

FY2022

**Capital Improvement Plan
Overview Report**



July 8, 2021

Louisville MSD FY22 CIP Overview

DISCLAIMER: This document was prepared to provide a perspective of MSD's FY22-27 CIP. The overview is based upon the best available information as of June 2021. The projects included in this overview may shift among fiscal years; change in scope; or be replaced with higher priority needs. This document presents a reasonable representation of MSD's CIP. It adequately demonstrates the level of investment warranted for MSD's wastewater, stormwater, flood protection, and support systems assets. The costs presented in this document have been escalated to future dollars when appropriate.

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Executive Summary

The largest impact to the Louisville-Jefferson County Metropolitan Sewer District’s (MSD) proposed Capital Improvement Plan (CIP) was newly mandated requirements associated with the Consent Decree. The Fiscal Year 2022 (FY22) CIP includes a suite of projects included in the second amendment to MSD’s Consent Decree that is currently being formally approved by the federal and state regulators followed by the federal court. This report documents the series of events that led up to the second amendment and the new requirements added. In exchange for the time extensions for the remaining Consent Decree projects, the Regulators added specific remedial measures related to the Morris Forman Water Quality Treatment Center (WQTC), Paddy’s Run Flood Pump Station, critical sewers, and MSD’s system-wide wastewater asset management needs. These projects have been incorporated into the 5-year and long-term CIP forecast.

MSD has several programs requiring capital investment during FY22.

- Consent Decree Mandated and Support Projects
- Regulatory Projects – State Orders, Local Mandates
- Wastewater Asset Management
- Wastewater Regionalization and Development
- Stormwater Management Programs
- Support Systems Program

The MSD Board approved a suite projects supported by a 6.9% rate increase for FY22 on May 24, 2021. These projects were identified and vetted internally to confirm they are a high priority for MSD. A summary of the CIP by Service Area is provided in Table 1.

Table 1: FY22 Forecast by Service Area

Service Area	FY22 Forecast
Management Reserve (No area assigned)	\$ 17,400,000
Jefferson County	\$ 176,600,000
Olham County	\$ 6,700,000
Bullitt County	\$ 10,000
Grand Total	\$ 200,700,000

Note: Forecast estimates are rounded in each table as appropriate

For the purpose of CIP implementation, “Management Reserve” is defined as the difference between the approved CIP budget and the current forecasted spend for the FY. Management Reserve is intentionally included in the CIP to accommodate forecast changes, new projects identified, emergencies, and other unforeseen capital needs. Use of the Management Reserve requires approval by the CIP Management Team.

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The projects included in the FY22 CIP are part of a larger 5-year capital program that represents more than \$1B in infrastructure investment. Many of MSD's projects span multiple years and will continue spending beyond FY22, as well as beyond the 5-year CIP. This report provides an overview of the priorities MSD recommended be funded with the FY22 and 5-Year CIP.

Nearly 65 percent of the FY22 CIP is for regulatory mandates associated with the Consent Decree, Second Amendment to the Consent Decree, local regulatory Agreed Orders, and state issued Agreed Orders (refer to Figure 1).

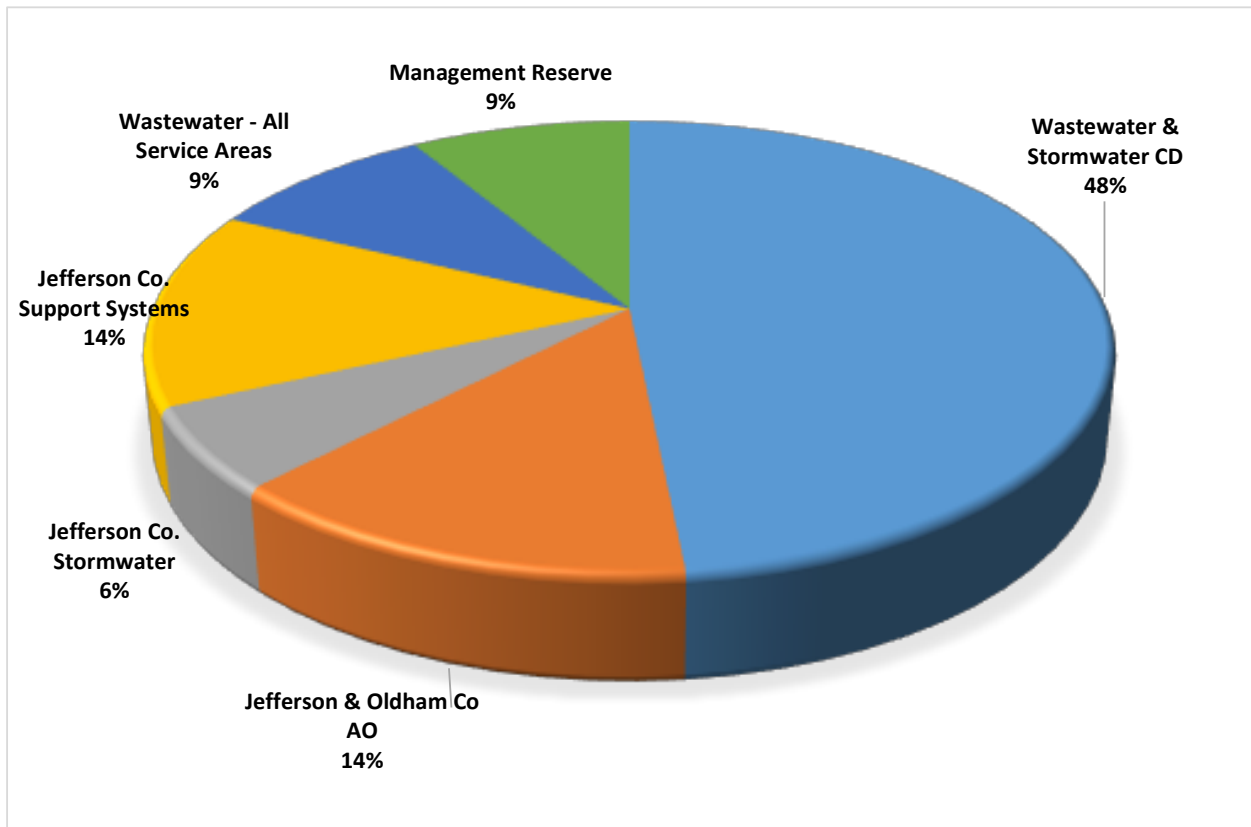


Figure 1: Summary of FY22 CIP By Program

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Development of the FY22 CIP

MSD developed a draft CIP for FY22 based upon evaluating the four concurrent data tracks shown in Figure 2. MSD's Finance Division provided annual spend targets based on two potential rate increase scenarios evaluated for FY22 (6.9% and 5%). Further discussion regarding the scenarios is presented in this document. The recommended budget was based on project estimates and schedules as of April 2021.

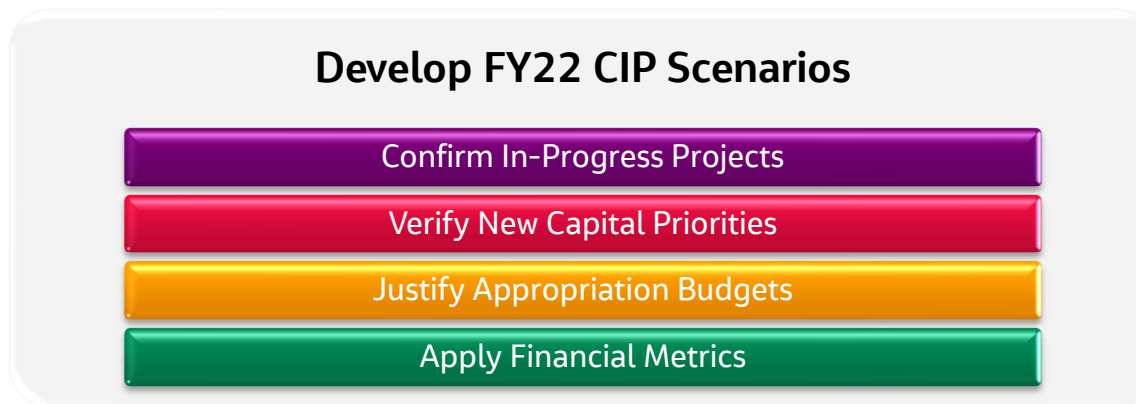


Figure 2: FY22 CIP Development Process Overview

In-Progress Projects

A project that is in a study phase, equipment being procured, as well as design or construction is considered "In Progress." MSD's projects tend to span multiple years from start through contractual completion. Many projects that are in progress now are forecasting future spend also. In fact, projects that are in progress during FY21 comprise over 50% of the FY22 CIP. The actuals and forecast for these projects may change due to additional schedule changes and the FY21 final expenditures – primarily for the largest projects, such as the Ohio River Tunnel and the Broadway Interceptor Rehabilitation.

New Capital Priorities

To determine the CIP needs beyond the in-progress work, the projects in the forecast were discussed with asset owners to confirm they remain of highest priority. Additional needs not previously considered were also identified and discussed.

A Working Group comprised of the Enterprise Program Manager, Project Controls, Planning, Operations, and Engineering staff, held a series of workshops to discuss capital priorities for FY22. The following CIP development meetings were held:

- Executive Leadership "Guardrail" Meeting – February 10, 2021
- Initial Coordination Meeting – March 2, 2021

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- Morris Forman WQTC CIP Workshop – March 4, 2021
- Wastewater Collection System CIP Workshop – March 9, 2021
- Flood Protection System Workshop – March 10, 2021
- Development & Regionalization CIP Workshop – March 11, 2021
- Stormwater/MS4 Program CIP Workshop – March 11, 2021
- Regional WQTCs CIP Workshop – March 18, 2021
- Additional One-on-One Meetings with Project and Appropriation Owners
- Additional Coordination Meetings with MSD's Chiefs
- Review and discussion of pertinent topics at multiple CIP Management Team Meetings

Financial Metrics

MSD Finance provided annual and 5-year CIP targets based on FY22 6.9% and 5% rate increases. A comparison of the financial targets for the CIP scenarios is presented in Table 2. The 5-Year CIP targets are based upon the most recent Financial Capability Analysis and the associated updates of MSD's rate model.

Table 2: Comparison of 5-Year CIP totals for Scenarios Considered (\$ millions)

Scenario	FY22 Rate Increase	FY22	FY23	FY24	FY25	FY26	5-Year
1	6.9%	\$201	\$192	\$228	\$232	\$201	\$1,052
2	5.0%	\$193	\$193	\$216	\$220	\$187	\$1,010

FY22 CIP Scenarios

Subsequent to the CIP development workshops, draft FY22 CIP preliminary scenarios were developed by the Enterprise Program Manager, Project Controls, and Planning staff. Both scenarios were based on the financial targets provided by the Chief Financial Officer (refer to Table 2).

1. Scenario 1: \$200.9M FY22

This scenario maximizes the amount of work MSD could deliver to address aging assets. New projects were prioritized based on: 1) new regulatory mandates associated with Consent Decree and the Integrated Overflow Abatement Plan (IOAP); 2) mitigating risk associated with the current condition of infrastructure; 3) regionalization of MSD's service area and adding more future customers; and 4) coordination with third parties on IT initiatives, shared services and green infrastructure.

2. Scenario 2: \$193.5M FY22

This scenario requires a \$7.5M reduction as compared to Scenario 1. While no projects were deferred, Management Reserve was reduced by more than 50% and major

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equipment and structure appropriations were cut by half in some cases. This scenario was subsequently abandoned and not developed further.

- Management Reserve reduced from \$6.3M to \$3M
- MFWQTC Equipment Replacement and Rehabilitation cut from \$5M to \$2.5M
- Flood Structures Rehabilitation reduced from \$2M to \$1M
- Regional WQTC Equipment Replacement and Rehabilitation cut from \$2M to \$1.5M

The scenarios revised after the March 23rd MSD’s CIP Management Team are presented in Table 3.

Table 3: Overview of FY22 CIP Scenarios by CIP Program as discussed in March (\$)

Service Type	FY22 Forecast by Scenario	
	1 (6.9%)	2 (5%)
Wastewater	135,055,721	132,033,277
Support Systems	27,023,679	27,023,679
Stormwater	23,523,085	22,523,085
Management Reserve	6,250,000	3,000,000
Oldham	8,080,362	8,080,362
Bullitt County	1,000,000	1,000,000
Total	200,932,849	193,660,405

The CIP Management Team directed the team to further evaluate Scenario 1 with regards to an implementation plan. Any projects that were at risk for moving forward were deferred to a future year or put on hold. The remaining gap between the target and the project forecasts was to be put towards the Management Reserve. For the purpose of CIP implementation, “Management Reserve” is defined as the difference between the approved CIP budget and the current forecasted spend for the FY. The forecasted spend is updated monthly based upon project-specific information provided by all PMs and supervisors.

The resulting recommended FY22 CIP of \$200.7M was presented to the Infrastructure Committee on May 12, 2021 and approved by the MSD Board on May 24, 2021. An “FY22 CIP Development” Notice of Advisement (NOA) will be prepared and approved in July. The NOA will document program and project changes made during the CIP planning efforts.

