

# **Metropolitan Sewer District of Greater Cincinnati**

## **Capital Budget and Capital Improvement Program Year 2017**

# **PROPOSED**

**Monday, August 15, 2016**

**Metropolitan Sewer District of Greater Cincinnati  
Capital Budget and Capital Improvement Program  
Year 2017**

**Table of Contents**

	<u><b>Page</b></u>
<b>Glossary of Terms</b>	<b>3</b>
<b>2017 CIP (EXHIBIT A, B, C)</b>	<b>4</b>
<b>2017 CIP Projects</b>	<b>13</b>
<b>Annual CIP Legislation Assumptions</b>	<b>19</b>
<b>2017 WWIP Projects</b>	<b>21</b>
<b>2017 ASSET Projects</b>	<b>73</b>
<b>2018 CIP</b>	<b>125</b>
<b>2019 CIP</b>	<b>129</b>
<b>2020 CIP</b>	<b>133</b>
<b>2021 CIP</b>	<b>137</b>

DRAFT

# 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
CSO	Combined Sewer Overflow; discharge from a combined sewer collection system.
EPA	Environmental Protection Agency
ESP	Early Success Project
FAC	Treatment Facility
HA	Highly Active SSOs (HASSOs)
HNS	Home Numbers
HSTS	Home Sewage Treatment Systems
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 Systems
IWAP	Integrated Watershed Action Plan
LAT	Lateral Sewer
LMCPR	Lower Mill Creek Partial Remedy
LOC	Local Sewer
MGD	Million Gallons per Day
MSD	Metropolitan Sewer District
NPDES	National Pollution Discharge Elimination System; permitting authority overseen by USEPA
O&M	Operations and Maintenance
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
PRG	Program Contingency
PSE	Pump Station Improvement Elimination
PSO	Pump Station Overflow
RDI/I	Rainfall Derived Infiltration Inflow (IL), extraneous sources of storm ground water into a sanitary sewer system
REG	Regulator Improvement
REP	Sewer Replacement
SBU	Sewer Back Up (aka WIB Water-In-Basement)
SCADA	Supervisory Control and Data Acquisition
SEP	Sewer Separation
SEW	New Sewer
SMU	Stormwater Management Utility
SRC	Source Control
SSO	Sanitary Sewer Overflow; discharge from a separate sanitary sewer
STY	Study
SUP	Supplemental Environmental Project
TUN	Tunnel
USEPA	United States Environmental Protection Agency
WWC	Wastewater Collection Division of MSD
WWIP	Wet Weather Improvement Program
WWT	Wastewater Treatment Division of MSD
WWTP	Wastewater Treatment Plant



## 2017 CIP Projects

### Metropolitan Sewer District of Greater Cincinnati

#### Planning/Design/Easement Funding Request (Exhibit A)

Project No	CIP Type	Project Type	Project Name	P/D/E Funds Requested
10171740	WWIP	SEP	CSO 551 Sewer Separation (Easement)	\$274,600
10190317	WWIP	ALW	Home Sewer Treatment System Eliminations 2017 (Planning)	\$290,000
10199017	WWIP	ALW	Wet Weather Program Management and Support Services 2017 (Design)	\$3,500,000
10199117	WWIP	ALW	Hamilton County Utility Oversight and Coordination 2017 (Design)	\$2,700,000
10240021	WWIP	SRC	CSO 217 483 Source Control - Phase C (Design)	\$64,200
10330006	WWIP	LOC	Devils Backbone Road Sewer Local (HN 1234 & 1250) (Design,Easement)	\$58,800
10370050	WWIP	LOC	Stewart Road Local Sewer (HNs 5706 - 5710) (Design)	\$39,200
10420020	WWIP	LAT	Hanley Road Sewer Lateral Assessment (HN 4040) (Design)	\$2,500
10420025	WWIP	LAT	Althaus Road Sewer Lateral Assessment (HN 7146) (Design)	\$2,000
10420030	WWIP	LAT	Blue Rock Road Sewer Lateral Assessment (HN 4300) (Design)	\$2,500
10420035	WWIP	LAT	Jessup Road Sewer Lateral Assessment (HN 5950) (Design)	\$2,000
10420040	WWIP	LAT	W Galbraith Road Sewer Lateral Assessment (HN 4198) (Design)	\$2,000
10440036	WWIP	LAT	Springdale Road Sewer Lateral Assessment (HN 4081) (Design)	\$2,000
10440075	WWIP	LAT	Compton Road Sewer Lateral Assessment (HN 2526) (Design)	\$2,000
10450035	WWIP	LAT	Hopewell Road Sewer Lateral Assessment (HN 9283) (Design)	\$2,000
10470009	WWIP	LAT	Markley Road Sewer Lateral Assessment (HN 1019) (Design)	\$2,500
10470030	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8109) (Design)	\$2,000
10470031	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8217) (Design)	\$2,000
10470032	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8263) (Design)	\$2,000
10470033	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8253) (Design)	\$2,000
10470034	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8273) (Design)	\$2,000
11142745	WWIP	SEP	CSO 488 Strategic Sewer Separation Phase A (Planning,Design,Easement)	\$1,615,800
11240020	WWIP	SRC	CSO 181 Real Time Control (Design)	\$21,400
11243141	WWIP	SRC	CSO 217 483 Source Control Phase B (Design)	\$61,100
10230125	ASSET	PSE	East Branch Muddy Creek Pump Station Upgrades (Design,Easement)	\$411,300
10240151	ASSET	FAC	Document Control Storage Enhancements (Design)	\$130,000
10240245	ASSET	FAC	Mill Creek WWTP Service Water (NPW) Reliability and Service Upgrade (Design)	\$19,300
10240291	ASSET	FAC	Mill Creek WWTP Solids Handling Improvements Phase 1 (Design)	\$52,900
10240320	ASSET	REP	Wilder Avenue Sewer Replacement (Design)	\$210,000
10240420	ASSET	REP	Freeland Avenue Area Sewer Replacement (Design,Easement)	\$128,100
10240465	ASSET	REP	Hosea Street Sewer Replacement (Design,Easement)	\$429,900
10240480	ASSET	FAC	MCWWTP Dewatering Polymer System Replacement (Design)	\$47,700
10240525	ASSET	REP	Victory Parkway Sewer Rehabilitation (Design)	\$106,400
10240590	ASSET	FAC	Mill Creek WWTP Main Substation Improvements (Design)	\$22,500
10240655	ASSET	SEP	CSO 449 Sewer Separation (Design,Easement)	\$143,600
10240705	ASSET	REP	Spring Grove at Clifton Sewer Abandonment (Design,Easement)	\$40,500
10260025	ASSET	PSE	South Clippinger Force Main Replacement and Pump Station Upgrade (Design,Easement)	\$444,000
10270165	ASSET	REP	Delta and Greist Sewer Replacement (Design,Easement)	\$297,700



## 2017 CIP Projects

### Metropolitan Sewer District of Greater Cincinnati

#### Planning/Design/Easement Funding Request (Exhibit A)

<b>Project No</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>P/D/E Funds Requested</b>
10270170	ASSET	CSO	CSO 83 and 472 Dynamic Underflow Control (Design,Easement)	\$379,000
10270205	ASSET	SRC	Mt Washington Source Control Pilot (Planning)	\$300,000
10280237	ASSET	ALW	Hydraulic Modeling 2017 (Planning)	\$715,000
10280510	ASSET	FAC	Centralized Grit Handling & Processing Facility (Planning)	\$200,000
10280617	ASSET	ALW	Water Quality Program 2017 (Planning)	\$485,000
10282017	ASSET	ALW	CIP Project Planning 2017 (Planning)	\$3,300,000
<b>44 Planning/Design/Easement Projects in 2017</b>				<b>\$ 16,517,500</b>

DRAFT

**FY 2017 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
10180117	NA	Main Sewer Renewal Program 2017	Throughout the MSD service area	This program supports internal rehabilitation and renewal of existing main sewers throughout the District as a cost effective alternative to open-cut (excavation) replacement. The scope of work for this program will include, but not limit itself to, cured-in-place lining, slip-lining, spin-casting, sprayed coatings, and carbon filament wrapping. The sewer segments to be addressed under this program are identified through standardized visual PACP condition assessments, and are prioritized by risk considering likelihood and consequence of failure as well as opportunities for construction coordination.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 12,000,000.00	X		Jan 2017	Dec 2017
10180217	NA	Manhole Renewal Program 2017	Throughout the MSD service area	This program supports the renewal of structurally deficient manholes in the MSD wastewater collection system, and the installation of new manholes to support operation and maintenance of the wastewater collection system. Manhole renewal projects are identified by evaluating structural condition, consequence of failure, and opportunities for construction coordination. The scope of work for the program will include manhole repairs, replacement manholes, new manholes, and adjustments and chimney repairs completed in conjunction with paving projects.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 1,300,000.00	X		Jan 2017	Dec 2017
10280187	NA	WWT System Asset Renewal 2017	Throughout the MSD service area	This project provides appropriated funds to replace/improve wastewater treatment facility assets throughout the District using standardized condition assessment and reliability tools and methodologies. Defective assets, or portions of assets, will be discovered throughout the year either through preventive maintenance and the above mentioned condition assessment activities or after a failure.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 2,000,000.00		X	Jan 2017	Dec 2017
10280607	NA	Building Sewer Renewal Program 2017	Throughout the MSD service area	This program is necessary to cost effectively extend asset life while protecting and preserving public health and the environment. This program allows MSD to quickly and efficiently restore and maintain interrupted service while mitigating the risk of additional damages or losses. The scope of work for the program will include resolving emergency sewer repairs such as cave-ins, structurally failed building sewers, sewer overflows that may violate permits and regulations, and imminent danger to structures or real property. The scope of this project will also include all planned work associated with inspection port installations and rehabilitation of privately-owned building sewers within the public right-of-way or dedicated public sewer easements.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 5,000,000.00		X	Jan 2017	Dec 2017
10280717	NA	Facilities Asset Management Projects 2017	Throughout the MSD service area	This allowance serves as an annual "budget" from which smaller expenditures will be made as the need arises. To manage this allowance, MSD will maintain a risk-based prioritized list of proposed expenditures that will be updated as needs arise and seek legislative approval according to established thresholds.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 2,500,000.00		X	Jan 2017	Dec 2017
10280917	NA	Wet Weather Facilities Asset Renewal 2017	Throughout the MSD service area	This project provides appropriated funds to replace or improve wet weather facility assets throughout the District using condition assessment and reliability tools and methodologies. Defective assets, or portions of assets, will be discovered throughout the year either through preventative maintenance, condition assessment activities, or after a failure.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 750,000.00		X	Jan 2017	Dec 2017
10281317	NA	Prioritized Wastewater Collection System Improvements 2017	Throughout the MSD service area	This program will allow the District to respond to sudden, unexpected wastewater collection system failures, complete planned repairs and improvements to high risk utility-owned assets, and complete prioritized system improvements through construction coordination projects to maintain acceptable levels of service at the lowest asset life-cycle cost. This program represents a consolidation of the former "Emergency Sewer" and "High Risk Asset Renewal" Asset Management allowances.	Const	Approve - plans/ specs/ cost est.	Necessity/ Proceed	Authorize - advertise and bid	\$ 12,000,000.00		X	Jan 2017	Dec 2017
<b>Total</b>									<b>\$ 35,550,000.00</b>				

**FY 2017 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
10180117	NA	Main Sewer Renewal Program 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000.00	\$ -	\$ 2,000,000.00	\$ -	\$ 12,000,000.00
10180217	NA	Manhole Renewal Program 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000.00	\$ -	\$ 100,000.00	\$ -	\$ 1,300,000.00
10280187	NA	WWT System Asset Renewal 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000.00	\$ -	\$ -	\$ -	\$ 2,000,000.00
10280607	NA	Building Sewer Renewal Program 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,750,000.00	\$ -	\$ 250,000.00	\$ -	\$ 5,000,000.00
10280717	NA	Facilities Asset Management Projects 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000.00	\$ -	\$ -	\$ -	\$ 2,500,000.00
10280917	NA	Wet Weather Facilities Asset Renewal 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000.00	\$ -	\$ -	\$ -	\$ 750,000.00
10281317	NA	Prioritized Wastewater Collection System Improvements 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,500,000.00	\$ -	\$ 500,000.00	\$ -	\$ 12,000,000.00
<b>Total</b>											<b>\$</b>	<b>35,550,000.00</b>

Approved this \_\_\_\_\_ day of \_\_\_\_\_, 2016  
Board of County Commissioners  
Hamilton County, Ohio

\_\_\_\_\_  
Michael Pittinger, P.E.  
Sewers Chief Engineer, 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

EXHIBIT C  
FY 2017 MSD CIP

Programmatic Contingency is calculated based upon a formula applied to activities to be performed and included in MSD's annual cash flow forecast for each active capital project. The following list of projects are included in the cash flow forecast and serve as the basis for the requested Programmatic Contingency amount. Programmatic Contingency can be utilized during any active phase of a project. All projects in this list are eligible for use with Programmatic Contingency.

**Project ID/Name**

10130740 Werk & Westbourne EHRT Facility  
10131180 Muddy Creek WWTP Dewatering Improvements  
10131220 Glenview Pump Station Upgrade  
10131240 Muddy Creek WWTP Grit Improvements  
10141080 Ludlow and Lafayette Parallel Sewer  
10142020 Daly Road Sewer Replacement  
10143220 CSO 179 Sewer Separation  
10143920 CSO 194 High Point Sewer Separation  
10143940 CSO 195 Westwood Northern Sewer Separation  
10144880 Mill Creek WWTP Preliminary and Primary Treatment Improvement  
10170080 SSO 1000 Elimination  
10170100 SSO 228 Elimination  
10170176 Stanley Ave Lateral Relocations  
10170816 Little Miami WWTP Main Outfall Improvements  
10171580 CSO 54 Improvements  
10171740 CSO 551 Sewer Separation  
10171862 CSO 470 and CSO 471 Sewer Separation Phase 3  
10180116 Main Sewer Renewal Program 2016  
10180117 Main Sewer Renewal Program 2017  
10180216 Manhole Renewal Program 2016  
10180217 Manhole Renewal Program 2017  
10190316 Home Sewer Treatment System Extensions 2016  
10190317 Home Sewer Treatment System Eliminations 2017  
10199016 Wet Weather Program Management and Support Services 2016  
10199017 Wet Weather Program Management and Support Services 2017  
10199116 Hamilton County Utility Oversight and Coordination 2016  
10199117 Hamilton County Utility Oversight and Coordination 2017

**Project ID/Name**

10210010 Indian Creek WWTP Reliability and Service Upgrades  
10220054 Bruestle Avenue Pump Station Elimination  
10220061 Whitewater Township Regional Sewer District Phase III SR 128 Sew  
10221220 Wesselman Road Sewer Phase 2-A  
10221245 Taylor Creek WWTP Disinfection Upgrade  
10230031 CSO 404,405,410,411 Outfall Reconstruction  
10230041 Westport Village PS Elimination  
10230060 Muddy Creek WWTP Sludge Processing Odor Control  
10230070 Muddy Creek WWTP-Primary Skimming/Sludge Removal System R  
10230090 Barrington Hills, Barrington Hills BLK. F, Gil Volz, and Kirkridge Acre  
10230125 East Branch Muddy Creek Pump Station Upgrades  
10230130 Dry Weather Channel for SS 937  
10230135 Lower Muddy Creek Interceptor SSO Remediation  
10230150 Addyston Creek and Sewer Rehab  
10230155 Darwin Avenue Sewer Backup Remediation (HN 3520)  
10240010 Dellway Avenue Sewer Replacement  
10240012 Sharon Industrial Park PS Replacement  
10240018 CSO 125 Stream Separation  
10240021 CSO 217/483 Source Control - Phase C  
10240027 Cora Avenue Sewer Replacement  
10240029 German Cemetery Sewer Replacement  
10240054 DIW Office and Laboratory Improvements Phase 2  
10240144 Millbrook # 2 Pump Station Upgrade  
10240150 Mt Airy Forest Sewer Replacement  
10240151 Document Control Storage Enhancements  
10240167 Fairmount Avenue Sewer Replacement  
10240180 3934 Winding Way Sewer Replacement

EXHIBIT C  
FY 2017 MSD CIP

Programmatic Contingency is calculated based upon a formula applied to activities to be performed and included in MSD's annual cash flow forecast for each active capital project. The following list of projects are included in the cash flow forecast and serve as the basis for the requested Programmatic Contingency amount. Programmatic Contingency can be utilized during any active phase of a project. All projects in this list are eligible for use with Programmatic Contingency.

**Project ID/Name**

10240185 Legends of Carpenters Run Pump Station Elimination  
10240245 Mill Creek WWTP Service Water (NPW) Reliability and Service Upgrac  
10240271 Lower Mill Creek HW/DW Protection  
10240275 SSO 603 and 704 Improvements  
10240291 Mill Creek WWTP Solids Handling Improvements Phase 1  
10240320 Wilder Avenue Sewer Replacement  
10240325 Glen Landing Pump Station Improvements  
10240330 Otte Avenue Sewer Replacement  
10240335 3568 Bogart Avenue Sewer Replacement  
10240340 Station Avenue Sewer Replacement  
10240350 McKeone Avenue Sewer Replacement  
10240360 Timbers Pump Station Elimination  
10240365 Quebec Road Sewer Replacement  
10240375 Carpenters Run Pump Station Upgrade  
10240380 CSO 005 Water Connection  
10240395 Winton Woods Diversion Gate Replacement  
10240405 Ponderosa Woods Pump Station Elimination  
10240415 Carr Street Access Rehab  
10240420 Freeland Avenue Area Sewer Replacement  
10240430 Berkley Avenue Sewer Replacement  
10240435 Pleasant Run Central Force Main Repairs  
10240450 Vinton Street - Beekman to Liddell Street Sewer Replacement  
10240455 Spring Grove Avenue Sewer Replacement and Rehabilitation  
10240465 Hosea Street Sewer Replacement  
10240470 Bahama Gardens Pump Station Upgrade and Force Main Replacemer  
10240475 Foraker Ave Sewer Replacement - Alms Pl to E. Terminus  
10240480 MCWWTP Dewatering Polymer System Replacement

**Project ID/Name**

10240490 Colerain Ave at Gordon St Sewer Replacement  
10240495 Wahl Terrace Sewer Replacement  
10240500 Yoast Avenue Sewer Improvements  
10240505 Mt. Pleasant Ave. Sewer Replacement  
10240515 Mayhew and Leath Avenues Sewer Replacement  
10240520 Freeman Ave - Klotter to McMicken Sewer Replacement  
10240525 Victory Parkway Sewer Rehabilitation  
10240526 Cypress St - Ashland Av to 250 feet east Sewer Replacement  
10240540 Spring Grove Av, Township St. Sewer Improvements  
10240545 Central Parkway Sewer Replacement (HN 2402)  
10240550 Pardee Alley Sewer Replacement-Oswald Al to 200' north  
10240555 Kemper Mill Village Pump Station Upgrade  
10240560 Schulte Drive Sewer Replacement  
10240565 Overflow Parking lot for MSDGC Engineering and Administration B  
10240580 Quebec Heights Sewer Rehabilitation  
10240581 Queen City and Cora Ave Sewer Rehabilitation  
10240590 Mill Creek WWTP Main Substation Improvements  
10240635 Mill Creek WWTP Plant Influent and Headworks Odor Control  
10240645 Mill Creek WWC Maintenance Shop Improvements  
10240650 Hackberry Street Sewer Replacement  
10240655 CSO 449 Sewer Separation  
10240665 Mill Creek WWTP Septage Receiving Station Odor Control Improve  
10240685 Division of Industrial Waste Building Roof Replacement  
10240695 Mill Creek WWTP Odor Control Dispersion Model  
10240700 Mill Creek WWTP Security Enhancements  
10240705 Spring Grove at Clifton Sewer Abandonment  
10241320 Greenpine Acres Pump Station Elimination

EXHIBIT C  
FY 2017 MSD CIP

Programmatic Contingency is calculated based upon a formula applied to activities to be performed and included in MSD's annual cash flow forecast for each active capital project. The following list of projects are included in the cash flow forecast and serve as the basis for the requested Programmatic Contingency amount. Programmatic Contingency can be utilized during any active phase of a project. All projects in this list are eligible for use with Programmatic Contingency.

**Project ID/Name**

10241325 Montana Ave Sewer - Ferncroft to Mustang Dr.  
10241820 SSO 700 Facility Improvements  
10241825 SSO 700 Operational Improvements  
10250020 Polk Run WWTP Reliability and Service Upgrades  
10250025 Huntington Pump Station Elimination  
10250030 Polk Run UV System/Post Aeration Improvements  
10250035 Polk Run Non-Potable Water Upgrades  
10260025 South Clippinger Force Main Replacement and Pump Station Upgrade  
10270000 Dry Run Area Sewers Phase 1  
10270005 Dry Run Area Sewers Phase 2  
10270007 Dry Run Area Sewers Phase 2 Contract RB  
10270008 Dry Run Sewers - Contract 8M  
10270026 Camargo Canyon Pump Station Elimination  
10270110 Linwood Avenue Sewer Replacement  
10270120 Cath Calvary Cemetery Sewer Replacement  
10270125 Portsmouth Avenue Sewer Replacement  
10270135 Airport and Robb Ave Sewer Replacement  
10270145 Columbia Parkway at Delta Sewer Replacement  
10270150 3981 Watterson Rd Sewer Replacement  
10270160 Prospect Woods Pump Station Upgrade  
10270165 Delta and Greist Sewer Replacement  
10270170 CSO 83 and 472 Dynamic Underflow Control  
10270175 East Hill Ave Sewer Replacement  
10270185 Paxton Ave at Linwood Ave Sewer Replacement  
10270190 Columbia Square Development Separation  
10270195 Little Miami WWTP Incineration Improvements  
10270205 Mt Washington Source Control Pilot

**Project ID/Name**

10280114 SCADA System Installs and Upgrades  
10280124 CIP Project Planning  
10280186 WWT System Asset Renewal 2016  
10280187 WWT System Asset Renewal 2017  
10280236 Hydraulic Modeling 2016  
10280237 Hydraulic Modeling 2017  
10280316 Emergency Sewer Repairs 2016  
10280340 System-Wide Sensor Installation  
10280505 Pump Station Telemetry System Upgrades  
10280510 Centralized Grit Handling & Processing Facility  
10280516 High Risk Asset Renewal 2016  
10280606 Building Sewer Renewal Program 2016  
10280607 Building Sewer Renewal Program 2017  
10280617 Water Quality Program 2017  
10280700 Watershed Operational Data System  
10280716 Critical Asset Management Projects 2016  
10280717 Facilities Asset Management Projects 2017  
10280800 Asset Management System Implementation  
10280917 Wet Weather Facilities Asset Renewal 2017  
10281317 Prioritized Wastewater Collection System Improvements 2017  
10282017 CIP Project Planning 2017  
10290145 Financial Systems Integration Efforts  
10310005 Bridgetown Road Local Sewer (HNs 8477-8647)  
10320012 Parrakeet Drive Local Sewer (HNs 6002-6068)  
10320056 Ramblingridge Drive & Twinwillow Lane Local Sewer  
10320058 Kern Drive & Springdale Road Local Sewer  
10320060 Mapleknoll Drive Local Sewer (HNs 9420-9562)

EXHIBIT C  
FY 2017 MSD CIP

Programmatic Contingency is calculated based upon a formula applied to activities to be performed and included in MSD's annual cash flow forecast for each active capital project. The following list of projects are included in the cash flow forecast and serve as the basis for the requested Programmatic Contingency amount. Programmatic Contingency can be utilized during any active phase of a project. All projects in this list are eligible for use with Programmatic Contingency.

**Project ID/Name**

10320065 Reemelin Road Local Sewer (HNs 3489-3860)  
10320070 Crestnoll Lane Local Sewer (HN 3491-3609)  
10320075 Old Blue Rock Road Local Sewer (HN 5240-5327)  
10320080 Russell Heights Drive Local Sewer  
10320085 Brierly Creek Road Local Sewer (HNs 6040-6100)  
10330006 Devils Backbone Road Sewer Local (HN 1234 & 1250)  
10330015 Werk Road Local Sewer (HN 5544-5686)  
10330037 Upper Road Local Sewer (HNs 6340-6434)  
10340021 Carpol Avenue, Honeywell Avenue & E. Kemper Road Local Sewer  
10340030 North Bend Rd Sewer (HN 504-565)  
10370025 Kenwood Hills Local Sewer  
10370032 Coldstream Drive & Asbury Road Local Sewer  
10370045 Mt. Carmel/Vicbarb/Appleblossom Local Sewer  
10370050 Stewart Road Local Sewer (HNs 5706 - 5710)  
10420015 Boomer Road Sewer Lateral Assessment  
10420020 Hanley Road Sewer Lateral Assessment (HN 4040)  
10420025 Althaus Road Sewer Lateral Assessment (HN 7146)  
10420030 Blue Rock Road Sewer Lateral Assessment (HN 4300)  
10420035 Jessup Road Sewer Lateral Assessment (HN 5950)  
10420040 W Galbraith Road Sewer Lateral Assessment (HN 4198)  
10430020 Foley Road Sewer Laterals (HNS 5579, 5583 - 5599, 5602)  
10430030 Werk Road Sewer Lateral Assessment (HN 6052)  
10440036 Springdale Road Sewer Lateral Assessment (HN 4081)  
10440055 E. Galbraith Road Sewer Lateral Assessment (HN 4454)  
10440060 Pottinger Road Sewer Lateral Assessment (HN 10444)  
10440065 Poole Road Sewer Lateral Assessment (HN 3759)  
10440070 Acreview Drive Sewer Lateral Assessment (HN 1602)

**Project ID/Name**

10440075 Compton Road Sewer Lateral Assessment (HN 2526)  
10450015 Enyart Road Sewer Lateral Assessments (HN 11258)  
10450016 Enyart Road Sewer Lateral Assessment (HN 11328)  
10450017 Enyart Road Sewer Lateral Assessments (HN 11262)  
10450025 E. Kemper Road Sewer Lateral Assessment (HN 269)  
10450035 Hopewell Road Sewer Lateral Assessment (HN 9283)  
10460000 Drake Road Sewer Lateral Assessment (HN 7315)  
10470009 Markley Road Sewer Lateral Assessment (HN 1019)  
10470025 Woodruff Road Sewer Lateral Assessment (HNs 8145, 8167, 8237)  
10470030 Woodruff Road Sewer Lateral Assessment (HN 8109)  
10470031 Woodruff Road Sewer Lateral Assessment (HN 8217)  
10470032 Woodruff Road Sewer Lateral Assessment (HN 8263)  
10470033 Woodruff Road Sewer Lateral Assessment (HN 8253)  
10470034 Woodruff Road Sewer Lateral Assessment (HN 8273)  
11040010 Rapid Run Park Source Control  
11040190 West Fork Creek Riparian Floodplain Restoration  
11042801 North Fairmount Bioswale Project  
11140010 SSO 700 Integrated Watershed Action Plan  
11142741 CSO 488/490 I-75 Reconstruction Coordination  
11142745 CSO 488 Strategic Sewer Separation Phase A  
11143100 CSO 30 Stream Separation Phase A  
11143260 CSO 21 I-75 Reconstruction Coordination  
11240000 Lick Run Valley Conveyance System  
11240001 Lick Run Property Demolitions  
11240010 Sunset Ave, Sunset Lane and Rapid Run Pike Sewer Separation  
11240020 CSO 181 Real Time Control  
11240030 Wyoming and Minion Avenues Sewer Separation

EXHIBIT C  
FY 2017 MSD CIP

Programmatic Contingency is calculated based upon a formula applied to activities to be performed and included in MSD's annual cash flow forecast for each active capital project. The following list of projects are included in the cash flow forecast and serve as the basis for the requested Programmatic Contingency amount. Programmatic Contingency can be utilized during any active phase of a project. All projects in this list are eligible for use with Programmatic Contingency.

**Project ID/Name**

11240090 White Street Sewer Separation  
11240110 Quebec Rd Sewer Separation  
11240130 Queen City Ave Sewer Separation Phase 2  
11240150 Queen City and Cora Avenues R/W Sewer Separation  
11240170 Quebec Heights Sewer Separation  
11242846 CSO 12 Sewer Separation Phase A.4b - Colerain to Spring Grove Aven  
11243140 CSO 217/483 Source Control Phase A

**Project ID/Name**

11243141 CSO 217/483 Source Control Phase B  
11243142 CSO 217/483 Source Control Phase A2  
11243840 CSO 127 and 128 Stream Separations  
11530000 Upper Muddy Creek Interceptor Replacement  
11540010 Mt Airy Receiving Sewer Upgrade  
12240350 Mill Creek Interceptor – Specific Basin Study

Approved this \_\_\_\_\_ day of \_\_\_\_\_, 2016  
Board of County Commissioners  
Hamilton County, Ohio

---

Michael Pittinger, P.E.  
Sewers Chief Engineer, 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



## 2017 CIP Projects

### Metropolitan Sewer District of Greater Cincinnati

<b>Project ID</b>	<b>Project Category</b>	<b>Project Type</b>	<b>Project Name</b>	<b>2017 Total Requested</b>	<b>Total Project Cost</b>
10131220	WWIP	PSE	Glenview Pump Station Upgrade (Construction)	\$578,700	\$1,290,694
10141080	WWIP	SEP	Ludlow and Lafayette Parallel Sewer (Construction)	\$3,373,100	\$3,800,322
10170080	WWIP	SSO	SSO 1000 Elimination (Construction)	\$925,800	\$1,147,200
10170100	WWIP	SSO	SSO 228 Elimination (Construction)	\$2,113,986	\$2,509,586
10170176	WWIP	REP	Stanley Ave Lateral Relocations (Construction)	\$155,400	\$300,300
10171580	WWIP	CSO	CSO 54 Improvements (Construction)	\$232,700	\$321,700
10171740	WWIP	SEP	CSO 551 Sewer Separation (Easement,Construction)	\$1,693,700	\$2,180,600
10180117	WWIP	ALW	Main Sewer Renewal Program 2017 (Construction)	\$12,000,000	\$12,000,000
10180217	WWIP	ALW	Manhole Renewal Program 2017 (Construction)	\$1,300,000	\$1,300,000
10190317	WWIP	ALW	Home Sewer Treatment System Eliminations 2017 (Planning)	\$290,000	\$290,000
10199017	WWIP	ALW	Wet Weather Program Management and Support Services 2017 (Design)	\$3,500,000	\$3,500,000
10199117	WWIP	ALW	Hamilton County Utility Oversight and Coordination 2017 (Design)	\$2,700,000	\$2,700,000
10240018	WWIP	SRC	CSO 125 Stream Separation (Construction)	\$10,569,600	\$14,534,696
10240021	WWIP	SRC	CSO 217 483 Source Control - Phase C (Design,Construction)	\$4,963,340	\$6,643,080
10320058	WWIP	LOC	Kern Drive & Springdale Road Local Sewer (Construction)	\$901,600	\$1,098,486
10320065	WWIP	LOC	Reemelin Road Local Sewer (HNs 3489-3860) (Construction)	\$1,116,100	\$1,496,345
10320070	WWIP	LOC	Crestnoll Lane Local Sewer (HN 3491-3609) (Construction)	\$907,800	\$1,214,668
10320075	WWIP	LOC	Old Blue Rock Road Local Sewer (HN 5240-5327) (Construction)	\$182,100	\$381,004
10320080	WWIP	LOC	Russell Heights Drive Local Sewer (Construction)	\$1,147,842	\$1,340,542
10330006	WWIP	LOC	Devils Backbone Road Sewer Local (HN 1234 & 1250) (Design,Easement)	\$58,800	\$321,300
10330037	WWIP	LOC	Upper Road Local Sewer (HNs 6340-6434) (Construction)	\$169,900	\$267,843
10370050	WWIP	LOC	Stewart Road Local Sewer (HNs 5706 - 5710) (Design)	\$39,200	\$179,800



## 2017 CIP Projects

### Metropolitan Sewer District of Greater Cincinnati

<u>Project ID</u>	<u>Project Category</u>	<u>Project Type</u>	<u>Project Name</u>	<u>2017 Total Requested</u>	<u>Total Project Cost</u>
10420020	WWIP	LAT	Hanley Road Sewer Lateral Assessment (HN 4040) (Design,Construction)	\$74,500	\$74,500
10420025	WWIP	LAT	Althaus Road Sewer Lateral Assessment (HN 7146) (Design,Construction)	\$79,470	\$79,470
10420030	WWIP	LAT	Blue Rock Road Sewer Lateral Assessment (HN 4300) (Design,Construction)	\$127,000	\$127,000
10420035	WWIP	LAT	Jessup Road Sewer Lateral Assessment (HN 5950) (Design,Construction)	\$47,000	\$47,000
10420040	WWIP	LAT	W Galbraith Road Sewer Lateral Assessment (HN 4198) (Design,Construction)	\$52,000	\$52,000
10430030	WWIP	LAT	Werk Road Sewer Lateral Assessment (HN 6052) (Construction)	\$40,300	\$42,300
10440036	WWIP	LAT	Springdale Road Sewer Lateral Assessment (HN 4081) (Design,Construction)	\$52,000	\$52,000
10440055	WWIP	LAT	E. Galbraith Road Sewer Lateral Assessment (HN 4454) (Construction)	\$45,400	\$47,400
10440075	WWIP	LAT	Compton Road Sewer Lateral Assessment (HN 2526) (Design,Construction)	\$52,000	\$52,000
10450016	WWIP	LAT	Enyart Road Sewer Lateral Assessment (HN 11328) (Construction)	\$40,300	\$42,300
10450035	WWIP	LAT	Hopewell Road Sewer Lateral Assessment (HN 9283) (Design,Construction)	\$52,000	\$52,000
10470009	WWIP	LAT	Markley Road Sewer Lateral Assessment (HN 1019) (Design,Construction)	\$124,000	\$124,000
10470025	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HNs 8145, 8167, 8237) (Construction)	\$75,000	\$103,800
10470030	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8109) (Design,Construction)	\$52,000	\$52,000
10470031	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8217) (Design,Construction)	\$52,000	\$52,000
10470032	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8263) (Design,Construction)	\$52,000	\$52,000



## 2017 CIP Projects

### Metropolitan Sewer District of Greater Cincinnati

<b>Project ID</b>	<b>Project Category</b>	<b>Project Type</b>	<b>Project Name</b>	<b>2017 Total Requested</b>	<b>Total Project Cost</b>
10470033	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8253) (Design,Construction)	\$52,000	\$52,000
10470034	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8273) (Design,Construction)	\$52,000	\$52,000
11142745	WWIP	SEP	CSO 488 Strategic Sewer Separation Phase A (Planning,Design,Easement)	\$1,615,800	\$8,014,650
11143260	WWIP	SEP	CSO 21 I-75 Reconstruction Coordination (Construction)	\$2,988,600	\$3,873,666
11240020	WWIP	SRC	CSO 181 Real Time Control (Design,Construction)	\$3,573,400	\$4,363,861
11240110	WWIP	SEP	Quebec Rd Sewer Separation (Construction)	\$6,726,900	\$9,071,335
11240130	WWIP	SEP	Queen City Ave Sewer Separation Phase 2 (Construction)	\$9,059,500	\$13,028,294
11243140	WWIP	SEP	CSO 217 483 Source Control Phase A (Construction)	\$3,873,333	\$8,663,607
11243141	WWIP	SRC	CSO 217 483 Source Control Phase B (Design,Construction)	\$12,639,400	\$15,509,123
11243142	WWIP	SRC	CSO 217 483 Source Control Phase A2 (Construction)	\$7,283,000	\$7,302,000
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$10,000,000	\$61,273,865
10220054	ASSET	PSE	Bruestle Avenue Pump Station Elimination (Construction)	\$702,200	\$988,084
10220061	ASSET	SEW	Whitewater Township Regional Sewer District Phase III SR 128 Sewer Extension (Construction)	\$6,458,400	\$7,895,900
10230125	ASSET	PSE	East Branch Muddy Creek Pump Station Upgrades (Design,Easement)	\$411,300	\$2,867,841
10230155	ASSET	SEP	Darwin Avenue Sewer Backup Remediation (HN 3520) (Construction)	\$76,300	\$221,300
10240029	ASSET	REP	German Cemetery Sewer Replacement (Construction)	\$735,000	\$1,100,293
10240151	ASSET	FAC	Document Control Storage Enhancements (Design,Construction)	\$5,308,000	\$5,565,411
10240245	ASSET	FAC	Mill Creek WWTP Service Water (NPW) Reliability and Service Upgrade (Design,Construction)	\$3,143,300	\$3,817,043
10240291	ASSET	FAC	Mill Creek WWTP Solids Handling Improvements Phase 1 (Design,Construction)	\$19,468,300	\$21,743,157
10240320	ASSET	REP	Wilder Avenue Sewer Replacement (Design)	\$210,000	\$794,118



## 2017 CIP Projects

### Metropolitan Sewer District of Greater Cincinnati

<u>Project ID</u>	<u>Project Category</u>	<u>Project Type</u>	<u>Project Name</u>	<u>2017 Total Requested</u>	<u>Total Project Cost</u>
10240350	ASSET	REP	McKeone Avenue Sewer Replacement (Construction)	\$96,700	\$176,306
10240360	ASSET	PSE	Timbers Pump Station Elimination (Construction)	\$606,500	\$899,079
10240365	ASSET	REP	Quebec Road Sewer Replacement (Construction)	\$427,400	\$554,456
10240375	ASSET	PSE	Carpenters Run Pump Station Upgrade (Construction)	\$513,100	\$780,939
10240380	ASSET	CSO	CSO 005 Water Connection (Construction)	\$71,000	\$116,589
10240405	ASSET	PSE	Ponderosa Woods Pump Station Elimination (Construction)	\$299,900	\$512,445
10240420	ASSET	REP	Freeland Avenue Area Sewer Replacement (Design,Easement)	\$128,100	\$243,965
10240430	ASSET	REP	Berkley Avenue Sewer Replacement (Construction)	\$728,860	\$956,681
10240455	ASSET	REP	Spring Grove Avenue Sewer Replacement and Rehabilitation (Construction)	\$550,917	\$695,313
10240465	ASSET	REP	Hosea Street Sewer Replacement (Design,Easement)	\$429,900	\$2,889,732
10240475	ASSET	REP	Foraker Ave Sewer Replacement - Alms Pl to E. Terminus (Construction)	\$124,368	\$212,102
10240480	ASSET	FAC	MCWWTP Dewatering Polymer System Replacement (Design,Construction)	\$6,641,900	\$6,716,900
10240515	ASSET	REP	Mayhew and Leath Avenues Sewer Replacement (Construction)	\$533,700	\$689,075
10240525	ASSET	REP	Victory Parkway Sewer Rehabilitation (Design)	\$106,400	\$468,707
10240526	ASSET	REP	Cypress St - Ashland Av to 250 feet east Sewer Replacement (Construction)	\$147,300	\$214,300
10240550	ASSET	REP	Pardee Alley Sewer Replacement-Oswald Al to 200' north (Construction)	\$209,900	\$378,253
10240555	ASSET	PSE	Kemper Mill Village Pump Station Upgrade (Construction)	\$687,323	\$1,056,042
10240590	ASSET	FAC	Mill Creek WWTP Main Substation Improvements (Design,Construction)	\$6,246,300	\$6,565,400
10240635	ASSET	FAC	Mill Creek WWTP Plant Influent and Headworks Odor Control (Construction)	\$1,259,000	\$1,468,200
10240655	ASSET	SEP	CSO 449 Sewer Separation (Design,Easement)	\$143,600	\$699,000



## 2017 CIP Projects

### Metropolitan Sewer District of Greater Cincinnati

<b>Project ID</b>	<b>Project Category</b>	<b>Project Type</b>	<b>Project Name</b>	<b>2017 Total Requested</b>	<b>Total Project Cost</b>
10240665	ASSET	FAC	Mill Creek WWTP Septage Receiving Station Odor Control Improvements (Construction)	\$1,014,600	\$1,014,600
10240705	ASSET	REP	Spring Grove at Clifton Sewer Abandonment (Design,Easement)	\$40,500	\$81,500
10250030	ASSET	FAC	Polk Run UV System Post Aeration Improvements (Construction)	\$1,669,000	\$1,894,000
10250035	ASSET	FAC	Polk Run Non-Potable Water Upgrades (Construction)	\$278,000	\$380,000
10260025	ASSET	PSE	South Clippinger Force Main Replacement and Pump Station Upgrade (Design,Easement)	\$444,000	\$1,424,700
10270008	ASSET	SEW	Dry Run Sewers - Contract 8M (Construction)	\$5,331,500	\$5,331,500
10270150	ASSET	REP	3981 Watterson Rd Sewer Replacement (Construction)	\$184,400	\$327,568
10270160	ASSET	PSE	Prospect Woods Pump Station Upgrade (Construction)	\$854,537	\$1,182,236
10270165	ASSET	REP	Delta and Greist Sewer Replacement (Design,Easement)	\$297,700	\$1,544,115
10270170	ASSET	CSO	CSO 83 and 472 Dynamic Underflow Control (Design,Easement)	\$379,000	\$3,206,835
10270205	ASSET	SRC	Mt Washington Source Control Pilot (Planning)	\$300,000	\$300,000
10280187	ASSET	ALW	WWT System Asset Renewal 2017 (Construction)	\$2,000,000	\$2,000,000
10280237	ASSET	ALW	Hydraulic Modeling 2017 (Planning)	\$715,000	\$715,000
10280510	ASSET	FAC	Centralized Grit Handling & Processing Facility (Planning)	\$200,000	\$26,815,300
10280607	ASSET	ALW	Building Sewer Renewal Program 2017 (Construction)	\$5,000,000	\$5,000,000
10280617	ASSET	ALW	Water Quality Program 2017 (Planning)	\$485,000	\$485,000
10280717	ASSET	ALW	Facilities Asset Management Projects 2017 (Construction)	\$2,500,000	\$2,500,000
10280917	ASSET	ALW	Wet Weather Facilities Asset Renewal 2017 (Construction)	\$750,000	\$750,000
10281317	ASSET	ALW	Prioritized Wastewater Collection System Improvements 2017 (Construction)	\$12,000,000	\$12,000,000
10282017	ASSET	ALW	CIP Project Planning 2017 (Planning)	\$3,300,000	\$3,300,000



# 2017 CIP Projects

## Metropolitan Sewer District of Greater Cincinnati

<b>Project ID</b>	<b>Project Category</b>	<b>Project Type</b>	<b>Project Name</b>	<b>2017 Total Requested</b>	<b>Total Project Cost</b>
98 CIP Projects for 2017				\$202,008,776	\$332,613,322

DRAFT

## ANNUAL CIP LEGISLATION ASSUMPTIONS

**The purpose of this page is to provide readers with very broad and high-level assumptions pertaining to the MSD annual CIP legislation. For all in-depth assumptions the reader should refer to the MSD Financial Analysis Manual.**

### **Escalation, Inflation, and Labor Inflation**

Per MSD's Financial Analysis Manual (which is updated annually):

- a. Escalation = 3.5%
- b. Inflation = 3.5%
- c. Labor inflation = 3.0%

### **Planning / Study**

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

### **Design**

The cost for design during the design phase by MSD personnel or by consultant contract.

