



November 25, 2020

CERTIFIED

Irene Crawford, Regional Director
Missouri Department of Natural Resources
Northeast Regional Office
1709 Prospect Drive
Macon, MO 63552-2602

Re: Annual Reports #MO-0097837

Ms. Crawford,

Please accept the attached as the City of Columbia's annual reports for fiscal year 2020. The information attached includes work performed and projects accepted by the Sewer and Storm Water Utilities from October 1, 2019 to September 30, 2020. The City's Wastewater and Storm water Integrated Management Plan acknowledged by MDNR includes a 5-year action plan that guides the City's implementation activities. The IMP Implementation Plan tables on the following pages summarize the City's progress toward implementing the action plan and the plans for future years. There are no updates to the 5-year goals or anticipated actions at this time. It is anticipated the plan will be updated in 2024 or 2025 with the next 5-year action plan.

The IMP Implementation Plan and following detailed summaries provide the required permit information:

- Sewer Maintenance Summary
- Sewer Extension Summary
- Storm Water Maintenance Summary

Please contact me with any questions at (573) 441-5530.

Sincerely,

A handwritten signature in black ink that reads 'Erin Keys'.

Erin Keys, P.E.
Engineering and Operations Manager
Sanitary Sewer and Storm Water Utilities

Enclosures

c:

Leasue Meyers MDNR WPP Engineering Section
Justin Sherwood - MDNR Integrated Management Plan Coordinator
David Sorrell, P.E., Assistant Director
Kori Thompson, P.E., Engineering Supervisor

573.441.5530
 573.446.8112 fax

P.O. Box 6015
Columbia, Missouri 65205

CoMo.gov

Our vision: Columbia is the best place for everyone to live, work, learn and play.

Columbia 5-Year IMP Action Plan ¹						
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	Future Plans
Wastewater Treatment						
Wet Weather Improvements*	Implement early measures to enhance peak flow capacity at CRWWTP.	<ul style="list-style-type: none"> Modify existing CRWWTP structures to provide additional wet weather flow storage. 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. Regulatory compliance. 	<ul style="list-style-type: none"> Installed slide gate valve at WWTP outlet box. June 2019 \$20,455.00 Installed pipe between I&I basin and sludge lagoon so both can act as wet weather basins. July 2018 \$32,047.20 		<ul style="list-style-type: none"> Optimize operation of slide gate valve at WWTP outlet box.
Digester Rehabilitation*	Rehabilitate aging biosolids digestion facilities.	<ul style="list-style-type: none"> Target design completion by 2019. Target construction completion by 2021. 	<ul style="list-style-type: none"> Provide sustainable services for the future. 	<ul style="list-style-type: none"> Hired a consultant to design the Digester Complex Rehabilitation project. This project includes new covers and mixers for the three (3) primary digesters along with building roof improvements. June 2018 ~\$1,279,769 for Design and Construction Phase Services Hired a Construction Manager At Risk for the Digester Complex Rehabilitation Project. January 2019 ~\$5,761,084 Rehabilitated the 6" line from the primary sludge thickener building to the digester complex using a CIPP liner. September 2018 ~\$6,500 	<ul style="list-style-type: none"> Published an article in the City Source newsletter highlighting the Digester Complex Rehabilitation project. April 2020 	<ul style="list-style-type: none"> Complete construction of Digester Complex Rehabilitation Project.
Constructed Wetlands Maintenance	Initiate constructed wetlands maintenance efforts to improve treatment efficiency.	<ul style="list-style-type: none"> Develop plan and detailed cost estimates for implementing improvement actions. 	<ul style="list-style-type: none"> Provide sustainable services for the future. 			<ul style="list-style-type: none"> Issue RFP for multi-year contract for Wetlands Maintenance Services.
Other Actions taken at WWTP				<ul style="list-style-type: none"> Rehabilitated a badly deteriorated sewer structure located with the plant piping system using a CIPP liner. November 2018 ~\$20,480 		