Final Budget Refresh

Final budget adjustments were made following the PM Portfolio Review meetings and the issuance of the June Available Funds Report. This allowed for the most up-to-date project information to be included in the FY22 final budget load into SAP and the Baseline Budget that will be utilized

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for performance metrics. All of the remaining sections of this report are based on the results of the final budget refresh (refer to Table 4).

Table 4: FY21 Baseline Forecast after Final Budget Refresh

Service Area	Service Type	Program Type	FY22 Forecast
Not Assigned	Management Reserve	Management Reserve	\$ 17,400,000
Jefferson	Stormwater	CD - SRP	\$ 5,430,000
		Drainage	\$ 5,180,000
		Floodplain Management	\$ 240,000
		Ohio River Flood Protection	\$ 4,300,000
		Stormwater Quality (MS4)	\$ 2,110,000
	Support Systems	Capital Equipment	\$ 15,000,000
		CMOM	\$ 150,000
		Facilities	\$ 8,770,000
		IT	\$ 3,880,000
		LOJIC	\$ 470,000
	Wastewater	CD - \$25M AM	\$ 42,200,000
		CD - Critical Sewer	\$ 18,800,000
		CD - IOAP Green Infrastructure	\$ 660,000
		CD - IOAP LTCP	\$ 18,900,000
		CD - IOAP SSDP	\$ 4,260,000
		CD - Specific Remedial Projects	\$ 3,740,000
		CD Support	\$ 3,200,000
		CMOM	\$ 1,100,000
		Development	\$ 13,900,000
Facilities		\$ 1,500,000	
Regulatory - State & Local Orders	\$ 22,800,000		
Bullitt	Wastewater	CMOM	\$ 10,000
Oldham	Wastewater	Regulatory - State & Local Orders	\$ 4,900,000
		CMOM	\$ 1,800,000
Total			\$ 200,700,000

Cashflow Forecast Tool

MSD continues to use its cashflow forecast tool to maintain an evolving forecast for the entire FY as project estimates and schedules change. There are several additional factors that help refine this forecast including the “spend geometry”, escalation, lifetime actuals. The forecast also makes assumptions regarding the length of the design and construction phases. A series of mathematical formulas produces the Baseline Budget forecast by month, and the performance of the capital program against Baseline Budget is measured by the invoices paid (actuals) each month throughout the year.

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FY22 CIP Plan Elements

MSD has several programs requiring capital investment during FY22. A summary of each program is provided herein.

- Consent Decree (CD) Projects
- Regulatory Projects (State and Local Agreed Orders - AO)
- Wastewater Asset Management Program – Non-CD or AO
- Wastewater Regionalization and Economic Development Program
- Stormwater & Flood Protection Program – Non-CD or AO
- Support Systems Program

Consent Decree Projects

MSD has continued to make progress with implementation of all requirements of the Consent Decree. So far MSD has accomplished the following:

- Development of programs and plans for the Comprehensive Performance Evaluations, Composite Correction Plans, Sewer Overflow Response Protocol, Interim Sanitary Sewer Discharge Plan, Interim Long-Term Control Plan, and Sanitary Capacity Assessment Plan
- MSD has completed 24 of the 25 Long-Term Control Plan projects required by the Consent Decree. The last remaining project is the Waterway Protection Tunnel suite – which is currently under construction. This project includes the following components which are assigned separate budget IDs in the CIP: Ohio River Tunnel, I-64 & Grinstead Interceptor, Lexington & Payne Interceptor, Rowan & Story Interceptor.
- MSD has completed 41 of the 57 Sanitary Sewer Discharge Plan projects required by the Consent Decree.

Changing circumstances as noted herein led to adding more projects to the Consent Decree via the Second Amendment. The changing circumstances are summarized below.

Morris Forman WQTC Challenges

As MSD was implementing the Consent Decree, a series of unanticipated circumstances occurred beyond MSD's control. These circumstances resulted with significant infrastructure impairments. For example, in 2015 the Morris Forman WQTC experienced a lightning strike that caused \$50M in damage and led to accelerated deterioration of the aging biosolids systems. Since that lightning strike, the WQTC has not been able to consistently meet the plant effluent standards for total suspended solids (TSS) and biological oxygen demand (BOD).

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The duration of permit non-compliance for TSS and BOD, led the State Regulators to request MSD develop a Corrective Action Plan (CAP) that was incorporated into an Agreed Order with the State. This order intended to address improvements necessary to recover from a mechanical failure due to a lightning strike resulting with a power outage at Morris Forman WQTC that occurred April 8, 2015. Extensive damage was experienced to the primary treatment, secondary treatment, and electrical systems causing the plant to be out of compliance with permit effluent discharge limits. MSD provided a suite of 26 projects to serve as the CAP for this Agreed Order. More than 20 have been completed, five will be completed in FY22 and the Sedimentation Basin will extend into future years. MSD committed to investing \$170M for improvements to be constructed under this Agreed Order. The projects included in the Agreed Order are listed in Table 5 and are not associated with the Consent Order; but were referenced to demonstrate the breadth of infrastructure challenges MSD continues to address for the Morris Forman WQTC.

Table 5: Morris Forman WQTC Corrective Action Plan Projects

MSD Budget ID	Morris Forman WQTC CAP Projects	Estimate at Completion	Substantial Completion Date
H14108	Morris Forman WQTC Rubbertown Flow Sampling	\$50,457	6/20/2016
D15022	Morris Forman WQTC MEB Leak Repair	\$372,988	6/30/2016
F14179	Morris Forman WQTC Wet Cake Pump	\$984,566	9/14/2016
D15127	Morris Forman WQTC Process Water Line	\$365,534	10/29/2016
F13013	Morris Forman WQTC Condenser Upgrades	\$395,172	1/13/2017
D15017	Morris Forman WQTC Centrifuge Controls	\$1,091,886	11/15/2017
F14183	Morris Forman WQTC FEPS Generator	\$3,275,587	5/25/2018
D18359	Morris Forman WQTC Delta Transformer	\$98,474	6/30/2018
D18360	Morris Forman WQTC Air Dryer	\$39,536	6/30/2018
D18362	Morris Forman WQTC FEPS Substation	\$596,869	6/30/2018
F13016	Morris Forman WQTC High Yard Electrical M	\$7,396,897	8/31/2018
F13023	Morris Forman WQTC Headworks Replacement	\$14,940,610	11/8/2018
F09510	Morris Forman WQTC OGA Plants 1 and 2	\$7,306,656	11/17/2018
D19044	Morris Forman WQTC Primary Sludge Pump Compressor	\$83,498	5/31/2019
D20249	District-Wide Biosolids Master Plan	\$250,000	12/31/2019
F14182	Morris Forman WQTC FEPS Pump & Motor Repair	\$450,000	6/30/2020
D15020	Morris Forman WQTC Cake Pump Phase 2	\$1,802,400	6/30/2020
D19227	Morris Forman WQTC Primary Sludge Line Replacement	\$762,800	7/13/2020
D20228	Morris Forman WQTC Centrifuge Rehabilitation	\$1,065,000	12/31/2021
D20167	Morris Forman WQTC East Headworks HVAC	\$122,000	06/30/2021
D19307	Morris Forman WQTC FEPS VFD Replacement	\$1,000,000	12/31/2021
D18130	Morris Forman WQTC FEPS MCC Replacement	\$500,000	In Progress
D20291	Derek R. Guthrie WQTC Dewatering Facility	\$44,280,700	In progress
D20285	Morris Forman WQTC LG Dryer Replacements	\$47,305,200	In progress
D19045	Morris Forman WQTC Sodium Hypochlorite Relocation	\$4,595,300	In progress
D17042	Morris Forman WQTC Sedimentation Basin Rehabilitation	\$32,603,900	In progress
Total		\$171,736,030	

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The CAP includes projects to improve biosolids processing at Morris Forman WQTC (centrifuge refurbishments and drier replacements) and the Derek R. Guthrie WQTC (new dewatering facility). For a long-term solution, MSD will construct a \$198 million modern biosolids processing facility at the Morris Forman WQTC that utilizes a thermal hydrolysis pretreatment process (THP) to create a useable biogas. Benefits of the new facility include improved effluent quality; production of 4 MW of power; decreased consumption of natural gas; and reduced landfill utilization capacity. The new biosolids facility is not a component of the CAP and was added to the Consent Decree via the Second Amendment.

Critical Sewers Challenges

In addition to the challenges at the Morris Forman WQTC, MSD continues to experience high profile breaks in large diameter and critical sewers. In 2014, the Ohio River Force Main failed; in 2018 the Ohio River Interceptor failed; in 2019 the Harrods Creek Force Main failed; in 2020 after inspection of the Broadway Interceptor rehabilitation work was accelerated to avert a high profile failure; and in 2021 inspection of the Rudd Avenue Sewer found a crack along the crown of the pipe that increased project cost from \$2.3M to \$23M.

Sewers represent some of the oldest components of the wastewater system. Some of MSD's sewers are 150 years old. In total MSD estimates \$2.2B is needed to address all sewer rehabilitation and known structural deficiencies. MSD needs to prioritize capital spending to address critical sewers to reduce the risk of line breaks and protect public health. Nine (9) critical sewer projects were added to the Consent Decree via the Second Amendment.

Flood Protection Challenges

MSD is responsible for ensuring all components of the Ohio River Flood Protection System (ORFPS) are fully operational when they are needed. The existing system is more than 60 years old and most components are original parts. In many cases, the original equipment is no longer available for replacement.

Since 2018, MSD has been working with the United States Army Corps of Engineers (USACE) to identify reliability improvements needed for the ORFPS. The ORFPS is comprised of 22.2 miles of earthen levee, 3.9 miles of concrete wall, 16 pump stations (73 pumps), and 152 gates. The system protects 240,000 people and \$60 billion in property located within the levee area.

The USACE completed its Feasibility Study and recommended projects needed to ensure flood protection levels meet today's standards. The improvements are restricted for RELIABILITY

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purposes and exclude any capacity upgrades. The study indicated the following flood protection system needs:

- Pumps & Motors: Approximately 75% of the pumps and motors need rebuilt or replaced. The original pumps, motors, and ancillary systems are still in service and have not had a major rebuild since they were originally installed.
- Control Systems: 80% of the control systems at the flood pump stations are outdated. The control systems are rudimentary by today's standards, requiring the stations to be fully staffed at all times during flood pumping operations.
- Transformers & Motor Control Centers: 88% of the electrical components need to be replaced. The electrical system is original equipment, which cannot be repaired with currently available components.
- Gates and Floodwalls: 25% of the system needs to be replaced or refurbished: 15 new actuators, 13 new gates, and 10 gates to be refurbished. Most of the 152 gates are 65 years old.

The USACE requested federal funding for 65% of the estimated total \$188M project cost. MSD will be required to pay the USACE for 35% of the project costs totaling approximately \$66M. These projects are focused on reliability only. Additional significant investments are needed to increase capacity and provide redundancy as noted in the following table.

Due to delays in the USACE internal processes and funding schedule, it is currently believed that the USACE Reliability Improvement projects will not begin in FY22. Spending for this program is assumed to begin in FY23 after federal appropriations have been fully secured and the design team is contracted by USACE.

The USACE Program will replace aging equipment and modernize electrical systems. The Program will not address capacity needs. MSD has experienced more frequent and intense rainfall over the several years that has confirmed a need to increase the pumping capacity for multiple flood protection pump stations. The Paddy's Run Flood Protection Station Capacity Improvements project is MSD's highest ranked capital priority to mitigate flood pump station public health protection risk. MSD completed an alternatives analysis for increasing the capacity of the station to 975 mgd. The CRRP recommended two equally important project phases for the Paddy's Run FPS. The first phase will improve the reliability of the existing Paddy's Run FPS (originally constructed in 1953) by removing, inspecting, and rehabilitating or replacing the station's existing pumps and motors to maintain the station's current total pumping capacity of 925 mgd. The

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reliability improvements will be implemented through the USACE Program. MSD must construct the capacity improvements project independent of the USACE project. MSD will construct a new pump station to increase the capacity. Paddy's Run is a critical component for reducing sewer overflows and is included in the Second Amendment to the Consent Decree in the Specific Remedial Projects category.

Projects in Second Amendment to Consent Decree

Given the significant impact these changed conditions had on MSD's infrastructure, MSD proactively approached the federal and state Regulators to renegotiate the timing for completing the remaining LTCP and SSDP projects. The Regulators clearly understood the nature of MSD's challenges and agreed staggering completion of the remaining work is a reasonable approach to reprioritize limited capital dollars for needs at the Morris Forman WQTC and Paddy's Run Pump Station. However, in exchange for the time extension, the Regulators required MSD to commit to firm project completion dates and penalties for delayed performance.

MSD is confident the requirements included in the Second Amendment to the Consent Decree and the 2021 Integrated Overflow Abatement Plan (IOAP) Modification are reasonable; address the District's greatest asset needs; and continue to keep MSD in well regard with federal, state, and local regulatory agencies. The projects included in MSD's FY22 CIP related to the Second Amendment Consent Decree mandates are listed in Table 6.

