.

If the project does not proceed forward, existing assets will remain underneath residential structures, presenting risk. Also, the area has significant capacity issues that would go unaddressed. The project is projected to remove 29 local SBUs from the project area during the 10-year 24-hour storm.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$163,000	\$0	\$0	\$163,000
Design	\$140,000	\$0	\$752,900	\$0	\$752,900
Pre-Construction Services	\$29,000	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$240,000	\$0	\$200,800	\$0	\$200,800
Right-of-Way	\$142,500	\$0	\$150,300	\$0	\$150,300
Construction	\$800,000	\$0	\$0	\$8,210,000	\$8,210,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$100,000	\$0	\$0	\$12,300	\$12,300
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,451,500	\$163,000	\$1,104,000	\$8,222,300	\$9,489,300

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$163,000	\$1,104,000	\$0	\$0	\$8,222,300	\$0	\$9,489,300

Prior Legislation Action							
Jan 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	04/29/2019	01/03/2023	06/26/2024	09/14/2026		03/17/2028	
End Date	02/22/2023	03/18/2026	12/25/2025	03/17/2028	01/17/2028	03/16/2029	n/a



LMWWTP Flow Meter Renewal

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10272065	WWIP Index #: NA	CSO(s): N/A
Project Type: Treatment Facility	Project Phase: Design/ROW	SSO(s): N/A
WWTP Basin: Little Miami	Sanitary Sewer No: 7059	PSO(s): N/A
Watershed: Lower Duck Creek		
Municipality: City of Cincinnati		
Neighborhood: East End		

Project Description

This project will upgrade flow monitoring in the following three process areas at the Little Miami WWTP: Four Mile PS, the Little Miami PS, and Aeration. This project will replace seven existing flow meters with 11 new flow meters (two at Four Mile Pump Station, five at Little Miami Pump Station, and Four at Secondary Influent). Isolation valves will also be installed in the Little Miami PS and Aeration process areas. Piping modification, electrical updates, and I&C work will be completed as required. This project is located at the LMWWTP in the East End neighborhood in the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$510,000	\$510,000	\$0	\$0	\$510,000
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$120,000	\$120,000	\$0	\$0	\$120,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$6,100,000	\$0	\$7,791,000	\$0	\$7,791,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$763,000	\$0	\$400,000	\$0	\$400,000
Interest / Financing	\$0	\$0	\$176,000	\$0	\$176,000
Total	\$7,493,000	\$630,000	\$8,367,000	\$0	\$8,997,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$630,000	\$8,367,000	\$0	\$0	\$0	\$0	\$8,997,000

Prior Legislation Action							
Dec 2020							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	01/04/2021	n/a	06/09/2023		08/09/2024	
End Date	n/a	11/30/2022	n/a	08/09/2024	06/10/2024	08/08/2025	n/a



Summerview Low Pressure Forcemain

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10272070	WWIP Index #: N/A	CSO(s): N/A
Project Type: Sewer	Project Phase: Planning	SSO(s): N/A
WWTP Basin: Little Miami	Sanitary Sewer No: 7072	PSO(s): N/A
Watershed: Eight Mile		
Municipality: Anderson Township		
Neighborhood: Inside Ham Cty/Outside City		

Project Description

This project was nominated due to frequent odor complaints at 7501 Ayers Road. It will extend the existing low pressure force main (LPFM) starting from MH 51701009 and connecting it to MH 51701005 in Ayers Road, which is approximately 260-ft. Extending the LPFM farther downstream to the proposed connection would allow for the LPFM to discharge into the gravity sewer with a reasonable base flow and would reduce flow settling in the gravity system, which would then minimize odors for the homeowners. Extending the LPFM further downstream will effectively minimize odors at 7501 Ayers Road, which could reduce odor complaints and generation of H2S, and possibly eliminate the need for chemical treatment.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$50,335	\$50,335	\$0	\$0	\$50,335
Design	\$63,791	\$63,800	\$0	\$0	\$63,800
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$19,000	\$19,000	\$0	\$0	\$19,000
Right-of-Way	\$0	\$0	\$26,800	\$0	\$26,800
Construction	\$302,645	\$0	\$0	\$109,600	\$109,600
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$31,475	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$467,246	\$133,135	\$26,800	\$109,600	\$269,535

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$133,135	\$26,800	\$0	\$0	\$109,600	\$0	\$269,535