### **Pre Construction Services**

The cost of project manager and other personnel costs performing support functions during the planning and design phases.

### **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 utility relocations if not handled during construction.

### **Right of Way**

The cost of easement acquisition by City Real Estate 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 if required for project.

### **Construction Services**

The cost of project management, construction management, construction inspection, field engineering and other personnel costs performing support function during the construction phase.

### **Interest/Financing**

The cost of interest charged prior to the asset being placed in service. This is only applied to projects that are have a prospective borrowing, such as the projects financed through the OEPA low interest loan program.

### **Program Contingency**

Contingency is utilized in any activity to cover unforeseen costs and for bids above the amount legislated for construction. The Programmatic Contingency level is calculated based on a formula found in the MSD Financial Policy manual.

### **2019, 2020 and 2021 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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.

# 2017 WWIP Projects

DRAFT



## 2017 Projects

### Metropolitan Sewer District of Greater Cincinnati

### WWIP Projects

Project ID	CIP Type	Project Type	Project Name	MSD	Other	Total	Page
10131220	WWIP	PSE	Glenview Pump Station Upgrade (Construction)	\$578,700	\$0	\$578,700	24
10141080	WWIP	SEP	Ludlow and Lafayette Parallel Sewer (Construction)	\$3,373,100	\$0	\$3,373,100	25
10170080	WWIP	SSO	SSO 1000 Elimination (Construction)	\$925,800	\$0	\$925,800	26
10170100	WWIP	SSO	SSO 228 Elimination (Construction)	\$2,113,986	\$0	\$2,113,986	27
10170176	WWIP	REP	Stanley Ave Lateral Relocations (Construction)	\$155,400	\$0	\$155,400	28
10171580	WWIP	CSO	CSO 54 Improvements (Construction)	\$232,700	\$0	\$232,700	29
10171740	WWIP	SEP	CSO 551 Sewer Separation (Easement,Construction)	\$1,693,700	\$0	\$1,693,700	30
10180117	WWIP	ALW	Main Sewer Renewal Program 2017 (Construction)	\$12,000,000	\$0	\$12,000,000	31
10180217	WWIP	ALW	Manhole Renewal Program 2017 (Construction)	\$1,300,000	\$0	\$1,300,000	32
10190317	WWIP	ALW	Home Sewer Treatment System Eliminations 2017 (Planning)	\$290,000	\$0	\$290,000	33
10199017	WWIP	ALW	Wet Weather Program Management and Support Services 2017 (Design)	\$3,500,000	\$0	\$3,500,000	34
10199117	WWIP	ALW	Hamilton County Utility Oversight and Coordination 2017 (Design)	\$2,700,000	\$0	\$2,700,000	35
10240018	WWIP	SRC	CSO 125 Stream Separation (Construction)	\$10,569,600	\$0	\$10,569,600	36
10240021	WWIP	SRC	CSO 217 483 Source Control - Phase C (Design,Construction)	\$4,963,340	\$0	\$4,963,340	37
10320058	WWIP	LOC	Kern Drive & Springdale Road Local Sewer (Construction)	\$901,600	\$0	\$901,600	38
10320065	WWIP	LOC	Reemelin Road Local Sewer (HNs 3489-3860) (Construction)	\$1,116,100	\$0	\$1,116,100	39
10320070	WWIP	LOC	Crestnoll Lane Local Sewer (HN 3491-3609) (Construction)	\$907,800	\$0	\$907,800	40
10320075	WWIP	LOC	Old Blue Rock Road Local Sewer (HN 5240-5327) (Construction)	\$182,100	\$0	\$182,100	41
10320080	WWIP	LOC	Russell Heights Drive Local Sewer (Construction)	\$1,147,842	\$0	\$1,147,842	42
10330006	WWIP	LOC	Devils Backbone Road Sewer Local (HN 1234 & 1250) (Design,Easement)	\$58,800	\$0	\$58,800	43
10330037	WWIP	LOC	Upper Road Local Sewer (HNs 6340-6434) (Construction)	\$169,900	\$0	\$169,900	44
10370050	WWIP	LOC	Stewart Road Local Sewer (HNs 5706 - 5710) (Design)	\$39,200	\$0	\$39,200	45
10420020	WWIP	LAT	Hanley Road Sewer Lateral Assessment (HN 4040) (Design,Construction)	\$74,500	\$0	\$74,500	46
10420025	WWIP	LAT	Althaus Road Sewer Lateral Assessment (HN 7146) (Design,Construction)	\$79,470	\$0	\$79,470	47
10420030	WWIP	LAT	Blue Rock Road Sewer Lateral Assessment (HN 4300) (Design,Construction)	\$127,000	\$0	\$127,000	48



## 2017 Projects

### Metropolitan Sewer District of Greater Cincinnati

### WWIP Projects

Project ID	CIP Type	Project Type	Project Name	MSD	Other	Total	Page
10420035	WWIP	LAT	Jessup Road Sewer Lateral Assessment (HN 5950) (Design,Construction)	\$47,000	\$0	\$47,000	49
10420040	WWIP	LAT	W Galbraith Road Sewer Lateral Assessment (HN 4198) (Design,Construction)	\$52,000	\$0	\$52,000	50
10430030	WWIP	LAT	Werk Road Sewer Lateral Assessment (HN 6052) (Construction)	\$40,300	\$0	\$40,300	51
10440036	WWIP	LAT	Springdale Road Sewer Lateral Assessment (HN 4081) (Design,Construction)	\$52,000	\$0	\$52,000	52
10440055	WWIP	LAT	E. Galbraith Road Sewer Lateral Assessment (HN 4454) (Construction)	\$45,400	\$0	\$45,400	53
10440075	WWIP	LAT	Compton Road Sewer Lateral Assessment (HN 2526) (Design,Construction)	\$52,000	\$0	\$52,000	54
10450016	WWIP	LAT	Enyart Road Sewer Lateral Assessment (HN 11328) (Construction)	\$40,300	\$0	\$40,300	55
10450035	WWIP	LAT	Hopewell Road Sewer Lateral Assessment (HN 9283) (Design,Construction)	\$52,000	\$0	\$52,000	56
10470009	WWIP	LAT	Markley Road Sewer Lateral Assessment (HN 1019) (Design,Construction)	\$124,000	\$0	\$124,000	57
10470025	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HNs 8145, 8167, 8237) (Construction)	\$75,000	\$0	\$75,000	58
10470030	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8109) (Design,Construction)	\$52,000	\$0	\$52,000	59
10470031	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8217) (Design,Construction)	\$52,000	\$0	\$52,000	60
10470032	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8263) (Design,Construction)	\$52,000	\$0	\$52,000	61
10470033	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8253) (Design,Construction)	\$52,000	\$0	\$52,000	62
10470034	WWIP	LAT	Woodruff Road Sewer Lateral Assessment (HN 8273) (Design,Construction)	\$52,000	\$0	\$52,000	63
11142745	WWIP	SEP	CSO 488 Strategic Sewer Separation Phase A (Planning,Design,Easement)	\$1,615,800	\$0	\$1,615,800	64
11143260	WWIP	SEP	CSO 21 I-75 Reconstruction Coordination (Construction)	\$2,988,600	\$0	\$2,988,600	65
11240020	WWIP	SRC	CSO 181 Real Time Control (Design,Construction)	\$3,573,400	\$0	\$3,573,400	66
11240110	WWIP	SEP	Quebec Rd Sewer Separation (Construction)	\$6,726,900	\$0	\$6,726,900	67
11240130	WWIP	SEP	Queen City Ave Sewer Separation Phase 2 (Construction)	\$9,059,500	\$0	\$9,059,500	68
11243140	WWIP	SEP	CSO 217 483 Source Control Phase A (Construction)	\$3,873,333	\$0	\$3,873,333	69
11243141	WWIP	SRC	CSO 217 483 Source Control Phase B (Design,Construction)	\$12,639,400	\$0	\$12,639,400	70



**2017 Projects**  
**Metropolitan Sewer District of Greater Cincinnati**  
**WWIP Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>	<b>Page</b>
11243142	WWIP	SRC	CSO 217 483 Source Control Phase A2 (Construction)	\$7,283,000	\$0	\$7,283,000	71
<b>Total Cost for 48 WWIP CIP Projects</b>				<b>\$97,800,571</b>	<b>\$0</b>	<b>\$97,800,571</b>	

DRAFT

# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Glenview Pump Station Upgrade		
Project ID	10131220	CIP Number	2006-37
Project Type	Pump Station Improvement/Elim	Sewer Number	5783

## Purpose and Justification

This project will upgrade the existing Glenview pump station which has deteriorated beyond its useful life and is not capable of handling wet weather flows. This project has the ability to reduce or possibly eliminate an existing sanitary sewer overflow. (CSO 522)

## Impact to Operating Budget

None

## Description and Location

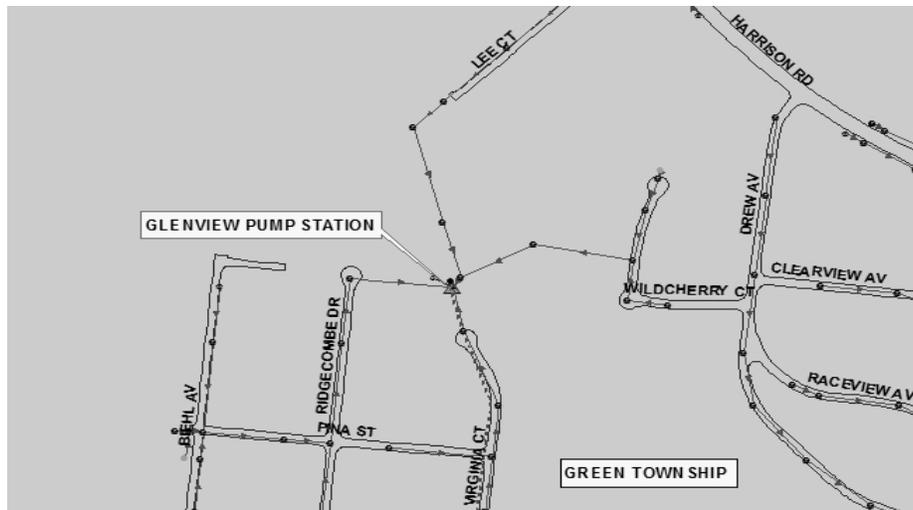
This project will install a new 570 GPM pump station northeast of the current Glenview Pump Station. Work includes demolition of the existing pump station, installation of approximately 16 feet of a new 18" gravity sewer from existing wet well to the new wet well and 21 feet of new 6" force main from the new valve vault to the existing force main. This project is located in Green Township.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$188,000	\$327,722	\$0	\$0	\$327,722
Pre-Construction Services	\$44,000	\$44,000	\$0	\$0	\$44,000
Miscellaneous Expense	\$30,000	\$30,000	\$0	\$0	\$30,000
Right-of-Way	\$300,000	\$274,778	\$0	\$0	\$274,778
Construction	\$1,171,000	\$0	\$501,500	\$0	\$501,500
Program Management	\$0	\$35,494	\$0	\$0	\$35,494
Construction Services	\$67,000	\$0	\$77,200	\$0	\$77,200
Interest / Financing	\$38,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,838,000</b>	<b>\$711,994</b>	<b>\$578,700</b>	<b>\$0</b>	<b>\$1,290,694</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$711,994	\$578,700	\$0	\$0	\$0	\$1,290,694

## Prior Legislation Action

Jun 2011, Feb 2013, Jan 2014, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Ludlow and Lafayette Parallel Sewer		
Project ID	10141080	CIP Number	10141080
Project Type	Sewer Separation	Sewer Number	6244

## Purpose and Justification

This project is required by the Global Consent Decree to eliminate surcharges of SSOs 645 & 225A for a design 2-year storm. By bypassing the downstream bottleneck, the parallel sewer will eliminate the overflows for SSOs 645 & 225A for the 2-year storm. Coordinating with GCWW to minimize local disturbance and construction cost.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

## Description and Location

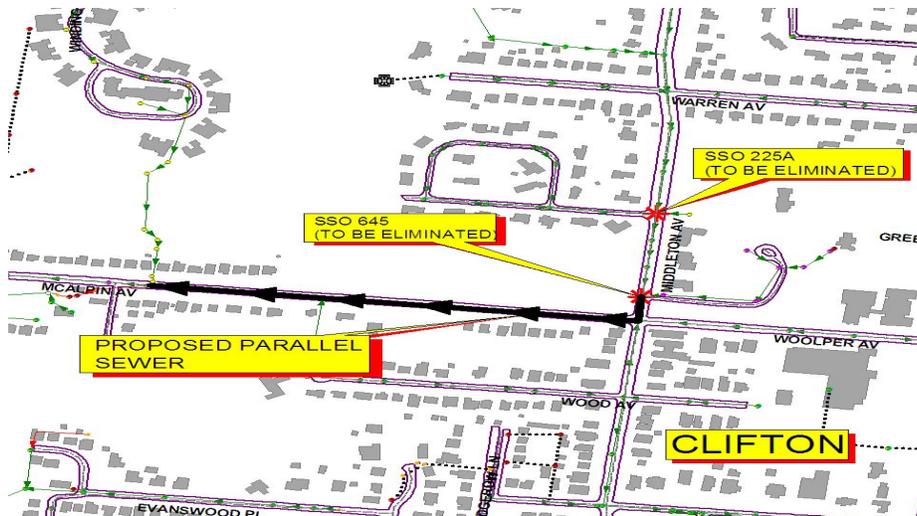
This project will eliminate surcharges of SSOs 645 and 225A for a design 2 year storm by installation of approximately 1950 feet of a 24-inch parallel sewer along with 136 feet of 6' and 8" connections. Although June 2009 submittal project description calls for the construction of a new parallel sewer to follow original alignment -- 1700 feet of 15-inch sewer, MSD determined that a 24-inch parallel sewer was necessary to achieve the desired level of control. This project is in the Clifton neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$59,255	\$57,900	\$0	\$0	\$57,900
Design	\$59,255	\$228,900	\$0	\$0	\$228,900
Pre-Construction Services	\$24,613	\$91,500	\$0	\$0	\$91,500
Miscellaneous Expense	\$24,322	\$32,300	\$0	\$0	\$32,300
Right-of-Way	\$158,697	\$0	\$0	\$0	\$0
Construction	\$445,196	\$0	\$2,892,100	\$0	\$2,892,100
Program Management	\$0	\$16,622	\$0	\$0	\$16,622
Construction Services	\$72,029	\$0	\$321,900	\$0	\$321,900
Interest / Financing	\$36,482	\$0	\$159,100	\$0	\$159,100
<b>Total</b>	<b>\$879,849</b>	<b>\$427,222</b>	<b>\$3,373,100</b>	<b>\$0</b>	<b>\$3,800,322</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$427,222	\$3,373,100	\$0	\$0	\$0	\$3,800,322

## Prior Legislation Action

Dec 2009, Mar 2011, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	SSO 1000 Elimination		
Project ID	10170080	CIP Number	10170080
Project Type	SSO Improvement/Elim	Sewer Number	6369

## Purpose and Justification

This project will eliminate SSO 1000. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

## Impact to Operating Budget

None

## Description and Location

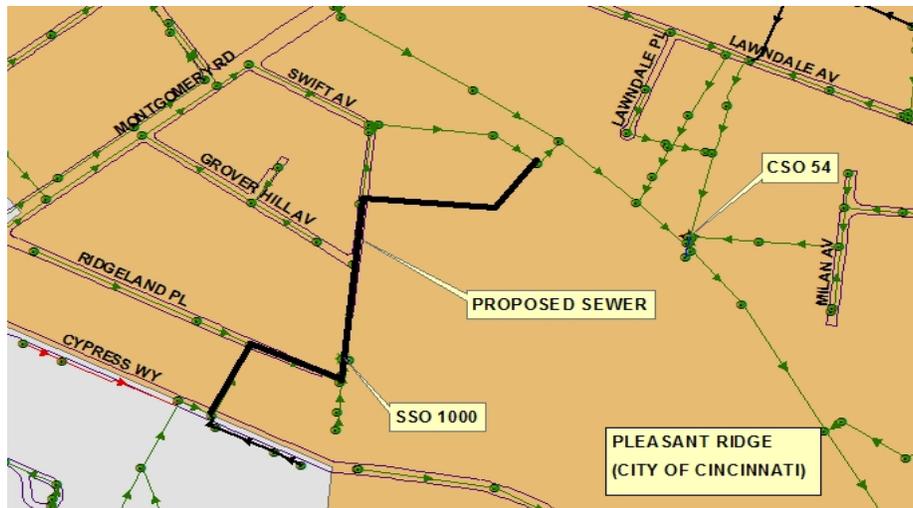
This project is intended to result in the elimination of SSO 1000. The improvements consist of installing approximately 950 feet of relief sewer that will allow would be overflows to be routed to the downstream sewer that has capacity. In addition, 550 feet of upstream sewer will be upsized. This project is in the Pleasant Ridge neighborhood 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	\$128,400	\$84,000	\$0	\$0	\$84,000
Pre-Construction Services	\$101,900	\$48,600	\$0	\$0	\$48,600
Miscellaneous Expense	\$55,800	\$25,000	\$0	\$0	\$25,000
Right-of-Way	\$63,800	\$63,800	\$0	\$0	\$63,800
Construction	\$1,449,500	\$0	\$815,600	\$0	\$815,600
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$143,500	\$0	\$110,200	\$0	\$110,200
Interest / Financing	\$71,800	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$2,014,700</b>	<b>\$221,400</b>	<b>\$925,800</b>	<b>\$0</b>	<b>\$1,147,200</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$221,400	\$925,800	\$0	\$0	\$0	\$1,147,200

## Prior Legislation Action

Jul 2013, Jan 2015, Aug 2015, Feb 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	SSO 228 Elimination		
Project ID	10170100	CIP Number	10170100
Project Type	SSO Improvement/Elim	Sewer Number	6368

## Purpose and Justification

This project will eliminate SSO 228. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

## Impact to Operating Budget

None

## Description and Location

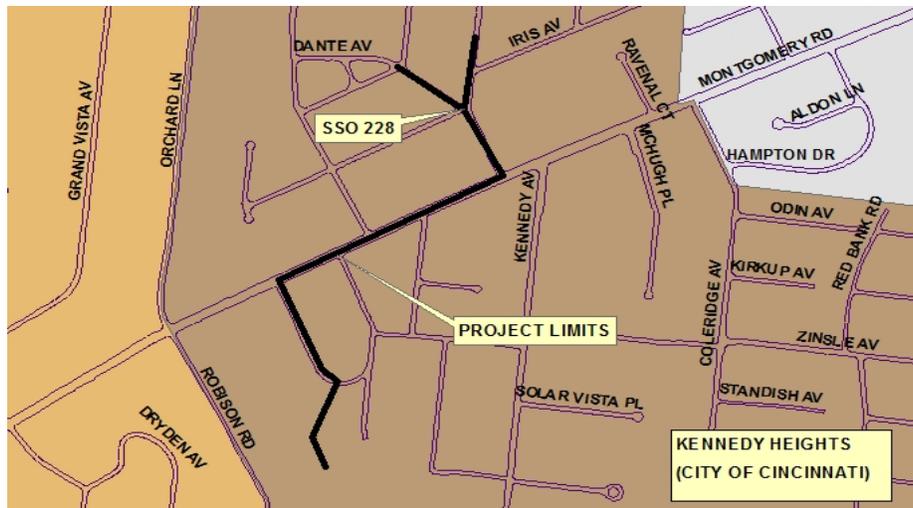
This project is intended to result in the elimination of SSO 228. The improvements consist of installing approximately 2,900 feet of relief sewer that will allow would be overflows to be routed to the downstream sewer that has capacity. In addition, 800 feet of upstream sewer will be upsized. This is in the Kennedy Heights neighborhood 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	\$97,700	\$136,000	\$0	\$0	\$136,000
Pre-Construction Services	\$113,400	\$49,200	\$0	\$0	\$49,200
Miscellaneous Expense	\$41,400	\$33,600	\$0	\$0	\$33,600
Right-of-Way	\$176,800	\$176,800	\$0	\$0	\$176,800
Construction	\$1,074,300	\$0	\$1,912,500	\$0	\$1,912,500
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$106,400	\$0	\$201,486	\$0	\$201,486
Interest / Financing	\$53,200	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,663,200</b>	<b>\$395,600</b>	<b>\$2,113,986</b>	<b>\$0</b>	<b>\$2,509,586</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$395,600	\$2,113,986	\$0	\$0	\$0	\$2,509,586

## Prior Legislation Action

Jul 2013, Aug 2015, Feb 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Stanley Ave Lateral Relocations		
Project ID	10170176	CIP Number	10170176
Project Type	Sewer Replacement	Sewer Number	6451

## Purpose and Justification

This project will address the increased hydraulic grade line due to the Eastern and Delta Phase 3 project. To ensure that the Eastern and Delta projects meets the WWIP objective of 123.4 MG of planned remaining overflow, the proposed elevation of the weir is to be raised. From this increased elevation the System Wide Model indicated and increase in the potential for a sewer back up during a 10-year storm event. This project will address the increased risk of sewage backups at the affected properties by relocating the service laterals to a different trunk sewer.

## Impact to Operating Budget

None

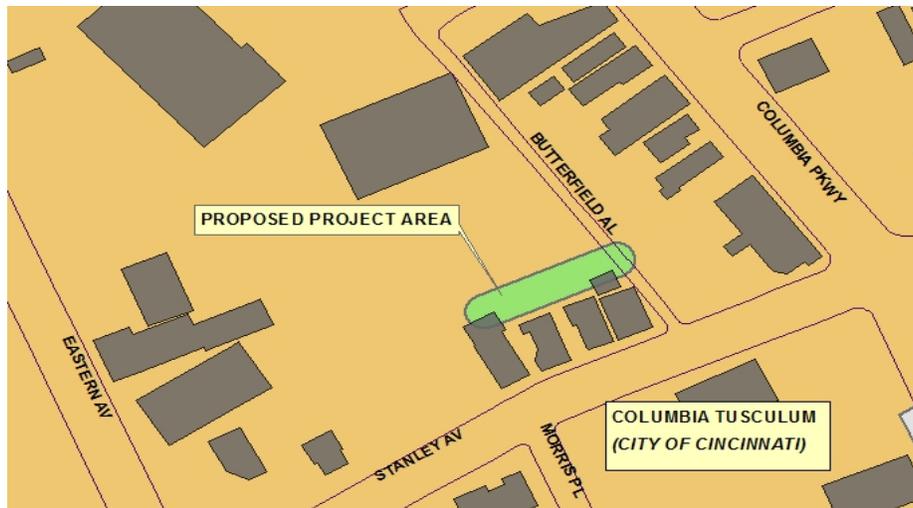
## Description and Location

This project consists of approximately 120 lf of sanitary piping. The proposed improvements are located in the rear lot areas of 323 and 233 Stanley Avenue and in Butterfield Alley, in the Columbia Tusculum 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	\$0	\$0	\$0	\$0
Design	\$37,400	\$0	\$0	\$0	\$0
Pre-Construction Services	\$5,200	\$57,300	\$0	\$0	\$57,300
Miscellaneous Expense	\$34,400	\$37,600	\$0	\$0	\$37,600
Right-of-Way	\$50,000	\$50,000	\$0	\$0	\$50,000
Construction	\$171,800	\$0	\$135,400	\$0	\$135,400
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$13,000	\$0	\$20,000	\$0	\$20,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$311,800</b>	<b>\$144,900</b>	<b>\$155,400</b>	<b>\$0</b>	<b>\$300,300</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$144,900	\$155,400	\$0	\$0	\$0	\$300,300

Prior Legislation Action
Dec 2014, Dec 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 54 Improvements		
Project ID	10171580	CIP Number	10171580
Project Type	CSO Improvement/Elim	Sewer Number	6397

## Purpose and Justification

This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle. The project will increase the underflow capacity of the regulator to meet the Consent Decree goal.

## Impact to Operating Budget

None

## Description and Location

This project is intended to make improvements to CSO 54. The improvements consist of replacing the regulator structure and raising the overflow weir height to increase the underflow capacity of the regulator. Also, vehicular access to the regulator will be provided. This project is located in the Pleasant Ridge 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	\$0	\$0	\$0	\$0
Design	\$18,900	\$49,000	\$0	\$0	\$49,000
Pre-Construction Services	\$12,800	\$8,000	\$0	\$0	\$8,000
Miscellaneous Expense	\$8,500	\$8,000	\$0	\$0	\$8,000
Right-of-Way	\$0	\$24,000	\$0	\$0	\$24,000
Construction	\$217,700	\$0	\$186,600	\$0	\$186,600
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$46,100	\$0	\$46,100
Interest / Financing	\$10,800	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$268,700</b>	<b>\$89,000</b>	<b>\$232,700</b>	<b>\$0</b>	<b>\$321,700</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$89,000	\$232,700	\$0	\$0	\$0	\$321,700

## Prior Legislation Action

Apr 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 551 Sewer Separation		
Project ID	10171740	CIP Number	10171740
Project Type	Sewer Separation	Sewer Number	6399

## Purpose and Justification

This project will separate sewers to reduce overflows at CSO 551. This Phase 1 Wet Weather Improvement Plan project is part of the Upper Duck Bundle and was included in the June 2009 submittal.

## Impact to Operating Budget

None

## Description and Location

This project is intended to result in the reduction of overflows at CSO 551. The June 2009 submittal Project Description Design calls for sewer separation. MSD will examine this and other alternatives to address this problem. This project is located in the Oakley neighborhood 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	\$275,600	\$362,100	\$0	\$0	\$362,100
Pre-Construction Services	\$0	\$39,800	\$0	\$0	\$39,800
Miscellaneous Expense	\$116,600	\$54,500	\$0	\$0	\$54,500
Right-of-Way	\$59,800	\$30,500	\$274,600	\$0	\$305,100
Construction	\$3,074,900	\$0	\$1,325,300	\$0	\$1,325,300
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$93,800	\$0	\$93,800
Interest / Financing	\$154,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$3,680,900</b>	<b>\$486,900</b>	<b>\$1,693,700</b>	<b>\$0</b>	<b>\$2,180,600</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$486,900	\$1,693,700	\$0	\$0	\$0	\$2,180,600

## Prior Legislation Action

May 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Main Sewer Renewal Program 2017		
Project ID	10180117	CIP Number	10180117
Project Type	Allowance	Sewer Number	

<b>Purpose and Justification</b> Formerly known as the “Trenchless Technology Sewer Rehabilitation Allowance”, this program supports the cost-effective renewal of structurally deteriorated existing main sewers while improving the hydraulic performance of the wastewater collection system.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> This program supports internal rehabilitation and renewal of existing main sewers throughout the District as a cost effective alternative to open-cut (excavation) replacement. The scope of work for this program will include, but not limit itself to, cured-in-place lining, slip-lining, spin-casting, sprayed coatings, and carbon filament wrapping. The sewer segments to be addressed under this program are identified through standardized visual PACP condition assessments, and are prioritized by risk considering likelihood and consequence of failure as well as opportunities for construction coordination.

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	\$10,000,000	\$0	\$10,000,000	\$0	\$10,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$2,000,000	\$0	\$2,000,000	\$0	\$2,000,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$12,000,000</b>	<b>\$0</b>	<b>\$12,000,000</b>	<b>\$0</b>	<b>\$12,000,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$12,000,000	\$0	\$0	\$0	\$12,000,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Manhole Renewal Program 2017		
Project ID	10180217	CIP Number	10180217
Project Type	Allowance	Sewer Number	6562

## Purpose and Justification

Formerly known as the "Trenchless Technology Manhole Rehabilitation Allowance", this program supports the cost-effective renewal of structurally deficient manholes to mitigate risk, reduce inflow and infiltration, and the installation of new manholes to support operation and maintenance of the wastewater collection system.

## Impact to Operating Budget

None

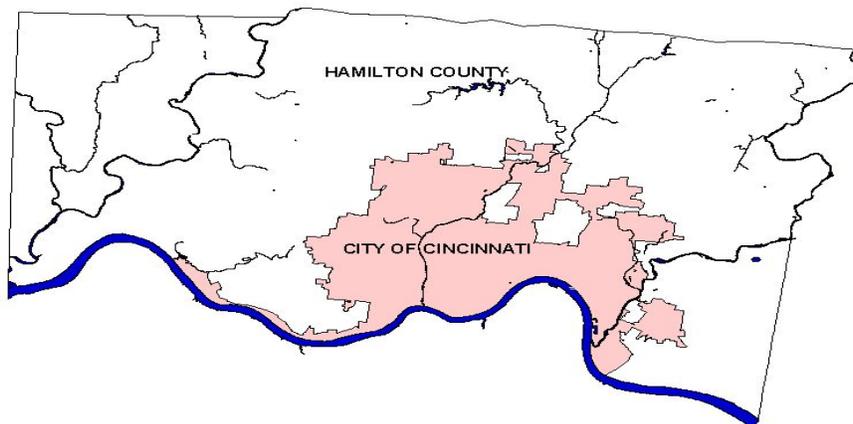
## Description and Location

This program supports the renewal of structurally deficient manholes in the MSD wastewater collection system, and the installation of new manholes to support operation and maintenance of the wastewater collection system. Manhole renewal projects are identified by evaluating structural condition, consequence of failure, and opportunities for construction coordination. The scope of work for the program will include manhole repairs, replacement manholes, new manholes, and adjustments and chimney repairs completed in conjunction with paving projects.

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	\$1,200,000	\$0	\$1,200,000	\$0	\$1,200,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$100,000	\$0	\$100,000	\$0	\$100,000
Interest / Financing	\$40,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,340,000</b>	<b>\$0</b>	<b>\$1,300,000</b>	<b>\$0</b>	<b>\$1,300,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$1,300,000	\$0	\$0	\$0	\$0	\$1,300,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Home Sewer Treatment System Eliminations 2017		
Project ID	10190317	CIP Number	10190317
Project Type	Allowance	Sewer Number	6563

**Purpose and Justification**  
 This program is identified in the Global Consent Decree. This program will provide public funding for planning and petition services in support of various local sewer projects and sewer lateral projects. The local sewer projects and sewer lateral projects will convert Home Sewage Treatment Systems (HSTS) to sewer service thereby reducing the discharge of pollutants to WWIP watersheds. Failing or improperly functioning HSTS are a source of pollutants that has been linked to dry weather bacterial exceedances.

**Impact to Operating Budget**  
 None

**Description and Location**  
 This program supports the overall HSTS Elimination program by funding planning and petition services for various local sewer projects and sewer lateral projects in all watersheds.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$290,000	\$0	\$290,000	\$0	\$290,000
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
<b>Total</b>	<b>\$290,000</b>	<b>\$0</b>	<b>\$290,000</b>	<b>\$0</b>	<b>\$290,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$290,000	\$0	\$0	\$0	\$290,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Wet Weather Program Management and Support Services 2017		
Project ID	10199017	CIP Number	10199017
Project Type	Allowance	Sewer Number	6564

## Purpose and Justification

MSD program management efforts have successfully assisted the District – both internal and external – to have access to up to date information as the end of Phase 1 is approached with regard to capital projects and the overall Consent Decree and Asset Management Program. MSD proposes to maintain this level of reporting for transparency of information to the stakeholders of the District to maintain the momentum required to complete Phase 1 of the Wet Weather Improvement Program, streamline the Asset Management Program, and while developing an optimized and affordable schedule for Phase 2 (and future phases) of the Wet Weather Improvement Program.

## Impact to Operating Budget

None

## Description and Location

The MSD wet weather program management team includes both internal personnel and supplemental outside professional consultants to manage and report on the multiple projects in planning, design, and construction phases.

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	\$5,300,000	\$0	\$3,500,000	\$0	\$3,500,000
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
<b>Total</b>	<b>\$5,300,000</b>	<b>\$0</b>	<b>\$3,500,000</b>	<b>\$0</b>	<b>\$3,500,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$3,500,000	\$0	\$0	\$0	\$3,500,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Hamilton County Utility Oversight and Coordination 2017		
Project ID	10199117	CIP Number	10199117
Project Type	Allowance	Sewer Number	6565

## Purpose and Justification

Hamilton County, as owner of the MSDGC and as party to the Consent Decree, will expend significant funds executing the Wet Weather Improvement Program "WWIP" as defined in the Consent Decree. To ensure that projects being built adhere to the WWIP and are cost effective and on schedule, a Monitor team has been created to help oversee the capital program. The Monitor team consists of County staff, consultants and attorneys.

## Impact to Operating Budget

None

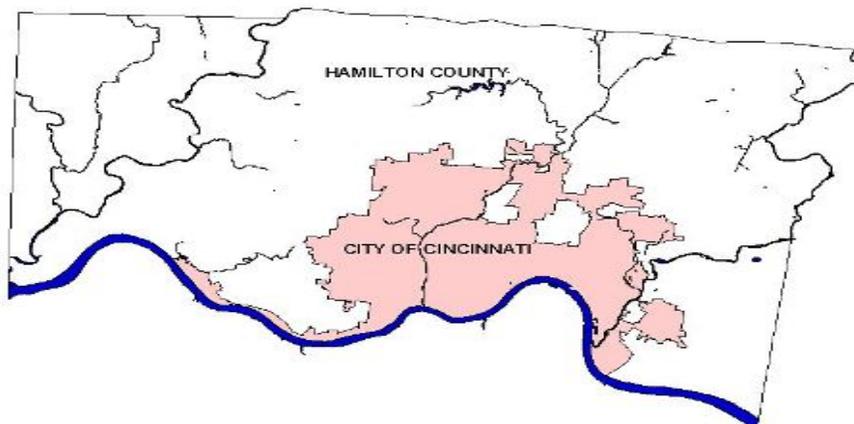
## Description and Location

Hamilton County's continued use of County staff and outside consultants and attorneys is critical to ensure that MSD rate payers are funding only those projects that are necessary and cost effective to adhere to the terms of phase 1 of the Wet Weather Improvement Program "WWIP", as well as ongoing Asset Management projects and allowances. 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 the County and MSDGC rate payers. The project funds the team responsible for this oversight function. Previous legislation for these services was funded under the Wet Weather Program Management and Support Services Allowance.

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	\$2,700,000	\$0	\$2,700,000	\$0	\$2,700,000
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
<b>Total</b>	\$2,700,000	\$0	\$2,700,000	\$0	\$2,700,000

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$2,700,000	\$0	\$0	\$0	\$0	\$2,700,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 125 Stream Separation		
Project ID	10240018	CIP Number	10240018
Project Type	Source Control	Sewer Number	6108

## Purpose and Justification

As part of the West Fork source control projects for the LMCPR, this project will remove over 280 million gallons of stream flow annually from the combined sewer and over 100 million gallons of combined sewer overflow from CSO 125 sewershed. The two basins will control storm water originating from 890 acres of predominantly undeveloped land. The Basin Outlet Pipe will convey the storm water from the two basins at a controlled rate to the West Fork Channel. The West Fork source control projects in the LMCPR will reduce overflow volumes in the entire West Fork watershed by 173 million gallons in a typical year, based on model version 3.2 (LMCPR Study Report 2012).

## Impact to Operating Budget

None

## Description and Location

This project consists of two stormwater detention basins, approximately 6,460 lf of basin outlet pipe, approximately 900 lf of sanitary sewer, and associated appurtenances. The project will separate a perennial stream and storm flows from the combined sewer system. This project is in the Northside neighborhood of the City of Cincinnati.

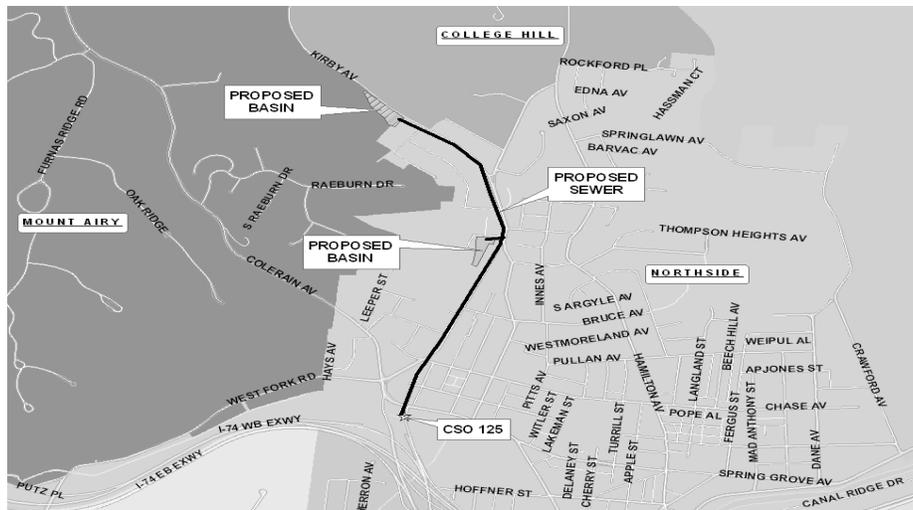
Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$326,113	\$0	\$0	\$326,113
Design	\$260,000	\$724,660	\$0	\$0	\$724,660
Pre-Construction Services	\$123,200	\$406,920	\$0	\$0	\$406,920
Miscellaneous Expense	\$12,000	\$127,300	\$0	\$0	\$127,300
Right-of-Way	\$320,000	\$2,201,337	\$0	\$0	\$2,201,337
Construction	\$3,060,000	\$109,100	\$9,226,400	\$0	\$9,335,500
Program Management	\$0	\$69,667	\$0	\$0	\$69,667
Construction Services	\$156,000	\$0	\$1,197,400	\$0	\$1,197,400
Interest / Financing	\$153,000	\$0	\$145,800	\$0	\$145,800
<b>Total</b>	<b>\$4,084,200</b>	<b>\$3,965,097</b>	<b>\$10,569,600</b>	<b>\$0</b>	<b>\$14,534,697</b>

## Projected Legislation Dates

Prior Legislation	2017	2018	2019	2020	2021	Project Total
	\$3,965,097	\$10,569,600	\$0	\$0	\$0	\$14,534,697

## Prior Legislation Action

May 2010, Mar 2011, Jan 2013, May 2014, Jul 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 217/483 Source Control - Phase C		
Project ID	10240021	CIP Number	10240021
Project Type	Source Control	Sewer Number	6275

## Purpose and Justification

The CSO 217 483 projects will eliminate approx. 113 MG of CSOs, and includes four detention basins (Phase A); sewer separation via installation of 2,700 lf combined, 1,150 lf sanitary and 1,050 lf storm sewers (Phase A2); a storage facility (Phase B); and sewer separation along Winton Rd via installation of 4,850 lf storm sewer, and 2,700 lf sanitary sewer (Phase C). Phase A2 (Project ID 11243142) had its scope and \$7.23M budget subdivided from Phase A due to design schedule, ROW acquisition and specialized construction of the basins of Phase A.