Table 6: Listing of FY22 Second Amendment Consent Decree Projects

Consent Decree Program	Project Name	FY22 Forecast
Critical Sewer	Harrods Creek Force Main Repair	\$ 260,000
	I-64 and Grinstead Infrastructure Rehabilitation	\$ 3,790,000
	Large Diameter Sewer Rehabilitation - Stage 1	\$ 4,440,000
	Large Diameter Sewer Rehabilitation - Stage 2	\$ 1,020,000
	Nightingale Rehab	\$ 1,200,000
	Prospect Phase II Rehab	\$ 460,000
	Rudd Ave Sewer Infrastructure Rehabilitation	\$ 7,120,000
	Western Outfall Infrastructure Rehabilitation	\$ 560,000
Green Infrastructure	Brown Foreman Project	\$ 160,000
	FY22 Green Infrastructure	\$ 500,000
Long Term Control Plan	Ohio River Tunnel	\$ 18,900,000
Sanitary Sewer Discharge Plan	Cinderella Pump Station Elimination	\$ 180,000
	Idlewood Inline Storage	\$ 3,380,000
	Leven Pump Station Elimination	\$ 130,000
	Little Cedar Creek Interceptor Improvements	\$ 80,000
	Monticello Pump Station Elimination	\$ 380,000
	Raintree Court and Marian Court Pump Station Elimination - Phase 1A	\$ 100,000
Specific Remedial Projects	MFWQTC Biosolids Replacement Facility	\$ 3,740,000
	Paddys Run FPS Capacity Upgrade	\$ 5,400,000
Support	FY22 CIP Task Assistance	\$ 2,000,000
	FY22 Modeling	\$ 1,200,000
Grand Total		\$ 55,000,000

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Asset Management Commitment

The Second Amendment to the Consent Decree also requires MSD to invest an average of \$25 million per year for asset management improvements for the wastewater system – a total of at least \$375M through 2035. MSD is required to report progress with this annual spending metric in the annual Consent Decree Progress Report. Given the level of investment needed throughout the District, there is no reason to believe MSD will not meet the \$25 million per year through FY 2035.

Costs eligible to be counted toward the asset management spending include work or services performed by MSD, its consultants, vendors, and contractors associated with facility plans, master plans, asset management plans, hydraulic and process modeling, asset inspection, condition assessment, risk assessment, field testing, design services, bidding services, asset performance evaluations, construction, construction inspection, commissioning (asset start-up), asset rehabilitation, asset replacement or upgrade, infiltration/inflow mitigation projects, and projects related to existing sewers, pump stations, storage facilities, treatment facilities, large equipment, utility vehicles, emergency repairs, and power/electrical systems.

Costs not eligible include work or services associated with basin/watershed studies, permit renewal applications, financing, grant/loan applications, website updates or upgrades, facility remodeling, property acquisitions and land purchases, urban forestation or tree planting, landscaping, wetlands restoration, river/stream bank erosion or protection projects, aesthetic improvements not related to asset performance, Drainage Response Initiative (DRI) projects, construction of new sewers in unsewered areas, litigation, and annual operating budget line items such as power, chemicals, labor, crane rental, or services associated with preventative or minor corrective maintenance costing less than \$5,000 (not capitalized).

The following summarizes typical projects that can be accounted toward the annual average \$25M asset management spending requirement.

Water Quality Treatment Centers (WQTCs)

- Equipment refurbishments and replacements
- System optimization strategies with telemetry, SCADA, HMI, RTUs, and automation
- Wet weather management facilities inspection, improvements, and rehabilitation
- Electrical components improvements, rehabilitation, and replacements
- Instrumentation and controls improvements, rehabilitation, and replacements
- Storage tanks/basins inspection, cleaning, painting, rehabilitation, and replacements
- Concrete, structure, and/or roof inspection, repairs, rehabilitation, and replacement
- Utility sites access and site improvements
- Safety and security enhancements
- Odor control and mitigation improvements
- Miscellaneous facility repairs

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- Emergencies and equipment failures

Wastewater Collection System

- Pump station upgrades
- Pump station eliminations
- Pump station repairs and equipment replacements
- Sewer inspection, cleaning, and rehabilitation
- Sewer relocation and utility coordination
- Force main repairs
- Valve inspections, rehabilitation, and replacements
- Manhole inspections, rehabilitation, and replacements
- Portable generators improvements, rehabilitation and replacements
- Combined sewers, outfalls, storage facilities improvements and replacements
- Safety and security enhancements
- Odor control and mitigation improvements
- Miscellaneous facility repairs
- Emergencies and line break repairs
- Equipment rental costs associated with facility compliance (process units or bypass pumping)
- Sewer rehabilitation costs exceeding initial costs referenced for the named Critical Sewer Projects included in the Second Amendment to the Consent Decree

Asset Management Programmatic Efforts

- Strategic and Tactical Asset Management Plans
- Condition assessment and evaluation
- Hydraulic and process modeling
- Engineering and technical performance evaluations
- Regulatory compliance based evaluations
- Long-term planning and Master Planning

A summary of the asset management project candidates for FY22 are identified by project type in Table 7. Only projects located within Jefferson County are applied to the Consent Decree asset management spending mandate. A detailed listing of the projects may be found within Attachment A.

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Table 7: \$25M Asset Management Commitment by Project Type

Project Type	# of Projects	FY22 Forecast
CSO R&R	3	\$ 800,000
Planning	2	\$ 1,620,000
Pump Station Elimination	4	\$ 4,120,000
Pump Station R&R	5	\$ 2,440,000
Sewer R&R	8	\$ 11,200,000
WQTC R&R	27	\$ 20,900,000
WW Storage R&R	1	\$ 50,000
WWTF R&R	2	\$ 1,090,000
Grand Total	52	\$ 42,220,000

5-Year CIP for Second Amendment Consent Decree Projects

The forecasted level of investment for Consent Decree projects is shown in Table 8. MSD has identified asset management program candidates. Although the annual totals listed in Table 9 for “\$25M Asset Mgmt Commitment” are greater than \$25M, MSD is required to spend an average of \$25M per year. Given that several high priority asset management projects will span multiple years, MSD prefers to front-load the CIP to accommodate long projects. Some years will be higher than \$25M, other years may be lower than \$25M. The Consent Decree mandate is for an annual average of \$25M that is evaluated every five years. Under investment during any of the three 5-year periods will result with penalties as stipulated in the Second Amendment to the Consent Decree. The first Consent Decree asset management reconciliation will occur in FY26 for years FY21 through FY25. Annual progress will be reported in the Consent Decree Progress Report.

Table 8: Overview of 5-year Forecasted Spending for Second Amendment Consent Decree

FY22-26 Consent Decree Program	FY22	FY23	FY24	FY25	FY26	5-Yr Total
Critical Sewer	\$18.8M	\$26.2M	\$10.6M	\$2.8M	\$1.1M	\$59.5M
Green Infrastructure	\$0.7M					\$0.7M
Long Term Control Plan	\$18.9M	\$17.9M				\$36.8M
Sanitary Sewer Discharge Plan	\$4.3M	\$5.2M	\$5.5M	\$2.5M	\$13.7M	\$31.2M
Specific Remedial Projects	\$9.2M	\$38.9M	\$83.8M	\$95.9M	\$68.6M	\$296.4M
Asset Mgt Commitment	\$42.2M	\$42.3M	\$36.9M	\$47.3M	\$37.7M	\$206.4M
Support	\$3.2M	\$3.2M	\$3.2M	\$3.2M	\$3.2M	\$16.0M
Grand Total	\$97.3M	\$133.7M	\$140.0M	\$151.7M	\$124.3M	\$647.0M

Other Agreed Order Mandates

In addition to the federal Consent Decree, MSD has entered into agreed orders with state and local regulators to resolve site-specific issues. The most comprehensive is the Morris Forman WQTC CAP. Projects having anticipated spending during FY22 that are associated with State or Local Agreed Orders are listed in Table 9. The amount shown represents the portion of the project to be spent during FY22 and may not represent the entire project cost. Most of the projects listed in the

Louisville MSD FY22 CIP Overview

table are in progress and had spending in FY21. Some projects will also continue to have spending during FY23.

Table 9: FY22 State and Local Regulatory Projects

Agreed Order	Project	FY22 Forecast
MFWQTC Corrective Action Projects	DRGWQTC Dewatering Emergency Contract	\$ 1,320,000
	MFWQTC FEPS MCC Replacement	\$ 680,000
	MFWQTC LG Dryer Replacements	\$ 10,800,000
	MFWQTC Sedimentation Basin RR	\$ 6,790,000
	MFWQTC Sodium Hypochlorite Building Relocation	\$ 2,240,000
Louisville Metro Air Pollution Control	Odor Management Plan	\$ 280,000
	Park Duvalle Community Odor Control Improvements	\$ 260,000
Oldham County Agreed Order	Upper Floyds Fork Interceptor	\$ 390,000
	Ash Avenue Interceptor	\$ 4,880,000
Grand Total		27,640,000

Wastewater Asset Management Program – Non-CD or AO

Asset management programs are required to ensure assets perform as intended and are available when needed. Some of the work performed by MSD will not be eligible to apply toward the \$25M annual asset management Consent Decree obligation. The following typical projects are necessary but will not be applied toward Consent Decree spending:

- Pilot testing for different technologies or control systems
- Construction inspection services for development and regionalization projects
- Plumbing Modification Program expenditures
- Asset management work for assets located outside of Jefferson County
- Facility betterments that are not directly related to access, safety, or performance
- Site improvement that are not directly related to access or safety
- Operating permit renewals technical support services
- Loan and grant application technical support services
- Supplemental Environmental Projects performed for permit compliance or in lieu of penalties
- Operation and maintenance services and materials funded with MSD's Operating Budget
- Equipment rental costs not associated with facility compliance (cranes, booms, etc.)
- Planning, design, and construction of new assets that are not direct replacement for aging systems or assets

The non-CD or AO asset management wastewater projects included in the FY22 CIP are listed in Table 10.

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Table 10: FY22 Non-Regulatory Wastewater Asset Management Projects

Program	Project	FY22 Forecast
CMOM	AI Aquasight Software at CCWQTC	\$ 50,000
	FY22 Construction Inspection	\$ 500,000
	FY22 Plumbing Modification Program	\$ 500,000
	OC Ohio River Service Area Rehabilitation	\$ 1,730,000
Facilities	MFWTC Admin. Bldg. Renovation and Computer Room Expansion	\$ 1,500,000
Grand Total		\$ 4,230,000

Wastewater Studies and Planning Efforts

FY22 includes the following studies and planning initiatives, totaling over \$153k as noted in Table 11. These plans will be utilized to investigate new technologies and prioritize capital needs.

Table 11: FY22 Wastewater Studies & Planning Efforts

Program	Project	FY22 Forecast
Wastewater Studies & Planning	Bullitt County WQTC HSE Plan	\$ 13,000
	FY22 Oldham County Modeling	\$ 100,000
	Water Reuse Study	\$ 40,000
Grand Total		\$ 153,000

Wastewater Regionalization & Economic Development

The CRRP identified potential regionalization corridors where MSD can further extend sewers to improve surface water quality and add new sewer customers. Economic development and expanding the area MSD provides utility services are opportunities for 1) generating additional revenue, 2) optimizing regional resources, and 3) further improving local water quality.

The three facilities plan update projects (Ohio River, Lower Floyds Fork, and Upper Floyds Fork) in the FY22 CIP will better inform the future needs in the Floyds Fork Area. In order to ensure sustainable growth and healthy waterways, long term planning is needed to identify economical and environmentally sensitive solutions for future growth and development in the communities not currently served by public sewers. The Facility Plans will include analysis for the following topics: sewershed development potential, growth patterns, projections of future flows, and potential projects to accommodate sustainable growth. Costs and benefits of project alternatives will be completed in accordance with the State of Kentucky's regional Facility Plan requirements.

The projects having forecasted spending in FY22 are listed in Table 12.

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Table 12: FY22 Regionalization & Development Projects

Program	Project	FY22 Forecast
Regionalization & Development	FY22 Development Infrastructure Excess Cost Reimbursement	\$ 250,000
	FY22 Development Infrastructure Support	\$ 85,000
	Fairmont Road Pump Station Force Main Extension - Phase 2	\$ 880,000
	Fairmont Road Pump Station Force Main Extension - Phase 1	\$ 860,000
	Floyds Fork Interceptor	\$ 8,600,000
	HCWQTC Expansion	\$ 1,900,000
	Ohio River Area Facilities Plan	\$ 400,000
	FFWQTC Regional Facilities Plan Update	\$ 498,000
	Lower Floyds Fork Facilities Plan	\$ 400,000
Grand Total		\$ 13,873,000

Stormwater & Flood Protection Program – Non-Consent Decree or AO

In addition to managing wastewater, MSD is responsible for stormwater management and flood protection. MSD’s strategy has been to prioritize wet weather issues contributing to sewer overflows followed by maintaining operation of the 16 flood pump stations followed by addressing localized problems identified through the DRI Program. The combined sewer system improvements were constructed over the past several years (and continuing through FY22) in accordance with Consent Decree mandates. The Flood Pump Stations have continued to be improved to ensure reliable pumping capacity is available as needed. The DRI projects have continued to improve local drainage. MSD is in the process of collecting data to support development of a Stormwater Master Plan to determine the best options for managing stormwater throughout Jefferson County. The Master Plan projects will be subsequently prioritized to fit within MSD’s long-term CIP.

Stormwater & Drainage System

Stormwater management is a vital component of MSD’s system, because it directly impacts the health and safety of all Louisville and Jefferson County residents. The CRRP included a number of programs related to drainage and floodplain management.