Prior Legislation Action							
Dec 2020, Jan 2022							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2021	01/01/2022	04/17/2024	06/12/2026		12/13/2027	
End Date	06/15/2022	01/07/2026	04/16/2025	12/13/2027	10/13/2027	12/11/2028	n/a



Ault Park Sewer Stabilization Study

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10272085	WWIP Index #: N/A	CSO(s): 503
Project Type: Sewer	Project Phase: Preplanning	SSO(s): N/A
WWTP Basin: Little Miami	Sanitary Sewer No: 7191	PSO(s): N/A
Watershed: Lower Duck Creek		
Municipality: City of Cincinnati		
Neighborhood: Mt. Lookout		

Project Description

The project is located in the Mount Lookout neighborhood of Cincinnati, within the boundaries of Ault Park, within the East Duck Creek watershed and Little Miami Basin. The existing 48” and 54” combined sewer system is located beneath a creek within Ault Park. Due to creek erosion and destabilization, several sewer segments are partially exposed with joint separation. The overall condition of the sewer system under the creek is unknown due to accessibility challenges. A planning level study will assess the condition of the sewer system, evaluate creek conditions, identify potential solutions and future projects.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$250,000	\$0	\$250,000
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$250,000	\$0	\$250,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/03/2023	n/a	n/a	n/a		n/a	
End Date	08/28/2024	n/a	n/a	n/a		n/a	n/a



Hydraulic Modeling 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10280243	WWIP Index #: N/A	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No: 6880	PSO(s): N/A
Watershed: Multiple		
Municipality: System Wide		
Neighborhood: Systemwide		

Project Description

Sewer modeling is used to assist in the planning and design process and is required as part of the Global Consent Decree and MSD's CSO NPDES permit. MSD is committed to ensuring its system-wide model meets the latest standards and provides the best available tool for assessing, planning, and designing MSD's infrastructure. Work completed for specific projects will be charged to project IDs. This allowance will be used to incorporate project specific model changes into the System-Wide Model for each of MSD's seven sewersheds. Prior legislation was funded for the Hydraulic Model Program under various Project IDs.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,200,000	\$0	\$1,500,000	\$0	\$1,500,000
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,200,000	\$0	\$1,500,000	\$0	\$1,500,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$1,500,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	n/a	n/a	n/a		n/a	
End Date	12/31/2023	n/a	n/a	n/a		n/a	n/a



Critical Asset Management Projects 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10280723	WWIP Index #: N/A	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed: Multiple		
Municipality:		
Neighborhood:		

Project Description

This allowance provides capital resources to address a risk-based prioritized wastewater treatment expenditure that are critical to sustain operational, regulatory, and safety expected performance levels. Expenditures are identified, planned, prioritized, and executed within the allowance annual budget.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$6,000,000	\$0	\$6,427,350	\$0	\$6,427,350
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$6,000,000	\$0	\$6,427,350	\$0	\$6,427,350

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$6,427,350	\$0	\$0	\$0	\$0	\$6,427,350

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	01/03/2023		n/a	
End Date	n/a	n/a	n/a	12/29/2023		n/a	n/a



MSD Asset Inventory 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10280823	WWIP Index #:	CSO(s): N/A
Project Type: Allowance	Project Phase:	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed: Multiple		
Municipality: System Wide		
Neighborhood: Systemwide		

Project Description

This allowance will fund a one-time project to build-up spare replacement part inventory for MSD’s most critical wastewater treatment process equipment. This project is proposed in response to sustained global and domestic supply-chain disruptions, and in recognition of the fact that MSD must transition away from just-in-time inventory management in order to comply with its permits. Asset inventory provides replacement parts and components necessary to sustain operational, regulatory, and safety levels of service throughout all MSD facilities. This allowance is important to allow MSD to operate efficiently and minimize costly downtime, and will be used to fund the purchase of assets that may be capitalized according to GASB guidance.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$4,000,000	\$0	\$4,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$4,000,000	\$0	\$4,000,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$4,000,000	\$0	\$0	\$0	\$0	\$4,000,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	01/01/2023		n/a	
End Date	n/a	n/a	n/a	12/16/2023		n/a	n/a



Prioritized Wastewater Collection System Improvements 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10281323	WWIP Index #: N/A	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed: Multiple		
Municipality: System Wide		
Neighborhood: Systemwide		