## Impact to Operating Budget

None

## Description and Location

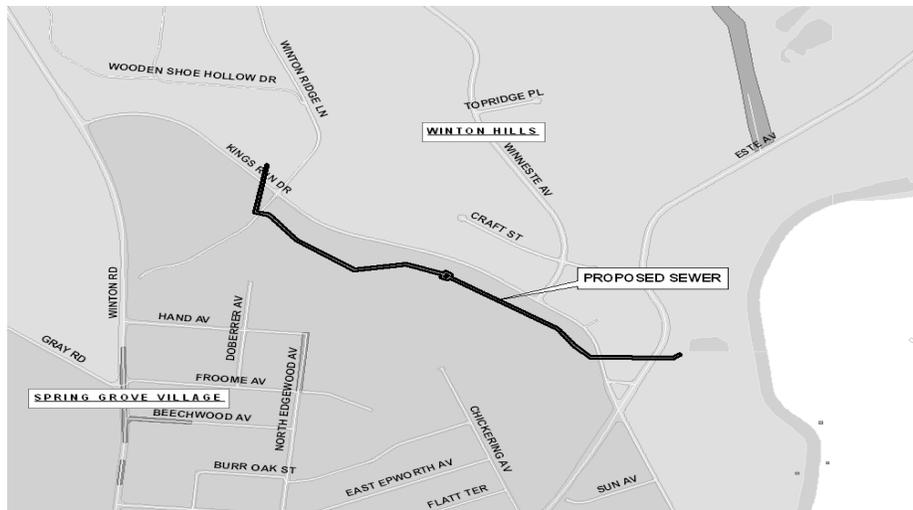
This project includes approximately 2,700 lf of sanitary sewer along Winton Road to complete a portion of the separation of combined sewers in the CSO 483 drainage area. The project will begin near Wynbrook Apartments and reconnect to the existing combined sewer upstream of CSO 217. the project is located in Kings Run sewer shed in the Winton Hills neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$150,109	\$0	\$0	\$150,109
Design	\$712,500	\$722,767	\$0	\$0	\$722,767
Pre-Construction Services	\$190,000	\$334,807	\$0	\$0	\$334,807
Miscellaneous Expense	\$92,000	\$83,800	\$64,200	\$0	\$148,000
Right-of-Way	\$100,000	\$293,500	\$0	\$0	\$293,500
Construction	\$4,750,000	\$0	\$4,330,000	\$0	\$4,330,000
Program Management	\$0	\$94,756	\$0	\$0	\$94,756
Construction Services	\$156,000	\$0	\$508,340	\$0	\$508,340
Interest / Financing	\$237,500	\$0	\$60,800	\$0	\$60,800
<b>Total</b>	<b>\$6,238,000</b>	<b>\$1,679,739</b>	<b>\$4,963,340</b>	<b>\$0</b>	<b>\$6,643,079</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$1,679,739	\$4,963,340	\$0	\$0	\$0	\$6,643,079

## Prior Legislation Action

Jun 2010, May 2014, Jan 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Kern Drive & Springdale Road Local Sewer		
Project ID	10320058	CIP Number	10320058
Project Type	Local Sewer	Sewer Number	6145

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver, recorded with Hamilton County Recorder's Office, satisfies MSDs Rules and Regulations requirements for majority endorsement from benefited properties. Per MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct without the public hearing.

## Impact to Operating Budget

None

## Description and Location

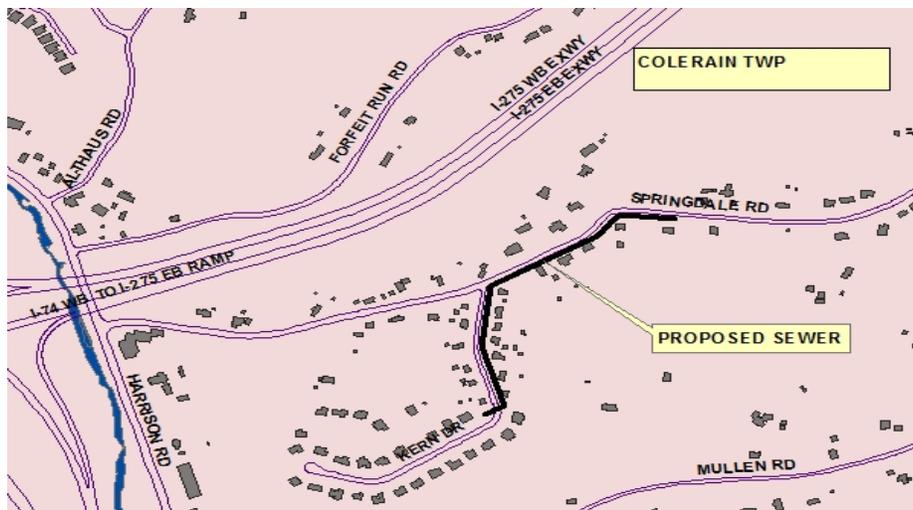
Kern Drive & Springdale Road Local Sewer is an assessment sewer project that will benefit 24 parcels and eliminate 23 household sewage treatment systems. The Project involves construction of 1,918 linear feet of 8-inch diameter gravity sanitary sewer; 24- 6 inch diameter sewer laterals and other sewer appurtenances. The project is located in the Taylor Creek sewer shed of MSD's West Basin, Colerain Township, Hamilton County, Ohio. The project runs along Kern Drive between addresses 6811 and 6888 and along Springdale Road between addresses 6857 and 6924.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$69,100	\$3,650	\$0	\$0	\$3,650
Pre-Construction Services	\$26,000	\$91,450	\$0	\$0	\$91,450
Miscellaneous Expense	\$3,700	\$6,000	\$0	\$0	\$6,000
Right-of-Way	\$87,400	\$87,400	\$0	\$0	\$87,400
Construction	\$432,000	\$0	\$871,600	\$0	\$871,600
Program Management	\$0	\$8,386	\$0	\$0	\$8,386
Construction Services	\$25,000	\$0	\$30,000	\$0	\$30,000
Interest / Financing	\$10,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$653,200</b>	<b>\$196,886</b>	<b>\$901,600</b>	<b>\$0</b>	<b>\$1,098,486</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$196,886	\$901,600	\$0	\$0	\$0	\$1,098,486

## Prior Legislation Action

Mar 2011, Jan 2014, May 2014, Jun 2014, Nov 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Reemelin Road Local Sewer (HNs 3489-3860)		
Project ID	10320065	CIP Number	10320065
Project Type	Local Sewer	Sewer Number	6177

<b>Purpose and Justification</b> Reemelin Road Local Sewer (HNs 3489-3860) will benefit 30 parcels, which are all single-family homes. The project will eliminate 30 household sewage treatment systems.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> Reemelin Road Local Sewer (HNs 3489-3860) will benefit 30 parcels, which are all single-family homes. The project will eliminate 30 household sewage treatment systems. The project will outfall to existing 12-inch diameter sewer, No. 4706 and existing 15-inch diameter sewer, No. 3952. The concept plan for this project involves construction of approximately 2500 linear feet of 8-inch diameter gravity sanitary sewer; 30 - 6 inch diameter sewer laterals and other sewer appurtenances.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$130,000	\$130,000	\$0	\$0	\$130,000
Pre-Construction Services	\$35,000	\$17,500	\$0	\$0	\$17,500
Miscellaneous Expense	\$5,000	\$5,000	\$0	\$0	\$5,000
Right-of-Way	\$214,000	\$214,000	\$0	\$0	\$214,000
Construction	\$582,000	\$0	\$1,075,700	\$0	\$1,075,700
Program Management	\$0	\$13,745	\$0	\$0	\$13,745
Construction Services	\$73,000	\$0	\$40,400	\$0	\$40,400
Interest / Financing	\$22,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,061,000</b>	<b>\$380,245</b>	<b>\$1,116,100</b>	<b>\$0</b>	<b>\$1,496,345</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$380,245	\$1,116,100	\$0	\$0	\$0	\$1,496,345

**Prior Legislation Action**  
 Mar 2012, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Crestnoll Lane Local Sewer (HN 3491-3609)		
Project ID	10320070	CIP Number	10320070
Project Type	Local Sewer	Sewer Number	6222

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver, recorded with Ham County Recorders Office, satisfies MSDs Rules and Regulations requirements for majority endorsement from benefited properties. Per MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

## Description and Location

Crestnoll Lane Local Sewer (Hns 3491-3609) is an assessment sewer project that will benefit 25 parcels and eliminate 25 household sewage treatment systems. The Project involves construction of 1,698 linear feet of 8-inch diameter gravity sanitary sewer; 25 - 6 inch diameter sewer laterals and other sewer appurtenances. The project was initiated by a citizen petition that received positive endorsement from a majority of benefited property owners and is therefore valid. The project is located in the Taylor Creek sewer shed of MSD's West Basin, Green Township, Hamilton County, Ohio. The project is located between 3491 to 3609 Crestnoll Lane, between 4778 to 4794 Crestpoint Drive and between 4739 to 4767 North Bend Road.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$104,000	\$104,000	\$0	\$0	\$104,000
Pre-Construction Services	\$42,000	\$21,000	\$0	\$0	\$21,000
Miscellaneous Expense	\$6,000	\$6,000	\$0	\$0	\$6,000
Right-of-Way	\$164,000	\$164,000	\$0	\$0	\$164,000
Construction	\$698,000	\$0	\$879,000	\$0	\$879,000
Program Management	\$0	\$11,868	\$0	\$0	\$11,868
Construction Services	\$73,000	\$0	\$28,800	\$0	\$28,800
Interest / Financing	\$22,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,109,000</b>	<b>\$306,868</b>	<b>\$907,800</b>	<b>\$0</b>	<b>\$1,214,668</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$306,868	\$907,800	\$0	\$0	\$0	\$1,214,668

## Prior Legislation Action

Mar 2012, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Old Blue Rock Road Local Sewer (HN 5240-5327)		
Project ID	10320075	CIP Number	10320075
Project Type	Local Sewer	Sewer Number	6232

## Purpose and Justification

A citizen's petition initiated this project. Property owners representing 4 properties expressed support for the petition during the polling process (57% level of support). Requirements of MSD Rules and Regulations Section 1805 have been met as the petition received positive endorsement from property owners representing a majority of benefited properties. The petition is therefore valid under Board policy. The project cost was reduced by moving the sewer to the rear yards during the design process.

## Impact to Operating Budget

None

## Description and Location

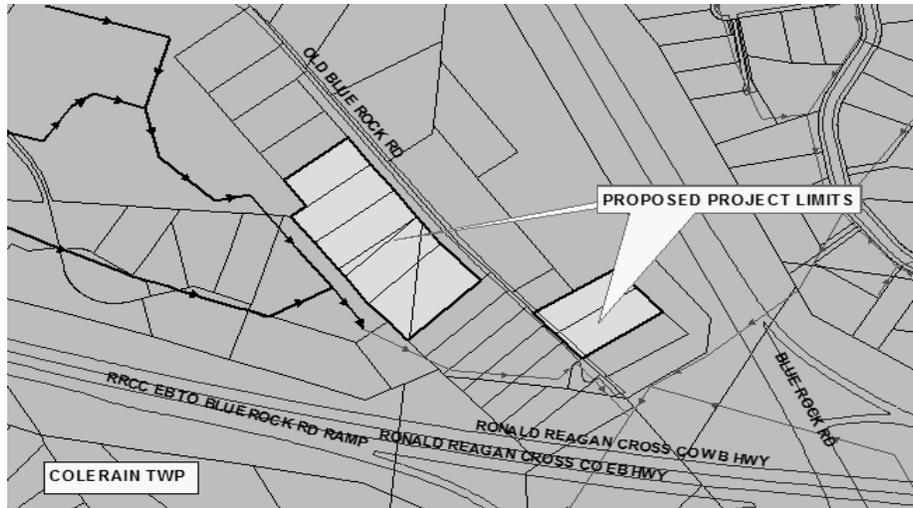
The project will eliminate seven Home sewage treatment systems (HSTS). The local sewer plan proposes the construction of 840 linear feet of 8-inch diameter gravity sanitary sewer, 7 - 6 inch diameter sewer laterals, and other sewer appurtenances. The project is located In the Taylor Creek sewer shed of the Taylor Creek-Miamitown Basin, in Colerain Township, Hamilton County, Ohio. The project is located on Old Blue Rock Road from HN 5240 to 5327.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$60,000	\$69,620	\$0	\$0	\$69,620
Pre-Construction Services	\$7,000	\$28,410	\$0	\$0	\$28,410
Miscellaneous Expense	\$2,000	\$2,000	\$0	\$0	\$2,000
Right-of-Way	\$98,000	\$88,380	\$0	\$0	\$88,380
Construction	\$215,000	\$0	\$169,300	\$0	\$169,300
Program Management	\$0	\$10,494	\$0	\$0	\$10,494
Construction Services	\$23,100	\$0	\$12,800	\$0	\$12,800
Interest / Financing	\$3,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$408,100</b>	<b>\$198,904</b>	<b>\$182,100</b>	<b>\$0</b>	<b>\$381,004</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$198,904	\$182,100	\$0	\$0	\$0	\$381,004

## Prior Legislation Action

Aug 2012, Jan 2014, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Russell Heights Drive Local Sewer		
Project ID	10320080	CIP Number	10320080
Project Type	Local Sewer	Sewer Number	6692

## Purpose and Justification

The Russell Heights Drive Local Sewer Project will benefit 13 single-family parcels. Per MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

## Description and Location

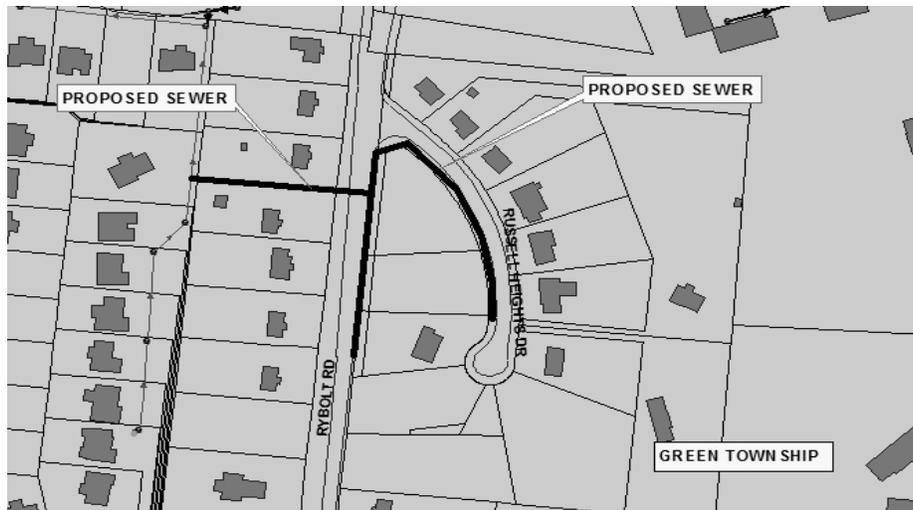
The Russell Heights Drive Local Sewer Project will benefit 13 single-family parcels, eliminating 13 household sewage treatment systems. MSD proposes to construct 1,300 linear feet of 8-inch diameter gravity sanitary sewer; 13 - 6 inch diameter sewer laterals; and other sewer appurtenances. The project is located in the Taylor Creek sewer shed of the West Basin in Green Township, Hamilton County, Ohio on Russell Heights Drive and Rybolt Road at Russell Heights Drive.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$113,900	\$126,900	\$0	\$0	\$126,900
Pre-Construction Services	\$19,300	\$22,800	\$0	\$0	\$22,800
Miscellaneous Expense	\$29,400	\$7,000	\$0	\$0	\$7,000
Right-of-Way	\$30,000	\$36,000	\$0	\$0	\$36,000
Construction	\$642,000	\$0	\$1,046,100	\$0	\$1,046,100
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$29,300	\$0	\$101,742	\$0	\$101,742
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$863,900</b>	<b>\$192,700</b>	<b>\$1,147,842</b>	<b>\$0</b>	<b>\$1,340,542</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$192,700	\$1,147,842	\$0	\$0	\$0	\$1,340,542

## Prior Legislation Action

Oct 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Devils Backbone Road Sewer Local (HN 1234 & 1250)		
Project ID	10330006	CIP Number	10330006
Project Type	Local Sewer	Sewer Number	6551

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver, recorded with Hamilton County Recorder's Office, satisfies MSD's Rules and Regulations' requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public

## Impact to Operating Budget

None

## Description and Location

Project consists of design and construction of 160 feet of 8-inch sanitary sewer to service HN 1234 and HN 1250 Devils Backbone Road in Delhi Township.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$30,700	\$0	\$30,700	\$0	\$30,700
Pre-Construction Services	\$3,700	\$0	\$3,700	\$0	\$3,700
Miscellaneous Expense	\$7,500	\$0	\$7,500	\$0	\$7,500
Right-of-Way	\$16,900	\$0	\$16,900	\$0	\$16,900
Construction	\$123,000	\$0	\$0	\$246,000	\$246,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$16,500	\$0	\$0	\$16,500	\$16,500
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$198,300</b>	<b>\$0</b>	<b>\$58,800</b>	<b>\$262,500</b>	<b>\$321,300</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$58,800	\$262,500	\$0	\$0	\$0
	\$0	\$58,800	\$262,500	\$0	\$0	\$0
	\$0	\$58,800	\$262,500	\$0	\$0	\$321,300

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Upper Road Local Sewer (HNs 6340-6434)		
Project ID	10330037	CIP Number	10330037
Project Type	Local Sewer	Sewer Number	6098

## Purpose and Justification

According to Hamilton County Public Health, the project will eliminate 4 onsite sewage treatment systems.

## Impact to Operating Budget

None

## Description and Location

The Upper Road Local Sewer (HNs 6340-6434) Project would benefit 4 parcels. The benefited parcels are 4 single family homes. According to Hamilton County Public Health, the project will eliminate 4 onsite sewage treatment systems. The project would outfall to SS# 2085 running on the south side of Cleves Warsaw Road. The Upper Road Local Sewer (HNs 6340-6434) involves the construction of 850 linear feet of 8-inch diameter gravity sanitary sewer; 4 - 6 inch diameter sewer laterals and other sewer appurtenances. The project is located near Addyston Township on Upper Road in Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$35,500	\$35,500	\$0	\$0	\$35,500
Pre-Construction Services	\$4,900	\$4,900	\$0	\$0	\$4,900
Miscellaneous Expense	\$1,500	\$1,500	\$0	\$0	\$1,500
Right-of-Way	\$56,000	\$56,000	\$0	\$0	\$56,000
Construction	\$0	\$0	\$161,000	\$0	\$161,000
Program Management	\$0	\$43	\$0	\$0	\$43
Construction Services	\$0	\$0	\$8,900	\$0	\$8,900
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$97,900</b>	<b>\$97,943</b>	<b>\$169,900</b>	<b>\$0</b>	<b>\$267,843</b>

## Projected Legislation Dates

Prior Legislation	2017	2018	2019	2020	2021	Project Total
\$97,943	\$169,900	\$0	\$0	\$0	\$0	\$267,843

## Prior Legislation Action

Mar 2013, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Stewart Road Local Sewer (HNs 5706 - 5710)		
Project ID	10370050	CIP Number	10370050
Project Type	Local Sewer	Sewer Number	6560

## Purpose and Justification

The project will eliminate two household sewage treatment systems at 5706 and 5710 Stewart Road, which are failing according to Hamilton County Public Health. The proposed local sewer is the preferred method to resolve this STS nuisance situation. Owners of both benefited properties have expressed their support for the project by providing executed Petitions, Statements & Waivers meeting regulations governing the design, construction, maintenance, operation and use of sanitary and combined sewers ("MSD Rules and Regulations") requirements for majority endorsement from benefited properties. The petition is therefore valid under Board policy.

## Impact to Operating Budget

None

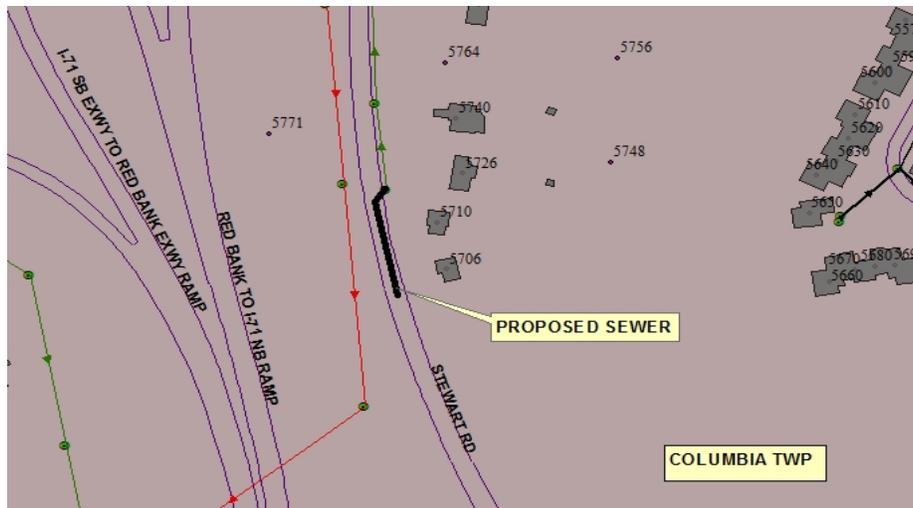
## Description and Location

The project will extend SS #905 along the eastside of Stewart Road to provide sanitary sewer service to the properties at 5706 and 5710 Stewart Road. The project involves construction of 110 linear feet of 8-inch diameter gravity sanitary sewer, two 6-inch diameter laterals and other sewer appurtenances. The proposed local sewer improvement is located in Columbia Township, Hamilton County, Ohio and is tributary to the Little Miami Wastewater Treatment Plant.

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	\$30,100	\$0	\$30,100	\$0	\$30,100
Miscellaneous Expense	\$9,100	\$0	\$9,100	\$0	\$9,100
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$128,000	\$0	\$0	\$128,000	\$128,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$12,600	\$0	\$0	\$12,600	\$12,600
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$179,800</b>	<b>\$0</b>	<b>\$39,200</b>	<b>\$140,600</b>	<b>\$179,800</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$39,200	\$140,600	\$0	\$0	\$179,800

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Hanley Road Sewer Lateral Assessment (HN 4040)		
Project ID	10420020	CIP Number	10420020
Project Type	Lateral Sewer	Sewer Number	6502

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

## Description and Location

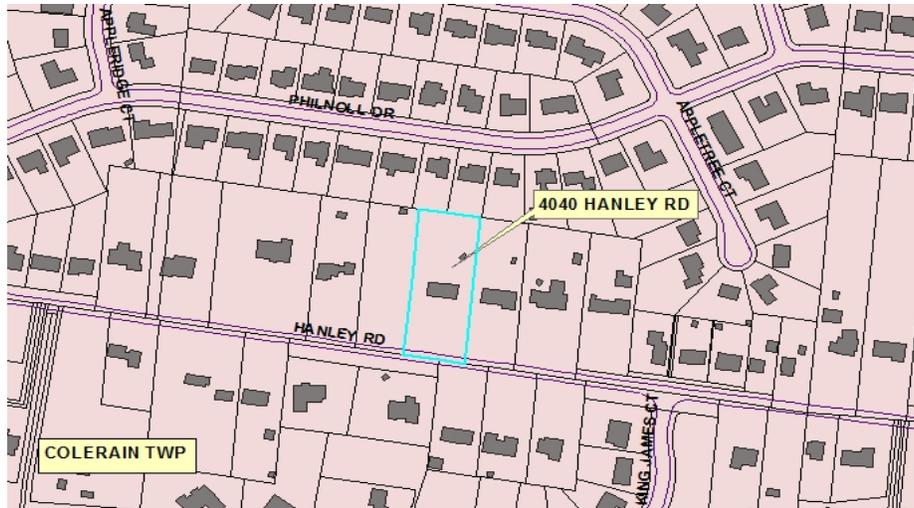
The proposed assessment will benefit one single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating one household sewage treatment system. MSD proposes to construct 65 feet of 8-inch diameter mainline sewer and 10 feet of 6-inch building sewer lateral and associated appurtenances. The 8-inch diameter public sewer main to be installed across Hanley Road is in lieu of a 6-inch lateral, to allow for future sewer extension(s) serving other un-sewered properties along Hanley Road. The proposed sewer lateral assessment is located in the Taylor Creek sewer shed in Colerain Township, Hamilton County, Ohio at 4040 Hanley Road.

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	\$2,500	\$0	\$2,500	\$0	\$2,500
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$32,800	\$0	\$55,500	\$0	\$55,500
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$10,000	\$0	\$16,500	\$0	\$16,500
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$45,300</b>	<b>\$0</b>	<b>\$74,500</b>	<b>\$0</b>	<b>\$74,500</b>

## Projected Legislation Dates

Prior Legislation	2017	2018	2019	2020	2021	Project Total
\$0	\$74,500	\$0	\$0	\$0	\$0	\$74,500

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Althaus Road Sewer Lateral Assessment (HN 7146)		
Project ID	10420025	CIP Number	10420025
Project Type	Lateral Sewer	Sewer Number	6566

<b>Purpose and Justification</b> The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 41 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Taylor Creek sewer shed in Colerain Township, Hamilton County, Ohio at 7146 Althaus Road.

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	\$2,000	\$0	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$47,470	\$0	\$47,470	\$0	\$47,470
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$30,000	\$0	\$30,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$49,470</b>	<b>\$0</b>	<b>\$79,470</b>	<b>\$0</b>	<b>\$79,470</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$79,470	\$0	\$0	\$0	\$0	\$79,470

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Blue Rock Road Sewer Lateral Assessment (HN 4300)		
Project ID	10420030	CIP Number	10420030
Project Type	Lateral Sewer	Sewer Number	6567

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

## Description and Location

The proposed assessment will benefit one single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating one household sewage treatment system. MSD proposes to construct 120 feet of 8-inch diameter mainline sewer and 10 feet of 6-inch building sewer lateral and associated appurtenances. The 8-inch diameter public sewer main to be installed across Blue Rock Road is in lieu of a 6-inch lateral, to allow for future sewer extension(s) serving other un-sewered properties along Blue Rock Road. The proposed sewer lateral assessment is located in the Taylor Creek sewer shed in Colerain Township, Hamilton County, Ohio at 4300 Blue Rock Road.

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	\$2,000	\$0	\$2,500	\$0	\$2,500
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$35,000	\$0	\$108,000	\$0	\$108,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$16,500	\$0	\$16,500
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$37,000</b>	<b>\$0</b>	<b>\$127,000</b>	<b>\$0</b>	<b>\$127,000</b>

## Projected Legislation Dates

Prior Legislation	2017	2018	2019	2020	2021	Project Total
\$0	\$127,000	\$0	\$0	\$0	\$0	\$127,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Jessup Road Sewer Lateral Assessment (HN 5950)		
Project ID	10420035	CIP Number	10420035
Project Type	Lateral Sewer	Sewer Number	6568

<p><b>Purpose and Justification</b></p> <p>The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.</p>	<p><b>Impact to Operating Budget</b></p> <p>None</p>
<p><b>Description and Location</b></p> <p>The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 55 feet long that will connect to Sanitary Sewer #1663 running along the south side of Jessup Road. This proposed sewer lateral assessment project is located in the Taylor Creek sewer shed in Colerain Township, Hamilton County, Ohio at 5950 Jessup Road.</p>	

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	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$27,699	\$0	\$30,000	\$0	\$30,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$27,699	\$0	\$47,000	\$0	\$47,000

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$47,000	\$0	\$0	\$0	\$47,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	W Galbraith Road Sewer Lateral Assessment (HN 4198)		
Project ID	10420040	CIP Number	10420040
Project Type	Lateral Sewer	Sewer Number	6569

**Purpose and Justification**

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

**Impact to Operating Budget**

None

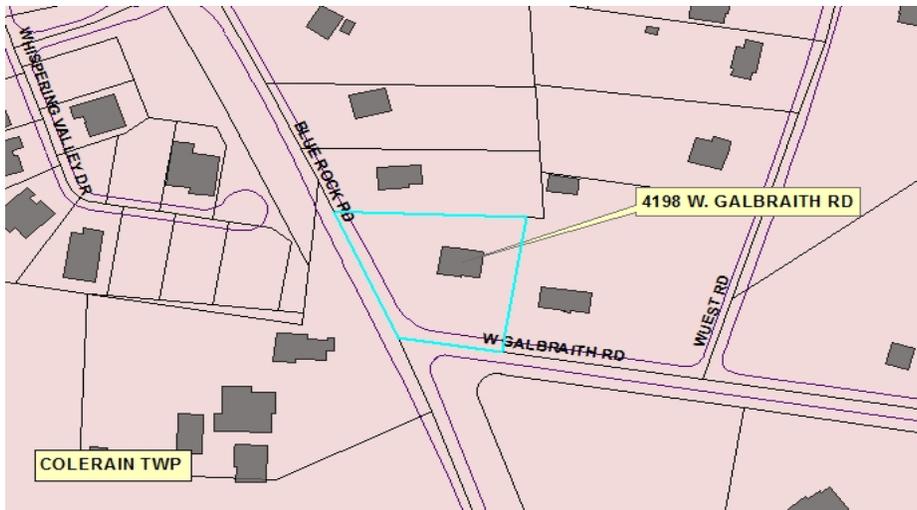
**Description and Location**

The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 60 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Taylor Creek sewer shed in Colerain Township, Hamilton County, Ohio at 4198 W Galbraith Road.

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	\$2,000	\$0	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$35,000	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$37,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$52,000	\$0	\$0	\$0	\$52,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Werk Road Sewer Lateral Assessment (HN 6052)		
Project ID	10430030	CIP Number	10430030
Project Type	Lateral Sewer	Sewer Number	6570

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

## Description and Location

This proposed sewer lateral assessment project is located in the Muddy Creek sewer shed of the West Basin in Green Township, Hamilton County, Ohio at 6052 Werk Road. The proposed Werk Road Sewer Lateral Assessment (HN 6052) will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 51 feet long that will connect to a gravity sewer.

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	\$2,000	\$2,000	\$0	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$30,000	\$0	\$30,000	\$0	\$30,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$10,300	\$0	\$10,300	\$0	\$10,300
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$42,300</b>	<b>\$2,000</b>	<b>\$40,300</b>	<b>\$0</b>	<b>\$42,300</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$2,000	\$40,300	\$0	\$0	\$0	\$42,300

## Prior Legislation Action

Jan 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Springdale Road Sewer Lateral Assessment (HN 4081)		
Project ID	10440036	CIP Number	10440036
Project Type	Lateral Sewer	Sewer Number	6571

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

## Description and Location

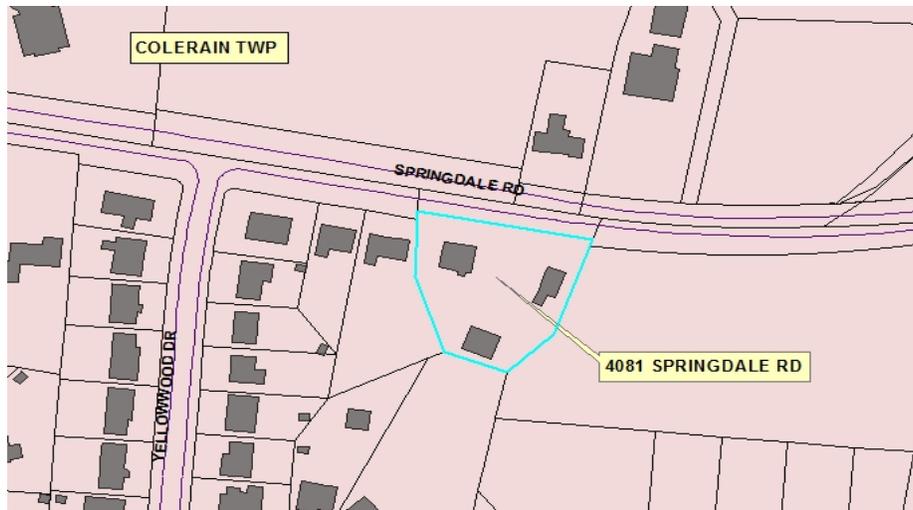
The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 35 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Taylor Creek sewer shed in Colerain Township, Hamilton County, Ohio at 4081 Springdale Road.

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	\$2,000	\$0	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$17,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

## Projected Legislation Dates

Prior Legislation	2017	2018	2019	2020	2021	Project Total
\$0	\$52,000	\$0	\$0	\$0	\$0	\$52,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	E. Galbraith Road Sewer Lateral Assessment (HN 4454)		
Project ID	10440055	CIP Number	10440055
Project Type	Lateral Sewer	Sewer Number	6572

<b>Purpose and Justification</b> The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver, recorded with Hamilton County Recorder's Office, satisfies MSD's Rules and Regulations' requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> The E. Galbraith Road Sewer Lateral Assessment (HN 4454) project will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1 - 6 inch diameter sewer lateral 47 feet long that will connect to a gravity sewer. This sewer lateral assessment project is located in the Mill Creek sewer shed of the Central Basin in Sycamore Township, Hamilton County, Ohio at 4454 E. Galbraith Road.

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	\$2,000	\$2,000	\$0	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$35,000	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$10,400	\$0	\$10,400	\$0	\$10,400
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$47,400</b>	<b>\$2,000</b>	<b>\$45,400</b>	<b>\$0</b>	<b>\$47,400</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$2,000	\$45,400	\$0	\$0	\$0	\$47,400

**Prior Legislation Action**  
Jan 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Compton Road Sewer Lateral Assessment (HN 2526)		
Project ID	10440075	CIP Number	10440075
Project Type	Lateral Sewer	Sewer Number	6573

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

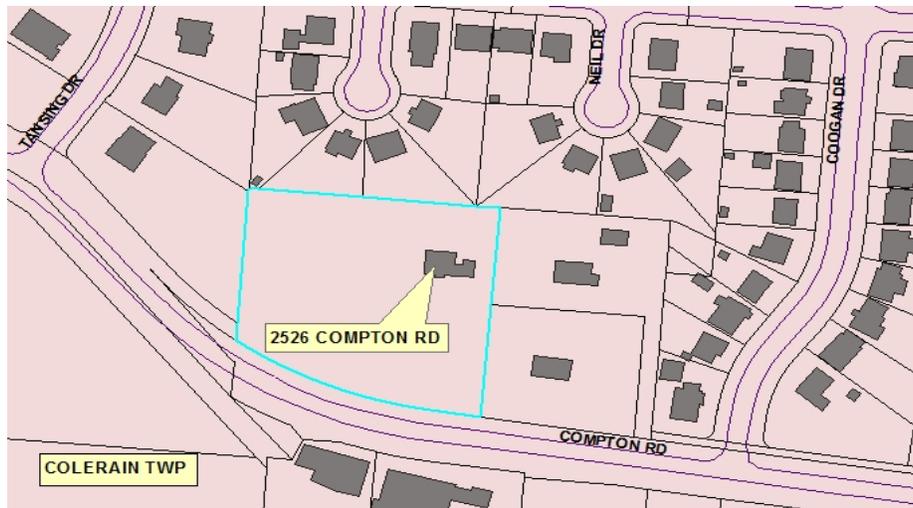
## Description and Location

The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 60 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Mill Creek sewer shed in Colerain Township, Hamilton County, Ohio at 2526 Compton Road.

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	\$2,000	\$0	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$17,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$52,000	\$0	\$0	\$0	\$52,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Enyart Road Sewer Lateral Assessment (HN 11328)		
Project ID	10450016	CIP Number	10450016
Project Type	Lateral Sewer	Sewer Number	6574

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver, recorded with Hamilton County Recorder's Office, satisfies MSD's Rules and Regulations' requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public

## Impact to Operating Budget

None

## Description and Location

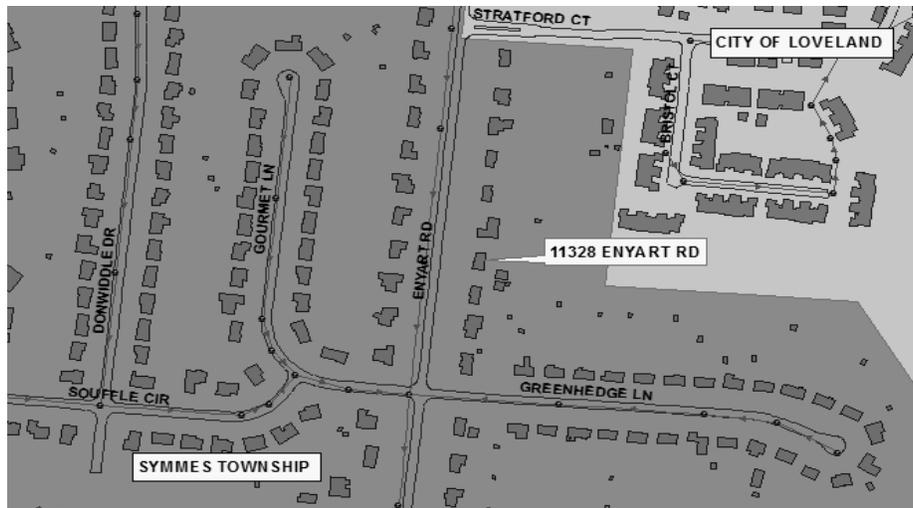
This proposed sewer lateral assessment project is located in the Polk Run sewer shed of the East Basin in Symmes Township, Hamilton County, Ohio at 11328 Enyart Road. The proposed Enyart Road Sewer Lateral Assessment (HN 11328) will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 55 feet long that will connect to a gravity sewer.

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	\$2,000	\$2,000	\$0	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$30,000	\$0	\$30,000	\$0	\$30,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$10,300	\$0	\$10,300	\$0	\$10,300
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$42,300</b>	<b>\$2,000</b>	<b>\$40,300</b>	<b>\$0</b>	<b>\$42,300</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$2,000	\$40,300	\$0	\$0	\$0	\$42,300

## Prior Legislation Action

Jan 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Hopewell Road Sewer Lateral Assessment (HN 9283)		
Project ID	10450035	CIP Number	10450035
Project Type	Lateral Sewer	Sewer Number	6575

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

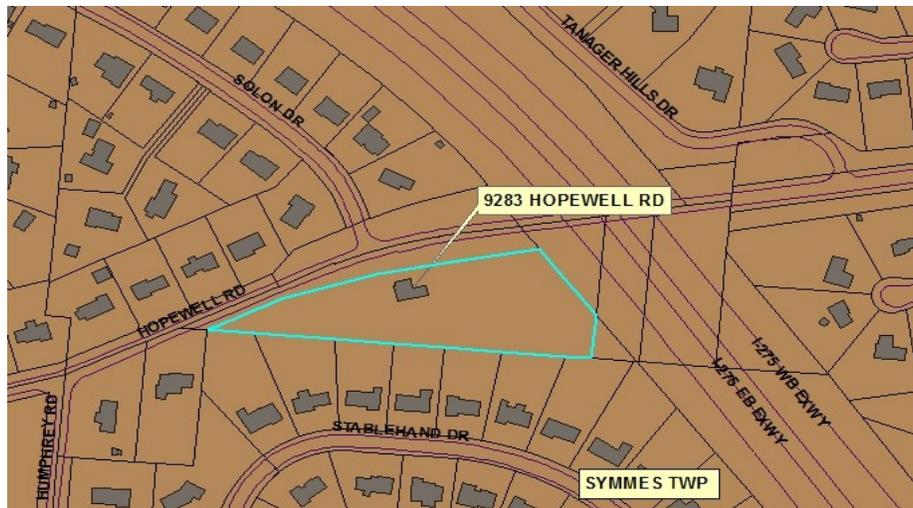
## Description and Location

The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 80 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Polk Run sewer shed in Symmes Township, Hamilton County, Ohio at 9283 Hopewell Road.

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	\$2,000	\$0	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$17,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$52,000	\$0	\$0	\$0	\$52,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Markley Road Sewer Lateral Assessment (HN 1019)		
Project ID	10470009	CIP Number	10470009
Project Type	Lateral Sewer	Sewer Number	6576

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

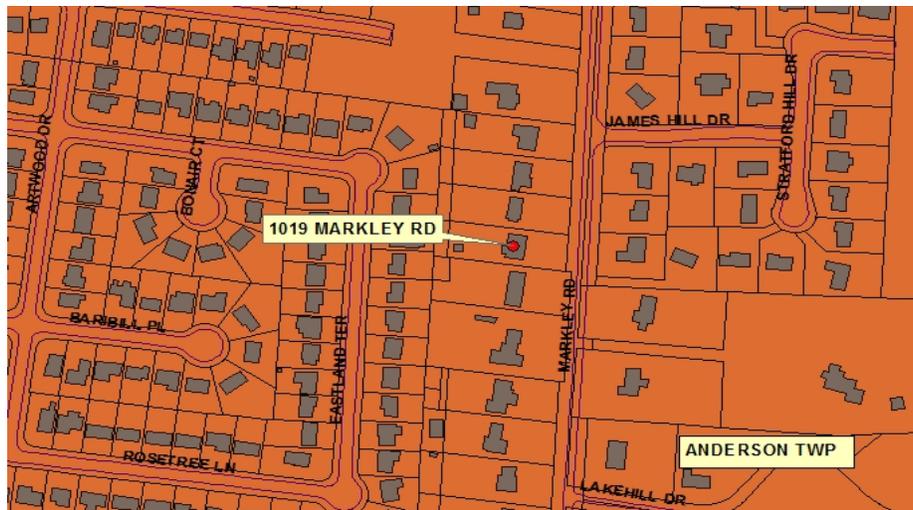
## Description and Location

The proposed assessment will benefit one single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating one household sewage treatment system. MSD proposes to construct 75 feet of 8-inch diameter mainline sewer and 10 feet of 6-inch building sewer lateral and associated appurtenances. The 8-inch diameter public sewer main to be installed across Markley Road is in lieu of a 6-inch lateral, to allow for future sewer extension(s) serving other un-sewered properties along Markley Road. The proposed sewer lateral assessment is located in the Little Miami sewer shed in Anderson Township, Hamilton County, Ohio 1019 Markley Road.