Columbia 5-Year IMP Action Plan¹

Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	Future Plans
Wastewater Collection						
System Renewal*	Continue system renewal at current rates with appropriation of dedicated funding to provide effective wastewater collection.	<ul style="list-style-type: none"> Rehabilitate up to 1% of collection system structures per year, depending upon contractor availability and pricing. Secure dedicated annual funding for continued renewal. Current bond funding runs out in 2019. 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Began construction of the FY18 Sewer Rehabilitation project. September 2018 ~\$2,404,712.63 Constructed the Upper Merideth Sewer Relocation and Stream Stabilization Project. April 2019 ~\$351,397 17,278 feet sewer CCTV inspected (FY2019) 167 sanitary structures raised/replaced; 668 feet sewer repaired/replaced (FY2019) 	<ul style="list-style-type: none"> Sewer collection system maintenance summary for FY2020 is attached Completed FY18 Sewer Rehabilitation project. Developed new technical specifications and RFP for a multi-year contract for Sewer and Stormwater Rehabilitation and Cleaning Services. 14,988 feet sewer CCTV inspected 193 sanitary structures raised/replaced; 337 feet sewer repaired/replaced 	<ul style="list-style-type: none"> Sign a multi-year contract for Sewer and Stormwater Rehabilitation and Cleaning Services. Initiate work on Sewer Rehab 2019 Transfer of bond funds from other projects to fund through 2025. N Garth Sewer Replacement S Providence Sewer Relocation
Private Common Collector Elimination (PCCE)*	Implement identified PCCE projects in the CIP with appropriation of dedicated funding to reduce illicit sewage discharges.	<ul style="list-style-type: none"> Continue Private Common Collector elimination, depending on ability to gain easements, as well as contractor availability and pricing. Secure dedicated funding. Current bond funding runs out 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Constructed the following private common collector elimination (PCCE) projects: <ul style="list-style-type: none"> PCCE #24 PCCE #39 PCCE #8 Phase 1, 2, 3 PCCE #3 Phase 1 PCCE #16 Phase 1 and 2 	<ul style="list-style-type: none"> Constructed the following private common collector elimination (PCCE) projects: <ul style="list-style-type: none"> PCCE #3 Phase 2 PCCE #8 Phase 4 PCCE #16 Phase 2 PCCE #22 Allocated prior year appropriation to future PCCE projects in Dec 2019. 	<ul style="list-style-type: none"> Proposed FY2021 construction of the following private common collector elimination (PCCE) projects: <ul style="list-style-type: none"> PCCE #3 Phase 3 PCCE #8 Phase 5 PCCE #16 Phase 3 PCCE #18 PCCE #21
Reduce Building Backups*	Implement backflow prevention program to reduce building backups.	<ul style="list-style-type: none"> Obtain Council approval for backflow prevention program with allocation of \$100,000 per year for 5 years. Implement community outreach to build awareness of backflow prevention 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Implemented Cost Reimbursement Program for the Installation of Pressure Sewers and Backflow Devices or Removal of Plumbing Fixtures. July 2017 3 applications received. Funded \$1002.01 in reimbursements Published article in City Source newsletter December 2018 and July 2019 Dry Weather: 8 SSO; 7 backups FY19 	<ul style="list-style-type: none"> Sewer collection system maintenance summary for FY2020 is attached 0 applications received. Dry Weather: 6 SSO; 5 backups 	<ul style="list-style-type: none"> Continue to fund reimbursement programs

Columbia 5-Year IMP Action Plan¹

Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	Future Plans
System Capacity Enhancements and Private I/I Reduction*	Reevaluate private I/I program to reduce peak wet weather flows.	<ul style="list-style-type: none"> Assess benefits and cost-effectiveness of previous and modified private I/I program. Implement community outreach to build awareness of modified program. 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. Regulatory compliance. 	<ul style="list-style-type: none"> Revised ordinance for Cost Reimbursement Program for Private Source Inflow and Infiltration Reduction. Dec 2017 and July 2019 5 applications received. Funded \$4485 in reimbursements Published an article in City Source newsletter January 2019 and July 2019 Wet Weather: 20 SSO; 2 backups FY2019 	<ul style="list-style-type: none"> Sewer collection system maintenance summary for FY2020 is attached 2 applications received. Funded \$675 in reimbursements Published an article in City Source newsletter December 2019 Wet Weather: 2 SSO; 0 backups 	<ul style="list-style-type: none"> Develop flow model to identify capacity and I/I issues
System Expansion	Provide adequate and cost-effective wastewater services to developing areas for watershed protection.	<ul style="list-style-type: none"> Fund expansion projects currently identified in the CIP, as needed. Develop systematic approach for evaluating sewer extensions to better identify sewer mains that should be upsized to convey future capacity. 	<ul style="list-style-type: none"> Protect quality of life. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Constructed the Upper Hinkson Creek Outfall Extension Phase 1. August 2017 ~\$9,792,638 	<ul style="list-style-type: none"> Sewer permit extension summary for FY2020 is attached Constructed the Fifth to Wilkes Relief Sewer Phase 1. July 2020 ~\$384,280 Hired Innovyze to aid in the development of a wastewater collection model in Innovyze's InfoSWMM software. Feb 2020 ~\$54,000 Hired a Sewer Technician to aid in modeling efforts on November 18, 2019 	<ul style="list-style-type: none"> Continue to review and permit sewer extensions
Wet Weather Planning*	Develop collection system model and evaluate future system capacity enhancement strategies.	<ul style="list-style-type: none"> Conduct comprehensive flow monitoring through 2020 to calibrate collection system model. Develop model by 2021. Evaluate system capacity enhancement strategies through 2022. 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. Regulatory compliance. 		<ul style="list-style-type: none"> Hired Innovyze to aid in the development of a wastewater collection model in Innovyze's InfoSWMM software. Feb 2020 ~\$54,000 Hired a Sewer Technician to aid in modeling efforts on November 18, 2019 	<ul style="list-style-type: none"> Contract with engineer to develop flow monitoring and calibrate model Tupelo Larch Sewer Relocation
System Cleaning	Enhance sewer cleaning program to practicably mitigate overflows and backups due to blockages.	<ul style="list-style-type: none"> Develop prioritized cleaning program. Purchase new jet truck. Plan for new building for field operations and collections personnel. 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> 883,311 feet sewer cleaned FY2019 Purchased jet truck June 2018 	<ul style="list-style-type: none"> Sewer collection system maintenance summary for FY2020 is attached Purchased jet truck December 2019 597,866 feet sewer cleaned Purchased CCTV truck June 2020 	<ul style="list-style-type: none"> Continue sewer collection system maintenance and inspections