- **Drainage Response Initiative Program (DRI):** Since 2003, MSD has been implementing an aggressive program to address a wide variety of drainage issues that were pointed out by customers to address problems ranging from structural flooding to alleviating minor standing water problems. The FY22 CIP includes DRI projects totaling approximately \$4.8M.
- **Floodplain Management Program:** Since 1997, MSD has purchased homes located in flood prone areas through federal grant programs (particularly FEMA). Following a number of spring flooding events in 2015, the Mayor formed a multiagency Flood Mitigation Workgroup to address impacted residents who were unable, for a variety of

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reasons, to get back in their homes after the floodwaters receded. The Flood Mitigation Workgroup recommended several mitigation approaches, including establishment of a “quick-buy” program to allow property owners to sell flood-impacted property in a much shorter time than would typically be possible. The Workgroup recommended annual fund be established to provide timely relief to property owners impacted by future extreme storm events. The projects continue to be advanced but are not specifically included as part of the CIP due to the FEMA reimbursement portion of the program. The continuation of the Maple Street Land Use Planning efforts is included in the FY22 CIP at \$0.2M.

- **Municipal Separate Storm Sewer System Program (MS4)**: The MS4 Program is a drainage-related program to improve the quality of surface waters through controls on stormwater runoff quality in Jefferson County and to protect the public health, safety, and welfare by reducing the introduction of harmful materials into the MS4s that discharge into community streams. The FY22 CIP includes MS4 projects totaling approximately \$2.1M.
- **Stormwater Master Plan Implementation Program**: MSD is continuing making progress with developing an extensive stormwater asset inventory. The FY22 work will continue collecting field inventory data and the CIP includes \$400k to support this effort. The information collected during FY22 will support drafting the Stormwater Master Plan in the future.

Table 13: FY22 Non-CD or AO Stormwater & Drainage Projects

Program	Project	FY22 Forecast
Drainage	2695 Pennacook Road Bank Repair	\$ 350,000
	8904 Blossom Lane DIP Phase 2	\$ 4,000
	FY22 DRI	\$ 2,800,000
	Jacobs Rd DIP	\$ 75,000
	Pencook Drainage Improvements	\$ 1,200,000
	Tycoon Way DRI	\$ 350,000
Floodplain Management	Floodplain Mapping	\$ 150,000
	FY22 Maple Street Land Use Planning	\$ 90,000
Stormwater Quality (MS4)	FY22 Env’L Data Collection – MS4 & IOAP	\$ 875,000
	FY22 MS4 Program	\$ 600,000
	FY22 Urban Reforestation	\$ 240,000
	FY22 USGS Stream Monitoring	\$ 404,000
Master Planning	FY22 Stormwater Asset Inventory & Analysis	\$ 400,000
Grand Total		\$ 7,538,000

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Flood Protection System

Flood protection is a critical public health services MSD provides. The majority of MSD's flood protection system improvements forecasted for the next five years will be addressed through the USACE Reliability Improvements Program described earlier in this document. MSD is continuing with several in progress projects during FY22. These projects along with annual appropriations flood structures and flood pump station equipment for routine system improvements are listed in Table 14.

Table 14: FY22 Non-CD or AO Flood Protection Projects

Program	Project	FY22 Forecast
Ohio River Flood Protection	Canal Street Floodwall	\$ 560,000
	Flood Structure Assessment	\$ 270,000
	FPS Auto Grease Systems Upgrades	\$ 11,000
	Gate 102 Replacement	\$ 450,000
	Upper Mill Creek FPS Emergency	\$ 6,000
	FY22 Flood Structures RR	\$ 2,000,000
	FY22 FPS Equipment RR	\$ 1,000,000
Grand Total		\$ 4,297,000

Support Systems Program

The Support Systems projects reflect the non-process related investments that must be made to keep the MSD businesses running. Facility improvements, IT implementations and vehicle acquisitions are some of the project types that fall into this program. More than \$28M is forecasted for FY22 in the categories presented in Table 15.

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Table 15: FY22 Support Systems Projects

Project Type	Project Name	FY22 Forecast
Building	FY22 Miscellaneous Facility Repairs	\$ 200,000
	FY22 MSD Owned Building Roof Replacements	\$ 1,000,000
	CMF Roof A, C and D Replacement	\$ 1,800,000
	DRG Admin and RAS Buildings HVAC	\$ 12,000
	DRGWQTC Elevator Repairs	\$ 1,420,000
	MFWQTC Admin Building Environmental Assesment	\$ 95,000
	MFWQTC Elevator Repairs	\$ 921,000
Fleet & Equipment	FY22 Vehicles & Equipment	\$ 15,000,000
IT Hardware/Software	FY22 Information Governance Architecture	\$ 300,000
	FY22 IT Infrastructure Initiatives	\$ 375,000
	WQTC Treatment Plant Notification System	\$ 180,000
	Rhythm for Civics for IPS	\$ 6,000
	File Storage Refresh	\$ 575,000
	IPS Implementation	\$ 400,000
	Isolated Ransomware Protection	\$ 490,000
	SAP Upgrade To HANA	\$ 1,250,000
	SD-WAN Deployment	\$ 300,000
	Barcoding Phase 2	\$ 150,000
LOJIC	FY22 LOJIC Hw Upgrades & Replacements	\$ 100,000
	FY22 LOJIC Survey Control Maintenance	\$ 50,000
	FY21/22 Aerial Imagery & Map Updates	\$ 310,000
Security	FY22 Facility Security Upgrades	\$ 500,000
	CMF and MFWQTC Facilities Entrance Upgrades	\$ 1,800,000
	SWPS Site Security - Construction	\$ 1,030,000
Grand Total		\$ 28,264,000

5-Year CIP Plan Highlights

The 5-year CIP by major capital program, based on the final budget refresh of projects, is summarized in the table below. The current slate of projects represents more than \$1B in infrastructure and support needs. The risks and capital priorities will be revisited during the annual CIP development process. It is envisioned the Asset Management Program, as well as the master plans, facilities plans, and other studies will better inform the CIP for specific asset needs at the conclusion of the 5-year CIP.

A detailed listing of all projects in the 5-Yr CIP is presented in Attachment A and summarized in Table 16.

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Table 16: FY22-FY26 Overview

Service Area	Service Type	Program Type	5-Yr Total
No Area Assigned	Management Reserve	Management Reserve	\$ 17,400,000
Jefferson County	Wastewater	CD - AM Commitment	\$ 206,400,000
		CD - Critical Sewers	\$ 59,580,000
		CD - IOAP Green Infrastructure	\$ 660,000
		CD - IOAP LTCP	\$ 36,800,000
		CD - IOAP SSDP	\$ 31,250,000
		CD - Specific Remedial Projects	\$ 175,340,000
		CD Support	\$ 16,100,000
		Regulatory - Agreed Orders	\$ 57,040,000
		CMOM	\$ 7,670,000
		Facilities	\$ 1,500,000
	Development	\$ 128,320,000	
	Stormwater	CD - Specific Remedial Projects	\$ 120,940,000
		Drainage	\$ 21,730,000
		Floodplain Management	\$ 240,000
		Ohio River Flood Protection	\$ 43,860,000
Stormwater Quality (MS4)		\$ 9,740,000	
Support Systems	Capital Equipment	\$ 31,000,000	
	CMOM	\$ 150,000	
	Facilities	\$ 18,730,000	
	IT	\$ 8,120,000	
	LOJIC	\$ 2,230,000	
Bullitt	Wastewater	CMOM	\$ 26,010,000
Oldham County	Wastewater	CMOM	\$ 2,200,000
		Development	\$ 3,740,000
		Regulatory - Agreed Orders	\$ 6,390,000
Grand Total			\$ 1,033,140,000

Consent Decree Mandates (CD)

During the 5-year CIP, projects that are mandated by the Second Amendment to the Consent Decree will continue to dominate the investments – nearly 65% of the \$1B estimated expenditures. As the remaining LTCP projects wrap up, the new Specific Remedial Projects will become the dominant projects for the 5 years and beyond. The asset management commitment will continue to focus on high priority WQTC and collection system projects.

Development

Portions of Jefferson County remain unsewered. Over the past ten years, MSD has extended sewer service to many areas and eliminated hundreds of small package treatment plants and more than 40,000 septic tanks. The primary driver for eliminating these systems is to improve water quality of local rivers, creeks, and streams.

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Current development patterns suggest private investment is picking up in the Floyds Fork sewershed. MSD continues to coordinate with developers to streamline how to incorporate new assets and additional flows into its existing sewer network. It is important to coordinate these new developments to ensure consistency of construction and reliable service. As mentioned earlier, the facilities planning this year will better inform the appropriate timing and estimates for these projects.

Flood Protection System – Non-CD & AO

As noted in the opening summary, a portion of MSD's ORFPS asset improvements qualify for federal funding through the USACE. Official federal appropriations have not been approved at this time. MSD is forecasting to spend nearly \$44M for identified flood protection needs during the 5-year CIP. This includes the MSD cost share of the USACE Reliability Improvements Program. The Ohio River Flood Protection System has received minimal investment over the past 20 years. It is a critical component for public protection and as such has become a priority for the capital program.

Support Systems Projects

During the 5-year CIP, improvements will continue to be phased for MSD's existing buildings including but not limited to: roof replacements, paving, and security enhancements. IT budgets will continue to be requested annually for assets related to system reconfiguration, cable management, network server upgrades, network switch replacements, desktop computers, and software programs needed to better manage MSD's assets and systems. Capital equipment budgets for updating MSD's fleet vehicles, heavy construction equipment, and portable equipment used by multiple working groups will be vetted annually.

Regionalization to Adjacent Counties

The CRRP also identified potential regionalization corridors where MSD can further extend sewers to improve surface water quality and add new sewer customers. The CRRP recommended projects that included new interceptors, new gravity sewer collection systems, and a new treatment plant for accommodating future regionalization and/or growth.

In 2016, high profile failures of "package" treatment plants led to the passage of Kentucky House Joint Resolution 56, to initiate a study of regionalization opportunities to limit the risk of future failures. As a result of this Joint Resolution, a study was performed in 2017 to provide an inventory of small "package" facilities and emergency risk mitigation.

During the 2018 Legislative Session in Kentucky, Senate Bill 151 (SB151) was filed to enable utility ownership of sewer assets outside of jurisdictional boundaries through inter-local

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agreements. House Bill 513 (HB513) was filed to require additional insurance, as well as regulatory and financial accountability for small “package” treatment facility operators/builders. These two bills were combined and passed under HB513 and signed by the Governor on April 25, 2018.

This legislation has facilitated extending MSD’s programmatic approach for eliminating package treatment plants beyond Jefferson County. During FY22 MSD will complete the Floyds Fork WQTC Regional Facilities Plan Update. This project will assist MSD with addressing how regionalization initiatives with Bullitt and Oldham Counties will interconnect with MSD’s assets. Depending on the timing of system improvements needed in these areas for public health protection, capital projects required to interconnect with MSD’s wastewater system may need to be accelerated to the 5-year CIP.

- **Oldham County:** The City of Crestwood lobbied for enabling legislation, to allow MSD to acquire their system. This was accomplished in early 2019. Subsequent to the Crestwood acquisition, Oldham County Environmental Authority and Oldham County Fiscal Court requested MSD to submit a proposal to acquire this system. This acquisition closed on June 30, 2020. Per the terms of the Interlocal Agreement, all customers of Oldham County Environmental Authority (OCEA) residing in the former OCEA service area will continue to pay the existing average rate of \$86.92/month for fiscal years FY20, FY21, and FY22, and during this period MSD will charge new and expanding customers OCEA's existing capacity fees. Upon the expiration of OCEA's existing contract with Veolia Water North America, the average monthly rate for these customers will be adjusted down to \$76.92/month on August 1, 2022, and on an after this date MSD will charge its capacity fees to new and expanding customers. These rates are based on an average usage of 5000 gallons per month. For FY23 and years thereafter, MSD will raise existing OCEA customer rates no more than 5% per year until the rates equalize with rates of MSD's other customers. Once residential rates equalize, MSD's Rates, Rentals, and Charges for all customer classes will be applied to Oldham County customers going forward.
- **Bullitt County:** In 2019, Bullitt County Sanitation District and Bullitt County Fiscal Court requested a proposal from MSD for acquisition and regional solutions. The earliest the acquisition could close is September 1, 2021. MSD has continued the due diligence phase over the past year.

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Alternative Funding Programs

MSD is committed to leveraging federal, state, and local partnerships wherever possible in order to maximize benefits to the community. Pursuing non-traditional funding sources like grants and low-interest loans have a positive impact on the CIP overall due to lower cost of capital and favorable repayment schedules.

MSD was successful in garnering Water Infrastructure Finance and Innovation Act (WIFIA) and State Revolving Fund (SRF) low-interest loan financing and is pursuing federal and local grant opportunities as well.

WIFIA Loan Program

MSD entered into a low interest loan with the US EPA via the Water Infrastructure Finance and Innovation Act (WIFIA) Program for the long-term Morris Forman WQTC New Biosolids Facility Project that is included in the 5-year CIP. MSD will consider future CIP projects for the likelihood they could receive similar loans from US EPA.