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	\$2,000	\$0	\$2,500	\$0	\$2,500
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$35,000	\$0	\$105,000	\$0	\$105,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$16,500	\$0	\$16,500
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$124,000</b>	<b>\$0</b>	<b>\$124,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$124,000	\$0	\$0	\$0	\$124,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Woodruff Road Sewer Lateral Assessment (HNs 8145, 8167, 8237)		
Project ID	10470025	CIP Number	10470025
Project Type	Lateral Sewer	Sewer Number	6442

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver, recorded with Hamilton County Recorder's Office, satisfies MSD's Rules and Regulations' requirements for majority endorsement from benefited properties. Per MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

## Description and Location

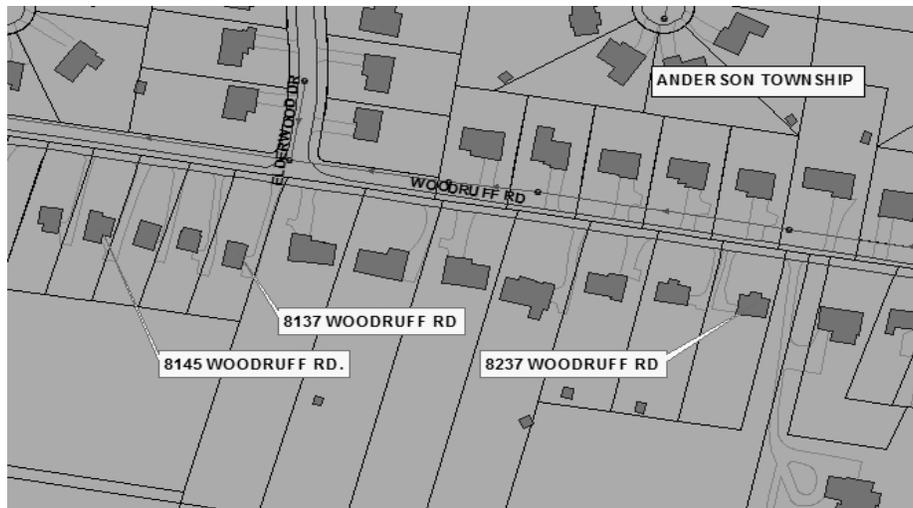
This proposed sewer lateral assessment project is located in the Little Miami sewer shed of the East Basin in Anderson Township, Hamilton County, Ohio at 8145, 8167 and 8237 Woodruff Road. The current request is for design funding. The proposed Woodruff Road Sewer Lateral Assessment (HNs 8145, 8167, 8237) will benefit 3 single-family parcels by extending a sewer lateral to the boundary of the public right of way in front of each benefited property, eliminating 3 household sewage treatment systems. MSD proposes to construct 3, 6-inch diameter sewer laterals having a combined length of 162 feet. Each lateral will connect to a gravity sewer.

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	\$22,600	\$20,000	\$0	\$0	\$20,000
Miscellaneous Expense	\$8,000	\$8,800	\$0	\$0	\$8,800
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$75,000	\$0	\$64,000	\$0	\$64,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$11,200	\$0	\$11,000	\$0	\$11,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$116,800</b>	<b>\$28,800</b>	<b>\$75,000</b>	<b>\$0</b>	<b>\$103,800</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$28,800	\$75,000	\$0	\$0	\$0	\$103,800

## Prior Legislation Action

Dec 2014





# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Woodruff Road Sewer Lateral Assessment (HN 8217)		
Project ID	10470031	CIP Number	10470031
Project Type	Lateral Sewer	Sewer Number	6578

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

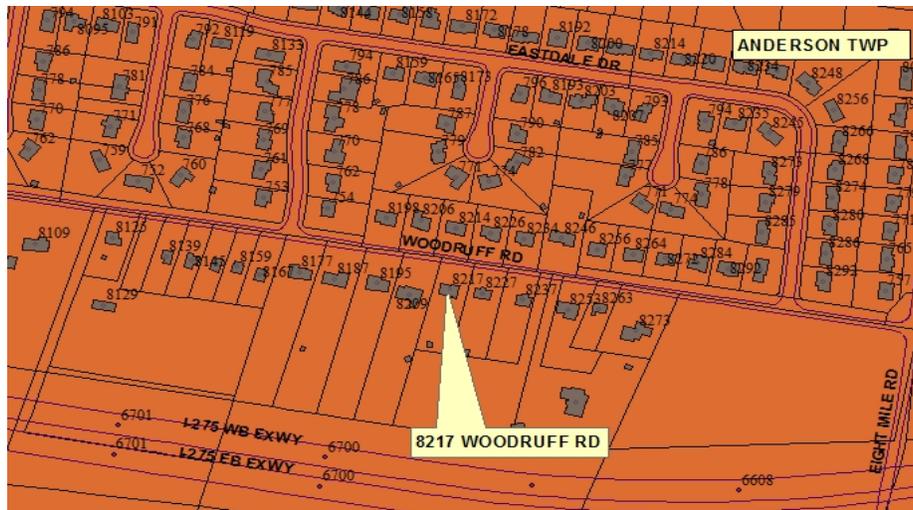
## Description and Location

The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 50 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Little Miami sewer shed in Anderson Township, Hamilton County, Ohio at 8217 Woodruff Road.

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	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$52,000	\$0	\$0	\$0	\$52,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

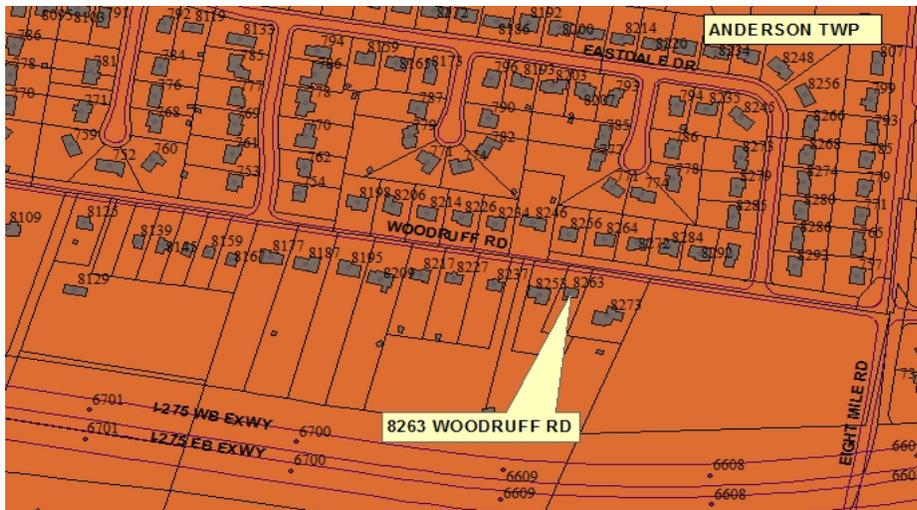
Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Woodruff Road Sewer Lateral Assessment (HN 8263)		
Project ID	10470032	CIP Number	10470032
Project Type	Lateral Sewer	Sewer Number	6579

<b>Purpose and Justification</b> The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 50 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Little Miami sewer shed in Anderson Township, Hamilton County, Ohio at 8263 Woodruff Road.

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	\$2,000	\$0	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$35,000	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$52,000	\$0	\$0	\$0	\$52,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Woodruff Road Sewer Lateral Assessment (HN 8253)		
Project ID	10470033	CIP Number	10470033
Project Type	Lateral Sewer	Sewer Number	6580

## Purpose and Justification

The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.

## Impact to Operating Budget

None

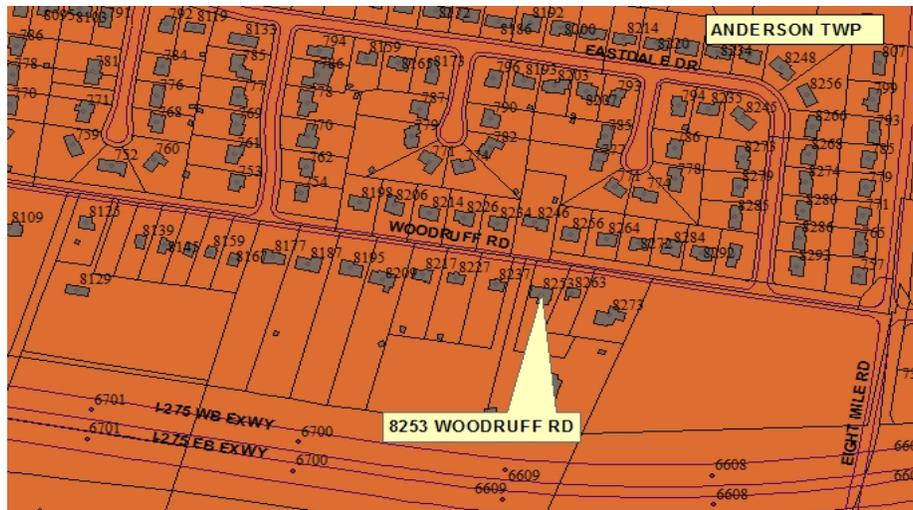
## Description and Location

The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 50 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Little Miami sewer shed in Anderson Township, Hamilton County, Ohio at 8253 Woodruff Road.

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	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$35,000	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$52,000	\$0	\$0	\$0	\$52,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

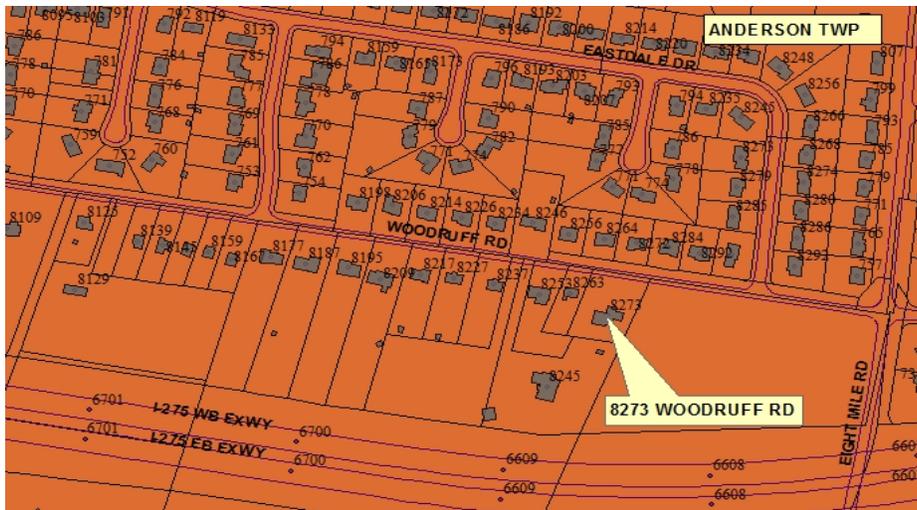
Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Woodruff Road Sewer Lateral Assessment (HN 8273)		
Project ID	10470034	CIP Number	10470034
Project Type	Lateral Sewer	Sewer Number	6581

<b>Purpose and Justification</b> The project was initiated by submittal of a petition, statement and waiver from the owner of the property to be benefited. The waiver satisfies requirements for majority endorsement from benefited properties. Per Section 1805 (A)(1)(ii) of the MSD Rules and Regulations and Section 6117.28 of the ORC, when all the owners of all the lots and lands to be benefited by and assessed for a local sewer improvement consent to its cost and waive the public hearing notice and objection opportunity afforded under law, the County Commissioners may choose to proceed to construct the improvement without the public hearing.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> The proposed assessment will benefit 1 single-family parcel by extending a sewer lateral to the boundary of the public right of way in front of the benefited property, eliminating 1 household sewage treatment system. MSD proposes to construct 1, 6-inch diameter sewer lateral 50 feet long that will connect to a gravity sewer. This proposed sewer lateral assessment project is located in the Little Miami sewer shed in Anderson Township, Hamilton County, Ohio at 8273 Woodruff Road.

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	\$2,000	\$0	\$2,000	\$0	\$2,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$35,000	\$0	\$35,000	\$0	\$35,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$52,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$52,000	\$0	\$0	\$0	\$52,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 488 Strategic Sewer Separation Phase A		
Project ID	11142745	CIP Number	11142745
Project Type	Sewer Separation	Sewer Number	6604

## Purpose and Justification

ODOT is preparing for a widening project on I-75. The interstate in the area is too far for a direct discharge of storm flows in to the Mill Creek or tributary. Storm water from the interstate will discharge, after detention, into a tributary of CSO 488. The I-75 expansion is anticipated to increase overflows at CSO 488 by 4.2 million gallons year as well as increasing the risk for SBU's in the area. ODOT has offered to contribute the construction cost of the detention toward a regional storm water project to separate I-75 storm flows and other area storm connections from the combined sewer.

## Impact to Operating Budget

None

## Description and Location

The project consists of approximately 5,300 linear feet of storm sewer between 36 and 66-inches in diameter. The storm sewers will collect storm water from I-75, as well as, street load separation in the area and route the flows through a 1.6 million gallon bioretention pond before discharge into the Mill Creek. The project is estimated to reduce annual overflow volumes at CSO 488 by 25.3 million gallons. The project is located in the Carthage neighborhood of the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$299,300	\$0	\$299,300	\$0	\$299,300
Design	\$479,700	\$0	\$479,700	\$0	\$479,700
Pre-Construction Services	\$112,300	\$0	\$112,300	\$0	\$112,300
Miscellaneous Expense	\$224,500	\$0	\$224,500	\$0	\$224,500
Right-of-Way	\$500,000	\$0	\$500,000	\$0	\$500,000
Construction	\$5,613,000	\$0	\$0	\$5,613,000	\$5,613,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$505,200	\$0	\$0	\$505,200	\$505,200
Interest / Financing	\$280,650	\$0	\$0	\$280,650	\$280,650
<b>Total</b>	<b>\$8,014,650</b>	<b>\$0</b>	<b>\$1,615,800</b>	<b>\$6,398,850</b>	<b>\$8,014,650</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$1,615,800	\$0	\$0	\$0	\$8,014,650

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 21 I-75 Reconstruction Coordination		
Project ID	11143260	CIP Number	11143260
Project Type	Sewer Separation	Sewer Number	6339

## Purpose and Justification

This project represents on-going collaborative planning between ODOT and MSD. ODOT is reconstructing-75 at the I-75 I-74 interchange as part of their HAM-75-3.85 project. With this coordination, MSD has an opportunity to install infrastructure including relocation of the CSO 21 structure and sewer infrastructure to facilitate some immediate and more future separation to be bid as part of ODOT's project. ODOT will separate their stormwater from the combined system and will collaborate on the access drive and outfall to the Mill Creek.

## Impact to Operating Budget

None

## Description and Location

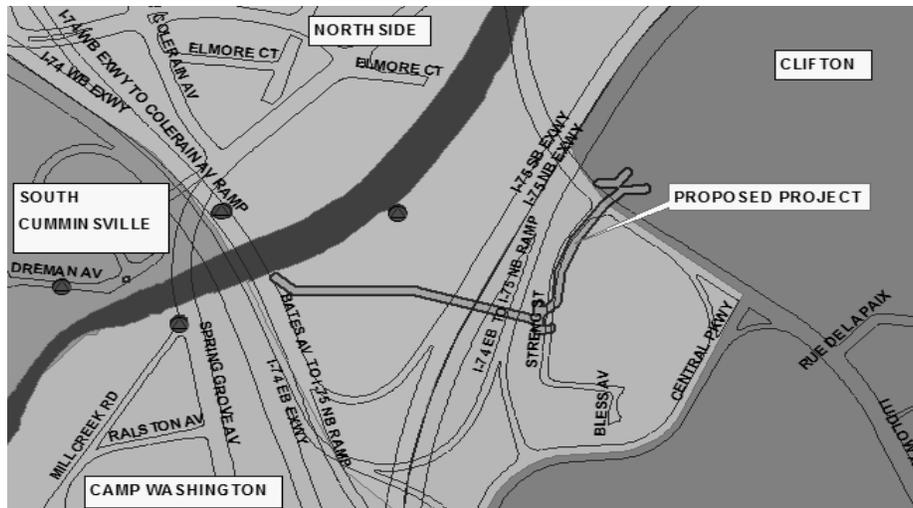
This project is coordinated with ODOT's HAM-75-3.85 project to reconstruct I-75 in the vicinity of the I-75 I-74 interchange. This project includes the relocation of CSO 21 and related new 24 inch sanitary sewer and access drive and the installation of approximately 1200 feet of new sanitary sewer along Streng and Ludlow streets to facilitate abandonment of existing 30 inch combined sewer in ODOT's ROW. ODOT will abandon the 30 inch sewer with its project. The existing combined sewer located downstream of the relocated CSO structure will be repurposed as an outfall pipe. The existing 15" combined sewer north of Ludlow will be converted to a storm only sewer. This project is located in the Clifton neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$93,916	\$0	\$0	\$93,916
Design	\$18,800	\$297,111	\$0	\$0	\$297,111
Pre-Construction Services	\$102,200	\$105,252	\$0	\$0	\$105,252
Miscellaneous Expense	\$67,000	\$59,100	\$0	\$0	\$59,100
Right-of-Way	\$258,600	\$271,000	\$0	\$0	\$271,000
Construction	\$3,074,200	\$0	\$2,885,000	\$0	\$2,885,000
Program Management	\$0	\$47,689	\$0	\$0	\$47,689
Construction Services	\$123,400	\$0	\$103,600	\$0	\$103,600
Interest / Financing	\$85,200	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$3,729,400</b>	<b>\$874,068</b>	<b>\$2,988,600</b>	<b>\$0</b>	<b>\$3,862,668</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$874,068	\$2,988,600	\$0	\$0	\$0	\$3,862,668

## Prior Legislation Action

May 2014, Jun 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 181 Real Time Control		
Project ID	11240020	CIP Number	11240020
Project Type	Source Control	Sewer Number	6083

## Purpose and Justification

The objective of the CSO 181 Real Time Controls facility is to store combined sewage in the existing sewer during wet weather events when there is excess capacity.

## Impact to Operating Budget

None

## Description and Location

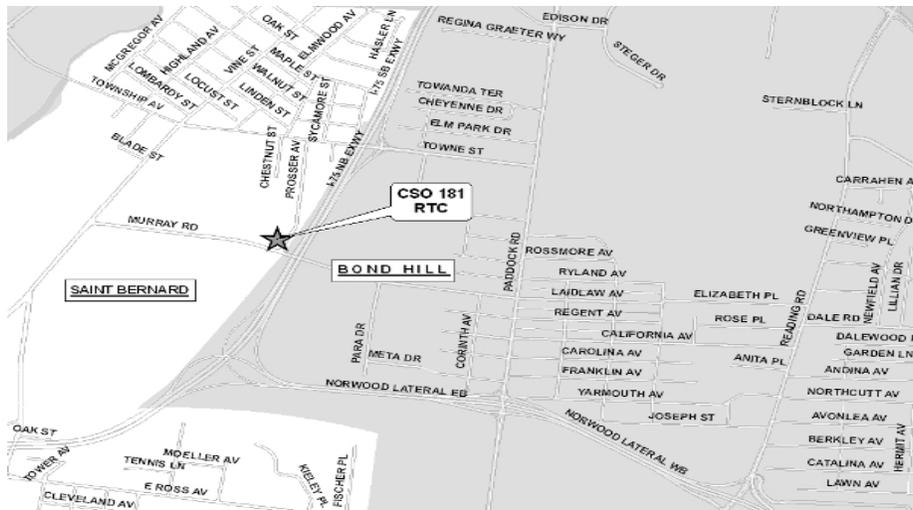
This project consists of a new real time control facility coupled with regulator improvements at CSO 181 to use in-system storage within the existing 10 ft by 15 ft combined trunk sewer. This project is located in the Village of Elmwood Place.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$16,697	\$0	\$0	\$16,697
Design	\$295,200	\$462,479	\$0	\$0	\$462,479
Pre-Construction Services	\$153,727	\$153,727	\$0	\$0	\$153,727
Miscellaneous Expense	\$84,400	\$86,300	\$21,400	\$0	\$107,700
Right-of-Way	\$0	\$55,850	\$0	\$0	\$55,850
Construction	\$3,220,600	\$0	\$2,932,000	\$0	\$2,932,000
Program Management	\$0	\$15,408	\$0	\$0	\$15,408
Construction Services	\$148,200	\$0	\$543,000	\$0	\$543,000
Interest / Financing	\$129,800	\$0	\$77,000	\$0	\$77,000
<b>Total</b>	<b>\$4,031,927</b>	<b>\$790,461</b>	<b>\$3,573,400</b>	<b>\$0</b>	<b>\$4,363,861</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$790,461	\$3,573,400	\$0	\$0	\$0	\$4,363,861

## Prior Legislation Action

Jan 2013, May 2013, Aug 2013, Jan 2014, May 2014, Apr 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Quebec Rd Sewer Separation		
Project ID	11240110	CIP Number	11240110
Project Type	Sewer Separation	Sewer Number	6125

## Purpose and Justification

This project is part of the Lower Mill Creek Partial Remedy (LMCPR Bundle) Lick Run Source Control. The Quebec Road project will capture storm water from approximately 197 drainage acres. The overall LMCPR Bundle estimate is currently under the original \$244M 2006 budget.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

## Description and Location

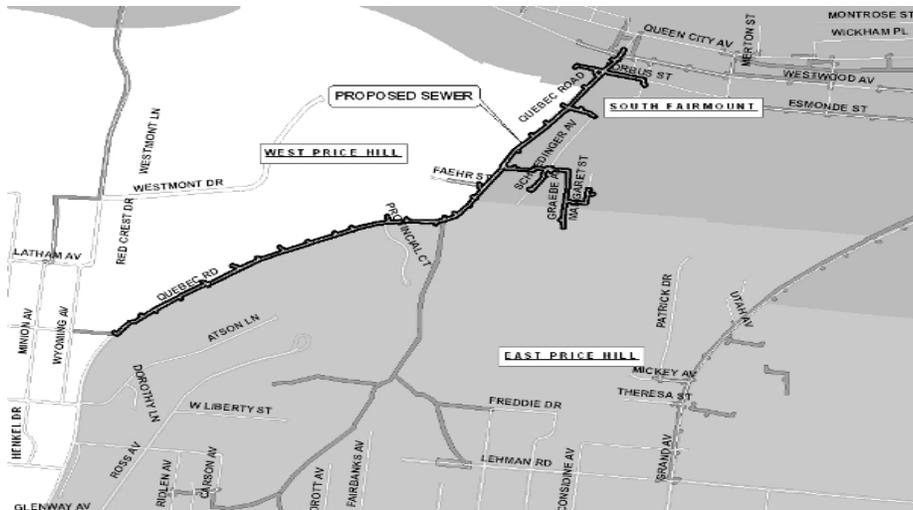
This project consists of approximately 8,600 feet of storm sewer (12-inch to 60-inch) and water main relocation. The proposed improvements are located in the street right-of-way of Quebec Road, Thinner Street, Forbus Street, Lierman Street, Jonte Avenue, Graebe Street, Lorna Lane, Margaret Street, and Schoedinger Avenue, as well as private properties that will need utility easements, in the South Fairmount neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$145,843	\$0	\$0	\$145,843
Design	\$0	\$493,517	\$0	\$0	\$493,517
Pre-Construction Services	\$106,700	\$210,971	\$0	\$0	\$210,971
Miscellaneous Expense	\$74,100	\$137,857	\$0	\$0	\$137,857
Right-of-Way	\$1,318,800	\$1,288,100	\$0	\$0	\$1,288,100
Construction	\$5,576,100	\$0	\$6,074,500	\$0	\$6,074,500
Program Management	\$0	\$68,147	\$0	\$0	\$68,147
Construction Services	\$147,400	\$0	\$546,000	\$0	\$546,000
Interest / Financing	\$96,200	\$0	\$106,400	\$0	\$106,400
<b>Total</b>	<b>\$7,319,300</b>	<b>\$2,344,435</b>	<b>\$6,726,900</b>	<b>\$0</b>	<b>\$9,071,335</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$2,344,435	\$6,726,900	\$0	\$0	\$0	\$9,071,335

## Prior Legislation Action

Jan 2013, Jan 2014, May 2014, Mar 2015, Apr 2015, Jan 2016, Apr 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Queen City Ave Sewer Separation Phase 2		
Project ID	11240130	CIP Number	11240130
Project Type	Sewer Separation	Sewer Number	6126

## Purpose and Justification

This project is part of the Lower Mill Creek Partial Remedy (LMCPR Bundle) Lick Run Source Control. The Queen City Avenue Sewer Separation Phase 2 consists of separation of approximately 228 acres of the 463 acre sewershed. The current project estimate is higher than the original 2012 estimate due to the addition of a water quality unit and design refinement. The overall LMCPR Bundle estimate is currently under the original \$244M 2006 budget.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

## Description and Location

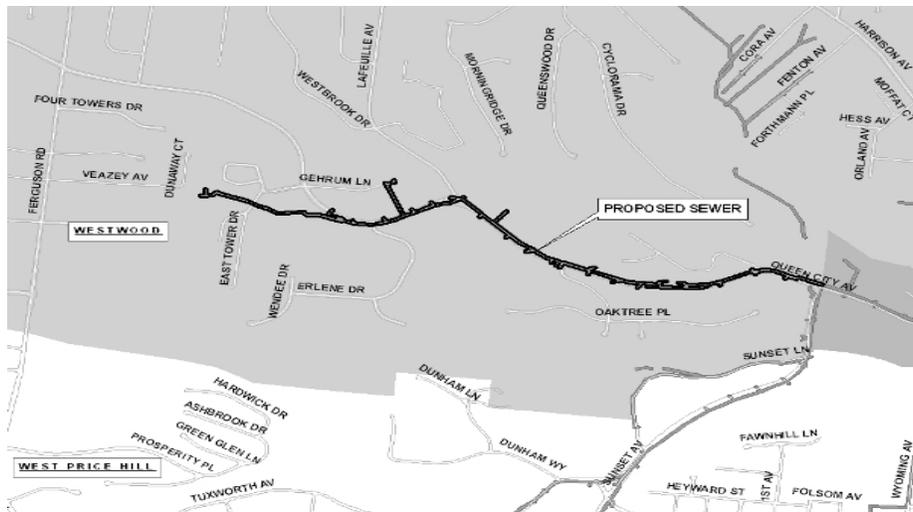
This project consists of approximately 6,200 l.f. of storm and sanitary sewer (8-in to 60-in), 2,140 l.f. water relocation, 904 l.f. of 30-in sanitary, a water quality unit and detention pond improvements. The proposed improvements are located in the street right-of-way of Queen City Avenue and East Tower, as well as private properties that will need utility easements, in the Lick Run basin of the Mill Creek sewershed. This project is located in the Westwood neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$152,376	\$0	\$0	\$152,376
Design	\$0	\$594,623	\$0	\$0	\$594,623
Pre-Construction Services	\$150,700	\$299,418	\$0	\$0	\$299,418
Miscellaneous Expense	\$75,400	\$840,653	\$0	\$0	\$840,653
Right-of-Way	\$714,300	\$714,300	\$0	\$0	\$714,300
Construction	\$7,836,900	\$1,164,000	\$8,261,800	\$0	\$9,425,800
Program Management	\$0	\$97,424	\$0	\$0	\$97,424
Construction Services	\$209,900	\$106,000	\$463,100	\$0	\$569,100
Interest / Financing	\$200,400	\$0	\$334,600	\$0	\$334,600
<b>Total</b>	<b>\$9,187,600</b>	<b>\$3,968,794</b>	<b>\$9,059,500</b>	<b>\$0</b>	<b>\$13,028,294</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$3,968,794	\$9,059,500	\$0	\$0	\$0	\$13,028,294

## Prior Legislation Action

Jan 2013, Jan 2014, May 2014, Jan 2015, Nov 2015, Jan 2016, May 2016



# 2017 Capital Budget and Capital Improvement Program

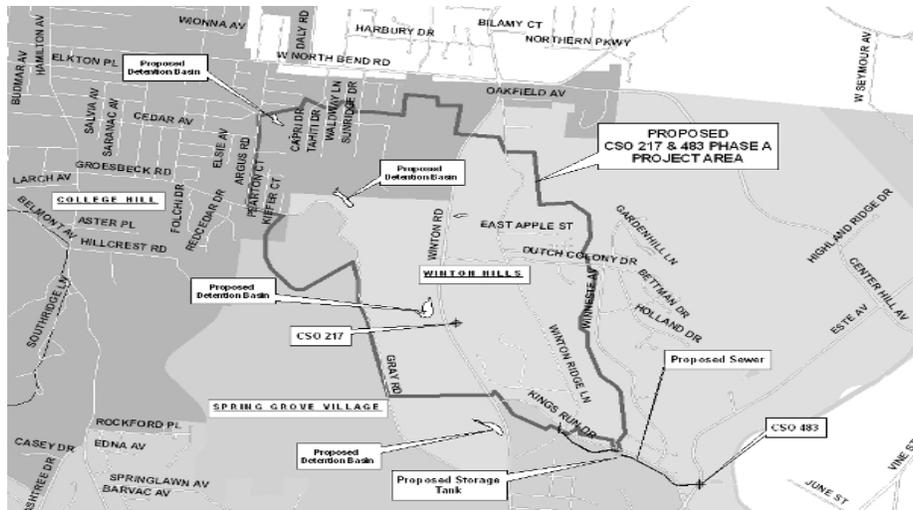
Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 217/483 Source Control Phase A		
Project ID	11243140	CIP Number	11243140
Project Type	Sewer Separation	Sewer Number	6393
<b>Purpose and Justification</b>	<b>Impact to Operating Budget</b>		
<p>The CSO 217 483 projects will eliminate approx. 113 MG of CSOs, and includes four detention basins (Phase A); sewer separation via installation of 2,700 lf combined, 1,150 lf sanitary and 1,050 lf storm sewers (Phase A2); a storage facility (Phase B); and sewer separation along Winton Rd via installation of 4,850 lf storm sewer, and 2,700 lf sanitary sewer (Phase C). Phase A2 (Project ID 11243142) had its scope and \$7.23M budget subdivided from Phase A due to design schedule, ROW acquisition and specialized construction of the basins of Phase A. The overall LMCPB Bundle estimate is currently under the original \$244M 2006 budget.</p>	None		
	<b>Description and Location</b>		
<p>This project consist of construction of two new storm water detention basins, enlargement of an existing basin, and modification of an existing basin to direct its flows to Kings Run stream, new storm sewers, and relocated combined sewers. This project is located in the Winton Hills neighborhood of the City of Cincinnati, in the Kings Run Basin of the Mill Creek sewer shed. This project also affects portions of the College Hill and Winton Place neighborhoods of the City of Cincinnati.</p>			

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$142,270	\$0	\$0	\$142,270
Design	\$855,300	\$1,513,329	\$0	\$0	\$1,513,329
Pre-Construction Services	\$263,700	\$437,412	\$0	\$0	\$437,412
Miscellaneous Expense	\$143,900	\$330,032	\$0	\$0	\$330,032
Right-of-Way	\$2,284,000	\$2,284,000	\$0	\$0	\$2,284,000
Construction	\$13,883,400	\$0	\$3,392,700	\$0	\$3,392,700
Program Management	\$0	\$83,232	\$0	\$0	\$83,232
Construction Services	\$313,500	\$0	\$385,633	\$0	\$385,633
Interest / Financing	\$239,000	\$0	\$95,000	\$0	\$95,000
<b>Total</b>	<b>\$17,982,800</b>	<b>\$4,790,275</b>	<b>\$3,873,333</b>	<b>\$0</b>	<b>\$8,663,608</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$4,790,275	\$3,873,333	\$0	\$0	\$0	\$8,663,608

**Prior Legislation Action**  
 Jan 2013, May 2014, Jan 2015, Jan 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 217/483 Source Control Phase B		
Project ID	11243141	CIP Number	11243141
Project Type	Source Control	Sewer Number	6450

## Purpose and Justification

The CSO 217 483 projects will eliminate approx. 113 MG of CSOs, and includes four detention basins (Phase A); sewer separation via installation of 2,700 lf combined, 1,150 lf sanitary and 1,050 lf storm sewers (Phase A2); a storage facility (Phase B); and sewer separation along Winton Rd via installation of 4,850 lf storm sewer, and 2,700 lf sanitary sewer (Phase C). Phase A2 (Project ID 11243142) had its scope and \$7.23M budget subdivided from Phase A due to design schedule, ROW acquisition and specialized construction of the basins of Phase A. The overall LMCPB Bundle estimate is currently under the original \$244M 2006 budget.

## Impact to Operating Budget

None

## Description and Location

This project consists of construction of a CSO storage facility at CSO 217. This project is located in the Winton Hills neighborhood of the City of Cincinnati but affects portions of the College Hill and Winton Place neighborhoods as well.

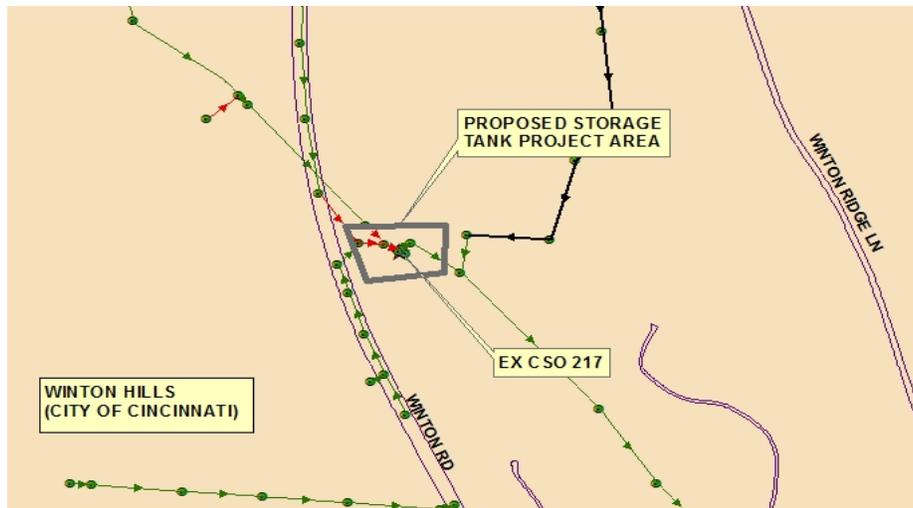
Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$313,400	\$392,900	\$0	\$0	\$392,900
Design	\$684,000	\$1,020,000	\$0	\$0	\$1,020,000
Pre-Construction Services	\$189,800	\$258,422	\$0	\$0	\$258,422
Miscellaneous Expense	\$129,900	\$135,600	\$61,100	\$0	\$196,700
Right-of-Way	\$384,700	\$1,042,900	\$0	\$0	\$1,042,900
Construction	\$10,546,600	\$0	\$11,134,300	\$0	\$11,134,300
Program Management	\$0	\$19,901	\$0	\$0	\$19,901
Construction Services	\$282,800	\$0	\$1,116,000	\$0	\$1,116,000
Interest / Financing	\$364,600	\$0	\$328,000	\$0	\$328,000
<b>Total</b>	<b>\$12,895,800</b>	<b>\$2,869,723</b>	<b>\$12,639,400</b>	<b>\$0</b>	<b>\$15,509,123</b>

## Projected Legislation Dates

Prior Legislation	2017	2018	2019	2020	2021	Project Total
\$2,869,723	\$12,639,400	\$0	\$0	\$0	\$0	\$15,509,123

## Prior Legislation Action

Jan 2013, May 2014, Jan 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 217/483 Source Control Phase A2		
Project ID	11243142	CIP Number	11243142
Project Type	Source Control	Sewer Number	6582

## Purpose and Justification

The CSO 217 483 projects will eliminate approx. 113 MG of CSOs, and includes four detention basins (Phase A); sewer separation via installation of 2,700 lf combined, 1,150 lf sanitary and 1,050 lf storm sewers (Phase A2); a storage facility (Phase B); and sewer separation along Winton Rd via installation of 4,850 lf storm sewer, and 2,700 lf sanitary sewer (Phase C). Phase A2 (Project ID 11243142) had its scope and \$7.23M budget subdivided from Phase A due to design schedule, ROW acquisition and specialized construction of the basins of Phase A. The overall LMCPB Bundle estimate is currently under the original \$244M 2006 budget.

## Impact to Operating Budget

None

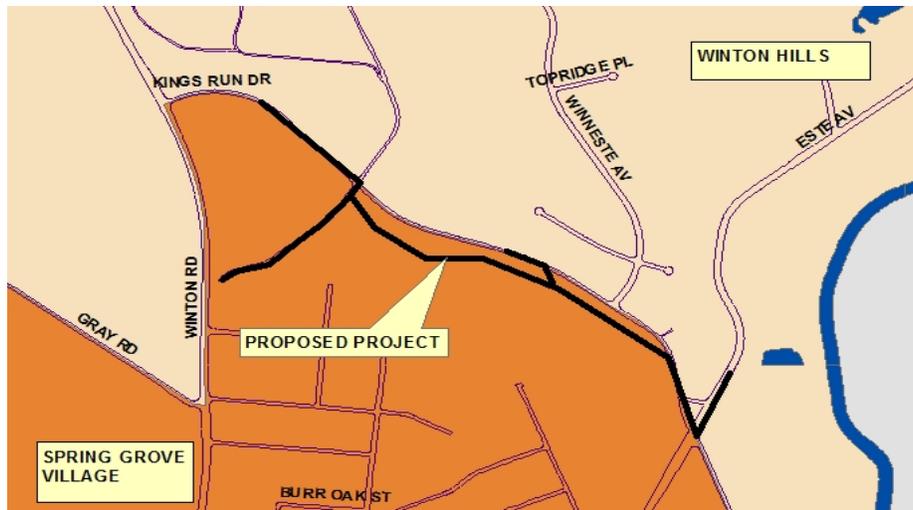
## Description and Location

This project consists of construction of new storm sewers, new combined sewers, and redirection of sanitary laterals. This project is located in the Winton Hills neighborhood of the City of Cincinnati, in the Kings Run Basin of the Mill Creek sewershed. This project also affects portions of the College Hill and Winton Place neighborhoods 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	\$0	\$0	\$0	\$0	\$0
Pre-Construction Services	\$0	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$19,000	\$0	\$0	\$19,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$5,209,000	\$0	\$6,662,100	\$0	\$6,662,100
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$250,700	\$0	\$487,700	\$0	\$487,700
Interest / Financing	\$98,000	\$0	\$133,200	\$0	\$133,200
<b>Total</b>	<b>\$5,557,700</b>	<b>\$19,000</b>	<b>\$7,283,000</b>	<b>\$0</b>	<b>\$7,302,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$19,000	\$7,283,000	\$0	\$0	\$0	\$7,302,000

**Prior Legislation Action**  
Jan 2016



# 2017 ASSET Projects

DRAFT



## 2017 Projects

### Metropolitan Sewer District of Greater Cincinnati

### ASSET Projects

Project ID	CIP Type	Project Type	Project Name	MSD	Other	Total	Page
10220054	ASSET	PSE	Bruestle Avenue Pump Station Elimination (Construction)	\$702,200	\$0	\$702,200	76
10220061	ASSET	SEW	Whitewater Township Regional Sewer District Phase III SR 128 Sewer Extension (Construction)	\$6,458,400	\$0	\$6,458,400	77
10230125	ASSET	PSE	East Branch Muddy Creek Pump Station Upgrades (Design,Easement)	\$411,300	\$0	\$411,300	78
10230155	ASSET	SEP	Darwin Avenue Sewer Backup Remediation (HN 3520) (Construction)	\$76,300	\$0	\$76,300	79
10240029	ASSET	REP	German Cemetery Sewer Replacement (Construction)	\$735,000	\$0	\$735,000	80
10240151	ASSET	FAC	Document Control Storage Enhancements (Design,Construction)	\$5,308,000	\$0	\$5,308,000	81
10240245	ASSET	FAC	Mill Creek WWTP Service Water (NPW) Reliability and Service Upgrade (Design,Construction)	\$3,143,300	\$0	\$3,143,300	82
10240291	ASSET	FAC	Mill Creek WWTP Solids Handling Improvements Phase 1 (Design,Construction)	\$19,468,300	\$0	\$19,468,300	83
10240320	ASSET	REP	Wilder Avenue Sewer Replacement (Design)	\$210,000	\$0	\$210,000	84
10240350	ASSET	REP	McKeone Avenue Sewer Replacement (Construction)	\$96,700	\$0	\$96,700	85
10240360	ASSET	PSE	Timbers Pump Station Elimination (Construction)	\$606,500	\$0	\$606,500	86
10240365	ASSET	REP	Quebec Road Sewer Replacement (Construction)	\$427,400	\$0	\$427,400	87
10240375	ASSET	PSE	Carpenters Run Pump Station Upgrade (Construction)	\$513,100	\$0	\$513,100	88
10240380	ASSET	CSO	CSO 005 Water Connection (Construction)	\$71,000	\$0	\$71,000	89
10240405	ASSET	PSE	Ponderosa Woods Pump Station Elimination (Construction)	\$299,900	\$0	\$299,900	90
10240420	ASSET	REP	Freeland Avenue Area Sewer Replacement (Design,Easement)	\$128,100	\$0	\$128,100	91
10240430	ASSET	REP	Berkley Avenue Sewer Replacement (Construction)	\$728,860	\$0	\$728,860	92
10240455	ASSET	REP	Spring Grove Avenue Sewer Replacement and Rehabilitation (Construction)	\$550,917	\$0	\$550,917	93
10240465	ASSET	REP	Hosea Street Sewer Replacement (Design,Easement)	\$429,900	\$0	\$429,900	94
10240475	ASSET	REP	Foraker Ave Sewer Replacement - Alms Pl to E. Terminus (Construction)	\$124,368	\$0	\$124,368	95
10240480	ASSET	FAC	MCWWTP Dewatering Polymer System Replacement (Design,Construction)	\$6,641,900	\$0	\$6,641,900	96
10240515	ASSET	REP	Mayhew and Leath Avenues Sewer Replacement (Construction)	\$533,700	\$0	\$533,700	97



## 2017 Projects

### Metropolitan Sewer District of Greater Cincinnati

### ASSET Projects

Project ID	CIP Type	Project Type	Project Name	MSD	Other	Total	Page
10240525	ASSET	REP	Victory Parkway Sewer Rehabilitation (Design)	\$106,400	\$0	\$106,400	98
10240526	ASSET	REP	Cypress St - Ashland Av to 250 feet east Sewer Replacement (Construction)	\$147,300	\$0	\$147,300	99
10240550	ASSET	REP	Pardee Alley Sewer Replacement-Oswald Al to 200' north (Construction)	\$209,900	\$0	\$209,900	100
10240555	ASSET	PSE	Kemper Mill Village Pump Station Upgrade (Construction)	\$687,323	\$0	\$687,323	101
10240590	ASSET	FAC	Mill Creek WWTP Main Substation Improvements (Design,Construction)	\$6,246,300	\$0	\$6,246,300	102
10240635	ASSET	FAC	Mill Creek WWTP Plant Influent and Headworks Odor Control (Construction)	\$1,259,000	\$0	\$1,259,000	103
10240655	ASSET	SEP	CSO 449 Sewer Separation (Design,Easement)	\$143,600	\$0	\$143,600	104
10240665	ASSET	FAC	Mill Creek WWTP Septage Receiving Station Odor Control Improvements (Construction)	\$1,014,600	\$0	\$1,014,600	105
10240705	ASSET	REP	Spring Grove at Clifton Sewer Abandonment (Design,Easement)	\$40,500	\$0	\$40,500	106
10250030	ASSET	FAC	Polk Run UV System Post Aeration Improvements (Construction)	\$1,669,000	\$0	\$1,669,000	107
10250035	ASSET	FAC	Polk Run Non-Potable Water Upgrades (Construction)	\$278,000	\$0	\$278,000	108
10260025	ASSET	PSE	South Clippinger Force Main Replacement and Pump Station Upgrade (Design,Easement)	\$444,000	\$0	\$444,000	109
10270008	ASSET	SEW	Dry Run Sewers - Contract 8M (Construction)	\$5,331,500	\$0	\$5,331,500	110
10270150	ASSET	REP	3981 Watterson Rd Sewer Replacement (Construction)	\$184,400	\$0	\$184,400	111
10270160	ASSET	PSE	Prospect Woods Pump Station Upgrade (Construction)	\$854,537	\$0	\$854,537	112
10270165	ASSET	REP	Delta and Greist Sewer Replacement (Design,Easement)	\$297,700	\$0	\$297,700	113
10270170	ASSET	CSO	CSO 83 and 472 Dynamic Underflow Control (Design,Easement)	\$379,000	\$0	\$379,000	114
10270205	ASSET	SRC	Mt Washington Source Control Pilot (Planning)	\$300,000	\$0	\$300,000	115
10280187	ASSET	ALW	WWT System Asset Renewal 2017 (Construction)	\$2,000,000	\$0	\$2,000,000	116
10280237	ASSET	ALW	Hydraulic Modeling 2017 (Planning)	\$715,000	\$0	\$715,000	117
10280510	ASSET	FAC	Centralized Grit Handling & Processing Facility (Planning)	\$200,000	\$0	\$200,000	118
10280607	ASSET	ALW	Building Sewer Renewal Program 2017 (Construction)	\$5,000,000	\$0	\$5,000,000	119



**2017 Projects**  
**Metropolitan Sewer District of Greater Cincinnati**  
**ASSET Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>	<b>Page</b>
10280617	ASSET	ALW	Water Quality Program 2017 (Planning)	\$485,000	\$0	\$485,000	120
10280717	ASSET	ALW	Facilities Asset Management Projects 2017 (Construction)	\$2,500,000	\$0	\$2,500,000	121
10280917	ASSET	ALW	Wet Weather Facilities Asset Renewal 2017 (Construction)	\$750,000	\$0	\$750,000	122
10281317	ASSET	ALW	Prioritized Wastewater Collection System Improvements 2017 (Construction)	\$12,000,000	\$0	\$12,000,000	123
10282017	ASSET	ALW	CIP Project Planning 2017 (Planning)	\$3,300,000	\$0	\$3,300,000	124
<b>Total Cost for 49 ASSET Projects</b>				<b>\$94,208,205</b>	<b>\$0</b>	<b>\$94,208,205</b>	

DRAFT

# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Bruestle Avenue Pump Station Elimination		
Project ID	10220054	CIP Number	10220054
Project Type	Pump Station Improvement/Elim	Sewer Number	6137

## Purpose and Justification

The Bruestle Ave. pump station was built in 1968, is near the end of its useful life and does not meet current pump station standards. Completion of this project will result in an annual O&M savings of over \$21K as compared to maintaining the existing pump station. The 100-year NPV for eliminating the pump station is \$2.82 M lower than the NPV for maintaining the current pump station. In addition to the savings, the gravity sewer will bring sewer service to existing homes on Robinhill Dr. and Harvest Ridge Dr.