Project Description

This allowance is intended to repair and renew failed and or structurally deteriorated sewer segments by responding to sudden, unexpected system failures, completing planned repairs and improvements to high-risk utility-owned assets, to remedy structurally failed privately-owned active building sewers located within the right-of-way, and making prioritized system improvements through construction coordination of projects. Collectively, this operational strategy will assist in achieving and maintaining acceptable levels of service at the lowest life-cycle cost.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$18,200,000	\$0	\$18,200,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$18,200,000	\$0	\$18,200,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$18,200,000	\$0	\$0	\$0	\$0	\$18,200,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	01/01/2023		n/a	
End Date	n/a	n/a	n/a	12/31/2023		n/a	n/a



CIP Planning Projects 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)	
Project ID: 10282023	WWIP Index #: N/A	CSO(s):	N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s):	N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s):	N/A
Watershed: Multiple			
Municipality:			
Neighborhood:			

Project Description

This project provides appropriated funds for the resources necessary for the planning of capital projects for advancement to the design phase.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,000,000	\$0	\$2,249,573	\$0	\$2,249,573
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,000,000	\$0	\$2,249,573	\$0	\$2,249,573

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$2,249,573	\$0	\$0	\$0	\$0	\$2,249,573

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	n/a	n/a	n/a		n/a	
End Date	12/31/2023	n/a	n/a	n/a		n/a	n/a



Flow Monitoring 2023

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 10282423	WWIP Index #: N/A	CSO(s): N/A
Project Type: Allowance	Project Phase:	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No: 7125	PSO(s): N/A
Watershed: Multiple		
Municipality: System Wide		
Neighborhood: Systemwide		

Project Description

Flow monitoring is an essential activity for the improvement of the district’s hydraulic models and in the development of capital projects. Flow monitoring is the action of collecting data from the field regarding the hydraulic conditions in the collection system, which is then used to calibrate or improve sections of the system wide models so that the models can support alternative analysis and project planning. The timing and duration of monitoring depends on the use of the data but must be at least one full year for projects seeking wet weather solutions or improving the system wide model. Small projects in separated areas may not require a full year. Meters are deployed in all regions of the MSD service area, as needed, to support specific project needs. MSD’s Remote Monitoring Section optimizes internal and external resources to provide flow monitoring services for an average of \$15,000 meter per year. Based on historical requests and projected needs, the allowance is funded to support the deployment of 180 flow monitors in the collection system for the coming year.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$1,008,000	\$0	\$2,700,000	\$0	\$2,700,000
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$1,008,000	\$0	\$2,700,000	\$0	\$2,700,000

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$0	\$2,700,000	\$0	\$0	\$0	\$0	\$2,700,000

Prior Legislation Action							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	01/01/2023	n/a	n/a	n/a		n/a	
End Date	12/31/2023	n/a	n/a	n/a		n/a	n/a



Programmatic Contingency

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 13090000	WWIP Index #: N/A	CSO(s): N/A
Project Type: Contingency	Project Phase:	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed:		
Municipality: System Wide		
Neighborhood: Systemwide		

Project Description

For 2021, the Allowance for Programmatic Contingency has been estimated at \$5 million which is consistent with expenditures from this fund in recent years, and consistent with industry standard benchmarking. Costs are allocated to specific capital projects as they are expended.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$50,000,000	\$13,438,000	\$5,000,000	\$20,000,000	\$38,438,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$50,000,000	\$13,438,000	\$5,000,000	\$20,000,000	\$38,438,000

5 Year Projected Legislation

Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$13,438,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$38,438,000

Prior Legislation Action

Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	01/03/2011		n/a	
End Date	n/a	n/a	n/a	12/31/2016		n/a	n/a



MSD LABOR

2023 Capital Budget and Capital Improvement Program

Project Overview		Benefited CSO(s), SSO(s), PSO(s)
Project ID: 13099999	WWIP Index #: N/A	CSO(s): N/A
Project Type: Allowance	Project Phase: Allowance	SSO(s): N/A
WWTP Basin: System Wide	Sanitary Sewer No:	PSO(s): N/A
Watershed: Multiple		
Municipality: Multiple		
Neighborhood: Systemwide		

Project Description

This allowance was initiated in 2020 to allow all MSD staff to discontinue direct charges to projects and instead charge to an allowance that would then be allocated back to projects based on a formula. The cost of MSD labor has been removed from project specific budgets to avoid double counting.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$15,985,706	\$8,500,000	\$37,080,963	\$61,566,669
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$15,985,706	\$8,500,000	\$37,080,963	\$61,566,669