SRF Program

MSD is an active participant in the State Revolving Fund (SRF) loan program which provides low interest loans and favorable repayment schedules. Project selection is based upon established SRF criteria. MSD completed the preliminary scoring evaluations for project candidates for the FY22 SRF Program. Projects were grouped by type (large sewer, pump station elimination, pump station upgrade) and the preliminary list was submitted to KIA on September 15th. MSD uploaded project profiles to KIA's portal for consideration with the FY22 SRF Program. KIA's Intended Use Plan is typically issued between May and July of each year to allocate.

Project funding requests may be submitted for future projects, but to move forward with an application in any given funding cycle, MSD must be able to commit to starting construction within one year of the application. KIA's typical SRF cycle is noted below:

- **Spring:** KIA publishes their Intended Use Plan (IUP) and issues invitations to apply for funding ~May (identification of projects)
 - ~3-4 weeks to accept/decline invitation to apply
- **Summer:** MSD prepares project applications
 - profile development; MHI analysis (if needed)
 - submit loan application (with MSD board's authorization to execute and submit)
- **Fall:** formal submittal and scoring timeframe
 - September: preliminary project profiles submitted in coordination with KIPDA

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- October: Clean Water Mgmt Council scoring/voting
- **Winter:** loan closing
 - November/December: final edits, review, GIS and scoring updates, and load project profiles into SRF portal
 - Request MSD Board approval for entering into Assistance Agreement (typically done 2-3 months before construction starts and drawing on loan.

For KIA's FY22 SRF financing, MSD needs to target projects starting construction between September 2022 and June 2023.

- If a project needs to start sooner, costs incurred prior to loan closing would not be eligible.
- If a project needs to start later or schedule is deferred, we can hold off on submitting the project profile or submit and then decline (defer) the loan acceptance until a future year.
- Similar types of projects and schedules (within ~3 year window) are ideal for bundling into a single loan.
- If loan administration includes multiple contracts, KIA prefers that those contracts run as concurrently as possible. If construction starts stretch over multiple years for the ones we're talking about bundling, we may need to reevaluate.

House Appropriations Committee Community Projects

MSD submitted two applications to Congressman Yarmuth's office on April 14, 2021 for the Park DuValle Neighborhood Odor Control Improvements Project and the Community Drainage Improvements Project. The Park DuValle request was one of ten projects to advance for House Appropriations committee consideration. This project is included in the 5-year CIP.

Build Back Better Together Plus

MSD submitted a suite of projects to the Mayor's office on April 1, 2021 for consideration of 18 community projects totaling \$38.2 million. Some of the projects included on this list are included in the 5-year CIP.

Cleaner Waters Grants

Through Kentucky Senate Bill 36, \$249.9 million is available across the state to fund clean water and drinking water projects. KIA is administering this program and the call for projects is open with

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projects submitted to their WRIS portal. Funds must be obligated by December 31, 2024 and spent by December 31, 2026.

- \$150 million allocated to counties based on population (Jefferson County is discounted by 50%)
- \$50 million available for grants to utilities for unserved, rural drinking water and federal Consent Decree Communities
- 49.9 million available to supplement excess project costs

Building Resilient Infrastructure & Communities (BRIC) Grant Program

In September 2020, MSD submitted a grant application to the Kentucky Division of Emergency Management for the BRIC Grant Program for the Paddy's Run Flood Pump Station Capacity Upgrade Project. Although this project was not selected for a grant award, MSD may submit BRIC grant applications for other project in the 5-year CIP.

END OF REPORT

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ATTACHMENT A
DETAILED LISTING OF PROJECTS IN THE 5-YEAR CIP

Service Area	Service Type	Program	Budget ID	Project Name	FY22	FY23	FY24	FY25	FY26	Total 5 Year	Beyond
Bullitt	Wastewater	CMOM	BD-001	Bullitt County Asset Management FY23		\$ 5,000,000				\$ 5,000,000	\$ -
Bullitt	Wastewater	CMOM	BD-002	Bullitt County Asset Management FY24			\$ 8,000,000			\$ 8,000,000	\$ -
Bullitt	Wastewater	CMOM	BD-003	Bullitt County Asset Management FY25				\$ 10,000,000		\$ 10,000,000	\$ -
Bullitt	Wastewater	CMOM	BD-004	Bullitt County Asset Management FY26					\$ 3,000,000	\$ 3,000,000	\$ -
Bullitt	Wastewater	CMOM	Y21207	Bullitt County WQTC HSE Plan	\$ 12,500					\$ 12,500	\$ -
Jefferson	Stormwater	CD - Specific Remedial Project	F18515	Paddys Run FPS Capacity Upgrade	\$ 5,432,273	\$ 26,590,791	\$ 48,725,177	\$ 38,141,555	\$ 2,105,533	\$ 120,995,329	\$ -
Jefferson	Stormwater	Drainage	C22031	2695 Pennacook Road Bank Repair	\$ 350,000					\$ 350,000	\$ -
Jefferson	Stormwater	Drainage	C20191	8904 Blossom Lane DIP Phase 2	\$ 3,981					\$ 3,981	\$ -
Jefferson	Stormwater	Drainage	C22005	FY22 DRI	\$ 2,800,000					\$ 2,800,000	\$ -
Jefferson	Stormwater	Drainage	C22006	FY22 Stormwater Asset Inventory & Analysis	\$ 400,000					\$ 400,000	\$ -
Jefferson	Stormwater	Drainage	BD-011	FY23 DRI		\$ 2,800,000				\$ 2,800,000	\$ -
Jefferson	Stormwater	Drainage	BD-013	FY23 Stormwater Asset Inventory & Analysis		\$ 400,000				\$ 400,000	\$ -
Jefferson	Stormwater	Drainage	BD-163	FY24 DRI			\$ 2,800,000			\$ 2,800,000	\$ -
Jefferson	Stormwater	Drainage	BD-164	FY24 Stormwater Asset Inventory & Analysis			\$ 400,000			\$ 400,000	\$ -
Jefferson	Stormwater	Drainage	C21035	FY25 DRI				\$ 2,800,000		\$ 2,800,000	\$ -
Jefferson	Stormwater	Drainage	BD-175	FY26 DRI					\$ 2,800,000	\$ 2,800,000	\$ -
Jefferson	Stormwater	Drainage	C21152	Jacobs Rd DIP	\$ 74,951					\$ 74,951	\$ -
Jefferson	Stormwater	Drainage	BD-151	Melco Basin Regrading and Improvements				\$ 109,500		\$ 109,500	\$ -
Jefferson	Stormwater	Drainage	C21065	Pencook Drainage Improvements	\$ 1,200,000					\$ 1,200,000	\$ -
Jefferson	Stormwater	Drainage	H17030	Stormwater Master Plan				\$ 2,223,400	\$ 2,223,400	\$ 4,446,800	\$ -
Jefferson	Stormwater	Drainage	C21073	Tycoon Way DRI	\$ 352,440					\$ 352,440	\$ -
Jefferson	Stormwater	Floodplain Management	C22002	Floodplain Mapping	\$ 150,000					\$ 150,000	\$ -
Jefferson	Stormwater	Floodplain Management	F22007	FY22 Maple Street Land Use Planning	\$ 90,000					\$ 90,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F15012	5th Street FPS - Generator Improvements		\$ 69,497	\$ 192,503			\$ 262,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F16004	Canal Street Floodwall	\$ 555,454	\$ 919,651				\$ 1,475,106	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F22012	Flood Structure Assessment	\$ 272,727	\$ 327,273				\$ 600,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F19276	FPS Auto Grease Systems Upgrades	\$ 12,309					\$ 12,309	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F21084	FPS USACE Payment		\$ 183,424	\$ 3,367,973	\$ 7,643,959	\$ 11,840,592	\$ 23,035,948	\$ 16,964,052
Jefferson	Stormwater	Ohio River Flood Protection	F21094	FY22 Flood Structures RR	\$ 2,000,000					\$ 2,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	K18266	FY22 FPS Equipment RR	\$ 1,000,000					\$ 1,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F21096	FY23 Flood Structures RR		\$ 2,000,000				\$ 2,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F19126	FY23 FPS Equipment RR		\$ 1,000,000				\$ 1,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F21098	FY24 Flood Structures RR			\$ 2,000,000			\$ 2,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F20102	FY24 FPS Equipment RR			\$ 1,000,000			\$ 1,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F21037	FY25 Flood Structures RR				\$ 2,000,000		\$ 2,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F21038	FY25 FPS Equipment RR				\$ 1,000,000		\$ 1,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	BD-178	FY26 Flood Structures RR					\$ 2,000,000	\$ 2,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	BD-179	FY26 FPS Equipment RR					\$ 1,000,000	\$ 1,000,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F15010	Gate 102 Replacement	\$ 450,150					\$ 450,150	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	X_0095/X_0319	Pond Creek FPS - Electrical Service Improvements				\$ 809,350	\$ 890,285	\$ 1,699,635	\$ 9,631,265
Jefferson	Stormwater	Ohio River Flood Protection	F20107	Starkey FPS Electrical Service Improvements		\$ 500,000				\$ 500,000	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F20342	Upper Mill Creek FPS Emergency	\$ 6,343					\$ 6,343	\$ -
Jefferson	Stormwater	Ohio River Flood Protection	F20110	Upper Mill Creek FPS Transformer Replacement			\$ 797,600			\$ 797,600	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H19034	FY22 Env'L Data Collection - MS4 & IOAP	\$ 875,000					\$ 875,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H18012	FY22 MS4 Program	\$ 600,000					\$ 600,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H22004	FY22 Urban Reforestation	\$ 240,000					\$ 240,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H18016	FY22 USGS Stream Monitoring	\$ 403,600					\$ 403,600	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H19003	FY23 Env'L Data Collection - MS4 & IOAP		\$ 875,000				\$ 875,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H19004	FY23 MS4 Program		\$ 600,000				\$ 600,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H19007	FY23 USGS Stream Monitoring		\$ 407,600				\$ 407,600	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H20082	FY24 Env'L Data Collection - MS4 & IOAP			\$ 875,000			\$ 875,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H20121	FY24 MS4 Basin Retrofit			\$ 85,000			\$ 85,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H20083	FY24 MS4 Program			\$ 600,000			\$ 600,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H20084	FY24 USGS Stream Monitoring			\$ 410,000			\$ 410,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H21036	FY25 Env'L Data Collection - MS4 & IOAP				\$ 875,000		\$ 875,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H21045	FY25 MS4 Program				\$ 600,000		\$ 600,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	H21054	FY25 USGS Stream Monitoring				\$ 415,000		\$ 415,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	BD-176	FY26 Env'L Data Collection - MS4 & IOAP					\$ 875,000	\$ 875,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	BD-186	FY26 MS4 Program					\$ 600,000	\$ 600,000	\$ -
Jefferson	Stormwater	Stormwater Quality (MS4)	BD-196	FY26 USGS Stream Monitoring					\$ 415,000	\$ 415,000	\$ -