## Impact to Operating Budget

None

## Description and Location

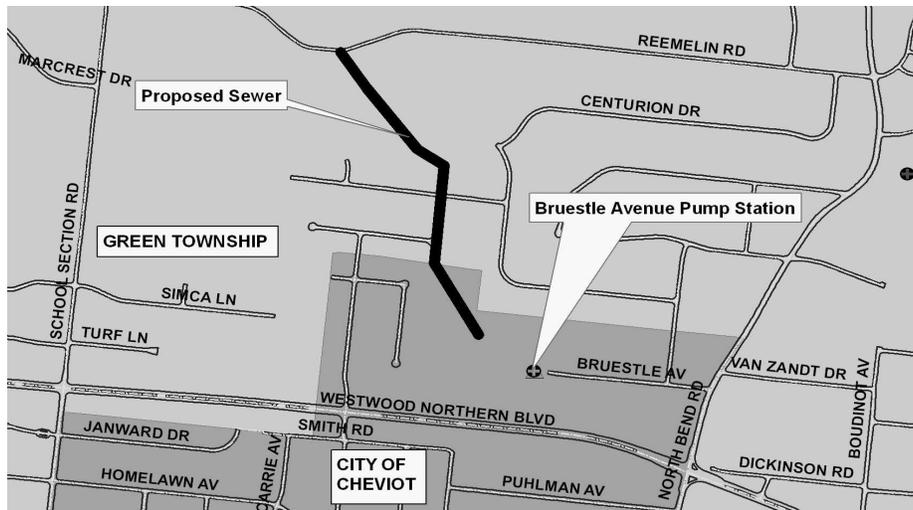
The project starts near 3957 Reemelin Road and extends SE to the existing Bruestle Subdivision. This approximately 2,955 foot gravity sewer will allow for the elimination of the existing Bruestle Ave. pump station. The project is located in the City of Cheviot and Green Township.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$111	\$0	\$0	\$111
Design	\$78,300	\$0	\$0	\$0	\$0
Pre-Construction Services	\$27,600	\$105,900	\$0	\$0	\$105,900
Miscellaneous Expense	\$19,100	\$19,100	\$0	\$0	\$19,100
Right-of-Way	\$155,300	\$155,300	\$0	\$0	\$155,300
Construction	\$460,200	\$0	\$621,600	\$0	\$621,600
Program Management	\$0	\$5,473	\$0	\$0	\$5,473
Construction Services	\$83,600	\$0	\$80,600	\$0	\$80,600
Interest / Financing	\$11,500	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$835,600</b>	<b>\$285,884</b>	<b>\$702,200</b>	<b>\$0</b>	<b>\$988,084</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$285,884	\$702,200	\$0	\$0	\$0	\$988,084

## Prior Legislation Action

Feb 2011, Dec 2011, Jan 2014, May 2014, Nov 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Whitewater Township Regional Sewer District Phase III SR 128 Sewer Extension		
Project ID	10220061	CIP Number	10220061
Project Type	New Sewer	Sewer Number	6583

## Purpose and Justification

This project is a trunk sewer and will provide service to the residents along SR 128 and the adjoining area. It will eliminate two small package plants. This project was proposed by the Whitewater Township Regional Sewer District (WTRSD). According to Section IV of the Interdistrict agreement, WTRSD can propose projects to be funded by MSD.

## Impact to Operating Budget

None

## Description and Location

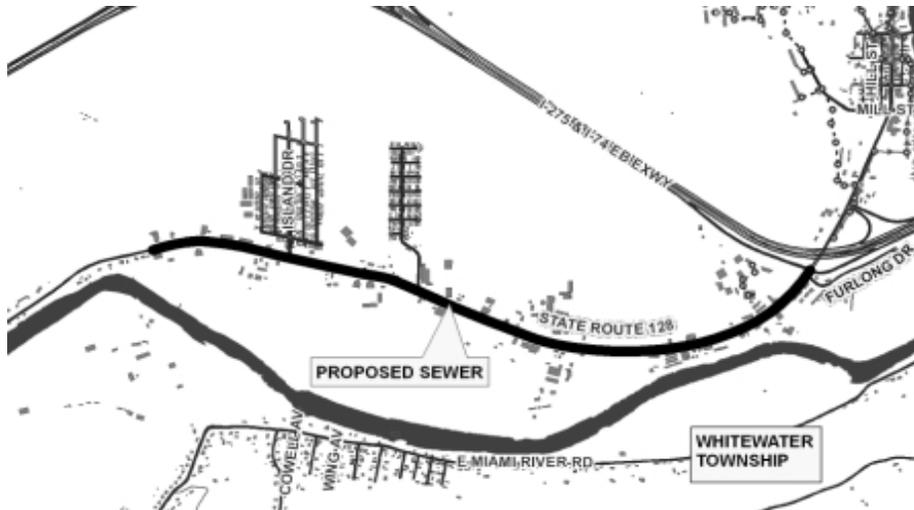
This project will install force main and gravity sewer along State Route 128 from the intersection of State Route 128 and Furlong Dr. to a point 3400 feet east of the intersection of Morgan Rd and State Route 128. This project is in Whitewater Township.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$877,500	\$877,500	\$0	\$0	\$877,500
Pre-Construction Services	\$234,000	\$234,000	\$0	\$0	\$234,000
Miscellaneous Expense	\$46,000	\$46,000	\$0	\$0	\$46,000
Right-of-Way	\$280,000	\$280,000	\$0	\$0	\$280,000
Construction	\$5,850,000	\$0	\$5,850,000	\$0	\$5,850,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$214,500	\$0	\$608,400	\$0	\$608,400
Interest / Financing	\$292,500	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$7,794,500</b>	<b>\$1,437,500</b>	<b>\$6,458,400</b>	<b>\$0</b>	<b>\$7,895,900</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$1,437,500	\$6,458,400	\$0	\$0	\$0	\$7,895,900

## Prior Legislation Action

Mar 2011



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	East Branch Muddy Creek Pump Station Upgrades		
Project ID	10230125	CIP Number	10230125
Project Type	Pump Station Improvement/Elim	Sewer Number	6584

## Purpose and Justification

The purpose of this project is the replacement of four can style pump stations with submersible style pump stations. The existing pump stations are in poor condition and require frequent maintenance. The project will eliminate the danger of workers needing to enter deteriorated can pump stations and elevate critical equipment such as generators and control panels above the 100-year flood elevation.

## Impact to Operating Budget

None

## Description and Location

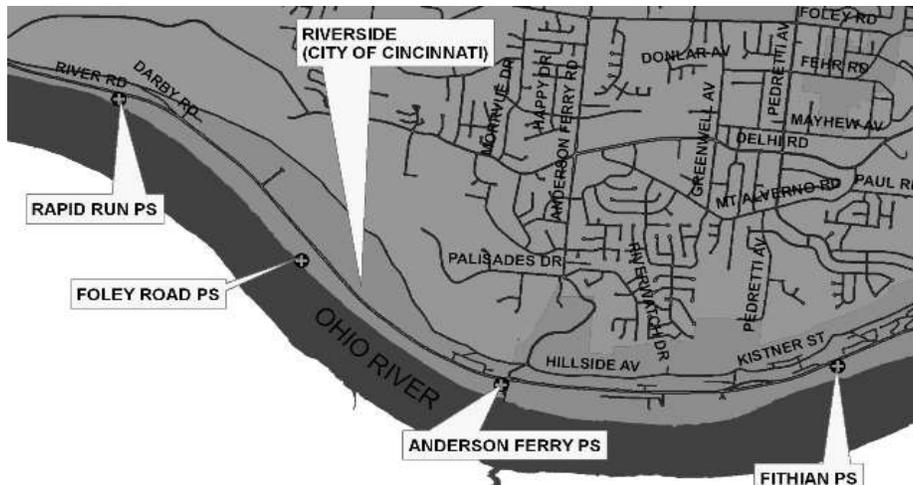
The project will replace four existing pump stations (Fithian PS, Anderson Ferry PS, Foley Road PS, and Rapid Run PS) with new submersible style pump stations. The project will include new control panels and diesel powered generators elevated above the 100-year flood elevation, and necessary additions for connecting the new pump stations to the existing force mains. The project is located in the Riverside neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$6,603	\$0	\$0	\$6,603
Design	\$197,200	\$0	\$230,700	\$0	\$230,700
Pre-Construction Services	\$48,800	\$48,800	\$68,900	\$0	\$117,700
Miscellaneous Expense	\$41,800	\$41,800	\$51,700	\$0	\$93,500
Right-of-Way	\$50,500	\$50,500	\$60,000	\$0	\$110,500
Construction	\$1,626,000	\$0	\$0	\$2,000,100	\$2,000,100
Program Management	\$0	\$738	\$0	\$0	\$738
Construction Services	\$69,500	\$0	\$0	\$308,000	\$308,000
Interest / Financing	\$40,600	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$2,074,400</b>	<b>\$148,441</b>	<b>\$411,300</b>	<b>\$2,308,100</b>	<b>\$2,867,841</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total	
Prior Legislation	\$148,441	\$411,300	\$0	\$0	\$2,308,100	\$0	\$2,867,841

## Prior Legislation Action

Jan 2013, Dec 2013, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Darwin Avenue Sewer Backup Remediation (HN 3520)		
Project ID	10230155	CIP Number	10230155
Project Type	Sewer Separation	Sewer Number	6490

## Purpose and Justification

This project will eliminate the risk of sewer backup (SBU) at the property located at 3520 Darwin Avenue by acquiring the property and razing the structures. The house is constructed over a 36" sewer that was installed in 1925. The property has experienced multiple capacity related SBUs. The proposed solution allows MSD to avoid liability related to the deteriorating structural condition of the house that may eventually be linked to the 36" sewer. Section IV.C within Exhibit 6 of the Global Consent Decree permits MSD to consider property purchase as a building backup prevention solution "where no feasible cost-effective alternative exists to a building backup situation".

## Impact to Operating Budget

None

## Description and Location

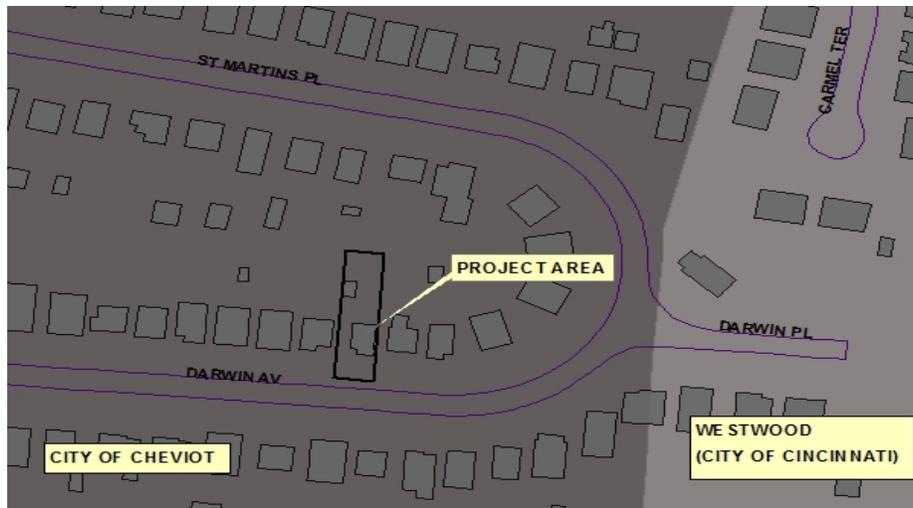
This project will acquire the property located at 3520 Darwin Avenue with the purpose of razing the house and detached garage. The driveway and foundation will be removed, as well as the sewer lateral that connects to the existing 36" combined sewer. Prior to demolition, an environmental assessment needs to be performed on the structures for asbestos, lead paint, and any other potential hazardous materials. This project is located in the City of Cheviot.

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	\$16,300	\$16,300	\$0	\$0	\$16,300
Miscellaneous Expense	\$6,800	\$6,800	\$0	\$0	\$6,800
Right-of-Way	\$121,900	\$121,900	\$0	\$0	\$121,900
Construction	\$50,600	\$0	\$54,300	\$0	\$54,300
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$22,000	\$0	\$22,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$195,600</b>	<b>\$145,000</b>	<b>\$76,300</b>	<b>\$0</b>	<b>\$221,300</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$145,000	\$76,300	\$0	\$0	\$0	\$221,300

## Prior Legislation Action

Nov 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	German Cemetery Sewer Replacement		
Project ID	10240029	CIP Number	10240029
Project Type	Sewer Replacement	Sewer Number	6106

## Purpose and Justification

This combined sewer was built in 1914 and it is failing. This project will rehabilitate the combined sewer needed to prevent total failure of the sewer which would result in sewage backups in homes, a cemetery, or the public right of way. Since the sewer is required to relocate from beneath the Duke Energy tower footprint, Construction costs have increased.

## Impact to Operating Budget

None

## Description and Location

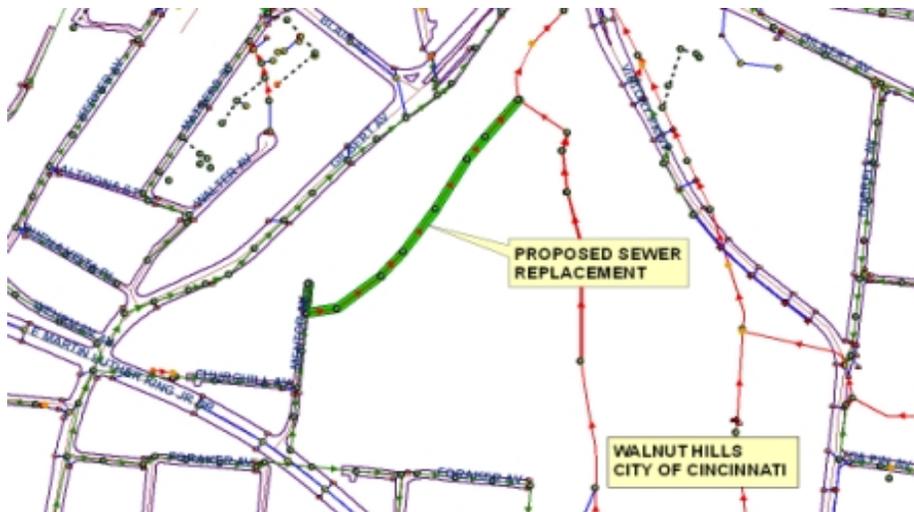
This project will rehabilitate 1,300 feet of failing 12, 18, and 24-inch combined sewer beginning at the North terminus of Mentor Street and continuing northeast towards Gilbert Avenue. This work will involve replacement sewer sections. This project is in the Walnut Hills neighborhood of the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$78,100	\$96,875	\$0	\$0	\$96,875
Pre-Construction Services	\$31,200	\$103,000	\$0	\$0	\$103,000
Miscellaneous Expense	\$17,200	\$15,646	\$0	\$0	\$15,646
Right-of-Way	\$187,600	\$132,128	\$0	\$0	\$132,128
Construction	\$520,700	\$0	\$643,800	\$0	\$643,800
Program Management	\$0	\$17,644	\$0	\$0	\$17,644
Construction Services	\$37,700	\$0	\$91,200	\$0	\$91,200
Interest / Financing	\$6,500	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$879,000</b>	<b>\$365,293</b>	<b>\$735,000</b>	<b>\$0</b>	<b>\$1,100,293</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$365,293	\$735,000	\$0	\$0	\$0	\$1,100,293

## Prior Legislation Action

Dec 2010, Jan 2014, May 2014, Jun 2014, Sep 2014, Dec 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Document Control Storage Enhancements		
Project ID	10240151	CIP Number	10240151
Project Type	Treatment Facility	Sewer Number	6153

## Purpose and Justification

The project will make necessary renovations to the Annex Building located on the Mill Creek WWTP Campus. The Annex Building was constructed in 1969. The Annex Building will receive renovations, including the installation of a fire sprinkler system, to allow for it to become a centralized document storage facility to meet the document storage and control requirements of the consent decree.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

## Description and Location

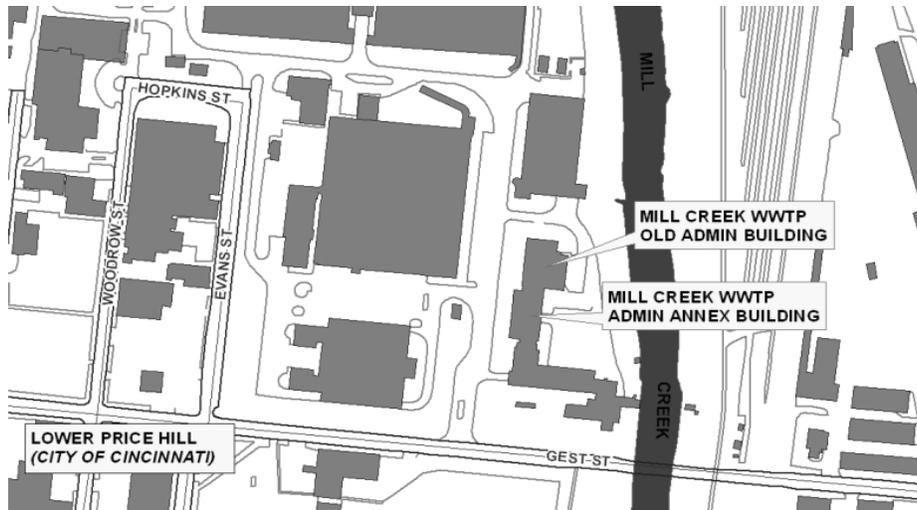
This project will renovate the Annex Building and allow for the Annex Building to become a centralized document storage facility for MSD. This building is located on the Mill Creek WWTP Campus in the Lower Price Hill neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$195,000	\$219,990	\$100,000	\$0	\$319,990
Pre-Construction Services	\$3,000	\$13,070	\$20,000	\$0	\$33,070
Miscellaneous Expense	\$30,000	\$5,010	\$10,000	\$0	\$15,010
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$3,267,800	\$0	\$4,627,000	\$0	\$4,627,000
Program Management	\$0	\$19,341	\$0	\$0	\$19,341
Construction Services	\$213,100	\$0	\$416,400	\$0	\$416,400
Interest / Financing	\$122,500	\$0	\$134,600	\$0	\$134,600
<b>Total</b>	<b>\$3,831,400</b>	<b>\$257,411</b>	<b>\$5,308,000</b>	<b>\$0</b>	<b>\$5,565,411</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$257,411	\$5,308,000	\$0	\$0	\$0	\$5,565,411

## Prior Legislation Action

Aug 2010, Jan 2014, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Mill Creek WWTP Service Water (NPW) Reliability and Service Upgrade		
Project ID	10240245	CIP Number	10240245
Project Type	Treatment Facility	Sewer Number	6214

## Purpose and Justification

The purpose of the project is to provide upgrades to the non-potable water (NPW) system in use at the Mill Creek Wastewater Treatment Plant to meet projected flow and pressure demands. It is critical that the NPW system provide satisfactory and reliable performance in order to ensure the optimum operation of treatment process equipment. In February 2011, MSD committed to evaluating the water feed system and to make adjustments as necessary to provide adequate NPW flow, as part of an agreement with the Hamilton County Department of Environmental Services.

## Impact to Operating Budget

None

## Description and Location

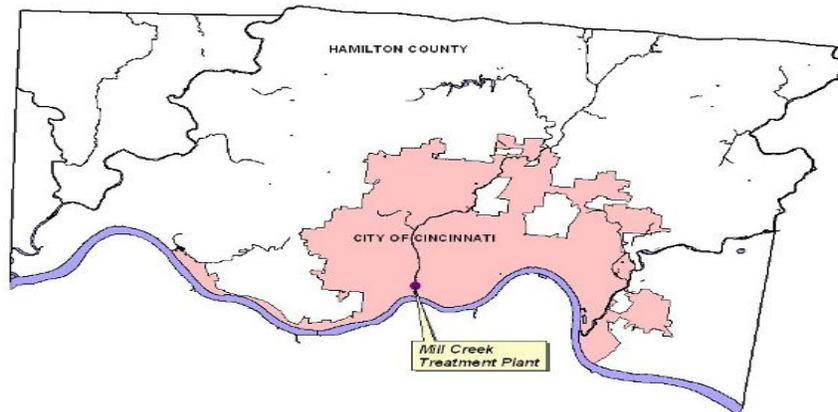
The project will provide upgrades to the Mill Creek WWTP NPW system to meet projected flow and pressure demands and to ensure an adequate level of service and reliability for treatment processes at the plant to ensure their optimum operation. The project is located at the Mill Creek WWTP in the Lower Price 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	\$5,125	\$0	\$0	\$5,125
Design	\$457,000	\$481,954	\$0	\$0	\$481,954
Pre-Construction Services	\$125,000	\$125,000	\$0	\$0	\$125,000
Miscellaneous Expense	\$16,000	\$16,000	\$19,300	\$0	\$35,300
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$4,159,000	\$0	\$2,442,000	\$0	\$2,442,000
Program Management	\$0	\$45,664	\$0	\$0	\$45,664
Construction Services	\$175,000	\$0	\$464,000	\$0	\$464,000
Interest / Financing	\$218,000	\$0	\$218,000	\$0	\$218,000
<b>Total</b>	<b>\$5,150,000</b>	<b>\$673,743</b>	<b>\$3,143,300</b>	<b>\$0</b>	<b>\$3,817,043</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$673,743	\$3,143,300	\$0	\$0	\$0	\$3,817,043

## Prior Legislation Action

Dec 2011, May 2014, May 2016, Jun 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Mill Creek WWTP Solids Handling Improvements Phase 1		
Project ID	10240291	CIP Number	10240291
Project Type	Treatment Facility	Sewer Number	6146

## Purpose and Justification

The purpose of this project is to improve solids handling facilities at the Mill Creek WWTP. In particular it is important to ensure solids processing capacity over the useful life of the incinerators is maintained. MSDGC proposes a phased approach for the improvements so the most immediate upstream solids handling needs can be addressed first. The first phase of this project will include the following improvements: construction of larger sludge feed wells, upgrade of sludge feed piping and pumps, and upgrade of support structures and equipment.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

## Description and Location

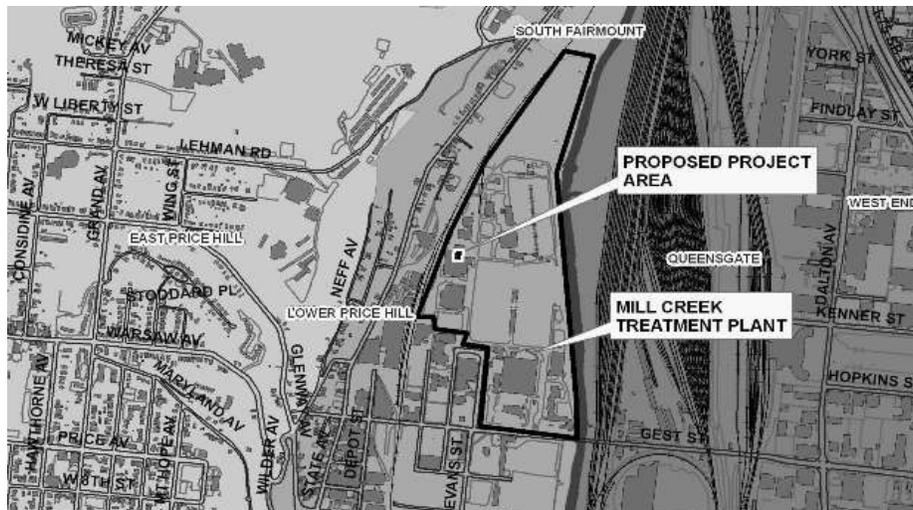
The scope of the project is to convert the basement area formerly occupied by multiple hearth incinerators 5 and 6 into new dewatering sludge feed well. The project will replace the dewatering centrifugal feed pumps, grinders, associated piping and valves, and construct a dewatering feed well odor control system. The scope also includes upgrades of sludge feed pipes and pumps at the two southern most digesters (A1 and A2). This project is located in the Lower Price 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	\$250,000	\$212,804	\$0	\$0	\$212,804
Design	\$1,340,000	\$1,550,651	\$0	\$0	\$1,550,651
Pre-Construction Services	\$245,000	\$245,000	\$0	\$0	\$245,000
Miscellaneous Expense	\$50,000	\$102,900	\$52,900	\$0	\$155,800
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$16,350,000	\$0	\$16,395,400	\$0	\$16,395,400
Program Management	\$0	\$163,503	\$0	\$0	\$163,503
Construction Services	\$1,840,000	\$0	\$2,440,000	\$0	\$2,440,000
Interest / Financing	\$580,000	\$0	\$580,000	\$0	\$580,000
<b>Total</b>	<b>\$20,655,000</b>	<b>\$2,274,858</b>	<b>\$19,468,300</b>	<b>\$0</b>	<b>\$21,743,158</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$2,274,858	\$19,468,300	\$0	\$0	\$0	\$21,743,158

## Prior Legislation Action

Mar 2011, Jan 2014, May 2014, May 2015, Jan 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	<b>Wilder Avenue Sewer Replacement</b>		
Project ID	<b>10240320</b>	CIP Number	<b>2008-44</b>
Project Type	<b>Sewer Replacement</b>	Sewer Number	<b>6041</b>

## Purpose and Justification

This project will replace and or rehabilitate the existing sewer. The existing sewer was installed around 1900 and several portions are cracked, deformed, or collapsed. It is currently located on a steep hillside with many retaining walls. The sewer was initially built to carry flow from a ravine that is no longer connected to the sewer.

## Impact to Operating Budget

None

## Description and Location

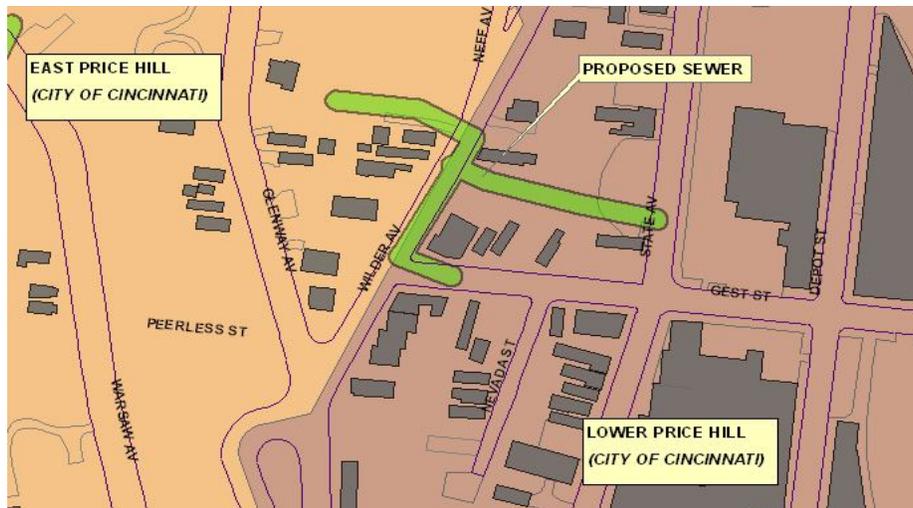
This project will replace and or rehabilitate 549 feet of existing stone combined sewer. A new sewer section may be built on a slope that is less steep and located off private property. This project is located in the Lower Price Hill neighborhood of the City of Cincinnati. The project crosses Wilder Avenue and ends in State Avenue.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$35,000	\$81,305	\$150,000	\$0	\$231,305
Pre-Construction Services	\$7,000	\$70,095	\$60,000	\$0	\$130,095
Miscellaneous Expense	\$5,000	\$29,000	\$0	\$0	\$29,000
Right-of-Way	\$47,000	\$47,000	\$0	\$0	\$47,000
Construction	\$171,000	\$0	\$0	\$314,500	\$314,500
Program Management	\$0	\$13,818	\$0	\$0	\$13,818
Construction Services	\$29,000	\$0	\$0	\$28,400	\$28,400
Interest / Financing	\$2,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$296,000</b>	<b>\$241,218</b>	<b>\$210,000</b>	<b>\$342,900</b>	<b>\$794,118</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$241,218	\$210,000	\$0	\$342,900	\$0	\$0
						\$794,118

## Prior Legislation Action

Dec 2008, May 2010, Dec 2011, Jan 2014, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	McKeone Avenue Sewer Replacement		
Project ID	10240350	CIP Number	10240350
Project Type	Sewer Replacement	Sewer Number	6207

## Purpose and Justification

The purpose of the project is to replace 122 linear feet of 15-inch existing sewer with 147 linear feet of 18-inch conduit in a new alignment. The existing 15-inch sewer, installed in 1929, has significant deformation and is not a candidate for pipe lining. The new alignment and larger size will eliminate both the water main interference which was constructed over top the sanitary sewer and upstream water-in-basement issues on McKeone Avenue.

## Impact to Operating Budget

None

## Description and Location

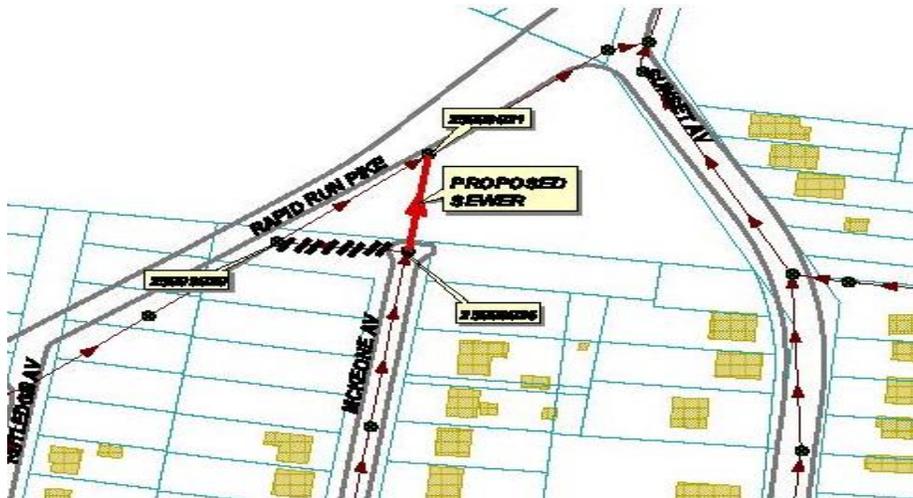
The project includes the construction of 125 linear feet of 18-inch diameter sanitary sewer and abandonment of 122 linear feet of 15-inch existing sanitary sewer. The project is located in the West Price Hill neighborhood of the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$361	\$0	\$0	\$361
Design	\$9,850	\$0	\$0	\$0	\$0
Pre-Construction Services	\$4,400	\$36,700	\$0	\$0	\$36,700
Miscellaneous Expense	\$32,700	\$32,700	\$0	\$0	\$32,700
Right-of-Way	\$6,000	\$6,000	\$0	\$0	\$6,000
Construction	\$73,000	\$0	\$85,000	\$0	\$85,000
Program Management	\$0	\$3,844	\$0	\$0	\$3,844
Construction Services	\$13,500	\$0	\$11,700	\$0	\$11,700
Interest / Financing	\$1,500	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$140,950</b>	<b>\$79,605</b>	<b>\$96,700</b>	<b>\$0</b>	<b>\$176,305</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$96,700	\$0	\$0	\$0	\$0	\$176,305
	\$79,605	\$0	\$0	\$0	\$0	\$176,305

## Prior Legislation Action

Oct 2012, May 2014, Jul 2014, Nov 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Timbers Pump Station Elimination		
Project ID	10240360	CIP Number	10240360
Project Type	Pump Station Improvement/Elim	Sewer Number	6313

## Purpose and Justification

The purpose of this project is to eliminate the Timbers Pump Station that was installed in 1980 to serve 37 homes. The functionality of the pump station is insufficient in terms of handling wet weather flow. Structurally, this station is not sound because of the metal wet well that has been in the ground for more than 30 years. The size of the well is small. This metal wet well has the risk of having continuous flow into it, which will cause continuous pumping, weakening the soil around it that will likely cause structural failure. After the gravity sewer is constructed, the pump station will be decommissioned and parts salvaged.

## Impact to Operating Budget

None

## Description and Location

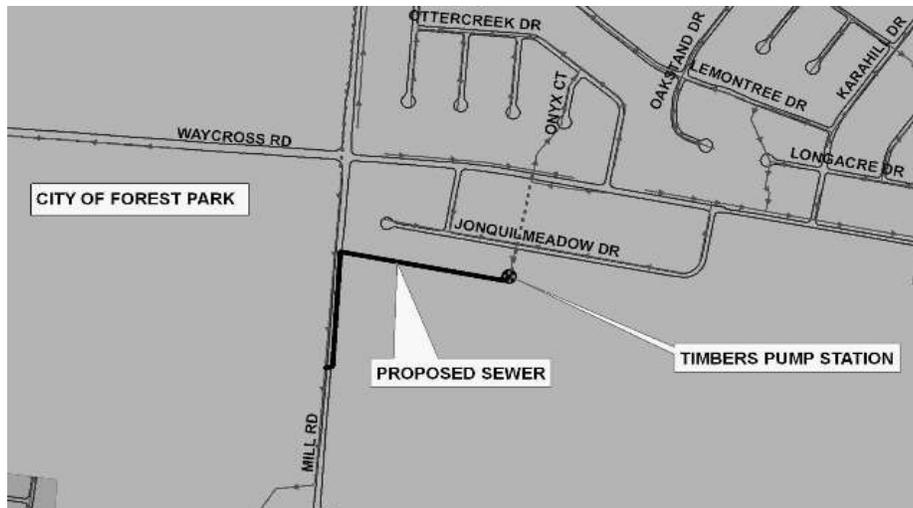
This project includes construction of approximately 1,600 feet of 8-inch diameter gravity sewer via a jack-and-bore alignment through the Winton Woods Park. The pump station is located in City of Forest Park, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$5,262	\$0	\$0	\$5,262
Design	\$166,500	\$0	\$0	\$0	\$0
Pre-Construction Services	\$41,200	\$207,700	\$0	\$0	\$207,700
Miscellaneous Expense	\$51,000	\$51,000	\$0	\$0	\$51,000
Right-of-Way	\$21,900	\$21,900	\$0	\$0	\$21,900
Construction	\$1,371,100	\$0	\$556,200	\$0	\$556,200
Program Management	\$0	\$6,718	\$0	\$0	\$6,718
Construction Services	\$64,500	\$0	\$50,300	\$0	\$50,300
Interest / Financing	\$22,400	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,738,600</b>	<b>\$292,580</b>	<b>\$606,500</b>	<b>\$0</b>	<b>\$899,080</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$292,580	\$606,500	\$0	\$0	\$0	\$899,080

## Prior Legislation Action

Jan 2013, May 2014, Oct 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Quebec Road Sewer Replacement		
Project ID	10240365	CIP Number	10240365
Project Type	Sewer Replacement	Sewer Number	6252

## Purpose and Justification

The purpose of this project is to replace failing segments of a sewer along Quebec Road. The segments in question are cracking, being pulled apart by root intrusion, and in generally poor shape. Replacement is required to reduce the likelihood of collapse and failure of the pipe and to reduce the frequency of sewage backups and emergency repairs. This project will be coordinated with the downstream Quebec Road Sewer Separation Project 11240110. This will ensure that phasing and construction coordination of the work minimizes construction congestion on Quebec Road and reduces the need to construct temporary structures.