5 Year Projected Legislation						
Prior Legislation	2023	2024	2025	2026	2027	Project Total
\$15,985,706	\$8,500,000	\$8,797,500	\$9,105,413	\$9,424,103	\$9,753,947	\$61,566,669

Prior Legislation Action							
Jan 2020, Dec 2020, Jan 2021, Jan 2022							
Project Schedule							
Project Phase	Planning	Design	Right of Way	Construction	Substantial Comp.	Closeout	Regulatory Compliance
Start Date	n/a	n/a	n/a	n/a		n/a	
End Date	n/a	n/a	n/a	n/a		n/a	n/a

Project ID	Project Type	Project Name	Project Phase(s)	2024 Total Requested	Total Project Cost
10130280	PS	Addyston Pump Station Elimination	(Design,Easement)	\$593,900	\$3,715,282
10132930	SWR	Wulff Run Sewer Replacement	(Design)	\$1,073,000	\$29,967,100
10142420	SWR	Vine Street at Erkenbrecher Avenue Sewer Separation	(Design,Easement)	\$3,450,000	\$26,700,000
10144889	FAC	Mill Creek WWTP HRT Facility	(Planning,Design)	\$23,477,000	\$235,935,600
10172095	SWR	CSO 182 Strategic Sewer Separation	(Design,Easement)	\$944,700	\$6,664,123
10172955	FAC	LMWWTP High Rate Treatment Preparation	(Design)	\$2,705,000	\$49,988,800
10180124	ALW	Main Sewer Renewal Program 2024	(Construction)	\$6,662,658	\$6,662,658
10180224	ALW	Manhole Renewal Program 2024	(Construction)	\$1,079,093	\$1,079,093
10190224	ALW	Phase 2 WWIP Planning 2024	(Planning)	\$2,771,796	\$2,771,796
10199024	ALW	Program Management and Support Services 2024	(Design)	\$7,394,299	\$7,394,299
10199124	ALW	Hamilton County Utility Oversight and Coordination 2024	(Design)	\$4,878,359	\$4,878,359
10222005	PS	Colerain-Bevis Pump Station Replacement	(Design,Easement)	\$1,935,000	\$6,995,000
10222010	FAC	TCWWTP Aeration Basin Conversion	(Design)	\$1,307,100	\$11,150,300
10222015	PS	Stratford Lake Pump Station Elimination	(Construction)	\$150,000	\$246,733
10230130	SWR	Dry Weather Channel for SS 937	(Design)	\$616,500	\$1,217,405
10230170	SWR	Harrison Avenue North and South Hydraulic Improvements	(Design,Easement)	\$955,000	\$5,925,000
10230655	SWR	Muddy Creek Road and Rosebud Drive Sewer Replacement	(Design,Easement)	\$300,000	\$895,000
10232005	SWR	Benz Avenue (HN 1111) Sewer Replacement	(Design,Easement)	\$161,000	\$371,000
10232025	SWR	3731 Glenmore Avenue Sewer Evaluation	(Design)	\$154,000	\$566,000

Project ID	Project Type	Project Name	Project Phase(s)	2024 Total Requested	Total Project Cost
10240271	SWR	Lower Mill Creek HW DW Protection	(Construction)	\$5,646,800	\$8,236,771
10240320	SWR	Wilder Avenue Sewer Replacement	(Construction)	\$679,700	\$1,200,918
10240330	SWR	Otte Avenue Sewer Replacement	(Construction)	\$797,600	\$946,563
10240790	SWR	Clifton Avenue at Parker Street Sewer Replacement	(Planning)	\$370,000	\$11,870,000
10240835	SWR	CSO 488 Access Lane	(Construction)	\$68,000	\$109,900
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation	(Design,Easement)	\$358,000	\$596,000
10242080	SWR	Fenton Avenue (HN 1336) Sewer Relocation	(Design,Easement)	\$435,000	\$1,765,000
10242090	SWR	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab	(Design,Easement)	\$295,000	\$993,000
10242105	SWR	Loth Street (HN 2272) Sewer Relocation and Rehab	(Design,Easement)	\$732,000	\$2,592,000
10242110	SWR	Central Avenue and W 9th Street Sewer	(Design,Easement)	\$555,000	\$1,935,000
10242115	SWR	Central Avenue (HN 1964) Sewer	(Design,Easement)	\$283,500	\$603,500
10242120	SWR	Elberon Avenue Sewer	(Design,Easement)	\$390,000	\$1,650,000
10242125	SWR	Sycamore Street Sewer	(Design,Easement)	\$825,000	\$2,935,000
10242140	FAC	MCWWTP Dewatering Building Odor Control	(Construction)	\$2,442,600	\$3,594,600
10242150	FAC	Daly Road Treatment Facility Modifications	(Construction)	\$940,800	\$1,061,100
10242180	SWR	Winton Lake Aerial Sewer Structure and Weir Modifications	(Design,Easement)	\$220,000	\$1,290,000
10242185	SWR	Anthony to Innes Sewer Replacement	(Design,Easement)	\$220,000	\$1,290,000
10242190	FAC	Bold Face Pump Station	(Design,Easement)	\$2,281,300	\$29,324,700
10242205	SWR	CSO 424 425 Compliance Improvements	(Design)	\$77,900	\$190,700