Service Area	Service Type	Program	Budget ID	Project Name	FY22	FY23	FY24	FY25	FY26	Total 5 Year	Beyond
Jefferson	Support Systems	Capital Equipment	K18021	FY22 Vehicles & Equipment	\$ 15,000,000					\$ 15,000,000	\$ -
Jefferson	Support Systems	Capital Equipment	K19012	FY23 Vehicles & Equipment		\$ 4,000,000				\$ 4,000,000	\$ -
Jefferson	Support Systems	Capital Equipment	K20079	FY24 Vehicles & Equipment			\$ 4,000,000			\$ 4,000,000	\$ -
Jefferson	Support Systems	Capital Equipment	K21055	FY25 Vehicles & Equipment				\$ 4,000,000		\$ 4,000,000	\$ -
Jefferson	Support Systems	Capital Equipment	BD-197	FY26 Vehicles & Equipment					\$ 4,000,000	\$ 4,000,000	\$ -
Jefferson	Support Systems	CMOM	H22010	Barcoding Phase 2	\$ 150,000					\$ 150,000	\$ -
Jefferson	Support Systems	Facilities	G18147	Admiral Pump Station Foundation Repairs		\$ 254,900				\$ 254,900	\$ -
Jefferson	Support Systems	Facilities	D20149	CCWQTC Admin Building Expansion		\$ 1,032,400				\$ 1,032,400	\$ -
Jefferson	Support Systems	Facilities	G21225	CMF and MFWQTC Facilities Entrance Upgrades	\$ 1,812,565	\$ 1,124,046				\$ 2,936,610	\$ -
Jefferson	Support Systems	Facilities	G21102	CMF Floor Replacement		\$ 56,800				\$ 56,800	\$ -
Jefferson	Support Systems	Facilities	G21139	CMF Roof A, C and D Replacement	\$ 1,769,172	\$ 1,616,475	\$ 4,941			\$ 3,390,589	\$ -
Jefferson	Support Systems	Facilities	G18155	CMF Structural Investigation			\$ 37,200			\$ 37,200	\$ -
Jefferson	Support Systems	Facilities	D20016	DRG Admin and RAS Buildings HVAC	\$ 11,938					\$ 11,938	\$ -
Jefferson	Support Systems	Facilities	D21129	DRGWQTC Elevator Repairs	\$ 1,425,903					\$ 1,425,903	\$ -
Jefferson	Support Systems	Facilities	D18132	DRGWQTC WWPS WW Screen Bldg HVAC		\$ 2,200,000				\$ 2,200,000	\$ -
Jefferson	Support Systems	Facilities	G18146	Facility Lead Paint Abatement			\$ 420,100			\$ 420,100	\$ -
Jefferson	Support Systems	Facilities	G18150	Facility Mold Abatement			\$ 196,700			\$ 196,700	\$ -
Jefferson	Support Systems	Facilities	G18151	Facility Structural Investigations			\$ 34,700	\$ 34,700	\$ 34,700	\$ 104,100	\$ -
Jefferson	Support Systems	Facilities	G20068	FY22 Facility Security Upgrades	\$ 500,000					\$ 500,000	\$ -
Jefferson	Support Systems	Facilities	G18459	FY22 Miscellaneous Facility Repairs	\$ 200,000					\$ 200,000	\$ -
Jefferson	Support Systems	Facilities	G18486	FY22 MSD Owned Building Roof Replacements	\$ 1,000,000					\$ 1,000,000	\$ -
Jefferson	Support Systems	Facilities	G19037	FY23 Miscellaneous Facility Repairs		\$ 200,000				\$ 200,000	\$ -
Jefferson	Support Systems	Facilities	G19062	FY23 MSD Owned Building Roof Replacements		\$ 400,000				\$ 400,000	\$ -
Jefferson	Support Systems	Facilities	G20131	FY24 Miscellaneous Facility Repairs			\$ 200,000			\$ 200,000	\$ -
Jefferson	Support Systems	Facilities	G20130	FY24 MSD Owned Building Roof Replacements			\$ 400,000			\$ 400,000	\$ -
Jefferson	Support Systems	Facilities	G21043	FY25 Miscellaneous Facility Repairs				\$ 200,000		\$ 200,000	\$ -
Jefferson	Support Systems	Facilities	G21046	FY25 MSD Owned Building Roof Replacements				\$ 400,000		\$ 400,000	\$ -
Jefferson	Support Systems	Facilities	BD-177	FY26 Facility Security Upgrades					\$ 500,000	\$ 500,000	\$ -
Jefferson	Support Systems	Facilities	BD-184	FY26 Miscellaneous Facility Repairs					\$ 200,000	\$ 200,000	\$ -
Jefferson	Support Systems	Facilities	BD-187	FY26 MSD Owned Building Roof Replacements					\$ 400,000	\$ 400,000	\$ -
Jefferson	Support Systems	Facilities	D21208	MFWQTC Admin Building Environmental Assessment	\$ 95,204					\$ 95,204	\$ -
Jefferson	Support Systems	Facilities	G20028	MFWQTC Elevator Repairs	\$ 920,664					\$ 920,664	\$ -
Jefferson	Support Systems	Facilities	G20018	SWPS Site Security - Construction	\$ 1,039,420					\$ 1,039,420	\$ -
Jefferson	Support Systems	IT	N22025	File Storage Refresh	\$ 575,000					\$ 575,000	\$ -
Jefferson	Support Systems	IT	H18174	FY22 Information Governance Architecture	\$ 300,000					\$ 300,000	\$ -
Jefferson	Support Systems	IT	N20076	FY22 IT Infrastructure Initiatives	\$ 375,000					\$ 375,000	\$ -
Jefferson	Support Systems	IT	H19035	FY23 Information Governance Architecture		\$ 300,000				\$ 300,000	\$ -
Jefferson	Support Systems	IT	N20077	FY23 IT Infrastructure Initiatives		\$ 307,500				\$ 307,500	\$ -
Jefferson	Support Systems	IT	N20132	FY24 IT Improvements			\$ 200,000			\$ 200,000	\$ -
Jefferson	Support Systems	IT	N20074	FY24 IT Infrastructure Initiatives			\$ 307,500			\$ 307,500	\$ -
Jefferson	Support Systems	IT	N21023	FY25 IT Improvements				\$ 200,000		\$ 200,000	\$ -
Jefferson	Support Systems	IT	N20073	FY25 IT Infrastructure Initiatives			\$ 307,500			\$ 307,500	\$ -
Jefferson	Support Systems	IT	BD-180	FY26 IT Infrastructure Initiatives					\$ 307,500	\$ 307,500	\$ -
Jefferson	Support Systems	IT	N22030	IPS Implementation	\$ 400,000					\$ 400,000	\$ -
Jefferson	Support Systems	IT	N22026	Isolated Ransomware Protection	\$ 490,000					\$ 490,000	\$ -
Jefferson	Support Systems	IT	N21105	PMIS System Implementation		\$ 785,950	\$ 785,950			\$ 1,571,900	\$ -
Jefferson	Support Systems	IT	N21122	Rhythm for Civics for IPS	\$ 5,794					\$ 5,794	\$ -
Jefferson	Support Systems	IT	N20133	SAP Upgrade To HANA	\$ 1,250,000	\$ 750,000				\$ 2,000,000	\$ -
Jefferson	Support Systems	IT	N21069	SD-WAN Deployment	\$ 300,000					\$ 300,000	\$ -
Jefferson	Support Systems	IT	H22024	WQTC Treatment Plant Notification System	\$ 180,000					\$ 180,000	\$ -
Jefferson	Support Systems	LOJIC	J17037	FY21/22 Aerial Imagery & Map Updates	\$ 315,789	\$ 157,895				\$ 473,684	\$ -
Jefferson	Support Systems	LOJIC	J18099	FY22 LOJIC Hw Upgrades & Replacements	\$ 100,000					\$ 100,000	\$ -
Jefferson	Support Systems	LOJIC	J20024	FY22 LOJIC Survey Control Maintenance	\$ 50,000					\$ 50,000	\$ -
Jefferson	Support Systems	LOJIC	J20071	FY23 LOJIC Hw Upgrades & Replacements		\$ 100,000				\$ 100,000	\$ -
Jefferson	Support Systems	LOJIC	J20025	FY23 LOJIC Survey Control Maintenance		\$ 50,000				\$ 50,000	\$ -
Jefferson	Support Systems	LOJIC	J18107	FY23/24 Aerial Imagery & Map Updates		\$ 189,034	\$ 310,966			\$ 500,000	\$ -
Jefferson	Support Systems	LOJIC	J20072	FY24 LOJIC Hw Upgrades & Replacements			\$ 100,000			\$ 100,000	\$ -
Jefferson	Support Systems	LOJIC	J20026	FY24 LOJIC Survey Control Maintenance			\$ 50,000			\$ 50,000	\$ -
Jefferson	Support Systems	LOJIC	J21039	FY25 LOJIC HW Upgrades & Replacements				\$ 100,000		\$ 100,000	\$ -
Jefferson	Support Systems	LOJIC	J21040	FY25 LOJIC Survey Control Maintenance				\$ 50,000		\$ 50,000	\$ -

Service Area	Service Type	Program	Budget ID	Project Name	FY22	FY23	FY24	FY25	FY26	Total 5 Year	Beyond
Jefferson	Support Systems	LOJIC	J20070	FY25/26 Aerial Imagery & Map Updates				\$ 189,034	\$ 310,966	\$ 500,000	\$ -
Jefferson	Support Systems	LOJIC	BD-181	FY26 LOJIC Support					\$ 150,000	\$ 150,000	\$ -
Jefferson	Wastewater	Agreed Order	D20284	DRGWQTC Dewatering Emergency Contract	\$ 1,323,775					\$ 1,323,775	\$ -
Jefferson	Wastewater	Agreed Order	D18130	MFWQTC FEPS Loadcenter and MCC Replacement	\$ 681,769	\$ 39,862				\$ 721,630	\$ -
Jefferson	Wastewater	Agreed Order	D20285	MFWQTC LG Dryer Replacements	\$ 10,789,053					\$ 10,789,053	\$ -
Jefferson	Wastewater	Agreed Order	D17042	MFWQTC Sedimentation Basin RR	\$ 6,791,141					\$ 6,791,141	\$ -
Jefferson	Wastewater	Agreed Order	D17042-FY23	MFWQTC Sedimentation Basin RR (FY23)		\$ 16,016,170				\$ 16,016,170	\$ -
Jefferson	Wastewater	Agreed Order	D17042-FY24	MFWQTC Sedimentation Basin RR (FY24)			\$ 16,016,170			\$ 16,016,170	\$ -
Jefferson	Wastewater	Agreed Order	D19045	MFWQTC Sodium Hypochlorite Building Relocation	\$ 2,248,355	\$ 95,565				\$ 2,343,920	\$ -
Jefferson	Wastewater	Agreed Order	D21063	Odor Management Plan	\$ 275,737	\$ 275,737	\$ 275,737	\$ 275,737		\$ 1,102,947	\$ -
Jefferson	Wastewater	Agreed Order	H22033	Park Duvalle Community Odor Control Improvements	\$ 258,621	\$ 310,345	\$ 310,345	\$ 310,345	\$ 310,345	\$ 1,500,000	\$ -
Jefferson	Wastewater	Agreed Order	H19142	Upper Floyds Fork Interceptor	\$ 388,128					\$ 388,128	\$ -
Jefferson	Wastewater	CD - AM Commitment	A21241	26th St Sewer Repair Emergency	\$ 4,576,923					\$ 4,576,923	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20021	Admiral Way/Fishpool Capacity Assurance				\$ 252,674	\$ 758,023	\$ 1,010,697	\$ 7,832,903
Jefferson	Wastewater	CD - AM Commitment	D21059	Asset Management Plan Development	\$ 1,374,494	\$ 1,374,494	\$ 1,374,494			\$ 4,123,481	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-162	Beargrass Interceptor Relief Rehab		\$ 852,397	\$ 2,619,718	\$ 3,427,942	\$ 136,242	\$ 7,036,300	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20224	Bells Lane PAA System	\$ 823,372					\$ 823,372	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20223	Bells Lane WWTF Polymer Feed System Improvements	\$ 273,995					\$ 273,995	\$ -
Jefferson	Wastewater	CD - AM Commitment	F20321	Bluegrass Fields PS Renovation	\$ 328,956					\$ 328,956	\$ -
Jefferson	Wastewater	CD - AM Commitment	SY-045	Brandywyne Ct. PS Elimination		\$ 393,800				\$ 393,800	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-005	Catch Basin Retrofits Phase 2		\$ 337,275	\$ 337,275	\$ 337,275	\$ 337,275	\$ 1,349,100	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22034	CC/FF/HC Sodium Aluminate Automation	\$ 375,000					\$ 375,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D19039	CCWQTC Effluent Parshall Flume Upgrade	\$ 564,440					\$ 564,440	\$ -
Jefferson	Wastewater	CD - AM Commitment	D16274	CCWQTC Oxidation Ditch Mods		\$ 225,875	\$ 137,625			\$ 363,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	D16273	CCWQTC Power Reduction Mods			\$ 120,200			\$ 120,200	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-007	CCWQTC Sludge Storage Blower Upgrade		\$ 825,900				\$ 825,900	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22018	CCWQTC Sludge Storage Tank Improvements	\$ 869,556	\$ 1,430,444				\$ 2,300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20017	CCWQTC Sodium Aluminate Building	\$ 406,755					\$ 406,755	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18090	CCWQTC Solids Handling (Centrifuge Relocation)		\$ 1,002,179	\$ 1,860,630	\$ 4,664,642	\$ 3,265,249	\$ 10,792,700	\$ -
Jefferson	Wastewater	CD - AM Commitment	D17032	CCWQTC Tertiary Filtration	\$ 1,485,424	\$ 4,114,576				\$ 5,600,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D16275	CCWQTC WAS Cycle Automation		\$ 181,700				\$ 181,700	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-008	Cedar Creek Main Interceptor		\$ 928,718	\$ 3,077,232	\$ 3,225,450		\$ 7,231,400	\$ -
Jefferson	Wastewater	CD - AM Commitment	F21061	Clifton Heights Storage Basin Sump Pump Improvements	\$ 47,887					\$ 47,887	\$ -
Jefferson	Wastewater	CD - AM Commitment	H18168	Comprehensive Facility Plan - Five Year Update				\$ 479,500	\$ 479,500	\$ 959,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	SY-044	Deep Trail PS Elimination			\$ 330,900			\$ 330,900	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18292	DRGWQTC Clarifier Grout Repair and RAS Gate Replacement	\$ 707,368					\$ 707,368	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21078	DRGWQTC Replace Clarifiers 4, 5, & 6				\$ 1,329,800		\$ 1,329,800	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22032	DRGWQTC Sodium Bisulfite Bldg. Improvements	\$ 375,000	\$ 375,000				\$ 750,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22019	DRGWQTC Substation Unit 3 and 4 Elimination	\$ 150,000					\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21209	DRGWQTC Vibration Analysis Testing of Pump 1A and 1B	\$ 4,303					\$ 4,303	\$ -
Jefferson	Wastewater	CD - AM Commitment	X_0199	FFWQTC Enhanced Biological Phosphorous Removal			\$ 697,400			\$ 697,400	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-010	FFWQTC Sludge Storage Tank Improvements		\$ 1,728,596	\$ 1,391,804			\$ 3,120,400	\$ -
Jefferson	Wastewater	CD - AM Commitment	H17057	Floydsburg Road I&I Investigation and Rehabilitation				\$ 59,200		\$ 59,200	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21092	FY21 WQTC Engineering Support	\$ 46,574					\$ 46,574	\$ -
Jefferson	Wastewater	CD - AM Commitment	E18469	FY22 CMOM Collection System PS RR	\$ 500,000					\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20063	FY22 CMOM Gravity Line Cleaning & Inspection	\$ 1,500,000					\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20057	FY22 CMOM I&C Implementation	\$ 292,500					\$ 292,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	H09215	FY22 CMOM Infrastructure Rehabilitation Program	\$ 2,000,000					\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H19106	FY22 CMOM Program Management Assistance	\$ 150,000					\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H19032	FY22 CMOM SCAP, AAM And FOG	\$ 150,000					\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18454	FY22 MFWQTC Equipment RR	\$ 5,000,000					\$ 5,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18473	FY22 MFWQTC Other Facilities Repairs	\$ 500,000					\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20049	FY22 NMC CSO Inspection Cameras	\$ 100,000					\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H19116	FY22 NMC RTC	\$ 600,000					\$ 600,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H18013	FY22 NMC Support	\$ 100,000					\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E19213	FY22 Operations Renewal & Replacement	\$ 2,300,000					\$ 2,300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21095	FY22 Regional WQTC Equipment RR	\$ 2,000,000					\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	G22001	FY22 Renewal & Replacement	\$ 2,000,000					\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22009	FY22 WQTC Engineering Support	\$ 100,000					\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E18470	FY23 CMOM Collection System PS RR		\$ 516,200				\$ 516,200	\$ -