## Impact to Operating Budget

None

## Description and Location

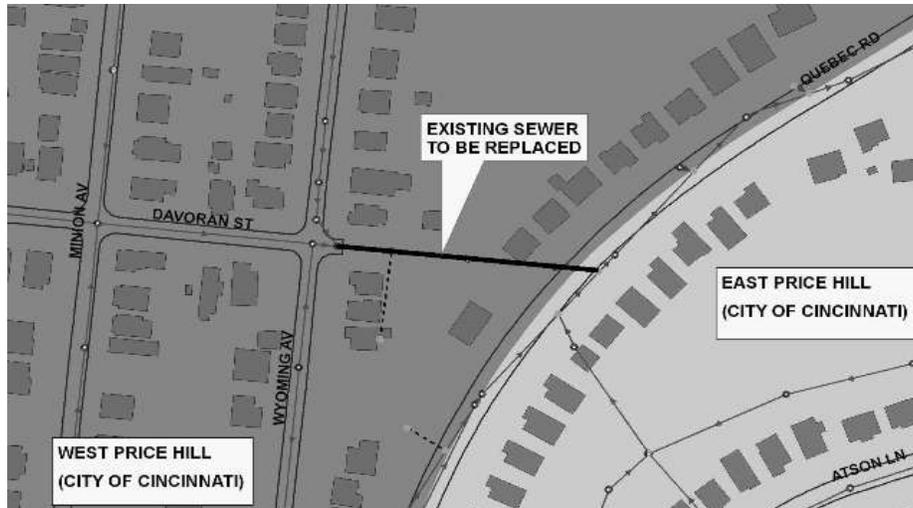
This project consists of approximately 300 feet of 12-inch diameter sanitary sewer and 500 feet of 15-inch storm sewer along Quebec Rd in the West Price Hill neighborhood of the City of Cincinnati.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$1,997	\$0	\$0	\$1,997
Design	\$61,700	\$0	\$0	\$0	\$0
Pre-Construction Services	\$11,500	\$73,200	\$0	\$0	\$73,200
Miscellaneous Expense	\$36,100	\$36,100	\$0	\$0	\$36,100
Right-of-Way	\$9,800	\$9,800	\$0	\$0	\$9,800
Construction	\$381,900	\$0	\$381,900	\$0	\$381,900
Program Management	\$0	\$5,959	\$0	\$0	\$5,959
Construction Services	\$45,500	\$0	\$45,500	\$0	\$45,500
Interest / Financing	\$4,800	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$551,300</b>	<b>\$127,056</b>	<b>\$427,400</b>	<b>\$0</b>	<b>\$554,456</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$427,400	\$0	\$0	\$0	\$0	\$554,456
	\$127,056					

## Prior Legislation Action

Jan 2013, May 2014, Nov 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Carpenters Run Pump Station Upgrade		
Project ID	10240375	CIP Number	10240375
Project Type	Pump Station Improvement/Elim	Sewer Number	6303

## Purpose and Justification

The purpose of this project is to upgrade the Carpenters Run Pump Station. The station was constructed in 1980 and has reached the end of its useful life. With the exception of minor maintenance issues, a condition assessment revealed the pump station functions as designed. The pump station will be upgraded to meet current standards. This project includes replacing the generator with an above ground generator, replacing the wet well, valve chamber and force main.

## Impact to Operating Budget

None

## Description and Location

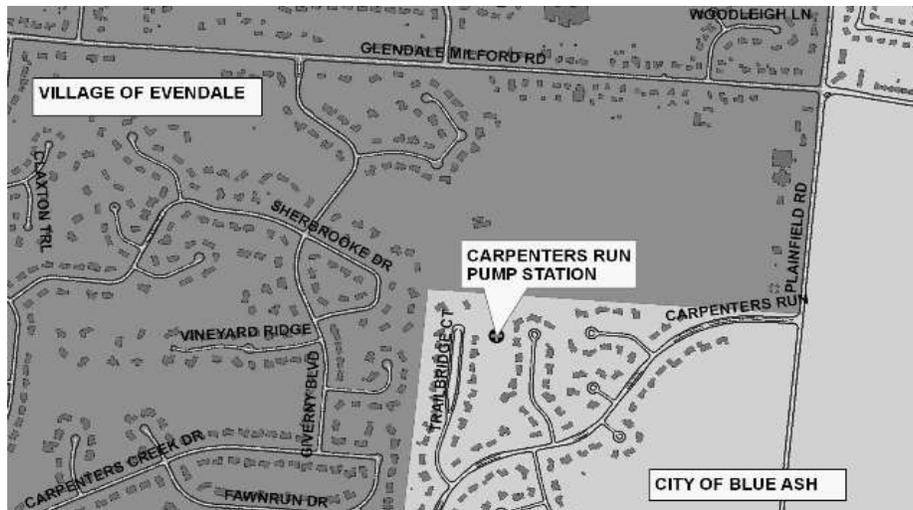
This project includes construction of upgrades to the existing Carpenters Run Pump Station to extend the facility's useful life. The pump station is located along Trailbridge Court in the City of Blue Ash in Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$3,516	\$0	\$0	\$3,516
Design	\$87,000	\$108,482	\$0	\$0	\$108,482
Pre-Construction Services	\$17,500	\$44,500	\$0	\$0	\$44,500
Miscellaneous Expense	\$30,900	\$22,471	\$0	\$0	\$22,471
Right-of-Way	\$78,400	\$78,400	\$0	\$0	\$78,400
Construction	\$582,700	\$0	\$454,800	\$0	\$454,800
Program Management	\$0	\$10,470	\$0	\$0	\$10,470
Construction Services	\$48,700	\$0	\$58,300	\$0	\$58,300
Interest / Financing	\$7,200	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$852,400</b>	<b>\$267,839</b>	<b>\$513,100</b>	<b>\$0</b>	<b>\$780,939</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$267,839	\$513,100	\$0	\$0	\$0	\$780,939

## Prior Legislation Action

Jan 2013, Jan 2014, May 2014, Sep 2014, Jul 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 005 Water Connection		
Project ID	10240380	CIP Number	10240380
Project Type	CSO Improvement/Elim	Sewer Number	6334

## Purpose and Justification

This CSO facility allows combined sewage to overflow into the Mill Creek at times when the capacity of the 24-inch underflow pipe has been exceeded. The facility was recently upgraded with Real Time Control in order to take advantage of storage capacity in the existing Lick Run Trunk Sewer. MSD has discovered that using the CSO chamber for storage results in a substantial buildup of sediment. This project will provide a safe and effective means for cleaning and removal of sediment at the CSO facility, which is necessary in order to stay in compliance with the CSO NPDES permit.

## Impact to Operating Budget

None

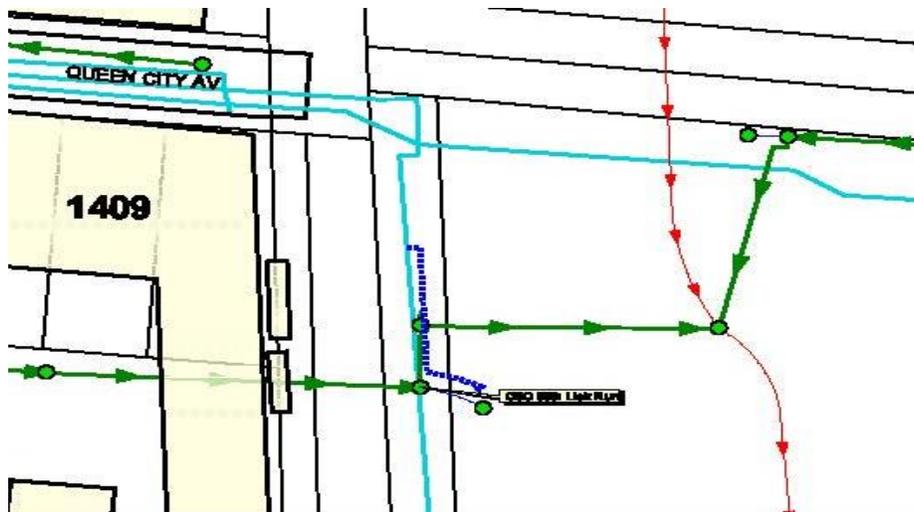
## Description and Location

MSD proposes to construct a permanent water service connection from the 8" water main on Queen City Ave. 270 linear feet of 6-inch ductile iron pipe water service, one Railroad crossing, a water cannon, a yard hydrant with 2.5-inch diameter house connection hose and other appurtenance. During design it was determined any connection to the 36" water main on site would be temporary because water main is to be relocated as part of the Lick Run Valley Conveyance System, therefore the service lateral was extended to the nearest active main. This project is located in the South Fairmount 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	\$17,261	\$0	\$0	\$17,261
Design	\$17,300	\$17,300	\$0	\$0	\$17,300
Pre-Construction Services	\$1,800	\$1,800	\$0	\$0	\$1,800
Miscellaneous Expense	\$7,300	\$7,300	\$0	\$0	\$7,300
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$60,400	\$0	\$60,400	\$0	\$60,400
Program Management	\$0	\$1,928	\$0	\$0	\$1,928
Construction Services	\$10,600	\$0	\$10,600	\$0	\$10,600
Interest / Financing	\$300	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$97,700</b>	<b>\$45,589</b>	<b>\$71,000</b>	<b>\$0</b>	<b>\$116,589</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$45,589	\$71,000	\$0	\$0	\$0	\$116,589

**Prior Legislation Action**  
 May 2013, May 2014, Dec 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	<b>Ponderosa Woods Pump Station Elimination</b>		
Project ID	<b>10240405</b>	CIP Number	<b>99-38</b>
Project Type	<b>Pump Station Improvement/Elim</b>	Sewer Number	<b>5063</b>

## Purpose and Justification

Purpose of the project is to eliminate an aging pump station by installing a gravity sewer from the south terminus of Westonridge Drive and 5346 Edger Drive. The pump station requires more reliable pumps and back-up power. The pump station has numerous operational and maintenance issues, including water-in-basement complaints, clogging and overflows, all needing attention.

## Impact to Operating Budget

None

## Description and Location

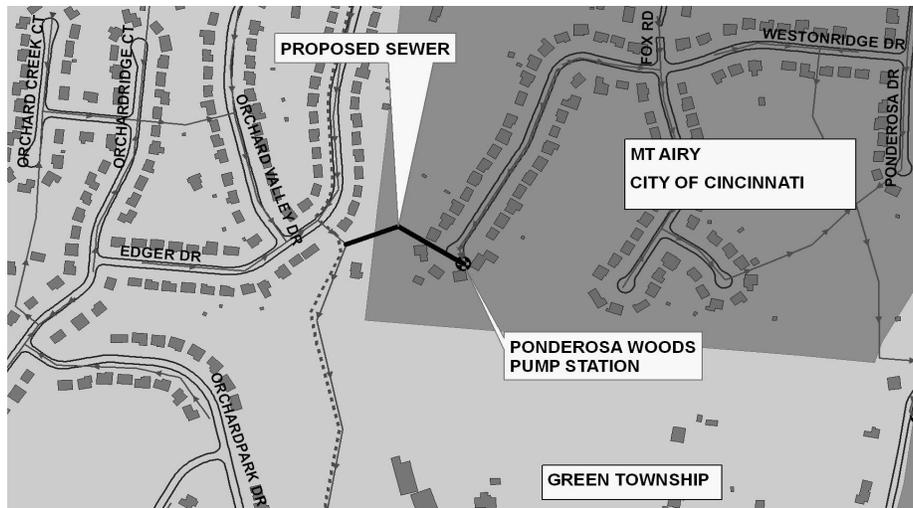
The project includes construction of 400 feet of 12-inch diameter sanitary sewer and the elimination of the Ponderosa Woods Pump Station. The project is located between the cul-de-sac of Westonridge Drive and 5344 Edger Drive in the Mill Creek sewershed of the Central basin in the City of Cincinnati's Mt. Airy neighborhood, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$22,767	\$0	\$0	\$22,767
Design	\$45,100	\$45,100	\$0	\$0	\$45,100
Pre-Construction Services	\$7,600	\$15,200	\$0	\$0	\$15,200
Miscellaneous Expense	\$36,300	\$36,300	\$0	\$0	\$36,300
Right-of-Way	\$90,600	\$90,600	\$0	\$0	\$90,600
Construction	\$253,200	\$0	\$253,200	\$0	\$253,200
Program Management	\$0	\$2,578	\$0	\$0	\$2,578
Construction Services	\$42,100	\$0	\$46,700	\$0	\$46,700
Interest / Financing	\$3,200	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$478,100</b>	<b>\$212,545</b>	<b>\$299,900</b>	<b>\$0</b>	<b>\$512,445</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$212,545	\$299,900	\$0	\$0	\$0	\$512,445

## Prior Legislation Action

Jan 2014, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Freeland Avenue Area Sewer Replacement		
Project ID	10240420	CIP Number	10240420
Project Type	Sewer Replacement	Sewer Number	6585

## Purpose and Justification

The existing 21-inch sewer segment, installed in approximately 1900, shows extensive cracking, fracturing, joint separation, and shape loss, and approximately 36-feet of the segment is located under the structure at 228 Breen Street. The project will install approximately 160 linear feet of 8-inch sewer, manholes, cleanouts, fill, seal, and abandon the sewer under the structure. Install manhole in rear of 2025 Freeland Avenue, install 160' ~ 8" sewer for laterals. Fill, seal & abandon existing sewer under 2028 Breen St. This project is located in Hyde Park near Madison Road and Grandin Road.

## Impact to Operating Budget

None

## Description and Location

Install manhole in rear of 2025 Freeland Avenue, install 160' ~ 8" sewer for laterals. Fill, seal & abandon existing sewer under 2028 Breen St. This project is located in Hyde Park near Madison Road and Grandin Road.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$17,510	\$0	\$0	\$17,510
Design	\$17,400	\$0	\$35,000	\$0	\$35,000
Pre-Construction Services	\$4,000	\$0	\$15,000	\$0	\$15,000
Miscellaneous Expense	\$33,700	\$0	\$33,700	\$0	\$33,700
Right-of-Way	\$44,400	\$0	\$44,400	\$0	\$44,400
Construction	\$66,100	\$0	\$0	\$66,100	\$66,100
Program Management	\$0	\$1,956	\$0	\$0	\$1,956
Construction Services	\$30,300	\$0	\$0	\$30,300	\$30,300
Interest / Financing	\$600	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$196,500</b>	<b>\$19,466</b>	<b>\$128,100</b>	<b>\$96,400</b>	<b>\$243,966</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$19,466	\$128,100	\$0	\$96,400	\$0	\$243,966

## Prior Legislation Action

May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Berkley Avenue Sewer Replacement		
Project ID	10240430	CIP Number	10240430
Project Type	Sewer Replacement	Sewer Number	6586

## Purpose and Justification

The purpose of this project is to rehabilitate four combined sewer segments, abandon one segment, and replace one segment of a deteriorated combined sewer originally constructed in 1926 and 1938. MSD conducted a condition assessment of the existing combined sewer segments and found some of the pipes to have shape loss, longitudinal cracks at the crown of the sewer, and broken tiles.

## Impact to Operating Budget

None

## Description and Location

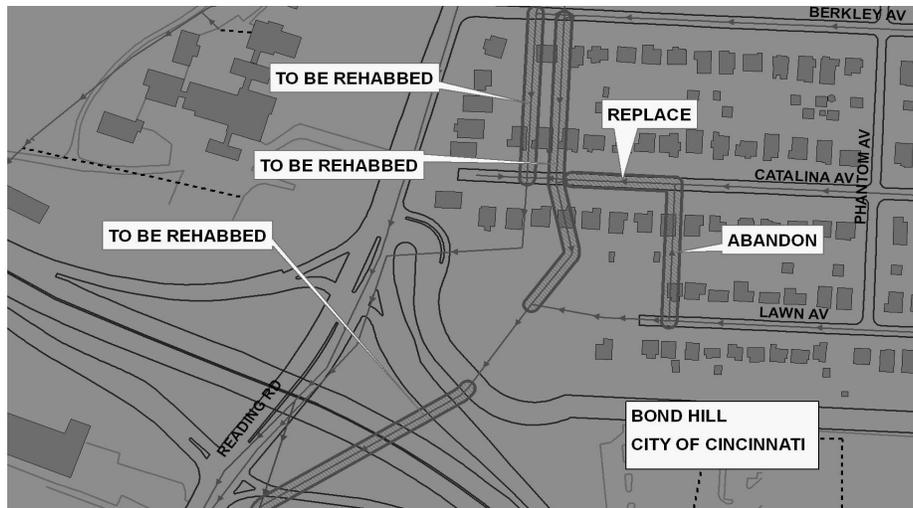
The project includes lining of existing 10-inch, 30-inch and 36-inch combined sewers; coating of deteriorated reinforcing bars within a 48-inch sewer; replacement of an 18-inch sewer with a 24-inch segment; and abandonment of an existing 8-inch sewer segment. The project is located along Berkley, Catalina, and Lane Avenues in the Mill Creek sewershed in the City of Cincinnati's Bond Hill neighborhood, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$21,565	\$0	\$0	\$21,565
Design	\$84,100	\$90,308	\$0	\$0	\$90,308
Pre-Construction Services	\$16,600	\$56,600	\$0	\$0	\$56,600
Miscellaneous Expense	\$35,900	\$34,250	\$0	\$0	\$34,250
Right-of-Way	\$15,000	\$15,000	\$0	\$0	\$15,000
Construction	\$553,100	\$0	\$660,200	\$0	\$660,200
Program Management	\$0	\$10,098	\$0	\$0	\$10,098
Construction Services	\$23,700	\$0	\$68,660	\$0	\$68,660
Interest / Financing	\$3,400	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$731,800</b>	<b>\$227,821</b>	<b>\$728,860</b>	<b>\$0</b>	<b>\$956,681</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$227,821	\$728,860	\$0	\$0	\$0	\$956,681

## Prior Legislation Action

Jan 2013, Jan 2014, Mar 2014, May 2014, Oct 2015, Feb 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Spring Grove Avenue Sewer Replacement and Rehabilitation		
Project ID	10240455	CIP Number	10240455
Project Type	Sewer Replacement	Sewer Number	6587

## Purpose and Justification

The combined sewer in the location described experiences overflows during 2-year storms. The sewer itself was installed around 1900, in poor condition, and has reached the end of its useful life. This project will replace this combined sewer in order to mitigate the overflows and prevent total collapse of the sewer.

## Impact to Operating Budget

None

## Description and Location

The project includes approximately 740 linear feet of 12-24 inch combined sewer and appurtenances. The project is located along the west side of Spring Grove Avenue between Brashears Street and Arlington Street in the Camp Washington Neighborhood of the City of Cincinnati, Hamilton County.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$14,991	\$0	\$0	\$14,991
Design	\$81,400	\$81,400	\$0	\$0	\$81,400
Pre-Construction Services	\$30,400	\$30,400	\$0	\$0	\$30,400
Miscellaneous Expense	\$15,900	\$15,900	\$0	\$0	\$15,900
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$506,200	\$0	\$506,200	\$0	\$506,200
Program Management	\$0	\$1,704	\$0	\$0	\$1,704
Construction Services	\$34,700	\$0	\$44,717	\$0	\$44,717
Interest / Financing	\$4,400	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$673,000</b>	<b>\$144,395</b>	<b>\$550,917</b>	<b>\$0</b>	<b>\$695,312</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$144,395	\$550,917	\$0	\$0	\$0	\$695,312

**Prior Legislation Action**  
Jan 2014, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Hosea Street Sewer Replacement		
Project ID	10240465	CIP Number	10240465
Project Type	Sewer Replacement	Sewer Number	6588

## Purpose and Justification

The purpose of this project is fix the flat sewer segment along Hosea Street. The segment currently requires excessive repairs and maintenance. In order to change the segment slope, several sewer segments will be required to be replaced resulting in the elimination of SSO 1010 and SSO 1045. This Sewer was constructed between 1907 and 1915.

## Impact to Operating Budget

None

## Description and Location

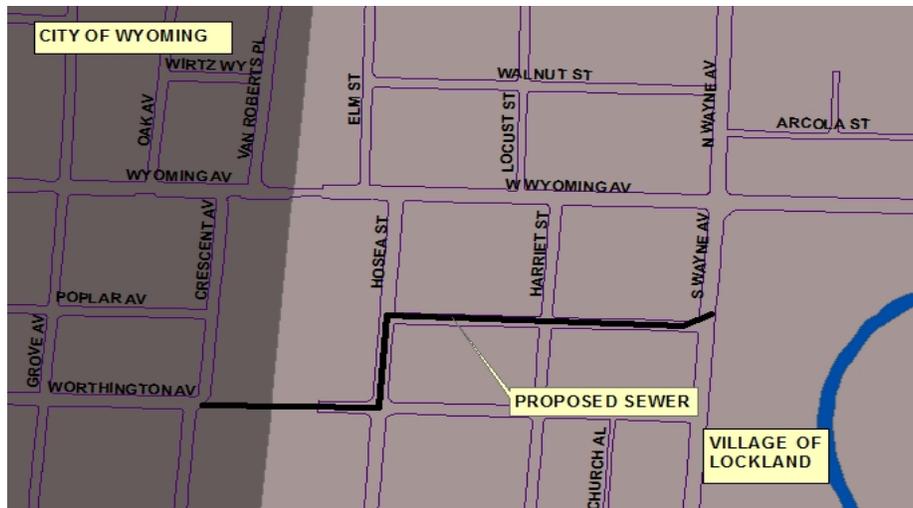
This project proposed the replacement and realignment of up to 1,600 feet of 8- and 12-inch sanitary sewer in and near Hosea Street. This project is located in the Village of Lockland and the City of Wyoming.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$5,786	\$0	\$0	\$5,786
Design	\$222,300	\$0	\$237,700	\$0	\$237,700
Pre-Construction Services	\$125,500	\$0	\$70,200	\$0	\$70,200
Miscellaneous Expense	\$84,200	\$0	\$90,000	\$0	\$90,000
Right-of-Way	\$0	\$0	\$32,000	\$0	\$32,000
Construction	\$2,091,400	\$0	\$0	\$2,338,800	\$2,338,800
Program Management	\$0	\$646	\$0	\$0	\$646
Construction Services	\$105,800	\$0	\$0	\$114,600	\$114,600
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$2,629,200</b>	<b>\$6,432</b>	<b>\$429,900</b>	<b>\$2,453,400</b>	<b>\$2,889,732</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total	
Prior Legislation	\$6,432	\$429,900	\$0	\$0	\$2,453,400	\$0	\$2,889,732

## Prior Legislation Action

May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Foraker Ave Sewer Replacement - Alms Pl to E. Terminus		
Project ID	10240475	CIP Number	10240475
Project Type	Sewer Replacement	Sewer Number	6439

## Purpose and Justification

The purpose of the project is to restore a combined sewer that was constructed in 1891. The sewer is in poor condition with multiple fractures, deformations, and has a shape loss greater than ten percent. The structural integrity of portions of the sewer can be restored via lining. Segments severely deteriorated require replacement.

## Impact to Operating Budget

None

## Description and Location

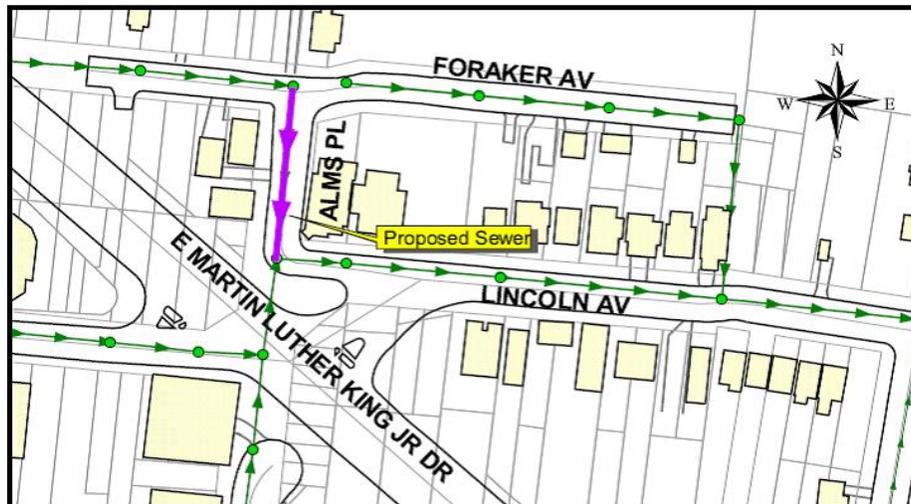
This project includes replacement of 25 feet of 12-inch diameter failing sewer. A spiral-wound liner will be installed along approximately 570 feet of existing 12-inch diameter sewer. This project is located along Foraker Avenue from Alms Place to Lincoln Avenue in the city of Cincinnati, Walnut Hills neighborhood, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$14,578	\$0	\$0	\$14,578
Design	\$16,200	\$0	\$0	\$0	\$0
Pre-Construction Services	\$3,300	\$19,500	\$0	\$0	\$19,500
Miscellaneous Expense	\$32,100	\$32,100	\$0	\$0	\$32,100
Right-of-Way	\$19,900	\$19,900	\$0	\$0	\$19,900
Construction	\$55,100	\$0	\$107,868	\$0	\$107,868
Program Management	\$0	\$1,655	\$0	\$0	\$1,655
Construction Services	\$28,800	\$0	\$16,500	\$0	\$16,500
Interest / Financing	\$500	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$155,900</b>	<b>\$87,733</b>	<b>\$124,368</b>	<b>\$0</b>	<b>\$212,101</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$87,733	\$124,368	\$0	\$0	\$0	\$212,101

## Prior Legislation Action

Jan 2014, May 2014, Nov 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	MCWWTP Dewatering Polymer System Replacement		
Project ID	10240480	CIP Number	10240480
Project Type	Treatment Facility	Sewer Number	6436

## Purpose and Justification

The dewatering polymer system is integral to the successful operation of the dewatering and incineration facilities at Mill Creek WWTP. Over the last several years, the reliability of the dewatering and incineration facilities and causing operations staff to rely more on the former digesters for standby sludge storage capacity. Much of the polymer system equipment is beyond its useful service life and is no longer supported by the system manufacturer, making maintenance repairs increasingly more frequent, difficult, and expensive.

## Impact to Operating Budget

None

## Description and Location

This project will replace the dewatering polymer system at the Mill Creek WWTP. This project is located at the Mill Creek Treatment Plant in the Lower Price Hill neighborhood of the City of Cincinnati.

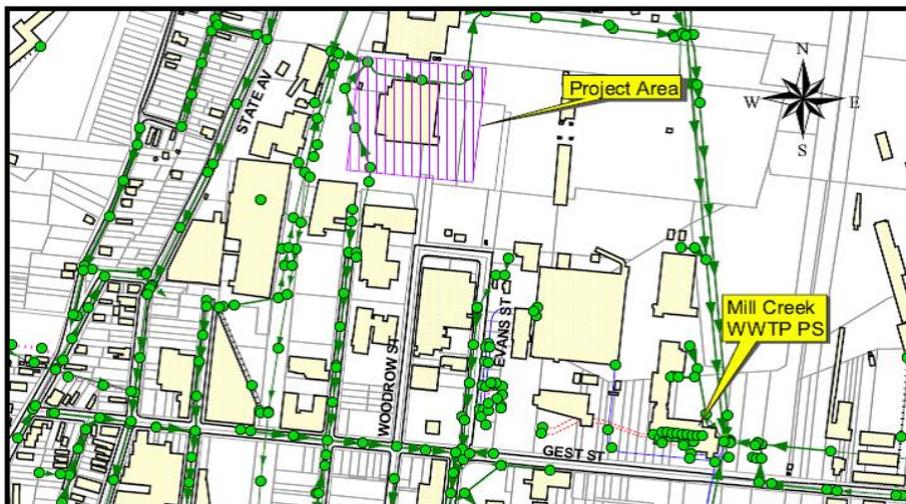
PDE was accomplished under 10280180.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$65,000	\$0	\$0	\$65,000
Pre-Construction Services	\$0	\$10,000	\$0	\$0	\$10,000
Miscellaneous Expense	\$0	\$0	\$47,700	\$0	\$47,700
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$4,900,600	\$0	\$5,343,000	\$0	\$5,343,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$141,300	\$0	\$1,095,300	\$0	\$1,095,300
Interest / Financing	\$117,800	\$0	\$155,900	\$0	\$155,900
<b>Total</b>	<b>\$5,159,700</b>	<b>\$75,000</b>	<b>\$6,641,900</b>	<b>\$0</b>	<b>\$6,716,900</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$75,000	\$6,641,900	\$0	\$0	\$0	\$6,716,900

## Prior Legislation Action

Feb 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Mayhew and Leath Avenues Sewer Replacement		
Project ID	10240515	CIP Number	10240515
Project Type	Sewer Replacement	Sewer Number	6331

## Purpose and Justification

The project is to address pipe segments from MH 24313025 to MH 24312024 that is reported to be in poor condition, and has several material changes in a few of the pipe segments.

## Impact to Operating Budget

None

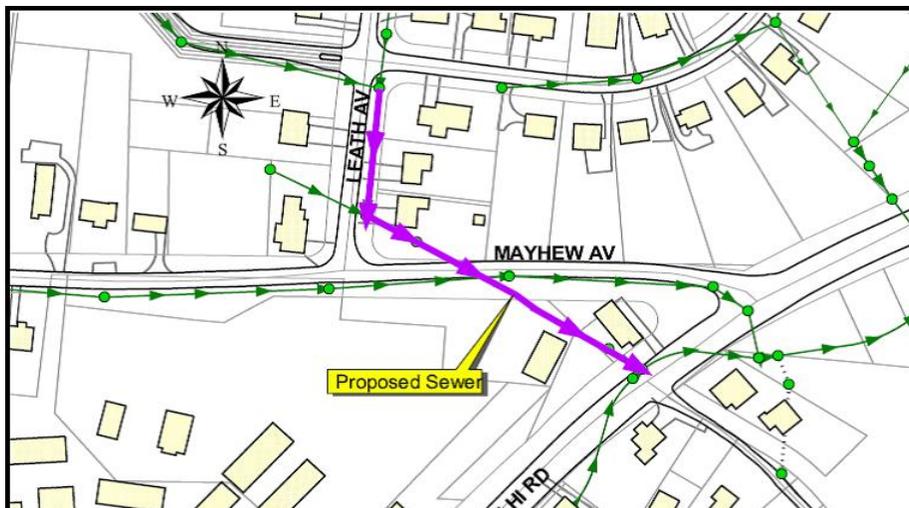
## Description and Location

The project is to realign and replace the existing sewer from MH 24312016 to MH 24312017. This moves the sewer away from the residence at 420 Leath. The project results in an alignment that extends from MH 24312016 to the South along the right-of-way of Leath to Mayhew. The proposed alignment turns to the East along the right-of-way of Mayhew to the existing alignment and follow the existing alignment to MH 24312017. The project will abandon approximately 240 feet of sewer and the removal of 3 manholes and a special chamber. The project is in Delhi Township, just West of Joseph Bruening Park, in Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$28,210	\$0	\$0	\$28,210
Design	\$42,200	\$53,527	\$0	\$0	\$53,527
Pre-Construction Services	\$12,400	\$29,500	\$0	\$0	\$29,500
Miscellaneous Expense	\$32,300	\$20,973	\$0	\$0	\$20,973
Right-of-Way	\$20,600	\$20,600	\$0	\$0	\$20,600
Construction	\$205,900	\$0	\$459,400	\$0	\$459,400
Program Management	\$0	\$2,565	\$0	\$0	\$2,565
Construction Services	\$41,200	\$0	\$74,300	\$0	\$74,300
Interest / Financing	\$2,600	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$357,200</b>	<b>\$155,375</b>	<b>\$533,700</b>	<b>\$0</b>	<b>\$689,075</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$155,375	\$533,700	\$0	\$0	\$0	\$689,075

**Prior Legislation Action**  
Jan 2014, May 2014, Nov 2014, May 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Victory Parkway Sewer Rehabilitation		
Project ID	10240525	CIP Number	10240525
Project Type	Sewer Replacement	Sewer Number	6589

## Purpose and Justification

The pipe segment from MH 27002032 to MH 270020252, which generally follows the alignment of Victory Parkway, is a stone 36-inch sewer that was constructed prior to 1912. The stone sewer is experiencing some deformation in the crown area primarily due to slippage of the crown stones. In addition, there are several areas where the stones have come loose and are missing. As a result of the deterioration of the mortar, there are several locations where there is infiltration in to the pipe.

## Impact to Operating Budget

None

## Description and Location

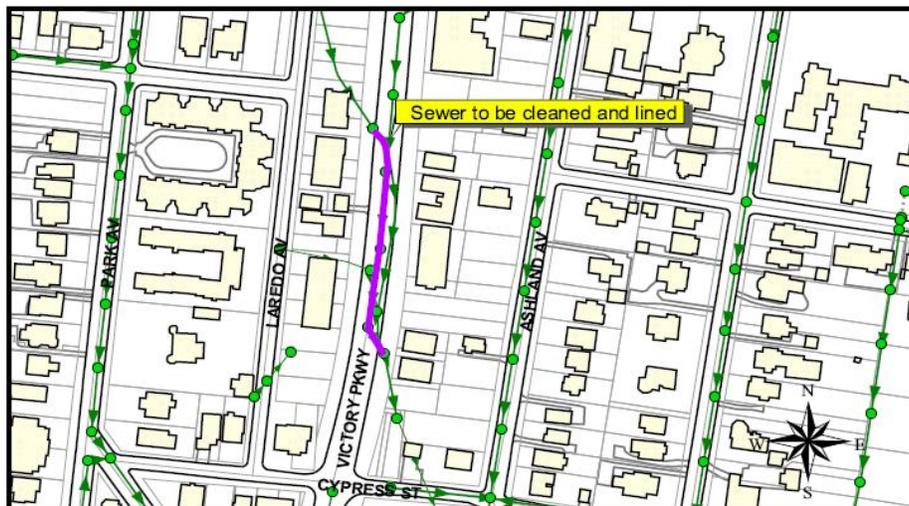
The project extends the sewer from MH 37002032 to MH 37002025 and consists of cleaning and lining of approximately 450 linear feet of existing 36-inch stone sewers. The project is located in the Walnut Hills neighborhood, approximately 400 feet south of McMillian to approximately 825 feet south of McMillian, in the City of Cincinnati, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$17,049	\$0	\$0	\$17,049
Design	\$56,900	\$0	\$56,900	\$0	\$56,900
Pre-Construction Services	\$18,600	\$0	\$18,600	\$0	\$18,600
Miscellaneous Expense	\$30,900	\$0	\$30,900	\$0	\$30,900
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$310,600	\$0	\$0	\$310,600	\$310,600
Program Management	\$0	\$1,958	\$0	\$0	\$1,958
Construction Services	\$32,700	\$0	\$0	\$32,700	\$32,700
Interest / Financing	\$2,700	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$452,400</b>	<b>\$19,007</b>	<b>\$106,400</b>	<b>\$343,300</b>	<b>\$468,707</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total	
Prior Legislation	\$19,007	\$106,400	\$0	\$0	\$343,300	\$0	\$468,707

## Prior Legislation Action

May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Cypress St - Ashland Av to 250 feet east Sewer Replacement		
Project ID	10240526	CIP Number	10240526
Project Type	Sewer Replacement	Sewer Number	6440

## Purpose and Justification

The pipe segment from MH 37114013 to MH 37115042 is experiencing deformation that has reached or exceeded 10% deformation and is considered to be at the point where lining the pipe segment may not be possible. There is a blind manhole at approximately the mid-point of the pipe segment.

## Impact to Operating Budget

None

## Description and Location

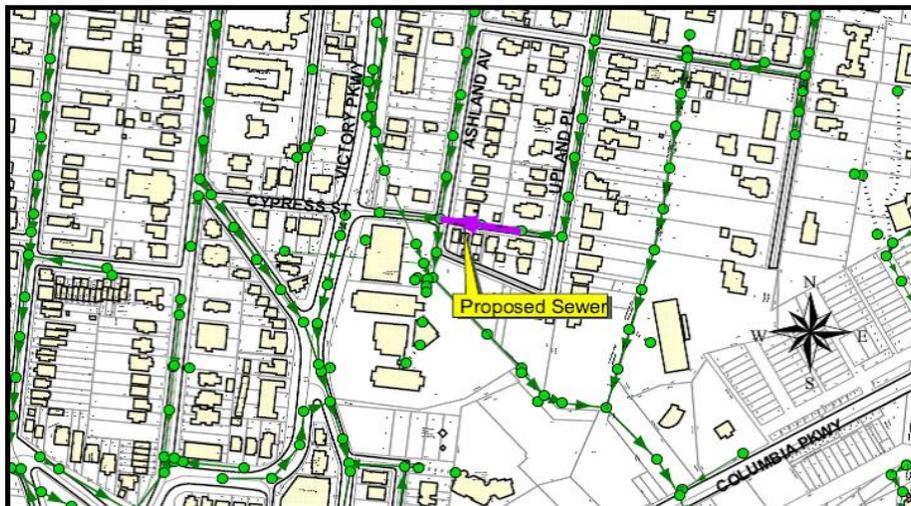
The project is to replace 250 feet of 15-inch diameter sewer with the same size pipe along the same horizontal and vertical alignments. The pipe segments are located approximately 290 feet east of the intersection of Cypress Street and Victory Parkway and extends for approximately 250 feet to the East. The project is located in the Walnut Hills 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	\$27,600	\$0	\$0	\$0	\$0
Pre-Construction Services	\$7,100	\$34,700	\$0	\$0	\$34,700
Miscellaneous Expense	\$32,300	\$32,300	\$0	\$0	\$32,300
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$118,500	\$0	\$118,500	\$0	\$118,500
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$28,800	\$0	\$28,800	\$0	\$28,800
Interest / Financing	\$1,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$215,300</b>	<b>\$67,000</b>	<b>\$147,300</b>	<b>\$0</b>	<b>\$214,300</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$67,000	\$147,300	\$0	\$0	\$0	\$214,300

## Prior Legislation Action

Jan 2014, Nov 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Pardee Alley Sewer Replacement-Oswald Al to 200' north		
Project ID	10240550	CIP Number	10240550
Project Type	Sewer Replacement	Sewer Number	6454

## Purpose and Justification

There are several pipe segments near Hatmaker Street and downstream collection system to the north that are in poor condition. Portion of the downstream sewer are stone sewers that were built around the turn of the century. Currently, one of the pipe segments has experienced a collapse and it is likely more collapses will occur. The project is to re-align the service connections for the three locations served by the subject sewer to the sewer in W. Eighth Street. The plumbing in the Health Clinic basement will need to be re-aligned. Then existing will be abandon in-place.

## Impact to Operating Budget

None

## Description and Location

The project will construct approximately 185 feet of 12-inch diameter sewer, connect a lateral, a trench drain, and a roof drain to the sewer and re-direct two laterals to existing sewer. The project includes abandonment of 730 feet of 18-inch, 24-inch, and 36-inch sewer. The project is located in Lower East Price Hill, in the Mill Creek Valley, in the City of Cincinnati, Hamilton County, Ohio.

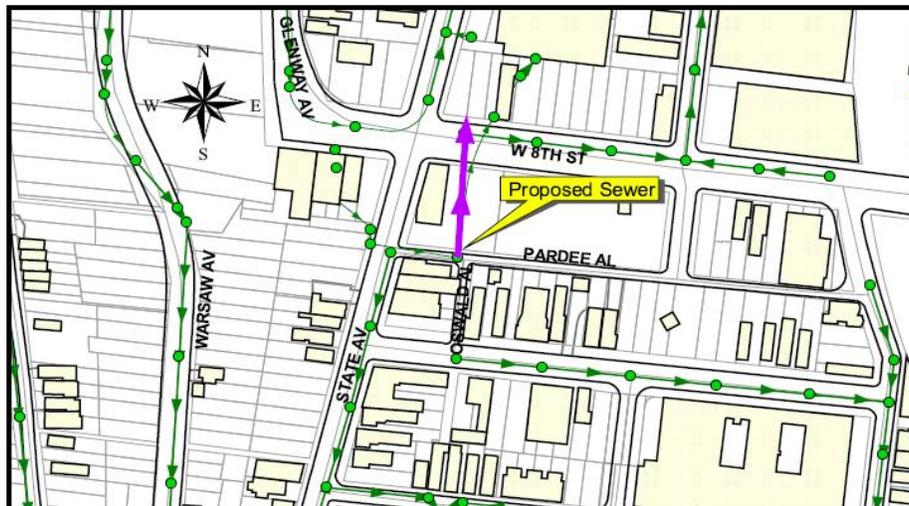
Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$25,727	\$0	\$0	\$25,727
Design	\$34,300	\$52,464	\$0	\$0	\$52,464
Pre-Construction Services	\$4,500	\$6,500	\$0	\$0	\$6,500
Miscellaneous Expense	\$57,700	\$47,120	\$0	\$0	\$47,120
Right-of-Way	\$33,600	\$33,600	\$0	\$0	\$33,600
Construction	\$137,100	\$0	\$184,000	\$0	\$184,000
Program Management	\$0	\$2,942	\$0	\$0	\$2,942
Construction Services	\$17,500	\$0	\$25,900	\$0	\$25,900
Interest / Financing	\$300	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$285,000</b>	<b>\$168,353</b>	<b>\$209,900</b>	<b>\$0</b>	<b>\$378,253</b>

## Projected Legislation Dates

Prior Legislation	2017	2018	2019	2020	2021	Project Total
	\$168,353	\$209,900	\$0	\$0	\$0	\$378,253

## Prior Legislation Action

Jan 2014, May 2014, Sep 2014, Nov 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Kemper Mill Village Pump Station Upgrade		
Project ID	10240555	CIP Number	10240555
Project Type	Pump Station Improvement/Elim	Sewer Number	6437

## Purpose and Justification

The pump station, originally installed in 1972, is located in a residential neighborhood in close proximity to houses. The existing 4-inch force main was constructed in 1967. The pump station consists of 2 dry pit centrifugal pumps with a total pumping capacity of 100 gallons per minute and is nearing the end of its 30 year expected life.