Project ID	Project Type	Project Name	Project Phase(s)	2024 Total Requested	Total Project Cost
10252025	FAC	PRWWTP Screening and Grit Process Renewal	(Design)	\$855,300	\$12,506,400
10270110	SWR	Linwood Avenue Sewer Replacement	(Construction)	\$799,500	\$1,284,167
10270165	SWR	Delta and Greist Sewer Replacement	(Construction)	\$683,437	\$1,088,052
10270175	SWR	East Hill Ave Sewer Replacement	(Construction)	\$2,304,000	\$2,877,600
10272050	PS	Wayside Hills Pump Station	(Design,Easement)	\$642,500	\$2,332,500
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements	(Design)	\$204,700	\$1,816,500
10272080	SWR	Madison Rd and Edwards Rd Sewer Improvements	(Design,Easement)	\$430,900	\$3,375,325
10280244	ALW	Hydraulic Modeling 2024	(Planning)	\$1,552,500	\$1,552,500
10280724	ALW	Critical Asset Management Projects 2024	(Construction)	\$6,652,308	\$6,652,308
10281100	FAC	LMWWTP Solids Disposal With Odor Control	(Construction)	\$152,149,000	\$168,792,125
10281324	ALW	Prioritized Wastewater Collection System Improvements 2024	(Construction)	\$18,837,000	\$18,837,000
10282024	ALW	CIP Planning Projects 2024	(Planning)	\$2,328,309	\$2,328,309
10282424	ALW	Flow Monitoring 2024	(Planning)	\$2,794,500	\$2,794,500
13090000	CON	Programmatic Contingency	(Design)	\$5,000,000	\$33,438,000
13099999	ALW	MSD LABOR	(Design)	\$8,797,500	\$53,066,669
53 CIP Projects for 2024				\$282,258,059	\$788,050,255

Project ID	Project Type	Project Name	Project Phase(s)	2025 Total Requested	Total Project Cost
10142950	SWR	East Branch Ohio River Interceptor Extension	(Construction)	\$84,000,000	\$84,000,000
10144888	FAC	MCWWTP High Rate Treatment Pump Station	(Construction)	\$126,230,000	\$140,730,000
10172950	FAC	LMWWTP Electrical, Primary, and Secondary Improvements	(Construction)	\$60,826,600	\$60,826,600
10172960	FAC	LMWWTP HRT Facility, Plant Pumping, and Disinfection Upgrade	(Design,Easement)	\$24,662,500	\$246,527,500
10180125	ALW	Main Sewer Renewal Program 2025	(Construction)	\$6,895,852	\$6,895,852
10180225	ALW	Manhole Renewal Program 2025	(Construction)	\$1,116,862	\$1,116,862
10190225	ALW	Phase 2 WWIP Planning 2025	(Planning)	\$2,868,809	\$2,868,809
10199025	ALW	Program Management and Support Services 2025	(Design)	\$7,653,100	\$7,653,100
10199125	ALW	Hamilton County Utility Oversight and Coordination 2025	(Design)	\$5,049,102	\$5,049,102
10230090	PS	Barrington Hills, Barrington Hills BLK. F, Gil Volz, and Kirkridge Acres P.S. Eliminations	(Construction)	\$8,222,400	\$10,508,945
10230150	SWR	Addyston Creek and Sewer Rehab	(Construction)	\$477,000	\$819,283
10240275	SWR	SSO 603 and 704 Improvements	(Construction)	\$3,660,000	\$11,182,581
10240445	SWR	Colton Lane Sewer Replacement	(Construction)	\$425,900	\$478,544
10240560	SWR	Schulte Drive Sewer Replacement	(Construction)	\$485,600	\$650,330
10240640	FAC	MCWWTP Dewatering Building Improvements	(Design)	\$8,060,000	\$116,913,000
10240720	SWR	Valleyview Court Sewer Replacement	(Construction)	\$848,200	\$1,347,200
10240725	SWR	Shaffer Avenue Sewer Replacement	(Construction)	\$944,200	\$1,421,700
10240735	SWR	De Votie Avenue Sewer Replacement	(Construction)	\$725,000	\$1,247,000