Service Area	Service Type	Program	Budget ID	Project Name	FY22	FY23	FY24	FY25	FY26	Total 5 Year	Beyond
Jefferson	Wastewater	CD - AM Commitment	H20064	FY23 CMOM Gravity Line Cleaning & Inspection		\$ 1,500,000				\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20058	FY23 CMOM I&C Implementation		\$ 292,500				\$ 292,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	E18094	FY23 CMOM Infrastructure Rehabilitation Program		\$ 2,000,000				\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H19018	FY23 CMOM Program Management Assistance		\$ 150,000				\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H19019	FY23 CMOM SCAP, AAM, FOG		\$ 150,000				\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D19130	FY23 MFWQTC Equipment RR		\$ 2,500,000				\$ 2,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D19036	FY23 MFWQTC Other Facilities Repairs		\$ 500,000				\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20050	FY23 NMC CSO Inspection Cameras		\$ 100,000				\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H19132	FY23 NMC RTC		\$ 500,000				\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H19005	FY23 NMC Support		\$ 100,000				\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	G19033	FY23 Operations Renewal & Replacement		\$ 2,300,000				\$ 2,300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	F18133	FY23 Pump Station Replacement And Overhaul		\$ 1,000,000				\$ 1,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21097	FY23 Regional WQTC Equipment RR		\$ 1,500,000				\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	G23001	FY23 Renewal & Replacement		\$ 2,000,000				\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-336	FY23 WQTC Engineering Support		\$ 100,000				\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20060	FY24 CMOM Collection System PS RR			\$ 500,000			\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20065	FY24 CMOM Gravity Line Cleaning & Inspection			\$ 1,500,000			\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20059	FY24 CMOM I&C Implementation			\$ 292,500			\$ 292,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20053	FY24 CMOM Infrastructure Rehabilitation Program			\$ 2,000,000			\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20115	FY24 CMOM Program Management Assistance			\$ 150,000			\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20113	FY24 CMOM SCAP, AAM, FOG			\$ 150,000			\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21021	FY24 MFWQTC Equipment RR			\$ 2,500,000			\$ 2,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20143	FY24 MFWQTC Other Facilities Repairs			\$ 500,000			\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20051	FY24 NMC CSO Inspection Cameras			\$ 100,000			\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20039	FY24 NMC RTC			\$ 300,000			\$ 300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	H20027	FY24 NMC Support			\$ 100,000			\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E20112	FY24 Operations Renewal & Replacement			\$ 2,300,000			\$ 2,300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21022	FY24 PS Replacement, Overhaul or Elimination			\$ 1,000,000			\$ 1,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21099	FY24 Regional WQTC Equipment RR			\$ 1,500,000			\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	G24001	FY24 Renewal & Replacement			\$ 2,000,000			\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-337	FY24 WQTC Engineering Support			\$ 100,000			\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21026	FY25 CMOM Collection System PS RR				\$ 500,000		\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21027	FY25 CMOM Gravity Line Cleaning & Inspection				\$ 1,500,000		\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21028	FY25 CMOM I&C Implementation				\$ 292,500		\$ 292,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21029	FY25 CMOM Infrastructure Rehabilitation Program				\$ 2,000,000		\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21030	FY25 CMOM Program Management Assistance				\$ 150,000		\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21031	FY25 CMOM SCAP, AAM, FOG				\$ 150,000		\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21041	FY25 MFWQTC Equipment RR				\$ 2,500,000		\$ 2,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21042	FY25 MFWQTC Other Facilities Repairs				\$ 500,000		\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21048	FY25 NMC CSO Inspection Cameras				\$ 100,000		\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21049	FY25 NMC RTC				\$ 300,000		\$ 300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21047	FY25 NMC Support				\$ 100,000		\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21050	FY25 Operations Renewal & Replacement				\$ 2,300,000		\$ 2,300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21052	FY25 PS Replacement, Overhaul or Elimination				\$ 1,000,000		\$ 1,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21109	FY25 Regional WQTC Equipment RR				\$ 1,500,000		\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	G25001	FY25 Renewal & Replacement				\$ 2,000,000		\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-338	FY25 WQTC Engineering Support				\$ 100,000		\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-166	FY26 CMOM Collection System PS RR					\$ 600,000	\$ 600,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-167	FY26 CMOM Gravity Line Cleaning & Inspection					\$ 1,500,000	\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-168	FY26 CMOM I&C Implementation					\$ 292,500	\$ 292,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-169	FY26 CMOM Infrastructure Rehabilitation Program					\$ 2,000,000	\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-170	FY26 CMOM Program Management Assistance					\$ 9,513	\$ 9,513	\$ 140,487
Jefferson	Wastewater	CD - AM Commitment	BD-171	FY26 CMOM SCAP, AAM, FOG					\$ 150,000	\$ 150,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-182	FY26 MFWQTC Equipment RR					\$ 2,500,000	\$ 2,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-183	FY26 MFWQTC Other Facilities Repairs					\$ 500,000	\$ 500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-188	FY26 NMC CSO Inspection Cameras					\$ 100,000	\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-189	FY26 NMC RTC					\$ 300,000	\$ 300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-190	FY26 NMC Support					\$ 100,000	\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-191	FY26 Operations Renewal & Replacement					\$ 2,300,000	\$ 2,300,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-193	FY26 PS Replacement, Overhaul or Elimination					\$ 1,000,000	\$ 1,000,000	\$ -

Service Area	Service Type	Program	Budget ID	Project Name	FY22	FY23	FY24	FY25	FY26	Total 5 Year	Beyond
Jefferson	Wastewater	CD - AM Commitment	BD-194	FY26 Regional WQTC Equipment RR					\$ 1,500,000	\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-195	FY26 Renewal & Replacement					\$ 2,000,000	\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	BD-339	FY26 WQTC Engineering Support					\$ 100,000	\$ 100,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	A14129	Gorham Way Pump Station Elimination	\$ 66,393					\$ 66,393	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22023	HCWQTC Sludge Pad and Piping	\$ 250,000					\$ 250,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20008	Kirby Lane Pump Station Elimination		\$ 77,526	\$ 757,374			\$ 834,900	\$ -
Jefferson	Wastewater	CD - AM Commitment	E15035	Lake Forest Pump Station Eliminations	\$ 1,182,966	\$ 1,517,034				\$ 2,700,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	A20006	Lea Ann Way Pump Station Elimination		\$ 1,638,916	\$ 5,430,412	\$ 5,691,972		\$ 12,761,300	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20007	MF Peabody Gate Structure Study			\$ 53,200			\$ 53,200	\$ -
Jefferson	Wastewater	CD - AM Commitment	D15024	MFWQTC Chiller Replacement	\$ 225,068					\$ 225,068	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18161	MFWQTC Chlorine Contact Tanks Structural Repairs		\$ 289,100				\$ 289,100	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20229	MFWQTC Clarifier B5 Floor Repair		\$ 51,600				\$ 51,600	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18162	Repairs			\$ 63,800			\$ 63,800	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22014	MFWQTC Groundwater Monitoring and Well Repair	\$ 454,545	\$ 545,455				\$ 1,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20304	MFWQTC Headworks and Dumpster Building Repairs and Primary Blower Building Stair Repairs	\$ 60,051					\$ 60,051	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18121	MFWQTC Heat Polymer Water			\$ 345,600			\$ 345,600	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18159	MFWQTC HPO Tanks (Battery A, B, and C) Structural Repairs		\$ 2,494,300				\$ 2,494,300	\$ -
Jefferson	Wastewater	CD - AM Commitment	F14181	MFWQTC Process Water Pump & VFD		\$ 96,800				\$ 96,800	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18160	MFWQTC Secondary Clarifiers Structural Repairs		\$ 175,500				\$ 175,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	D18156	MFWQTC Service and Blower Building Structural Repairs	\$ 120,000					\$ 120,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20314	Repair	\$ 302,501					\$ 302,501	\$ -
Jefferson	Wastewater	CD - AM Commitment	D21181	MFWQTC Sodium Building Floor Repair	\$ 11,446					\$ 11,446	\$ -
Jefferson	Wastewater	CD - AM Commitment	H11306	Middle Fork Bg Crk SSR Ph 1				\$ 792,000		\$ 792,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21062	Modesto Pump Station Elimination		\$ 309,700				\$ 309,700	\$ -
Jefferson	Wastewater	CD - AM Commitment	D19048	MSD Radio Repeaters	\$ 793,458					\$ 793,458	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20010	Northern Ditch Pump Station Odor Control		\$ 691,700				\$ 691,700	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20011	Northern Ditch Pump Station Replacement		\$ 1,721,250	\$ 1,893,375	\$ 6,943,347	\$ 8,332,017	\$ 18,889,989	\$ 5,207,511
Jefferson	Wastewater	CD - AM Commitment	BD-157	Ohio River Interceptor - High Risk				\$ 5,103,837	\$ 9,475,703	\$ 14,579,540	\$ 40,384,860
Jefferson	Wastewater	CD - AM Commitment	D18285	ORFM Odor and Corrosion Control	\$ 303,444					\$ 303,444	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21066	Pirogue Pump Station Elimination		\$ 386,059	\$ 310,841			\$ 696,900	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22017	Regional Biosolids Management Study	\$ 250,000					\$ 250,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21070	Rosa Terrace PS Elimination	\$ 1,400,124					\$ 1,400,124	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21091	Sanders Lane PS Rehabilitation	\$ 570,304	\$ 29,289				\$ 599,593	\$ -
Jefferson	Wastewater	CD - AM Commitment	H22022	SGC Gate Replacements	\$ 2,000,000					\$ 2,000,000	\$ -
Jefferson	Wastewater	CD - AM Commitment	D20012	SGC RTC Enhancements	\$ 659,751	\$ 1,283,083	\$ 1,025,289	\$ 34,137		\$ 3,002,261	\$ -
Jefferson	Wastewater	CD - AM Commitment	H16076	Sneads Branch Pump Replacement	\$ 304,285	\$ 390,215				\$ 694,500	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21090	Sonne Avenue PS Elimination	\$ 1,474,641	\$ 28,638				\$ 1,503,279	\$ -
Jefferson	Wastewater	CD - AM Commitment	D19286	SWPS Gas Monitoring and SP1 Odor Control	\$ 1,019,354	\$ 1,558,886	\$ 67,291			\$ 2,645,532	\$ -
Jefferson	Wastewater	CD - AM Commitment	F21153	SWPS Gate Seal Replacement	\$ 100,460					\$ 100,460	\$ -
Jefferson	Wastewater	CD - AM Commitment	E21071	Wathen Lane PS Rehabilitation	\$ 953,883	\$ 15,840				\$ 969,723	\$ -
Jefferson	Wastewater	CD - Critical Sewer	E17053	Buechel Branch Interceptor Rehab		\$ 478,011	\$ 1,583,851	\$ 1,660,138		\$ 3,722,000	\$ -
Jefferson	Wastewater	CD - Critical Sewer	A20280	Harrods Creek Force Main Repair	\$ 255,823					\$ 255,823	\$ -
Jefferson	Wastewater	CD - Critical Sewer	H18503	I-64 and Grinstead Infrastructure Rehabilitation	\$ 3,794,442	\$ 10,789,511	\$ 1,548,271			\$ 16,132,224	\$ -
Jefferson	Wastewater	CD - Critical Sewer	A20244	Large Diameter Sewer Rehabilitation - Stage 1	\$ 4,437,853					\$ 4,437,853	\$ -
Jefferson	Wastewater	CD - Critical Sewer	A20244_Stage2	Large Diameter Sewer Rehabilitation - Stage 2	\$ 1,015,385	\$ 1,107,692	\$ 276,923			\$ 2,400,000	\$ -
Jefferson	Wastewater	CD - Critical Sewer	H16074	Nightingale Rehab	\$ 1,196,308					\$ 1,196,308	\$ -
Jefferson	Wastewater	CD - Critical Sewer	H16075	Prospect Phase II Rehab	\$ 457,757	\$ 2,049,236	\$ 793,007			\$ 3,300,000	\$ -
Jefferson	Wastewater	CD - Critical Sewer	H21019	Rudd Ave Sewer Infrastructure Rehabilitation	\$ 7,115,385	\$ 10,673,077	\$ 5,336,538			\$ 23,125,000	\$ -
Jefferson	Wastewater	CD - Critical Sewer	H20147	Western Outfall Infrastructure Rehabilitation	\$ 555,556	\$ 1,111,111	\$ 1,111,111	\$ 1,111,111	\$ 1,111,111	\$ 5,000,000	\$ -
Jefferson	Wastewater	CD - IOAP GI	H22011	Brown Foreman Project	\$ 158,000					\$ 158,000	\$ -
Jefferson	Wastewater	CD - IOAP GI	H22003	FY22 Green Infrastructure	\$ 500,000					\$ 500,000	\$ -
Jefferson	Wastewater	CD - IOAP LTCP	H19247_FY22	I-64 and Grinstead CSO Interceptor		\$ 2,898,469				\$ 2,898,469	\$ -
Jefferson	Wastewater	CD - IOAP LTCP	H09133	Ohio River Tunnel	\$ 18,882,706					\$ 18,882,706	\$ -
Jefferson	Wastewater	CD - IOAP LTCP	H09133-FY23	Ohio River Tunnel FY23		\$ 15,000,000				\$ 15,000,000	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H09165	Bardstown Road PS Improvements				\$ 393,231	\$ 2,726,980	\$ 3,120,211	\$ 708,189
Jefferson	Wastewater	CD - IOAP SSDP	H09192	Cinderella Pump Station Elimination	\$ 184,929	\$ 861,258	\$ 453,814			\$ 1,500,000	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H09179	Dell Road & Charlane Pkwy Interceptor				\$ 571,952	\$ 4,958,956	\$ 5,530,908	\$ 4,453,292
Jefferson	Wastewater	CD - IOAP SSDP	H09242	Gunpowder Pump Station		\$ 649,773	\$ 179,127			\$ 828,900	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H09164	Idlewood Inline Storage	\$ 3,382,804	\$ 1,026,050				\$ 4,408,854	\$ -