## Impact to Operating Budget

None

## Description and Location

The project includes construction of approximately 1,000 feet of 4-inch force main, below grade diesel generator, and new dry pit centrifugal pumps installed in parallel alignment with the existing force main. The Kemper Mill Village Pump Station is located at 1683 John Gray Road in the Mill Creek Basin.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$56,812	\$0	\$0	\$56,812
Design	\$0	\$99,200	\$0	\$0	\$99,200
Pre-Construction Services	\$31,600	\$31,600	\$0	\$0	\$31,600
Miscellaneous Expense	\$159,700	\$159,700	\$0	\$0	\$159,700
Right-of-Way	\$15,000	\$15,000	\$0	\$0	\$15,000
Construction	\$526,400	\$0	\$595,600	\$0	\$595,600
Program Management	\$0	\$6,406	\$0	\$0	\$6,406
Construction Services	\$70,000	\$0	\$91,723	\$0	\$91,723
Interest / Financing	\$5,100	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$807,800</b>	<b>\$368,718</b>	<b>\$687,323</b>	<b>\$0</b>	<b>\$1,056,041</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$368,718	\$687,323	\$0	\$0	\$0	\$1,056,041

Prior Legislation Action
Jan 2014, May 2014, Mar 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Mill Creek WWTP Main Substation Improvements		
Project ID	10240590	CIP Number	10240590
Project Type	Treatment Facility	Sewer Number	6484

## Purpose and Justification

To ensure long term reliability of high and medium voltage electrical assets the assets were assessed and evaluated. Needed upgrades to the high and medium voltage electrical distribution system at MCWWTP were identified and prioritized. This equipment was identified as the first priority level based on the Maximo criticality rating for the main distribution transformers of 5700, which is the highest criticality value within the rating system.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

## Description and Location

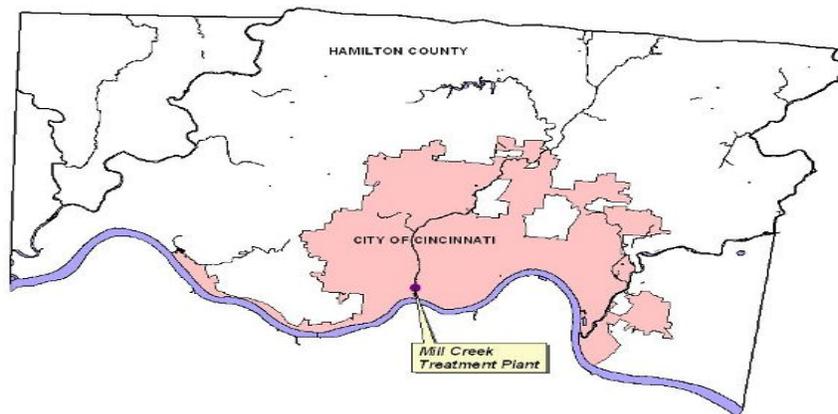
This project will provide improvements for the main substation transformers, power bus and switches, along with revising the electric service entrance, adding power monitoring and transformer isolation wall. Power Building Switchgear will be demolished with feeders extended from the new substation to equipment currently fed from this gear. 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	\$220,000	\$0	\$0	\$0	\$0
Design	\$306,000	\$200,000	\$0	\$0	\$200,000
Pre-Construction Services	\$52,000	\$83,000	\$0	\$0	\$83,000
Miscellaneous Expense	\$67,100	\$36,100	\$22,500	\$0	\$58,600
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$2,560,000	\$0	\$5,009,000	\$0	\$5,009,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$231,000	\$0	\$1,026,800	\$0	\$1,026,800
Interest / Financing	\$70,000	\$0	\$188,000	\$0	\$188,000
<b>Total</b>	<b>\$3,506,100</b>	<b>\$319,100</b>	<b>\$6,246,300</b>	<b>\$0</b>	<b>\$6,565,400</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$319,100	\$6,246,300	\$0	\$0	\$0	\$6,565,400

## Prior Legislation Action

Jan 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Mill Creek WWTP Plant Influent and Headworks Odor Control		
Project ID	10240635	CIP Number	10240635
Project Type	Treatment Facility	Sewer Number	6474

## Purpose and Justification

The chemical feed system equipment as well as the piping, valves, and tanks for the headworks chemical scrubbers is beyond its useful life. The containment area surrounding the chemical feed system has failed, resulting in severe corrosion. The deteriorating piping and tanks located within the containment have not been replaced since the system became operational in the mid-1980s should be replaced. The deteriorating sodium hydroxide tank is showing signs of potential failure and the piping and valves should be replaced. The containment areas for both the chemical tanks and the hypochlorite pumping system have failed and needs to be replaced or rehabilitated.

## Impact to Operating Budget

None

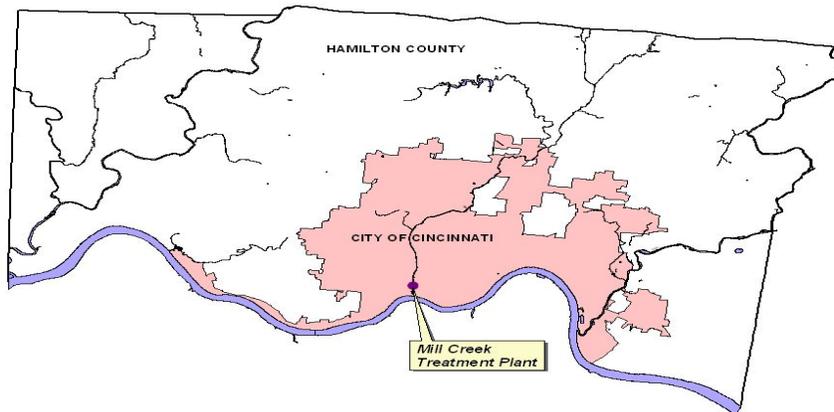
## Description and Location

This project will replace existing chemical feed equipment for the headworks chemical scrubber and the ferrous chloride feed system bulk tanks, containment area, piping, and valves. 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	\$0	\$0	\$0
Design	\$72,300	\$155,000	\$0	\$0	\$155,000
Pre-Construction Services	\$30,100	\$30,100	\$0	\$0	\$30,100
Miscellaneous Expense	\$24,100	\$24,100	\$0	\$0	\$24,100
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$717,800	\$0	\$1,045,000	\$0	\$1,045,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$129,200	\$0	\$214,000	\$0	\$214,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$973,500</b>	<b>\$209,200</b>	<b>\$1,259,000</b>	<b>\$0</b>	<b>\$1,468,200</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$209,200	\$0	\$0	\$0	\$0	\$1,468,200

Prior Legislation Action
Nov 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 449 Sewer Separation		
Project ID	10240655	CIP Number	10240655
Project Type	Sewer Separation	Sewer Number	6590

## Purpose and Justification

The recommendation is Stormwater Removal. The recommended alternative provides the lowest risk and maximum benefit to SMU and DOTE. Alternatives 1 and 2 will require additional infrastructure improvements in the future to eliminate street flooding under larger wet weather events.

## Impact to Operating Budget

None

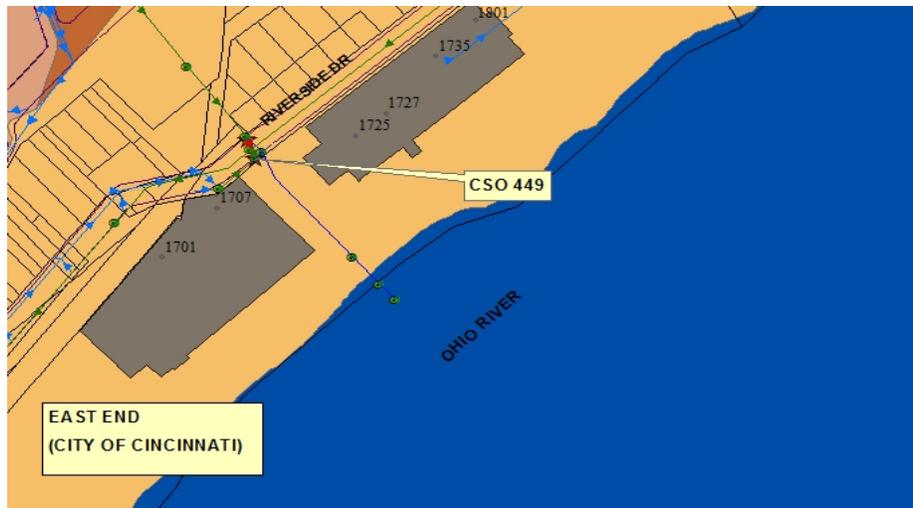
## Description and Location

There is frequent street flooding along Riverside Drive in the vicinity of the railroad bridge near 1725 Riverside Drive. CSO 449 activated 54 times during the period of 2010 to 2013. The recommended alternative would remove the stormwater entering the combined sewer system near CSO 449 by installing four new storm sewer segments to transport the water directly to the outfall pipe. This alternative would also install a new 18-inch diameter storm sewer to serve the area east of CSO 449 to remove additional flow from the combined system.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$62,000	\$0	\$62,000	\$0	\$62,000
Pre-Construction Services	\$13,300	\$0	\$13,300	\$0	\$13,300
Miscellaneous Expense	\$66,300	\$0	\$66,300	\$0	\$66,300
Right-of-Way	\$2,000	\$0	\$2,000	\$0	\$2,000
Construction	\$522,800	\$0	\$0	\$522,800	\$522,800
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$27,100	\$27,100
Interest / Financing	\$0	\$0	\$0	\$5,500	\$5,500
<b>Total</b>	<b>\$666,400</b>	<b>\$0</b>	<b>\$143,600</b>	<b>\$555,400</b>	<b>\$699,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$143,600	\$0	\$0	\$555,400	\$0	\$699,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Mill Creek WWTP Septage Receiving Station Odor Control Improvements		
Project ID	10240665	CIP Number	10240665
Project Type	Treatment Facility	Sewer Number	6477

## Purpose and Justification

Currently, the Mill Creek WWTP Septage Receiving Station building space (truck bays) does not have an odor control system. Preliminary sampling results indicate the truck bays are an odor source and may contribute to offsite odor impacts. The existing odor control system at the Septage Receiving Station only ventilates the air from the channels below ground in the building. There can be significant odors from the truck bays that are released without treatment. This project will provide an odor control system to treat the odorous air from the truck bays.

## Impact to Operating Budget

None

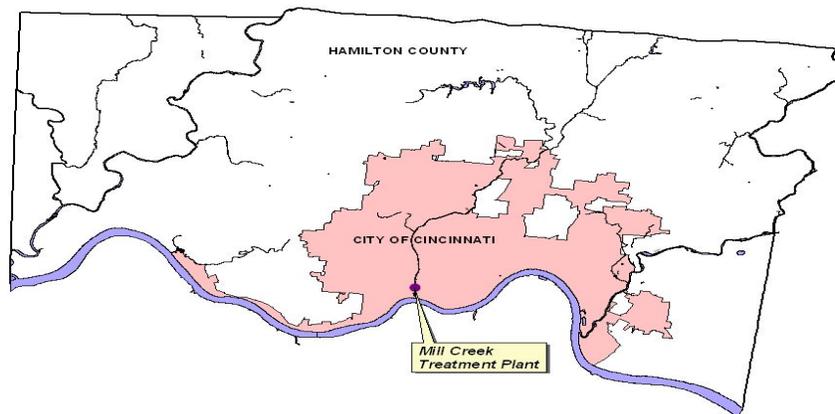
## Description and Location

Two new carbon adsorption units will treat odorous air from the Mill Creek WWTP Septage Receiving Station truck bays. The units will provide a ventilation rate of 12 air changes per hour. New ductwork will be installed in the Septage Receiving Station to convey airflow to the new activated carbon units. This project is in the Lower Price Hill neighborhood 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	\$116,900	\$0	\$0	\$0	\$0
Pre-Construction Services	\$34,400	\$0	\$0	\$0	\$0
Miscellaneous Expense	\$27,500	\$0	\$0	\$0	\$0
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$859,800	\$0	\$859,800	\$0	\$859,800
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$154,800	\$0	\$154,800	\$0	\$154,800
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,193,400</b>	<b>\$0</b>	<b>\$1,014,600</b>	<b>\$0</b>	<b>\$1,014,600</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$1,014,600	\$0	\$0	\$0	\$1,014,600

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Spring Grove at Clifton Sewer Abandonment		
Project ID	10240705	CIP Number	10240705
Project Type	Sewer Replacement	Sewer Number	6559

## Purpose and Justification

This project will eliminate sewer lines that are not needed from the collection system. Flow to these sewers was directed previously to nearby sewers and the related CSOs have been eliminated previously. Elimination of these sewers from the system will reduce the risk of inflow into the collection system.

## Impact to Operating Budget

None.

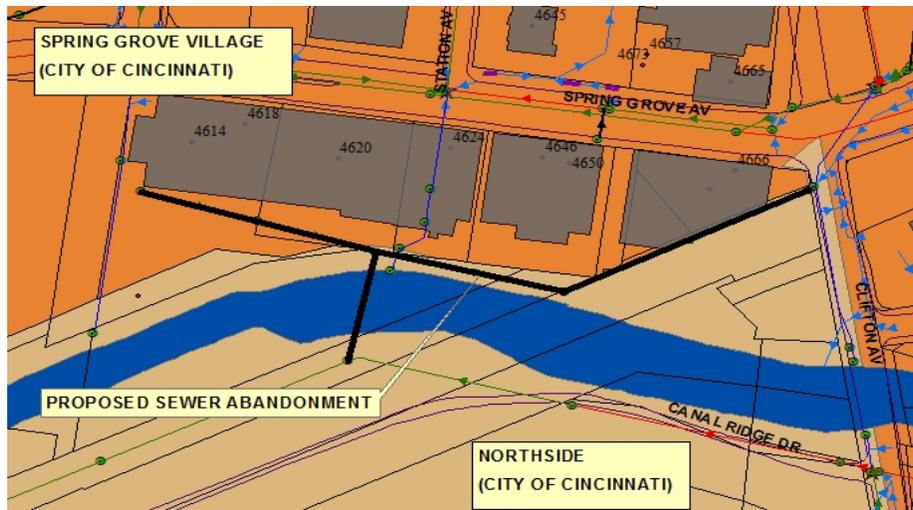
## Description and Location

The proposed sewer improvement project is located in the City of Cincinnati and is located in the Spring Grove Village Neighborhood. The proposed improvement is tributary to the Mill Creek Wastewater Treatment Plant. This project is for the abandonment of sewers located generally at 4620 Spring Grove Avenue and that cross the Mill Creek south of Clifton Avenue. The project will fill, seal, and abandon approximately 1,270 feet of pipe. The sewer to be abandoned includes 410 linear feet of 30 inch pipe, 295 linear ft of 8 inch pipe, and 565 linear ft of 12 inch pipe.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$12,000	\$0	\$12,000
Pre-Construction Services	\$15,000	\$0	\$15,000	\$0	\$15,000
Miscellaneous Expense	\$12,000	\$0	\$12,000	\$0	\$12,000
Right-of-Way	\$1,500	\$0	\$1,500	\$0	\$1,500
Construction	\$36,000	\$0	\$0	\$36,000	\$36,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$5,000	\$0	\$0	\$5,000	\$5,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$69,500</b>	<b>\$0</b>	<b>\$40,500</b>	<b>\$41,000</b>	<b>\$81,500</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$40,500	\$0	\$41,000	\$0	\$81,500

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Polk Run UV System/Post Aeration Improvements		
Project ID	10250030	CIP Number	10250030
Project Type	Treatment Facility	Sewer Number	6591

## Purpose and Justification

These projects are needed to maintain compliance with NPDES permit requirements. The existing Ultraviolet Disinfection equipment was designed to meet fecal coliform requirements. Greater disinfection energy is required to meet the current more stringent E. coli permit requirements. The existing UV disinfection process also lacks redundancy required by 10 States Standards and needed to ensure compliance. When the plant effluent channel backs up due to high receiving stream conditions, the drop over the effluent weir plate is eliminated and Dissolved Oxygen NPDES permit violations occur. Post-aeration is required.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

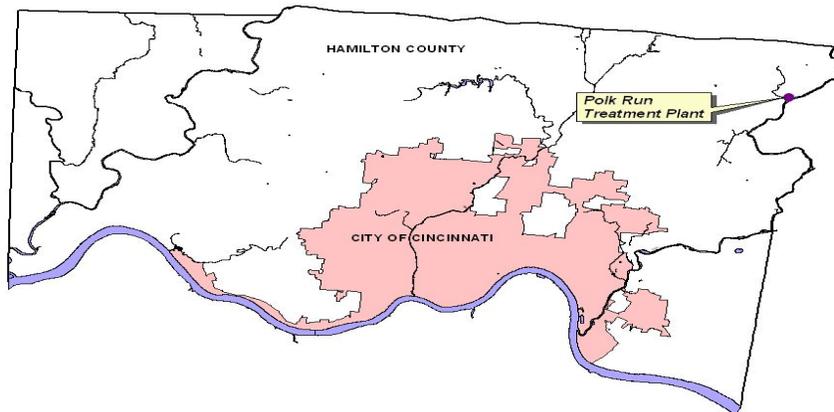
## Description and Location

This project consists of relocation of the existing UV equipment, the addition of new UV equipment, two parallel disinfection channels, protective covering and other appurtenances. This project is located in Symmes Township, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$172,000	\$172,000	\$0	\$0	\$172,000
Pre-Construction Services	\$28,000	\$28,000	\$0	\$0	\$28,000
Miscellaneous Expense	\$25,000	\$25,000	\$0	\$0	\$25,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$1,385,000	\$0	\$1,385,000	\$0	\$1,385,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$125,000	\$0	\$284,000	\$0	\$284,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,735,000</b>	<b>\$225,000</b>	<b>\$1,669,000</b>	<b>\$0</b>	<b>\$1,894,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$225,000	\$1,669,000	\$0	\$0	\$0	\$1,894,000

**Prior Legislation Action**  
Jan 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Polk Run Non-Potable Water Upgrades		
Project ID	10250035	CIP Number	10250035
Project Type	Treatment Facility	Sewer Number	6592

## Purpose and Justification

The existing "City" water system is not separated for plant use and domestic use and does not have a system to prevent potential backflow from the wastewater treatment processes to the potable water system. The Great Lakes-Upper Mississippi River Board (GLUMRB) 10 States Standards requires that where a potable water supply is to be used for any purpose in a plant other than domestic use (lavatory, sink, shower, drinking fountain, etc.) a break tank, pressure pump, and pressure tank shall be provided.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

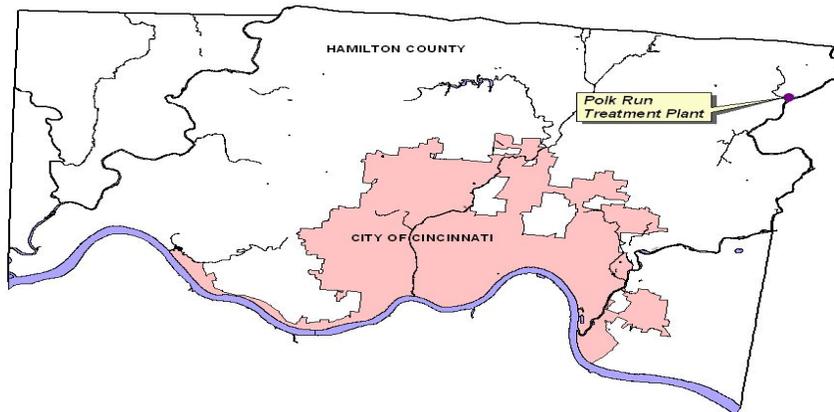
## Description and Location

This project consists of a new Non-Potable Water pump station located adjacent to the UV channels utilizing treated effluent for uses other than domestic. This project is located in Symmes Township, Hamilton County, Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$47,000	\$47,000	\$0	\$0	\$47,000
Pre-Construction Services	\$5,000	\$5,000	\$0	\$0	\$5,000
Miscellaneous Expense	\$50,000	\$50,000	\$0	\$0	\$50,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Construction	\$231,000	\$0	\$231,000	\$0	\$231,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$24,000	\$0	\$47,000	\$0	\$47,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$357,000</b>	<b>\$102,000</b>	<b>\$278,000</b>	<b>\$0</b>	<b>\$380,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$102,000	\$278,000	\$0	\$0	\$0	\$380,000

Prior Legislation Action
Jan 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	South Clippinger Force Main Replacement and Pump Station Upgrade		
Project ID	10260025	CIP Number	10260025
Project Type	Pump Station Improvement/Elim	Sewer Number	6205

## Purpose and Justification

This project will replace the existing, deteriorating force main sewer that was constructed in the 1960s and upgrade modernize the pump station on South Clippinger Drive. The force main and several components within the pump station are beyond their useful lives and need to be replaced.

## Impact to Operating Budget

None

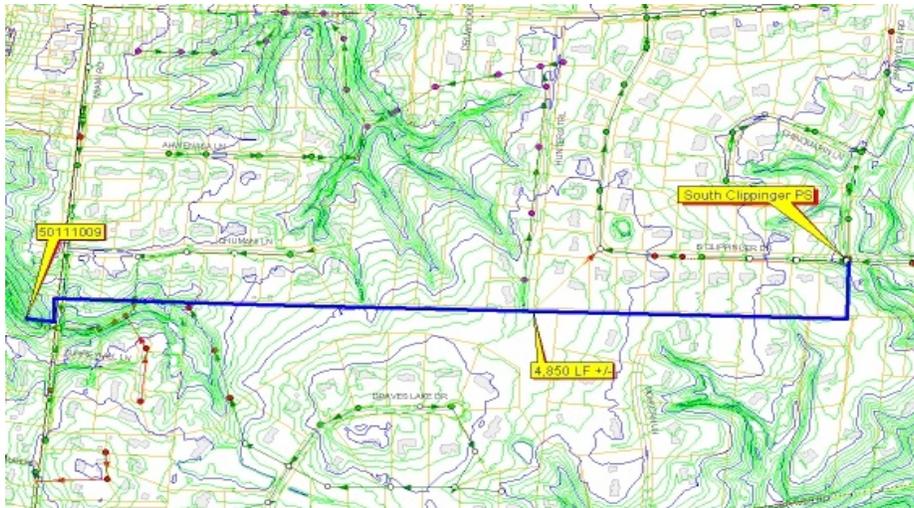
## Description and Location

This project will replace approximately 835 ft of 6in. force main sewer for the South Clippinger Pump Station. The project will also replace several aging systems within the South Clippinger Pump Station. This project is located on the intersection of South Clippinger Dr and Shadyglen Rd in the Village of Indian Hill.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$176,000	\$0	\$176,000
Pre-Construction Services	\$0	\$0	\$69,500	\$0	\$69,500
Miscellaneous Expense	\$0	\$0	\$70,500	\$0	\$70,500
Right-of-Way	\$0	\$0	\$128,000	\$0	\$128,000
Construction	\$247,000	\$0	\$0	\$929,400	\$929,400
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$106,400	\$0	\$0	\$51,300	\$51,300
Interest / Financing	\$4,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$357,400</b>	<b>\$0</b>	<b>\$444,000</b>	<b>\$980,700</b>	<b>\$1,424,700</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$444,000	\$980,700	\$0	\$0	\$0
	\$0	\$444,000	\$980,700	\$0	\$0	\$1,424,700

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Dry Run Sewers - Contract 8M		
Project ID	10270008	CIP Number	10270008
Project Type	New Sewer	Sewer Number	3608

## Purpose and Justification

The purpose of this project is to provide sewer service to the Anderson Township Dry Run Area via a trunk sewer. The project will eliminate the Ivy Trails Flush Station and the Dry Run Pump Station, and could eliminate two other pump stations by subsequent construction of local sewers.

## Impact to Operating Budget

None

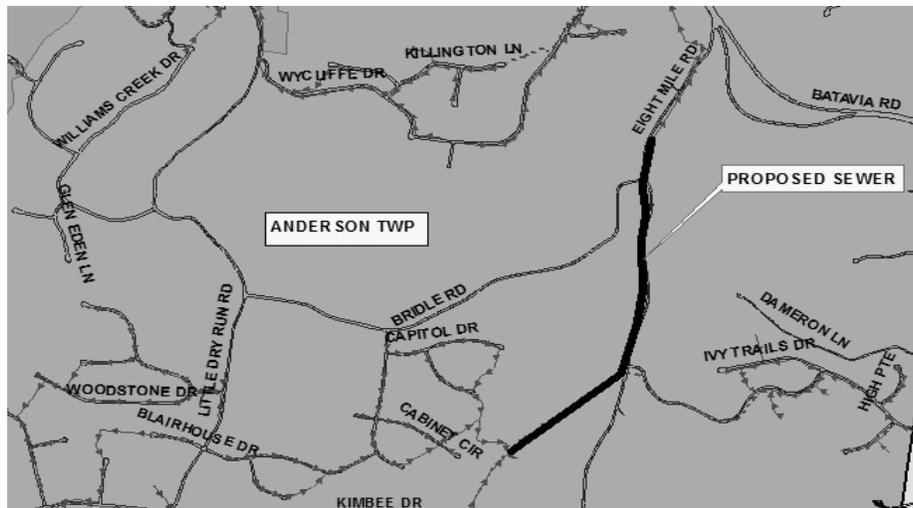
## Description and Location

The project includes construction of 4,400 feet of 15-inch to 30-inch diameter sanitary sewer. The project is located between 3100 Eight Mile Road and 2623 Eight Mile Road. This project is located in Anderson Township, Hamilton County, Ohio.

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	\$4,620,000	\$0	\$4,620,000	\$0	\$4,620,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$365,000	\$0	\$365,000	\$0	\$365,000
Interest / Financing	\$346,500	\$0	\$346,500	\$0	\$346,500
<b>Total</b>	<b>\$5,331,500</b>	<b>\$0</b>	<b>\$5,331,500</b>	<b>\$0</b>	<b>\$5,331,500</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$5,331,500	\$0	\$0	\$0	\$5,331,500

**Prior Legislation Action**  
Jan 2016



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	3981 Watterson Rd Sewer Replacement		
Project ID	10270150	CIP Number	10270150
Project Type	Sewer Replacement	Sewer Number	6326

## Purpose and Justification

The purpose of the project is to connect the sewer on Watterson Road to the newer 36-inch sewer on Bancroft Street, line the 20-inch sewer between Simpson Avenue and Watterson Road, and fill-seal-abandon the existing sewer to eliminate the 20-inch sewer that runs through backyards and under existing structures.

## Impact to Operating Budget

None

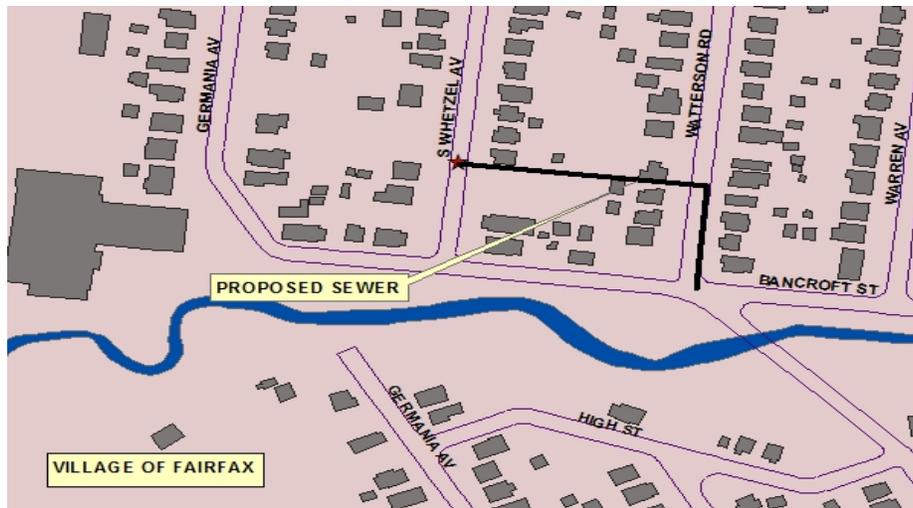
## Description and Location

The project will connect to the sewer on Watterson Road to the newer 36-inch sewer on Bancroft Street by lining 575 lf of the 20-inch sewer between Simpson Avenue and Watterson Road, and fill-seal-abandon the existing sewer between Watterson Road and S. Whetsel Avenue.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$21,265	\$0	\$0	\$21,265
Design	\$38,200	\$38,200	\$0	\$0	\$38,200
Pre-Construction Services	\$5,300	\$5,300	\$0	\$0	\$5,300
Miscellaneous Expense	\$32,600	\$32,600	\$0	\$0	\$32,600
Right-of-Way	\$41,000	\$41,000	\$0	\$0	\$41,000
Construction	\$178,000	\$0	\$178,000	\$0	\$178,000
Program Management	\$0	\$4,803	\$0	\$0	\$4,803
Construction Services	\$6,400	\$0	\$6,400	\$0	\$6,400
Interest / Financing	\$1,900	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$303,400</b>	<b>\$143,168</b>	<b>\$184,400</b>	<b>\$0</b>	<b>\$327,568</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$143,168	\$184,400	\$0	\$0	\$0	\$327,568

**Prior Legislation Action**  
Jun 2013, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Prospect Woods Pump Station Upgrade		
Project ID	10270160	CIP Number	10270160
Project Type	Pump Station Improvement/Elim	Sewer Number	6335

## Purpose and Justification

The existing pump station does not have redundant pumping or back up power, and the wet well is deteriorated with the valves and wet well located in the same structure. The pump station experiences overflows due to the lack of back up power and redundant pumping. The force main and pump station were built in 1968, and have experienced failures twice over the past four years, requiring emergency repairs.

## Impact to Operating Budget

None

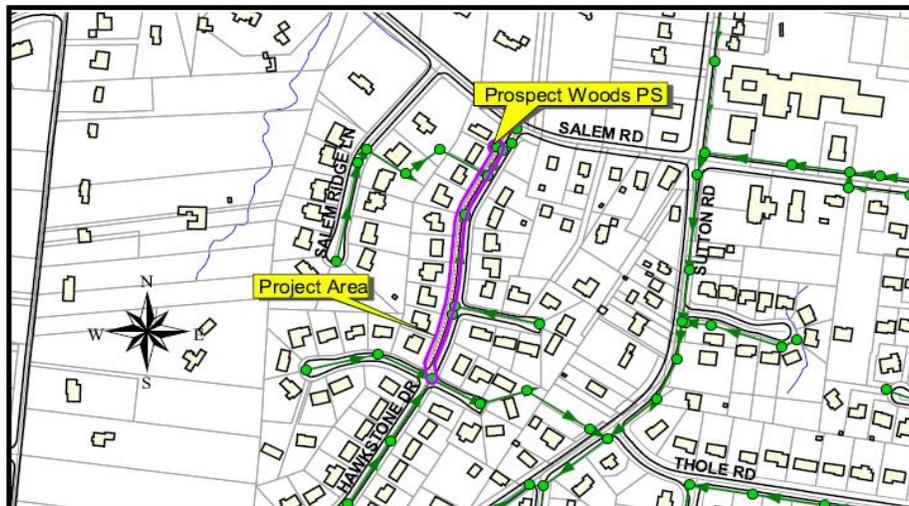
## Description and Location

The project consists of the installation of approximately 810 feet of new force main with the installation of a submersible pump station with back up power, redundant pumping, separate valve vault, pump float disconnect box, and a wet well. The pump station is to be moved across the street from the existing location to an open space owned by Anderson Township, as there is not space with in the existing easement. The project is located on Hawk Stone Drive in Anderson Township, within the California watershed and drainage basin served by the Little Miami WWTP.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$28,943	\$0	\$0	\$28,943
Design	\$102,500	\$102,500	\$0	\$0	\$102,500
Pre-Construction Services	\$45,200	\$45,200	\$0	\$0	\$45,200
Miscellaneous Expense	\$0	\$41,300	\$0	\$0	\$41,300
Right-of-Way	\$106,400	\$106,400	\$0	\$0	\$106,400
Construction	\$740,500	\$0	\$740,500	\$0	\$740,500
Program Management	\$0	\$3,356	\$0	\$0	\$3,356
Construction Services	\$114,037	\$0	\$114,037	\$0	\$114,037
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$1,108,637</b>	<b>\$327,699</b>	<b>\$854,537</b>	<b>\$0</b>	<b>\$1,182,236</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$327,699	\$854,537	\$0	\$0	\$0	\$1,182,236

**Prior Legislation Action**  
Jan 2014, May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Delta and Greist Sewer Replacement		
Project ID	10270165	CIP Number	10270165
Project Type	Sewer Replacement	Sewer Number	6593

## Purpose and Justification

The project is to replace pipe segments installed between 1895 and 1928, having served their useful life. The segments have fracturing and longitudinal cracking. The structural risk factors vary from medium to extreme and are not candidates for lining due to the structural condition and or capacity issues.

## Impact to Operating Budget

None

## Description and Location

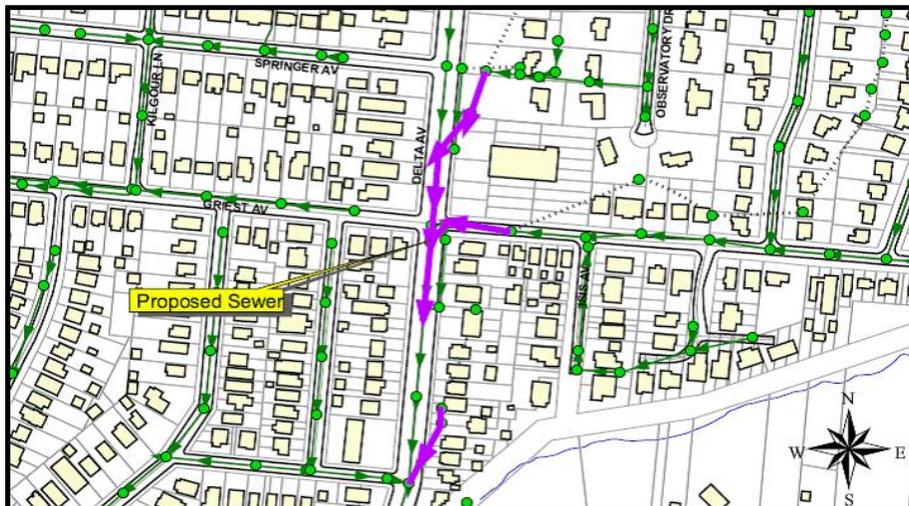
The project will replace 1,297 feet of pipe in the area of Delta Avenue and Grist Avenue. The project is located in the Mount Lookout area of Cincinnati in the Duck Creek watershed, in the City of Cincinnati, Hamilton County, Ohio

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$34,576	\$0	\$0	\$34,576
Design	\$145,500	\$0	\$145,500	\$0	\$145,500
Pre-Construction Services	\$68,500	\$0	\$68,500	\$0	\$68,500
Miscellaneous Expense	\$40,000	\$0	\$40,000	\$0	\$40,000
Right-of-Way	\$43,700	\$0	\$43,700	\$0	\$43,700
Construction	\$1,142,000	\$0	\$0	\$1,142,000	\$1,142,000
Program Management	\$0	\$3,939	\$0	\$0	\$3,939
Construction Services	\$51,600	\$0	\$0	\$51,600	\$51,600
Interest / Financing	\$14,300	\$0	\$0	\$14,300	\$14,300
<b>Total</b>	<b>\$1,505,600</b>	<b>\$38,515</b>	<b>\$297,700</b>	<b>\$1,207,900</b>	<b>\$1,544,115</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$297,700	\$0	\$0	\$1,207,900	\$0	\$1,544,115
	\$38,515					

## Prior Legislation Action

May 2014



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CSO 83 and 472 Dynamic Underflow Control		
Project ID	10270170	CIP Number	10270170
Project Type	CSO Improvement/Elim	Sewer Number	6594

## Purpose and Justification

This project will provide a cost effective strategy to reduce combined sewer overflows through operational controls. Additionally, this project will provide information to be used to support MSD's needs to collect data to comply with Federal Consent Decree, a desire to demonstrate water quality management at the lowest cost to taxpayers, and a goal to be on the forefront of water management practices.

## Impact to Operating Budget

MSD utilizes 0.75% of the construction budget to estimate annual operating costs for future revenue requirement projections. This impact is considered to begin two years after construction legislation.

## Description and Location

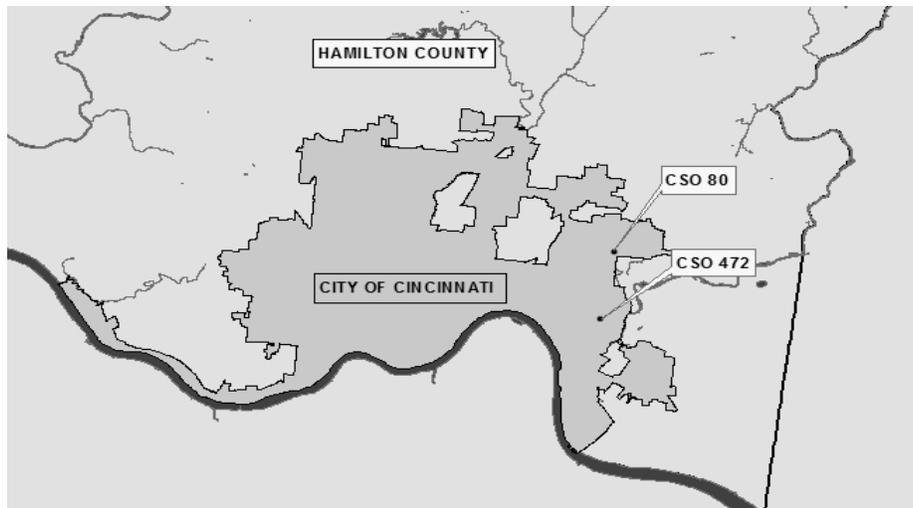
The project consists of modifications to CSO 83 and CSO 472 that will provide for an automated control of flow into the interceptor sewer. The proposed improvements consist of replacement of the underflow pipe, replacement of the regulator, addition of level sensors, and telemetry equipment. The project is located in the Little Miami basin in Linwood and Madisonville neighborhoods 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	\$267,000	\$392,025	\$77,000	\$0	\$469,025
Pre-Construction Services	\$72,000	\$0	\$72,000	\$0	\$72,000
Miscellaneous Expense	\$65,000	\$0	\$65,000	\$0	\$65,000
Right-of-Way	\$0	\$0	\$165,000	\$0	\$165,000
Construction	\$2,377,310	\$0	\$0	\$2,377,310	\$2,377,310
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$58,500	\$0	\$0	\$58,500	\$58,500
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$2,839,810</b>	<b>\$392,025</b>	<b>\$379,000</b>	<b>\$2,435,810</b>	<b>\$3,206,835</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total	
Prior Legislation	\$392,025	\$379,000	\$0	\$2,435,810	\$0	\$0	\$3,206,835

## Prior Legislation Action

Jan 2015, Mar 2015, Oct 2015, Dec 2015



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

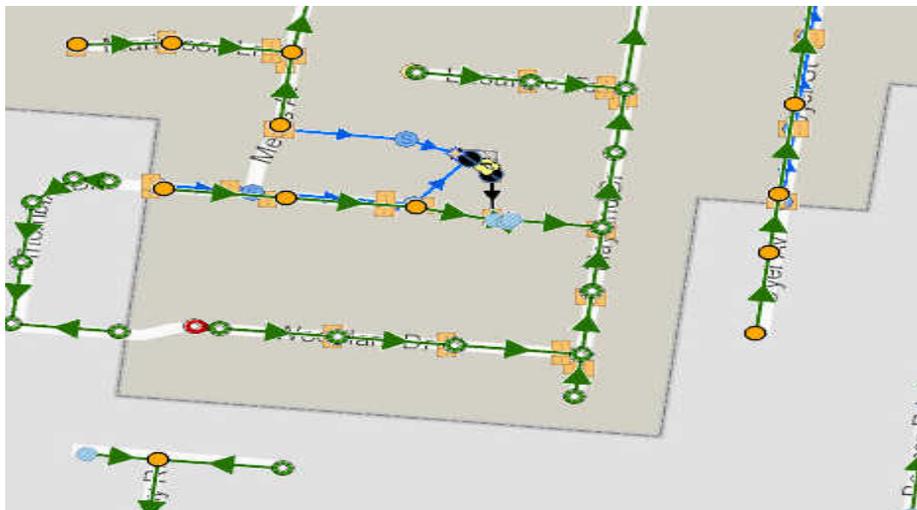
Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Mt Washington Source Control Pilot		
Project ID	10270205	CIP Number	10270205
Project Type	Source Control	Sewer Number	6612

<b>Purpose and Justification</b> The purpose of this project is to evaluate localized green infrastructure solution to assess and identify where the storm water is entering the combined system from individual properties and where re-routing me be beneficial to control the source of the water contributing to the CSO 182 basin specifically from Mayland, Woodlark, and Lusanne, as well as a larger basin study of CSO 182.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> The project will provide assessments of properties, along Mayland, Woodlark, and Lusanne, that have experienced significant sewage backups and require a source control solution. The affected properties are located in the Mt Washington neighborhood, City of Cincinnati, Hamilton County Ohio.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$0	\$0	\$300,000	\$0	\$300,000
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
<b>Total</b>	\$0	\$0	\$300,000	\$0	\$300,000

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$300,000	\$0	\$0	\$0	\$300,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	WWT System Asset Renewal 2017		
Project ID	10280187	CIP Number	10280187
Project Type	Allowance	Sewer Number	6595

## Purpose and Justification

This project will allow MSDGC to replace entire assets or portions of assets within the treatment facilities that are currently unable, or anticipated to be unable to meet their defined levels of service. This project is necessary to cost-effectively extend asset life while protecting and preserving public health and the environment.