Project ID	Project Type	Project Name	Project Phase(s)	2025 Total Requested	Total Project Cost
10240755	SWR	Victory Parkway at Ledgewood Sewer Rehabilitation	(Construction)	\$7,799,590	\$8,324,590
10240760	SWR	Highland and Burnet Sewer Replacement	(Construction)	\$195,500	\$327,400
10240765	SWR	Fyffe Avenue Sewer	(Design,Easement)	\$265,130	\$1,097,130
10240775	SWR	Gilbert Avenue at Casino Sewer Replacement	(Construction)	\$4,499,700	\$5,002,400
10240790	SWR	Clifton Avenue at Parker Street Sewer Replacement	(Design,Easement)	\$2,340,000	\$11,500,000
10240810	SWR	Overlook Avenue near Glenway Ave Sewer Replacement	(Construction)	\$915,000	\$1,447,000
10240820	SWR	Reading Road at Stewart Place Sewer Replacement	(Construction)	\$499,800	\$865,800
10240855	SWR	Connecticut Avenue Sewer Replacement	(Construction)	\$3,071,400	\$3,957,400
10241905	SRC	Congress Run Stream Restoration and Bank Stabilization	(Construction)	\$2,217,000	\$2,383,000
10242025	SWR	Davey Avenue to Hamilton Avenue Sewer Replacement	(Construction)	\$513,100	\$1,099,600
10242030	SWR	Dorchester Avenue at Highland Avenue Sewer Replacement	(Construction)	\$844,600	\$1,061,260
10242035	SWR	Reading Road - 12th Street to E Liberty Street Sewer Replacement	(Construction)	\$1,347,200	\$1,785,600
10242085	PS	Village Woods Pump Station and System Improvements	(Construction)	\$524,000	\$758,000
10242155	SWR	Morrison Avenue Sewer Replacement	(Design,Easement)	\$390,000	\$2,340,000
10242165	FAC	MCWWTP Disinfection and Outfall	(Construction)	\$47,096,300	\$48,210,200
10242195	SWR	Paris Street and Kinsey Avenue	(Design)	\$77,900	\$164,900
10242200	SWR	Walnut Hills Cemetery Sewer Replacement	(Planning)	\$230,000	\$4,150,000

Project ID	Project Type	Project Name	Project Phase(s)	2025 Total Requested	Total Project Cost
10262015	FAC	SCWWTP Secondary Clarifier Upgrade	(Construction)	\$5,486,000	\$5,713,216
10270026	PS	Camargo Canyon Pump Station Elimination	(Construction)	\$1,178,400	\$1,642,695
10280245	ALW	Hydraulic Modeling 2025	(Planning)	\$1,606,838	\$1,606,838
10280725	ALW	Critical Asset Management Projects 2025	(Construction)	\$6,885,139	\$6,885,139
10281325	ALW	Prioritized Wastewater Collection System Improvements 2025	(Construction)	\$19,496,295	\$19,496,295
10282025	ALW	CIP Planning Projects 2025	(Planning)	\$2,409,800	\$2,409,800
10282425	ALW	Flow Monitoring 2025	(Planning)	\$2,892,308	\$2,892,308
13090000	CON	Programmatic Contingency	(Design)	\$5,000,000	\$28,438,000
13099999	ALW	MSD LABOR	(Design)	\$9,105,413	\$44,269,169
44 CIP Projects for 2025				\$470,037,538	\$908,064,148