Service Area	Service Type	Program	Budget ID	Project Name	FY22	FY23	FY24	FY25	FY26	Total 5 Year	Beyond
Jefferson	Wastewater	CD - IOAP SSDP	H09171	Kavanaugh Road Pump Station Improvements		\$ 1,195,156	\$ 3,310,544			\$ 4,505,700	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H09196	Leven Pump Station Elimination	\$ 132,895	\$ 587,105				\$ 720,000	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H09163	Little Cedar Creek Interceptor Improvements	\$ 84,648	\$ 822,714	\$ 1,347,136	\$ 145,501		\$ 2,400,000	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H09188	Mellwood System Improvements and Pump Station Elimination - Winton And Mockingbird Valley Eliminations					\$ 236,254	\$ 236,254	\$ 2,206,546
Jefferson	Wastewater	CD - IOAP SSDP	H09182	Monticello Pump Station Elimination	\$ 378,168	\$ 85,832				\$ 464,000	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H10043	Raintree & Marian Ct 2 - Pipe Upgrades			\$ 253,210	\$ 838,990	\$ 879,400	\$ 1,971,600	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	A18354	Raintree Court and Marian Court Pump Station Elimination - Phase 1A	\$ 98,368					\$ 98,368	\$ -
Jefferson	Wastewater	CD - IOAP SSDP	H09186	Upper Middle Fork #2 PS Replacements				\$ 236,743	\$ 2,959,741	\$ 3,196,484	\$ 24,801,516
Jefferson	Wastewater	CD - IOAP SSDP	H18310	Upper Middle Fork Forcemain				\$ 331,192	\$ 1,939,387	\$ 2,270,579	\$ 20,021,221
Jefferson	Wastewater	CD - Specific Remedial Project	D18116_FY23	MFWQTC Biosolids Facility Replacement FY23-FY27		\$ 12,309,396	\$ 35,034,435	\$ 57,759,473	\$ 66,524,207	\$ 171,627,511	\$ 22,472,489
Jefferson	Wastewater	CD - Specific Remedial Project	D18116	MFWQTC Biosolids Replacement Facility	\$ 3,735,864					\$ 3,735,864	\$ -
Jefferson	Wastewater	CD Support	H20042	FY22 CIP Task Assistance	\$ 2,000,000					\$ 2,000,000	\$ -
Jefferson	Wastewater	CD Support	H18100	FY22 Modeling	\$ 1,200,000					\$ 1,200,000	\$ -
Jefferson	Wastewater	CD Support	H20043	FY23 CIP Task Assistance		\$ 2,064,800				\$ 2,064,800	\$ -
Jefferson	Wastewater	CD Support	H19023	FY23 Modeling		\$ 1,200,000				\$ 1,200,000	\$ -
Jefferson	Wastewater	CD Support	H20044	FY24 CIP Task Assistance			\$ 2,000,000			\$ 2,000,000	\$ -
Jefferson	Wastewater	CD Support	H20038	FY24 Modeling			\$ 1,200,000			\$ 1,200,000	\$ -
Jefferson	Wastewater	CD Support	H21025	FY25 CIP Task Assistance				\$ 2,000,000		\$ 2,000,000	\$ -
Jefferson	Wastewater	CD Support	H21044	FY25 Modeling				\$ 1,200,000		\$ 1,200,000	\$ -
Jefferson	Wastewater	CD Support	BD-165	FY26 CIP Task Assistance					\$ 2,000,000	\$ 2,000,000	\$ -
Jefferson	Wastewater	CD Support	BD-185	FY26 Modeling					\$ 1,200,000	\$ 1,200,000	\$ -
Jefferson	Wastewater	CMOM	H22016	AI Aquasight Software at CCWQTC	\$ 50,000					\$ 50,000	\$ -
Jefferson	Wastewater	CMOM	BD-009	CRRP Emergency Access Evaluation					\$ 687,050	\$ 687,050	\$ 687,050
Jefferson	Wastewater	CMOM	A19109	FY22 Construction Inspection	\$ 500,000					\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	H18009	FY22 Plumbing Modification Program	\$ 500,000					\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	A19122	FY23 Construction Inspection		\$ 500,000				\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	H19002	FY23 Plumbing Modification Program		\$ 500,000				\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	A20081	FY24 Construction Inspection			\$ 500,000			\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	H20080	FY24 Plumbing Modification Program			\$ 500,000			\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	A21032	FY25 Construction Inspections				\$ 500,000		\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	H21051	FY25 Plumbing Modification Program				\$ 500,000		\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	BD-172	FY26 Construction Inspection					\$ 500,000	\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	BD-192	FY26 Plumbing Modification Program					\$ 500,000	\$ 500,000	\$ -
Jefferson	Wastewater	CMOM	X_0287	Private Property I/I Program			\$ 539,650	\$ 539,650		\$ 1,079,300	\$ -
Jefferson	Wastewater	CMOM	E21068	SCADA Master Plan			\$ 797,600			\$ 797,600	\$ -
Jefferson	Wastewater	CMOM	H22015	Water Reuse Study	\$ 40,000					\$ 40,000	\$ -
Jefferson	Wastewater	Development	H18083	CC Zone F Collection System			\$ 400,753	\$ 744,031	\$ 1,865,303	\$ 3,010,088	\$ 1,305,712
Jefferson	Wastewater	Development	H18105	CC Zone G Collection System			\$ 206,449	\$ 383,290	\$ 960,918	\$ 1,550,658	\$ 672,642
Jefferson	Wastewater	Development	D18103	CCWQTC Expansion To 11.25 Mgd (FY23-FY27)		\$ 1,447,414	\$ 1,592,156	\$ 5,838,722	\$ 7,006,466	\$ 15,884,758	\$ 4,379,042
Jefferson	Wastewater	Development	BD-006	CCWQTC Re-rating		\$ 792,316	\$ 1,303,384			\$ 2,095,700	\$ -
Jefferson	Wastewater	Development	D18489	Fairmont Road Pump Station Force Main Extension - Phase 1	\$ 860,781					\$ 860,781	\$ -
Jefferson	Wastewater	Development	D21072	Fairmont Road Pump Station Force Main Extension - Phase 2	\$ 879,482	\$ 5,260,518				\$ 6,140,000	\$ -
Jefferson	Wastewater	Development	D18101	FFWQTC Expansion To 9.75 Mgd			\$ 2,823,878	\$ 8,118,649	\$ 12,669,646	\$ 23,612,173	\$ 5,331,127
Jefferson	Wastewater	Development	D20148	FFWQTC Regional Facilities Plan Update	\$ 497,863					\$ 497,863	\$ -
Jefferson	Wastewater	Development	D20351	Floyds Fork Interceptor	\$ 8,564,926	\$ 14,444,945	\$ 18,051,308	\$ 7,939,999	\$ 89,009	\$ 49,090,188	\$ -
Jefferson	Wastewater	Development	D20351-Con2	Floyds Fork Interceptor - Phase 2 Construction					\$ 5,498,027	\$ 5,498,027	\$ 37,311,973
Jefferson	Wastewater	Development	D20005	Floyds Fork Zone B Sewers Phase 1				\$ 1,264,739	\$ 4,190,608	\$ 5,455,347	\$ 4,392,453
Jefferson	Wastewater	Development	D18512	Floyds Fork Zone B Sewers Phase 2				\$ 2,432,792	\$ 4,516,683	\$ 6,949,475	\$ 19,249,825
Jefferson	Wastewater	Development	H19098/D18504	Floyds Fork Zone C Sewers Phase 1					\$ 1,013,096	\$ 1,013,096	\$ 6,875,304
Jefferson	Wastewater	Development	H19110	Reimbursement	\$ 250,000					\$ 250,000	\$ -
Jefferson	Wastewater	Development	H18018	FY22 Development Infrastructure Support	\$ 85,000					\$ 85,000	\$ -
Jefferson	Wastewater	Development	H19123	Reimbursement		\$ 100,000				\$ 100,000	\$ -
Jefferson	Wastewater	Development	H19009	FY23 Development Infrastructure Support		\$ 85,000				\$ 85,000	\$ -
Jefferson	Wastewater	Development	H20096	Reimbursement			\$ 100,000			\$ 100,000	\$ -
Jefferson	Wastewater	Development	H20097	FY24 Development Infrastructure Support			\$ 85,000			\$ 85,000	\$ -
Jefferson	Wastewater	Development	H21033	Reimbursement				\$ 100,000		\$ 100,000	\$ -
Jefferson	Wastewater	Development	H20134	FY25 Development Infrastructure Support				\$ 85,000		\$ 85,000	\$ -
Jefferson	Wastewater	Development	BD-173	Reimbursement					\$ 100,000	\$ 100,000	\$ -

Service Area	Service Type	Program	Budget ID	Project Name	FY22	FY23	FY24	FY25	FY26	Total 5 Year	Beyond
Jefferson	Wastewater	Development	BD-174	FY26 Development Infrastructure Support					\$ 85,000	\$ 85,000	\$ -
Jefferson	Wastewater	Development	H14126	HCWQTC Expansion	\$ 1,957,058					\$ 1,957,058	\$ -
Jefferson	Wastewater	Development	A14135	KTC Greenwood Rd Assmt				\$ 219,100		\$ 219,100	\$ -
Jefferson	Wastewater	Development	C22028	Lower Floyds Fork Facilities Plan	\$ 400,000					\$ 400,000	\$ -
Jefferson	Wastewater	Development	C22029	Ohio River Area Facilities Plan	\$ 400,000					\$ 400,000	\$ -
Jefferson	Wastewater	Development	BD-160	Reality Trail Interceptor		\$ 1,440,533	\$ 1,159,867			\$ 2,600,400	\$ -
Jefferson	Wastewater	Facilities	H22020	MFWTC Admin. Bldg. Renovation and Computer Room Expansion	\$ 1,500,000					\$ 1,500,000	\$ -
None Assigned	None Assigned	Management Reserve	G22008	FY22 Management Reserve	\$ 17,400,000					\$ 17,400,000	\$ -
Oldham	Wastewater	Agreed Order	W21006	OC Ash Avenue Interceptor	\$ 4,878,535	\$ 1,486,732				\$ 6,365,267	\$ -
Oldham	Wastewater	CMOM	H22027	FY22 OC Modeling	\$ 100,000					\$ 100,000	\$ -
Oldham	Wastewater	CMOM	BD-012	FY23 OC Modeling		\$ 100,000				\$ 100,000	\$ -
Oldham	Wastewater	CMOM	BD-014	FY24 OC Modeling			\$ 100,000			\$ 100,000	\$ -
Oldham	Wastewater	CMOM	BD-015	FY25 OC Modeling				\$ 100,000		\$ 100,000	\$ -
Oldham	Wastewater	CMOM	BD-016	FY26 OC Modeling					\$ 100,000	\$ 100,000	\$ -
Oldham	Wastewater	CMOM	W21126	OC Ohio River Service Area Rehabilitation	\$ 1,730,769					\$ 1,730,769	\$ -
Oldham	Wastewater	Development	BD-156	OC Forcemain to HCWQTC		\$ 417,342	\$ 1,522,994	\$ 1,795,463		\$ 3,735,800	\$ -
				Grand Total	\$ 200,671,279	\$ 205,700,454	\$ 214,209,027	\$ 216,521,625	\$ 196,017,186	#####	