## Impact to Operating Budget

None

## Description and Location

This project provides appropriated funds to replace improve wastewater treatment facility assets throughout the District using standardized condition assessment and reliability tools and methodologies. Defective assets, or portions of assets, will be discovered throughout the year either through preventive maintenance and the above mentioned condition assessment activities or after a 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	\$2,000,000	\$0	\$2,000,000	\$0	\$2,000,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$2,000,000</b>	<b>\$0</b>	<b>\$2,000,000</b>	<b>\$0</b>	<b>\$2,000,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$2,000,000	\$0	\$0	\$0	\$0	\$2,000,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Hydraulic Modeling 2017		
Project ID	10280237	CIP Number	10280237
Project Type	Allowance	Sewer Number	6596

<b>Purpose and Justification</b> This project will provide hydraulic, hydrologic, and treatment process modeling services to be used to support MSD's long-range planning needs, and to meet MSD's SSO and CSO monitoring requirements.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> 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	\$715,000	\$0	\$715,000	\$0	\$715,000
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
<b>Total</b>	<b>\$715,000</b>	<b>\$0</b>	<b>\$715,000</b>	<b>\$0</b>	<b>\$715,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$715,000	\$0	\$0	\$0	\$715,000

**Prior Legislation Action**



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Centralized Grit Handling & Processing Facility		
Project ID	10280510	CIP Number	10280510
Project Type	Treatment Facility	Sewer Number	6597

## Purpose and Justification

This project will evaluate options for a developing centralized approach to grit handling operations. The District's operating divisions currently process grit-based materials via dewatering and mixing with bulking agents prior to landfill disposal. The District is in need of a cost effective means for grit handling processes. Current methods are costly and generator odors impacting local residents.

## Impact to Operating Budget

None

## Description and Location

The Wastewater Treatment Division has a need to address scum, skimmings, and floatable materials that are transported to the Mill Creek WWTP for processing prior to landfill disposal. The Wastewater Collection Division has a need to address sewer cleaning debris and hydro-excavating slurry that are transported to the Galbraith Road Facility for processing prior to landfill disposal. This planning project will evaluate the alternatives associated with constructing a centralized grit handling facility.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$200,000	\$0	\$200,000	\$0	\$200,000
Design	\$0	\$0	\$0	\$1,162,600	\$1,162,600
Pre-Construction Services	\$0	\$0	\$0	\$378,900	\$378,900
Miscellaneous Expense	\$0	\$0	\$0	\$117,900	\$117,900
Right-of-Way	\$0	\$0	\$0	\$825,300	\$825,300
Construction	\$0	\$0	\$0	\$18,944,400	\$18,944,400
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$4,530,400	\$4,530,400
Interest / Financing	\$0	\$0	\$0	\$655,800	\$655,800
<b>Total</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$26,615,300</b>	<b>\$26,815,300</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$200,000	\$2,484,700	\$0	\$0	\$26,815,300

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Building Sewer Renewal Program 2017		
Project ID	10280607	CIP Number	10280607
Project Type	Allowance	Sewer Number	6598

## Purpose and Justification

The Building Sewer Renewal Program allowance is intended to fund the structural renewal and repair of the portion of privately owned building sewers located within the public right-of-way or within dedicated main sewer easements consistent with Section 2008 of MSD's Rules and Regulations.

## Impact to Operating Budget

None

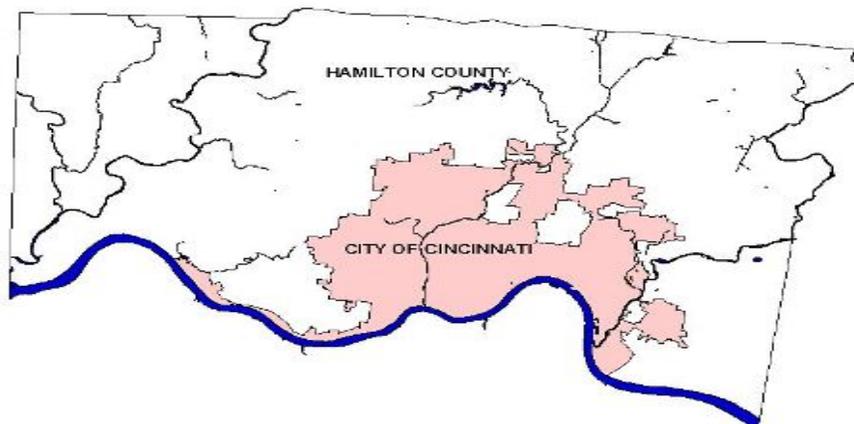
## Description and Location

This program is necessary to cost effectively extend asset life while protecting and preserving public health and the environment. This program allows MSD to quickly and efficiently restore and maintain interrupted service while mitigating the risk of additional damages or losses. The scope of work for the program will include resolving emergency sewer repairs such as cave-ins, structurally failed building sewers, sewer overflows that may violate permits and regulations, and imminent danger to structures or real property. The scope of this project will also include all planned work associated with inspection port installations and rehabilitation of privately-owned building sewers within the public right-of-way or dedicated public sewer easements.

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	\$4,750,000	\$0	\$4,750,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$250,000	\$0	\$250,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$5,000,000	\$0	\$5,000,000

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$5,000,000	\$0	\$0	\$0	\$5,000,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Water Quality Program 2017		
Project ID	10280617	CIP Number	10280617
Project Type	Allowance	Sewer Number	6599

## Purpose and Justification

1.) Final Calibration of the Mill Creek Water Quality Model. The model will be constructed in Fall 2016. The water quality sampling was performed in 2015-2016. the final step is the calibration of the model. This includes integration with the SSO 700 IWAP water quality Model. 2.) Water Quality Sampling in Little Miami Basin. The model will be constructed for the Little Miami river in Fall 2016. The instream instream chemical specific and biological monitoring will be conducted for Little Miami basin in 2017. In conjunction with this it is necessary to collect additional sampling to develop the water quality model.

## Impact to Operating Budget

None

## Description and Location

The finalization of the Mill Creek Water Quality Model will allow for the evaluation of the WQ impacts of sewer separations and Green Infrastructure. The impacts of Butler County discharges will be evaluated to determine if Water Quality Use Attainment Goals can be met by improvements in Hamilton County.

Cost Description	Original Project Estimate	Prior Legislation	Current Legislation	Future Legislation	Current Project Estimate
Planning	\$485,000	\$0	\$485,000	\$0	\$485,000
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
<b>Total</b>	<b>\$485,000</b>	<b>\$0</b>	<b>\$485,000</b>	<b>\$0</b>	<b>\$485,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$485,000	\$0	\$0	\$0	\$485,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Facilities Asset Management Projects 2017		
Project ID	10280717	CIP Number	10280717
Project Type	Allowance	Sewer Number	6600

## Purpose and Justification

The purpose of the Facilities Asset Management Projects allowance is to provide MSD with an expeditious means of addressing infrastructure and other asset failures in advance of catastrophic failure when possible. This allowance utilizes district wide condition reports, field data, studies and other analyses in coordination with in-house engineering to provide MSD with a rapid means to address failing roofs, roadways, other unforeseen capital needs that require little or no design, that are needed sooner than the normal CIP project process allows, and are of significantly less cost than a typical standalone CIP project.

## Impact to Operating Budget

None

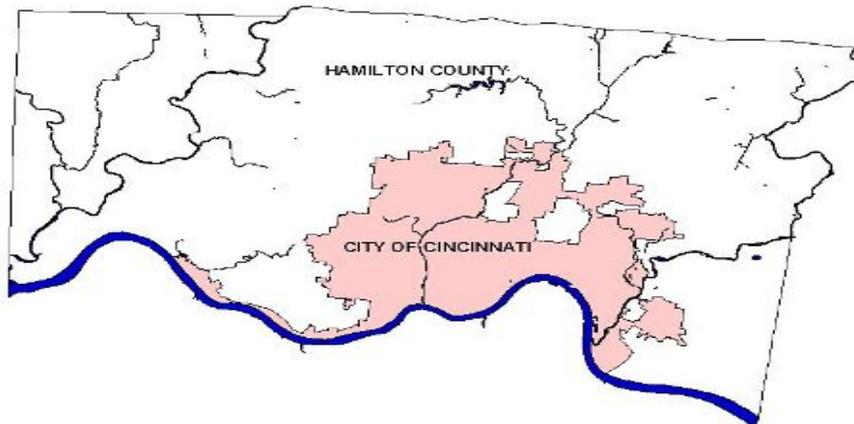
## Description and Location

This allowance serves as an annual "budget" from which smaller expenditures will be made as the need arises. To manage this allowance, MSD will maintain a risk-based prioritized list of proposed expenditures that will be updated as needs arise and seek legislative approval according to established thresholds.

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	\$2,500,000	\$0	\$2,500,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$2,500,000	\$0	\$2,500,000

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$2,500,000	\$0	\$0	\$0	\$0	\$2,500,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Wet Weather Facilities Asset Renewal 2017		
Project ID	10280917	CIP Number	10280917
Project Type	Allowance	Sewer Number	6601

## Purpose and Justification

The funding provided by this project will allow MSDGC to replace entire assets or portions of assets within the wet weather facilities that are currently unable, or anticipated to be unable to meet their defined operational goals. This project is necessary to cost-effectively extend asset life while protecting and preserving public health and the environment.

## Impact to Operating Budget

None

## Description and Location

This project provides appropriated funds to replace or improve wet weather facility assets throughout the District using condition assessment and reliability tools and methodologies. Defective assets, or portions of assets, will be discovered throughout the year either through preventative maintenance, condition assessment activities, or after a 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	\$750,000	\$0	\$750,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$0	\$0	\$0
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	\$0	\$0	\$750,000	\$0	\$750,000

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$750,000	\$0	\$0	\$0	\$0	\$750,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	Prioritized Wastewater Collection System Improvements 2017		
Project ID	10281317	CIP Number	10281317
Project Type	Allowance	Sewer Number	6602

## Purpose and Justification

This Prioritized WWC System Improvements allowance will allow the District to respond to sudden, unexpected wastewater collection system failures, complete planned repairs and improvements to high risk utility-owned assets, and complete prioritized system improvements through construction coordination projects to maintain acceptable levels of service at the lowest asset life-cycle cost.

## Impact to Operating Budget

None

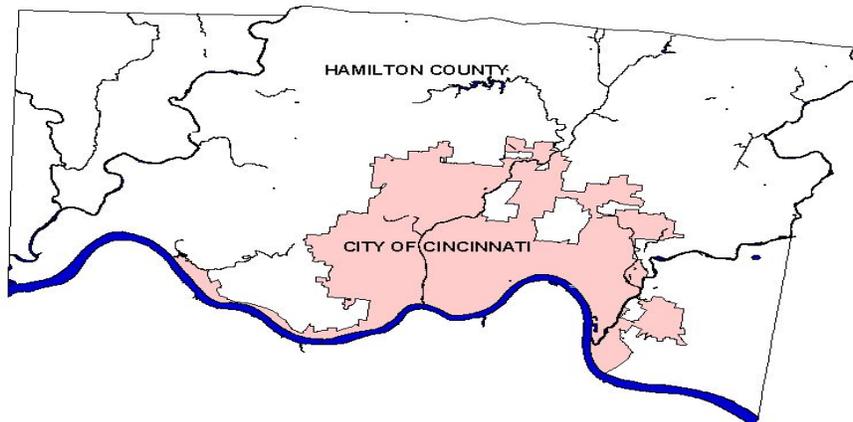
## Description and Location

This program will allow the District to respond to sudden, unexpected wastewater collection system failures, complete planned repairs and improvements to high risk utility-owned assets, and complete prioritized system improvements through construction coordination projects to maintain acceptable levels of service at the lowest asset life-cycle cost. This program represents a consolidation of the former "Emergency Sewer" and "High Risk Asset Renewal" Asset Management allowances.

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	\$12,000,000	\$0	\$11,500,000	\$0	\$11,500,000
Program Management	\$0	\$0	\$0	\$0	\$0
Construction Services	\$0	\$0	\$500,000	\$0	\$500,000
Interest / Financing	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$12,000,000</b>	<b>\$0</b>	<b>\$12,000,000</b>	<b>\$0</b>	<b>\$12,000,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$0	\$0	\$0	\$0	\$0
	\$12,000,000	\$0	\$0	\$0	\$0	\$12,000,000

## Prior Legislation Action



# 2017 Capital Budget and Capital Improvement Program

Monday, August 15, 2016

Department	Metropolitan Sewer District of Greater Cincinnati		
Project Title	CIP Project Planning 2017		
Project ID	10282017	CIP Number	10282017
Project Type	Allowance	Sewer Number	6603

<b>Purpose and Justification</b> This project will provide capital funding to support planning CIP projects.	<b>Impact to Operating Budget</b> None
	<b>Description and Location</b> 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	\$3,300,000	\$0	\$3,300,000	\$0	\$3,300,000
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
<b>Total</b>	<b>\$3,300,000</b>	<b>\$0</b>	<b>\$3,300,000</b>	<b>\$0</b>	<b>\$3,300,000</b>

Projected Legislation Dates	2017	2018	2019	2020	2021	Project Total
Prior Legislation	\$0	\$3,300,000	\$0	\$0	\$0	\$3,300,000

**Prior Legislation Action**





## 2018 CIP

### Metropolitan Sewer District of Greater Cincinnati

### WWIP Projects

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10140400	WWIP	SEP	Lockland Sewer Separation (Design,Easement)	\$2,011,000	\$0	\$2,011,000
10141160	WWIP	SSO	Reading Rd & Losantiville Rd (Design)	\$449,000	\$0	\$449,000
10170810	WWIP	FAC	LMWWTP Electrical Feeders (Design)	\$859,000	\$0	\$859,000
10170812	WWIP	FAC	Little Miami WWTP Electrical and Disinfection Improvements (Design)	\$1,575,900	\$0	\$1,575,900
10180118	WWIP	ALW	Main Sewer Renewal Program2018 (Construction)	\$12,000,000	\$0	\$12,000,000
10180218	WWIP	ALW	Manhole Renewal Program 2018 (Construction)	\$1,300,000	\$0	\$1,300,000
10190318	WWIP	ALW	Home Sewer Treatment System Eliminations 2018 (Planning)	\$220,000	\$0	\$220,000
10199018	WWIP	ALW	Wet Weather Program Management and Support Services 2018 (Design)	\$3,500,000	\$0	\$3,500,000
10199118	WWIP	ALW	Hamilton County Utility Oversight and Coordination 2018 (Design)	\$2,700,000	\$0	\$2,700,000
10310005	WWIP	LOC	Bridgetown Road Local Sewer (HNs 8477-8647) (Construction)	\$501,100	\$0	\$501,100
10320012	WWIP	LOC	Parrakeet Drive Local Sewer (HNs 6002-6068) (Construction)	\$266,100	\$0	\$266,100
10320060	WWIP	LOC	Mapleknoll Drive Local Sewer (HNs 9420-9562) (Construction)	\$302,100	\$0	\$302,100
10320085	WWIP	LOC	Brierly Creek Road Local Sewer (HNs 6040-6100) (Construction)	\$181,900	\$0	\$181,900
10330006	WWIP	LOC	Devils Backbone Road Sewer Local (HN 1234 & 1250) (Construction)	\$262,500	\$0	\$262,500
10370032	WWIP	LOC	Coldstream Drive & Asbury Road Local Sewer (Construction)	\$3,316,900	\$0	\$3,316,900
10370050	WWIP	LOC	Stewart Road Local Sewer (HNs 5706 - 5710) (Construction)	\$140,600	\$0	\$140,600
10430020	WWIP	LAT	Foley Road Sewer Laterals (HNS 5579, 5583 - 5599, 5602) (Construction)	\$31,400	\$0	\$31,400
10470040	WWIP	LAT	Rambling Hills Drive Sewer Lateral Assessment (HN 1307) (Design,Construction)	\$52,000	\$0	\$52,000
11042801	WWIP	SRC	North Fairmount Bioswale Project (Construction)	\$381,000	\$0	\$381,000
11142745	WWIP	SEP	CSO 488 Strategic Sewer Separation Phase A (Construction)	\$6,398,850	\$0	\$6,398,850
<b>Total Cost for 20 WWIP Projects in 2018</b>				<b>\$36,449,350</b>	<b>\$0</b>	<b>\$36,449,350</b>

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2018 CIP**

**Metropolitan Sewer District of Greater Cincinnati**

**OTHER Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$10,000,000	\$0	\$10,000,000
<b>Total Cost for 1 OTHER Projects in 2018</b>				<b>\$10,000,000</b>	<b>\$0</b>	<b>\$10,000,000</b>

DRAFT

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



## 2018 CIP

# Metropolitan Sewer District of Greater Cincinnati

## ASSET Projects

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10221245	AM	FAC	Taylor Creek WWTP Disinfection Upgrade (Construction)	\$1,172,000	\$0	\$1,172,000
10230130	AM	REP	Dry Weather Channel for SS 937 (Construction)	\$3,534,000	\$0	\$3,534,000
10230135	AM	SSO	Lower Muddy Creek Interceptor SSO Remediation (Construction)	\$6,101,600	\$0	\$6,101,600
10230150	AM	REP	Addyston Creek and Sewer Rehab (Construction)	\$474,200	\$0	\$474,200
10240180	AM	REP	3934 Winding Way Sewer Replacement (Design,Construction)	\$319,500	\$0	\$319,500
10240325	AM	PSE	Glen Landing Pump Station Improvements (Construction)	\$182,200	\$0	\$182,200
10240330	AM	REP	Otte Avenue Sewer Replacement (Construction)	\$485,700	\$0	\$485,700
10240470	AM	PSE	Bahama Gardens Pump Station Upgrade and Force Main Replacement (Construction)	\$519,100	\$0	\$519,100
10240610	AM	FAC	MCWWTP Primary Sludge Pumping Improvements (Design)	\$1,494,300	\$0	\$1,494,300
10240625	AM	FAC	MCWWTP Standby Power Distribution System Improvements (Design)	\$357,100	\$0	\$357,100
10240660	AM	FAC	Mill Creek WWTP Gravity Thickeners Odor Control (Design,Construction)	\$926,803	\$0	\$926,803
10240697	AM	FAC	Mill Creek 4.16 kV & 13.2 kV Loop Improvements (Design)	\$164,000	\$0	\$164,000
10241820	AM	FAC	SSO 700 Facility Improvements (Construction)	\$7,974,300	\$0	\$7,974,300
10260025	AM	PSE	South Clippinger Force Main Replacement and Pump Station Upgrade (Construction)	\$980,700	\$0	\$980,700
10270110	AM	REP	Linwood Avenue Sewer Replacement (Construction)	\$799,422	\$0	\$799,422
10270125	AM	REP	Portsmouth Avenue Sewer Replacement (Construction)	\$351,500	\$0	\$351,500
10270145	AM	REP	Columbia Parkway at Delta Sewer Replacement (Construction)	\$299,000	\$0	\$299,000
10270155	AM	REP	Paxton Avenue Sewer Rehabilitation (Design,Easement)	\$332,600	\$0	\$332,600
10270175	AM	REP	East Hill Ave Sewer Replacement (Construction)	\$1,465,500	\$0	\$1,465,500
10270195	AM	FAC	Little Miami WWTP Incineration Improvements (Construction)	\$19,243,400	\$0	\$19,243,400
10280188	AM	ALW	WWT System Asset Renewal 2018 (Construction)	\$2,060,000	\$0	\$2,060,000
10280238	AM	ALW	Hydraulic Modeling 2018 (Planning)	\$1,000,000	\$0	\$1,000,000

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2018 CIP**  
**Metropolitan Sewer District of Greater Cincinnati**  
**ASSET Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10280510	AM	FAC	Centralized Grit Handling & Processing Facility (Design,Easement)	\$2,484,700	\$0	\$2,484,700
10280608	AM	ALW	Building Sewer Renewal Program 2018 (Construction)	\$5,000,000	\$0	\$5,000,000
10280618	AM	ALW	Water Quality Program 2018 (Planning)	\$555,000	\$0	\$555,000
10280718	AM	ALW	Facilities Asset Management Projects 2018 (Construction)	\$2,580,000	\$0	\$2,580,000
10280918	AM	ALW	Wet Weather Facilities Asset Renewal 2018 (Construction)	\$1,000,000	\$0	\$1,000,000
10281318	AM	ALW	Prioritized Wastewater Collection System Improvements 2018 (Construction)	\$12,000,000	\$0	\$12,000,000
10282018	AM	ALW	CIP Project Planning 2018 (Planning)	\$3,400,000	\$0	\$3,400,000
12230045	AM	STY	Stonebridge Apartments Sewer Replacement (Design,Easement)	\$244,300	\$0	\$244,300
<b>Total Cost for 30 ASSET Projects in 2018</b>				<b>\$77,500,925</b>	<b>\$0</b>	<b>\$77,500,925</b>
<b>Grand Totals for 51 Projects in 2018</b>				<b>\$123,950,275</b>	<b>\$0</b>	<b>\$123,950,275</b>

DRAFT

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



## 2019 CIP

### Metropolitan Sewer District of Greater Cincinnati

### WWIP Projects

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10130161	WWIP	PSE	Muddy creek PSU & Force Main (Design)	\$606,500	\$0	\$606,500
10131001	WWIP	STY	East Branch Muddy Creek Bundle Planning (Planning)	\$5,000,000	\$0	\$5,000,000
10170816	WWIP	FAC	Little Miami WWTP Main Outfall Improvements (Construction)	\$138,300	\$0	\$138,300
10171540	WWIP	REG	CSO 135 Elimination (Design,Easement)	\$88,000	\$0	\$88,000
10171560	WWIP	REG	CSO 43 Elimination (Design)	\$80,900	\$0	\$80,900
10171641	WWIP	SEP	CSO 214 Partial Separation (Design,Easement)	\$1,112,800	\$0	\$1,112,800
10171761	WWIP	SEP	CSO 552 Stormwater Removal (Design,Easement)	\$889,100	\$0	\$889,100
10180119	WWIP	ALW	Main Sewer Renewal Program 2019 (Construction)	\$13,000,000	\$0	\$13,000,000
10180219	WWIP	ALW	Manhole Renewal Program 2019 (Construction)	\$1,300,000	\$0	\$1,300,000
10190319	WWIP	ALW	Home Sewer Treatment System Eliminations 2019 (Planning)	\$230,000	\$0	\$230,000
10199019	WWIP	ALW	Wet Weather Program Management and Support Services 2019 (Design)	\$3,500,000	\$0	\$3,500,000
10199119	WWIP	ALW	Hamilton County Utility Oversight and Coordination 2019 (Design)	\$2,700,000	\$0	\$2,700,000
10320056	WWIP	LOC	Ramblingridge Drive & Twinwillow Lane Local Sewer (Construction)	\$3,243,000	\$0	\$3,243,000
11130015	WWIP	STY	Muddy Creek Watershed IWAP (Planning)	\$1,000,000	\$0	\$1,000,000
11142741	WWIP	SEP	CSO 488 490 I-75 Reconstruction Coordination (Construction)	\$1,613,000	\$0	\$1,613,000
11242846	WWIP	SEP	CSO 12 Sewer Separation Phase A.4b - Colerain to Spring Grove Avenue (Construction)	\$7,085,100	\$0	\$7,085,100
11530000	WWIP	REP	Upper Muddy Creek Interceptor Replacement (Construction)	\$13,367,800	\$0	\$13,367,800
11530001	WWIP	REP	Upper Muddy Creek Interceptor Replacement Contract A (Construction)	\$1,352,100	\$0	\$1,352,100
11540010	WWIP	REP	Mt Airy Receiving Sewer Upgrade (Construction)	\$2,819,650	\$0	\$2,819,650
<b>Total Cost for 19 WWIP Projects in 2019</b>				<b>\$59,126,250</b>	<b>\$0</b>	<b>\$59,126,250</b>

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2019 CIP**  
**Metropolitan Sewer District of Greater Cincinnati**  
**OTHER Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$10,000,000	\$0	\$10,000,000
<b>Total Cost for 1 OTHER Projects in 2019</b>				<b>\$10,000,000</b>	<b>\$0</b>	<b>\$10,000,000</b>

DRAFT

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



## 2019 CIP

# Metropolitan Sewer District of Greater Cincinnati

## ASSET Projects

<u>Project ID</u>	<u>CIP Type</u>	<u>Project Type</u>	<u>Project Name</u>	<u>MSD</u>	<u>Other</u>	<u>Total</u>
10240320	AM	REP	Wilder Avenue Sewer Replacement (Construction)	\$342,900	\$0	\$342,900
10240420	AM	REP	Freeland Avenue Area Sewer Replacement (Construction)	\$96,400	\$0	\$96,400
10240426	AM		Pleasant Run Central Force Main Improvements (Planning,Design,Easement)	\$1,087,300	\$0	\$1,087,300
10240445	AM	REP	Colton Lane Sewer Replacement (Design)	\$88,100	\$0	\$88,100
10240495	AM	REP	Wahl Terrace Sewer Replacement (Construction)	\$484,100	\$0	\$484,100
10240500	AM	REP	Yoast Avenue Sewer Improvements (Construction)	\$134,300	\$0	\$134,300
10240560	AM	REP	Schulte Drive Sewer Replacement (Construction)	\$409,100	\$0	\$409,100
10240610	AM	FAC	MCWWTP Primary Sludge Pumping Improvements (Construction)	\$22,519,200	\$0	\$22,519,200
10240625	AM	FAC	MCWWTP Standby Power Distribution System Improvements (Construction)	\$2,790,000	\$0	\$2,790,000
10240630	AM	FAC	MCWWTP Raw Sewage Pump Station Pump Replacement (Design)	\$4,307,000	\$0	\$4,307,000
10240640	AM	FAC	MCWWTP Biosolids Dewatering Facility Addition (Planning,Design)	\$4,297,100	\$0	\$4,297,100
10240697	AM	FAC	Mill Creek 4.16 kV & 13.2 kV Loop Improvements (Construction)	\$670,000	\$0	\$670,000
10240705	AM	REP	Spring Grove at Clifton Sewer Abandonment (Construction)	\$41,000	\$0	\$41,000
10241900	AM	REG	Mill Creek CSO Dynamic Underflow Control Improvements (Planning,Design)	\$881,000	\$0	\$881,000
10250040	AM	FAC	Polk Run WWTP Effluent Pumping Improvements (Design)	\$259,600	\$0	\$259,600
10270026	AM	PSE	Camargo Canyon Pump Station Elimination (Construction)	\$611,600	\$0	\$611,600
10270170	AM	CSO	CSO 83 and 472 Dynamic Underflow Control (Construction)	\$2,435,810	\$0	\$2,435,810
10270185	AM	REP	Paxton Ave at Linwood Ave Sewer Replacement (Construction)	\$275,100	\$0	\$275,100
10280122.38	AM	REP	Morrison Avenue Sewer Replacement (Design)	\$75,000	\$0	\$75,000
10280189	AM	ALW	WWT System Asset Renewal 2019 (Construction)	\$2,120,000	\$0	\$2,120,000
10280239	AM	ALW	Hydraulic Modeling 2019 (Planning)	\$1,000,000	\$0	\$1,000,000
10280502	AM	REG	District-Wide Regulator Control Enhancements (Design)	\$500,000	\$0	\$500,000
10280505	AM	PSE	Pump Station Telemetry System Upgrades (Construction)	\$3,000,000	\$0	\$3,000,000

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2019 CIP**  
**Metropolitan Sewer District of Greater Cincinnati**  
**ASSET Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10280609	AM	ALW	Building Sewer Renewal Program 2019 (Construction)	\$6,000,000	\$0	\$6,000,000
10280619	AM	ALW	Water Quality Program 2019 (Planning)	\$200,000	\$0	\$200,000
10280719	AM	ALW	Facilities Asset Management Projects 2019 (Construction)	\$2,650,000	\$0	\$2,650,000
10280919	AM	ALW	Wet Weather Facilities Asset Renewal 2019 (Construction)	\$1,000,000	\$0	\$1,000,000
10281319	AM	ALW	Prioritized Wastewater Collection System Improvements 2019 (Construction)	\$13,000,000	\$0	\$13,000,000
10282019	AM	ALW	CIP Project Planning 2019 (Planning)	\$3,400,000	\$0	\$3,400,000
12240010	AM	REP	Ledgewood Ave Sewer Replacement (Design)	\$75,000	\$0	\$75,000
12240035	AM	REP	911 McPherson Avenue Sewer Replacement (Design)	\$330,000	\$0	\$330,000
12240060	AM	REP	Davey Avenue Sewer Replacement (Design)	\$225,000	\$0	\$225,000
12240345	AM	REP	Mandarin Court Sewer Replacement (Design)	\$270,000	\$0	\$270,000
<b>Total Cost for 33 ASSET Projects in 2019</b>				<b>\$75,574,610</b>	<b>\$0</b>	<b>\$75,574,610</b>
<b>Grand Totals for 53 Projects in 2019</b>				<b>\$144,700,860</b>	<b>\$0</b>	<b>\$144,700,860</b>

DRAFT

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



## 2020 CIP

### Metropolitan Sewer District of Greater Cincinnati

### WWIP Projects

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10130020	WWIP	REP	Muddy Creek Interceptor Rehabilitation (Planning)	\$300,000	\$0	\$300,000
10130280	WWIP	PSE	Addyston Pump Station Elimination (Design,Easement)	\$483,200	\$0	\$483,200
10142640	WWIP	SEP	Vine St Div Dam (Planning,Design,Easement)	\$464,000	\$0	\$464,000
10142720	WWIP	SEP	64th Street Div Dam (Planning,Design,Easement)	\$443,700	\$0	\$443,700
10142980	WWIP	SEP	Clifton Ave West Grating (Planning,Design,Easement)	\$299,400	\$0	\$299,400
10171010	WWIP	STY	Middle Duck Creek Area Watershed Planning (Planning)	\$5,000,000	\$0	\$5,000,000
10171261	WWIP	SEP	CSO 61 Partial Separation (Planning,Design,Easement)	\$738,500	\$0	\$738,500
10171521	WWIP	SEP	CSO 503 Partial Separation (Planning,Design)	\$606,000	\$0	\$606,000
10180120	WWIP	ALW	Main Sewer Renewal Program 2020 (Construction)	\$13,000,000	\$0	\$13,000,000
10180220	WWIP	ALW	Manhole Renewal Program 2020 (Construction)	\$1,300,000	\$0	\$1,300,000
10190320	WWIP	ALW	Home Sewer Treatment System Eliminations 2020 (Planning)	\$240,000	\$0	\$240,000
10199020	WWIP	ALW	Wet Weather Program Management and Support Services 2020 (Design)	\$3,500,000	\$0	\$3,500,000
10199120	WWIP	ALW	Hamilton County Utility Oversight and Coordination 2020 (Design)	\$2,700,000	\$0	\$2,700,000
10340021	WWIP	LOC	Carpol Avenue, Honeywell Avenue & E. Kemper Road Local Sewer (Construction)	\$2,044,700	\$0	\$2,044,700
10370025	WWIP	LOC	Kenwood Hills Local Sewer (Construction)	\$3,552,301	\$0	\$3,552,301
11142750	WWIP	SEP	Brent Spence Bridge I-75 Reconstruction Coordination (Design)	\$500,000	\$0	\$500,000
<b>Total Cost for 16 WWIP Projects in 2020</b>				<b>\$35,171,801</b>	<b>\$0</b>	<b>\$35,171,801</b>

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2020 CIP**

**Metropolitan Sewer District of Greater Cincinnati**

**OTHER Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$10,000,000	\$0	\$10,000,000
<b>Total Cost for 1 OTHER Projects in 2020</b>				<b>\$10,000,000</b>	<b>\$0</b>	<b>\$10,000,000</b>

DRAFT

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



## 2020 CIP

### Metropolitan Sewer District of Greater Cincinnati

### ASSET Projects

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10221224	AM	SEW	Wesselman Road Sewer Phase 2A Contract 3 (Construction)	\$2,174,000	\$0	\$2,174,000
10221255	AM	PSE	TCWWTP (Wesselman) PS Improvements (Planning,Design)	\$397,100	\$0	\$397,100
10221260	AM	PSE	TCWWTP Main Drain PS Improvements (Planning,Design)	\$661,100	\$0	\$661,100
10230051	AM	FAC	Muddy Creek WWTP Influent Pumping (Planning,Design)	\$6,013,800	\$0	\$6,013,800
10230090	AM	PSE	Barrington Hills, Barrington Hills BLK. F, Gil Volz, and Kirkridge Acres P.S. Eliminations (Construction)	\$7,396,900	\$0	\$7,396,900
10230125	AM	PSE	East Branch Muddy Creek Pump Station Upgrades (Construction)	\$2,308,100	\$0	\$2,308,100
10230140	AM	SEP	Addyston Extraneous Stormwater Removal (Design,Easement)	\$748,800	\$0	\$748,800
10230625	AM	REG	Muddy Creek CSO Dynamic Underflow Control Improvements (Planning,Design)	\$897,500	\$0	\$897,500
10240271	AM	CSO	Lower Mill Creek HW DW Protection (Construction)	\$1,427,000	\$0	\$1,427,000
10240445	AM	REP	Colton Lane Sewer Replacement (Construction)	\$218,200	\$0	\$218,200
10240465	AM	REP	Hosea Street Sewer Replacement (Construction)	\$2,453,400	\$0	\$2,453,400
10240525	AM	REP	Victory Parkway Sewer Rehabilitation (Construction)	\$343,300	\$0	\$343,300
10240545	AM	REP	Central Parkway Sewer Replacement (HN 2402) (Construction)	\$342,300	\$0	\$342,300
10240655	AM	SEP	CSO 449 Sewer Separation (Construction)	\$555,400	\$0	\$555,400
10240675	AM	FAC	Mill Creek WWTP Thickening Chemical Feed Improvements (Planning,Design)	\$352,700	\$0	\$352,700
10250042	AM	FAC	Polk Run WWTP Admin Bldg Improvements (Planning,Design)	\$173,700	\$0	\$173,700
10260030	AM	PSE	Kugler Mill Pump Station Upgrade and Force Main Replacement (Design,Easement)	\$300,700	\$0	\$300,700
10270165	AM	REP	Delta and Greist Sewer Replacement (Construction)	\$1,207,900	\$0	\$1,207,900
10270190	AM	SEP	Columbia Square Development Separation (Construction)	\$280,700	\$0	\$280,700
10270200	AM		Little Miami CSO Dynamic Underflow Control Improvements (Planning,Design)	\$897,500	\$0	\$897,500
10280190	AM	ALW	WWT System Asset Renewal 2020 (Construction)	\$2,190,000	\$0	\$2,190,000
10280240	AM	ALW	Hydraulic Modeling 2020 (Planning)	\$1,000,000	\$0	\$1,000,000

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2020 CIP**  
**Metropolitan Sewer District of Greater Cincinnati**  
**ASSET Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10280610	AM	ALW	Building Sewer Renewal Program 2020 (Construction)	\$6,000,000	\$0	\$6,000,000
10280620	AM	ALW	Water Quality Program 2020 (Planning)	\$500,000	\$0	\$500,000
10280720	AM	ALW	Facilities Asset Management Projects 2020 (Construction)	\$2,730,000	\$0	\$2,730,000
10280920	AM	ALW	Wet Weather Facilities Asset Renewal 2020 (Construction)	\$1,000,000	\$0	\$1,000,000
10281320	AM	ALW	Prioritized Wastewater Collection System Improvements 2020 (Construction)	\$13,000,000	\$0	\$13,000,000
10282020	AM	ALW	CIP Project Planning 2020 (Planning)	\$3,400,000	\$0	\$3,400,000
12230045	AM	STY	Stonebridge Apartments Sewer Replacement (Construction)	\$806,600	\$0	\$806,600
12240500	AM	REP	Depot Street Sewer Evaluation (Design)	\$300,000	\$0	\$300,000
<b>Total Cost for 30 ASSET Projects in 2020</b>				<b>\$60,076,700</b>	<b>\$0</b>	<b>\$60,076,700</b>
<b>Grand Totals for 47 Projects in 2020</b>				<b>\$105,248,501</b>	<b>\$0</b>	<b>\$105,248,501</b>

DRAFT

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2021 CIP**  
**Metropolitan Sewer District of Greater Cincinnati**  
**WWIP Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10130002	WWIP	REP	Muddy Creek Conveyance Improvements (Design,Easement)	\$14,087,403	\$0	\$14,087,403
10130161	WWIP	PSE	Muddy creek PSU & Force Main (Construction)	\$5,049,761	\$0	\$5,049,761
10141010	WWIP	STY	Winton Lake Area Watershed Planning (Planning)	\$1,500,000	\$0	\$1,500,000
10142380	WWIP	REG	CSO 539 Improvements (Design,Easement)	\$700,000	\$0	\$700,000
10170813	WWIP	FAC	LMWWTP Preliminary Treatment Improvements (Design)	\$2,631,500	\$0	\$2,631,500
10171120	WWIP	REG	CSO 74 Improvements (Design)	\$80,000	\$0	\$80,000
10171540	WWIP	REG	CSO 135 Elimination (Construction)	\$380,500	\$0	\$380,500
10171560	WWIP	REG	CSO 43 Elimination (Construction)	\$380,500	\$0	\$380,500
10180121	WWIP	ALW	Main Sewer Renewal Program 2021 (Construction)	\$13,000,000	\$0	\$13,000,000
10180221	WWIP	ALW	Manhole Renewal Program 2021 (Construction)	\$1,300,000	\$0	\$1,300,000
10190321	WWIP	ALW	Home Sewer Treatment Systems Eliminations 2021 (Planning)	\$250,000	\$0	\$250,000
10199021	WWIP	ALW	Wet Weather Program Management and Support Services 2021 (Design)	\$3,500,000	\$0	\$3,500,000
10199121	WWIP	ALW	Hamilton County Utility Oversight and Coordination 2021 (Design)	\$2,700,000	\$0	\$2,700,000
11142750	WWIP	SEP	Brent Spence Bridge I-75 Reconstruction Coordination (Construction)	\$10,000,000	\$0	\$10,000,000
<b>Total Cost for 14 WWIP Projects in 2021</b>				<b>\$55,559,664</b>	<b>\$0</b>	<b>\$55,559,664</b>

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



**2021 CIP**

**Metropolitan Sewer District of Greater Cincinnati**

**OTHER Projects**

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
13090000	OTHER	PRG	Programmatic Contingency (Design)	\$10,000,000	\$0	\$10,000,000
<b>Total Cost for 1 OTHER Projects in 2021</b>				<b>\$10,000,000</b>	<b>\$0</b>	<b>\$10,000,000</b>

DRAFT

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.



## 2021 CIP

### Metropolitan Sewer District of Greater Cincinnati

### ASSET Projects

<b>Project ID</b>	<b>CIP Type</b>	<b>Project Type</b>	<b>Project Name</b>	<b>MSD</b>	<b>Other</b>	<b>Total</b>
10230054	AM	FAC	Muddy Creek WWTP Disinfection Upgrades (Planning,Design)	\$407,500	\$0	\$407,500
10240035	AM	FAC	Mill Creek WWTP Primary Grit Improvements (Design)	\$299,400	\$0	\$299,400
10240185	AM	PSE	Legends of Carpenters Run Pump Station Elimination (Construction)	\$294,500	\$0	\$294,500
10240630	AM	FAC	MCWWTP Raw Sewage Pump Station Pump Replacement (Construction)	\$86,552,800	\$0	\$86,552,800
10250040	AM	FAC	Polk Run WWTP Effluent Pumping Improvements (Construction)	\$1,742,500	\$0	\$1,742,500
10280191	AM	ALW	WWT System Asset Renewal 2021 (Construction)	\$2,250,000	\$0	\$2,250,000
10280241	AM	ALW	Hydraulic Modeling 2021 (Planning)	\$1,000,000	\$0	\$1,000,000
10280502	AM	REG	District-Wide Regulator Control Enhancements (Construction)	\$5,000,000	\$0	\$5,000,000
10280510	AM	FAC	Centralized Grit Handling & Processing Facility (Construction)	\$24,130,600	\$0	\$24,130,600
10280611	AM	ALW	Building Sewer Renewal Program 2021 (Construction)	\$7,000,000	\$0	\$7,000,000
10280621	AM	ALW	Water Quality Program 2021 (Planning)	\$500,000	\$0	\$500,000
10280721	AM	ALW	Facilities Asset Management Projects 2021 (Construction)	\$2,810,000	\$0	\$2,810,000
10280921	AM	ALW	Wet Weather Facilities Asset Renewal 2021 (Construction)	\$1,000,000	\$0	\$1,000,000
10281321	AM	ALW	Prioritized Wastewater Collection System Improvements 2021 (Construction)	\$14,000,000	\$0	\$14,000,000
10282021	AM	ALW	CIP Project Planning 2021 (Planning)	\$3,400,000	\$0	\$3,400,000
12240025	AM	REP	McHenry Avenue Sewer Replacement (Design)	\$250,000	\$0	\$250,000
12240265	AM	REP	Old Ludlow Ave R W Sewer Replacement (Design)	\$90,000	\$0	\$90,000
12240295	AM	REP	Reading Road - 12th St to E. Liberty St (Design)	\$60,000	\$0	\$60,000
<b>Total Cost for 18 ASSET Projects in 2021</b>				<b>\$150,787,300</b>	<b>\$0</b>	<b>\$150,787,300</b>
<b>Grand Totals for 33 Projects in 2021</b>				<b>\$216,346,964</b>	<b>\$0</b>	<b>\$216,346,964</b>

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 considerations. More detailed information will be presented to the public in early 2017 prior to the June 2017 Consent Decree Phase 2 Schedule Submittal to USEPA. Due to the evolving nature of these evaluations and their direct impact on future regulatory compliance, the high level information presented herein is for order of magnitude budget forecasting purposes only.