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Project ID	Project Type	Project Name	Project Phase(s)	2026 Total Requested	Total Project Cost
10172955	FAC	LMWWTP High Rate Treatment Preparation	(Construction)	\$47,283,800	\$47,283,800
10180126	ALW	Main Sewer Renewal Program 2026	(Construction)	\$7,137,207	\$7,137,207
10180226	ALW	Manhole Renewal Program 2026	(Construction)	\$1,155,953	\$1,155,953
10190226	ALW	Phase 2 WWIP Planning 2026	(Planning)	\$2,969,218	\$2,969,218
10199026	ALW	Program Management and Support Services 2026	(Design)	\$7,920,959	\$7,920,959
10199126	ALW	Hamilton County Utility Oversight and Coordination 2026	(Design)	\$5,225,821	\$5,225,821
10222010	FAC	TCWWTP Aeration Basin Conversion	(Construction)	\$9,843,200	\$9,843,200
10240200	SWR	Harvey Ave-Hickman Ave Sewer Replacement	(Construction)	\$1,440,000	\$2,190,377
10240426	PS	Pleasant Run Pump Station Upgrades	(Construction)	\$26,890,000	\$33,096,239
10240740	SWR	Tennessee Avenue (HN 1754) Sewer Replacement	(Construction)	\$320,000	\$670,000
10240780	SWR	Galbraith Rd to Sheldon Avenue Sewer Replacement	(Construction)	\$462,700	\$1,080,200
10240785	SWR	Clifton Avenue from MLK to Howell Sewer Replacement	(Construction)	\$3,126,000	\$3,126,000
10240795	SWR	Central to McMicken at Stark St Sewer Replacement	(Construction)	\$1,985,000	\$2,051,000
10240845	SWR	Taft Road & McMillan Street Sewer Replacement	(Construction)	\$8,130,000	\$8,550,000
10240875	SWR	Ledgewood Ave Sewer Replacement	(Construction)	\$2,460,000	\$2,460,000
10242180	SWR	Winton Lake Aerial Sewer Structure and Weir Modifications	(Construction)	\$1,070,000	\$1,070,000
10242200	SWR	Walnut Hills Cemetery Sewer Replacement	(Design,Easement)	\$970,000	\$3,920,000
10242205	SWR	CSO 424 425 Compliance Improvements	(Construction)	\$112,800	\$112,800

Project ID	Project Type	Project Name	Project Phase(s)	2026 Total Requested	Total Project Cost
10252025	FAC	PRWWTP Screening and Grit Process Renewal	(Construction)	\$11,651,100	\$11,651,100
10270155	SWR	Paxton Avenue Sewer Rehabilitation	(Construction)	\$2,454,000	\$2,482,440
10270225	SWR	Elsmere Avenue from Slane to Lafayette Sewer Replacement	(Construction)	\$8,222,300	\$8,385,300
10272025	SWR	Wasson Ravine Sewer Replacement	(Construction)	\$2,115,000	\$2,832,895
10272070	SWR	Summerview Low Pressure Forcemain	(Construction)	\$109,600	\$242,735
10272075	SWR	Wayside Avenue and Colter Avenue Sewer Improvements	(Construction)	\$1,489,700	\$1,611,800
10280246	ALW	Hydraulic Modeling 2026	(Planning)	\$1,663,078	\$1,663,078
10280726	ALW	Critical Asset Management Projects 2026	(Construction)	\$7,126,119	\$7,126,119
10281326	ALW	Prioritized Wastewater Collection System Improvements 2026	(Construction)	\$20,178,666	\$20,178,666
10282026	ALW	CIP Planning Projects 2026	(Planning)	\$2,494,143	\$2,494,143
10282426	ALW	Flow Monitoring 2026	(Planning)	\$2,993,539	\$2,993,539
13090000	CON	Programmatic Contingency	(Design)	\$5,000,000	\$23,438,000
13099999	ALW	MSD LABOR	(Design)	\$9,424,103	\$35,163,756
31 CIP Projects for 2026				\$203,424,006	\$260,126,345

Project ID	Project Type	Project Name	Project Phase(s)	2027 Total Requested	Total Project Cost
10130566	FAC	Muddy Creek WWTP EHRT and Pump Station	(Construction)	\$157,743,000	\$166,470,369
10132930	SWR	Wulff Run Sewer Replacement	(Construction)	\$28,894,100	\$28,894,100
10142420	SWR	Vine Street at Erkenbrecher Avenue Sewer Separation	(Construction)	\$22,500,000	\$23,250,000
10172095	SWR	CSO 182 Strategic Sewer Separation	(Construction)	\$5,415,223	\$5,719,423
10180127	ALW	Main Sewer Renewal Program 2027	(Construction)	\$7,387,010	\$7,387,010
10180227	ALW	Manhole Renewal Program 2027	(Construction)	\$1,196,412	\$1,196,412
10190227	ALW	Phase 2 WWIP Planning 2027	(Planning)	\$3,073,141	\$3,073,141
10199027	ALW	Program Management and Support Services 2027	(Design)	\$8,198,193	\$8,198,193
10199127	ALW	Hamilton County Utility Oversight and Coordination 2027	(Design)	\$5,408,725	\$5,408,725
10222005	PS	Colerain-Bevis Pump Station Replacement	(Construction)	\$4,750,000	\$5,060,000
10230170	SWR	Harrison Avenue North and South Hydraulic Improvements	(Construction)	\$4,680,000	\$4,970,000
10230655	SWR	Muddy Creek Road and Rosebud Drive Sewer Replacement	(Construction)	\$452,000	\$595,000
10232005	SWR	Benz Avenue (HN 1111) Sewer Replacement	(Construction)	\$120,000	\$210,000
10232025	SWR	3731 Glenmore Avenue Sewer Evaluation	(Construction)	\$380,000	\$412,000
10232030	PS	Rapid Run and Foley Road PS Receiver Manhole Installation	(Construction)	\$274,900	\$519,300
10232035	SWR	CSO 541 Outfall Replacement	(Construction)	\$995,100	\$1,204,700
10240525	SWR	Victory Parkway Sewer Rehabilitation	(Construction)	\$1,949,000	\$2,459,710
10242055	SWR	Queen City Avenue (HN 2047) Sewer Rehabilitation	(Construction)	\$158,000	\$238,000

Project ID	Project Type	Project Name	Project Phase(s)	2027 Total Requested	Total Project Cost
10242080	SWR	Fenton Avenue (HN 1336) Sewer Relocation	(Construction)	\$1,220,000	\$1,330,000
10242090	SWR	Donna Lane & Ester Marie Drive Sewer Relocation and Rehab	(Construction)	\$612,000	\$698,000
10242105	SWR	Loth Street (HN 2272) Sewer Relocation and Rehab	(Construction)	\$1,700,000	\$1,860,000
10242110	SWR	Central Avenue and W 9th Street Sewer	(Construction)	\$1,250,000	\$1,380,000
10242115	SWR	Central Avenue (HN 1964) Sewer	(Construction)	\$215,000	\$320,000
10242120	SWR	Elberon Avenue Sewer	(Construction)	\$1,010,000	\$1,260,000
10242125	SWR	Sycamore Street Sewer	(Construction)	\$1,930,000	\$2,110,000
10242135	SWR	Mill Creek Interceptors Rehabilitation	(Construction)	\$4,300,000	\$5,000,000
10242185	SWR	Anthony to Innes Sewer Replacement	(Construction)	\$1,070,000	\$1,070,000
10242190	FAC	Bold Face Pump Station	(Construction)	\$27,043,400	\$27,043,400
10242195	SWR	Paris Street and Kinsey Avenue	(Construction)	\$87,000	\$87,000
10272050	PS	Wayside Hills Pump Station	(Construction)	\$1,470,000	\$1,690,000
10272080	SWR	Madison Rd and Edwards Rd Sewer Improvements	(Construction)	\$2,747,525	\$2,944,425
10280247	ALW	Hydraulic Modeling 2027	(Planning)	\$1,721,286	\$1,721,286
10280727	ALW	Critical Asset Management Projects 2027	(Construction)	\$7,375,534	\$7,375,534
10281327	ALW	Prioritized Wastewater Collection System Improvements 2027	(Construction)	\$20,884,920	\$20,884,920
10282027	ALW	CIP Planning Projects 2027	(Planning)	\$2,581,439	\$2,581,439
10282427	ALW	Flow Monitoring 2027	(Planning)	\$3,098,313	\$3,098,313
11242844	SWR	CSO 12 Sewer Separation Outfall to Mill Creek	(Design,Easement)	\$2,246,000	\$28,297,000



2027 CIP

Metropolitan Sewer District of Greater Cincinnati

Project ID	Project Type	Project Name	Project Phase(s)	2027 Total Requested	Total Project Cost
13090000	CON	Programmatic Contingency	(Design)	\$5,000,000	\$18,438,000
13099999	ALW	MSD LABOR	(Design)	\$9,753,947	\$25,739,653
39 CIP Projects for 2027				\$350,891,168	\$420,195,053

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