Columbia 5-Year IMP Action Plan¹

Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³	Prior to FY2020	FY 2020	Future Plans
Stormwater Management						
MS4 Program Enhancements*	Enhance Public Education and Outreach, Illicit Discharge Detection and Elimination, and Construction Site Stormwater Runoff Control to reduce bacteria, sediment, and trash discharges.	<ul style="list-style-type: none"> Continue to develop and distribute public education messages as outlined in the Stormwater Management Plan. Hire technician to support MS4 program with focus on IDDE. Conduct stream walks and outfall inspections in all City streams within 5-year action plan period. Develop map of stormwater outfalls. Update Erosion and Sediment Control Manual and policies and procedures. Continue to work with MS4 partners to effectively implement stormwater management program, particularly Minimum Control Measure #4. Continue to work with MS4 partners to implement CAM program to improve Hinkson Creek water quality. 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. Regulatory compliance. 	<ul style="list-style-type: none"> Published an article in City Source newsletter in June 2018 Hired a Storm Water MS4 Technician on January 28, 2019 Completed 22 illicit discharge investigations Developed a stormwater outfall map for MS4 permit renewal, 2307 outfalls identified. 2017-2018 CAM Progress Report submitted 	<ul style="list-style-type: none"> Published an article in City Source newsletter in October 2019, June 2020, and Aug 2020 Inspected 92,567 feet sewer line for damage. Completed 23 illicit discharge investigations Completed 131 outfall inspections 	<ul style="list-style-type: none"> Update MS4 Storm water Management Plan (SWMP) and implement required public outreach. Continue IDDE inspections Continue outfall inspections with a goal of 20% each year
System Renewal	Implement renewal program to address failing corrugated metal pipe (CMP) and structures beyond physical effective life.	<ul style="list-style-type: none"> Initiate renewal activities as resources and funding allow. Secure additional funding to implement these actions. 	<ul style="list-style-type: none"> Protect public health and safety. Improve quality of life. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Repaired thirty-one (31) storm structures and replaced one (1) FY2019 Replaced 458 feet storm pipe FY2019 	<ul style="list-style-type: none"> Storm water maintenance summary for FY2020 is attached Repaired twenty-six (26) storm structures and replaced three (3) Replaced 1,229 feet storm pipe 	<ul style="list-style-type: none"> FY19 Storm Rehab project & Aldeah and Ash Replacement and Rehabilitation Greenwood South Garth at Oak Towers Leslie Lane
Condition Assessment	Establish and begin implementing a condition assessment program.	<ul style="list-style-type: none"> Begin assessing CMP throughout the City. Secure additional funding to implement these actions. 	<ul style="list-style-type: none"> Protect public health and safety. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> CCTV inspected 32,660 feet of storm pipe FY2019 	<ul style="list-style-type: none"> Storm water maintenance summary for FY2020 is attached CCTV inspected 57,425 feet storm pipe Developed new technical specifications and RFP for a multi-year contract for Sewer and Stormwater Rehabilitation and Cleaning Services. 	<ul style="list-style-type: none"> Continue storm pipe inspections as necessary

Columbia 5-Year IMP Action Plan¹

Columbia 5-Year IMP Action Plan ¹				Prior to FY2020	FY 2020	Future Plans
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³			
Flood Reduction	Address known areas of flooding to reduce public health and safety concerns.	<ul style="list-style-type: none"> Implement opportunistic flood reduction projects, depending on available funding after emergency and critical system repairs. Develop stormwater project ranking system. 	<ul style="list-style-type: none"> Protect public health and safety. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Developed a ranking system 	<ul style="list-style-type: none"> Evaluated current projects identified in CIP under new ranking system and revised funding amounts and years as needed 	<ul style="list-style-type: none"> Design Hickman & 6th Design Calvert Drive
Runoff Treatment	Reduce pollutant runoff in Hinkson Creek tributary watersheds to improve water quality.	<ul style="list-style-type: none"> Implement opportunistic runoff treatment projects, depending on available funding. Develop stormwater project ranking system. Continue to implement CAM process. 	<ul style="list-style-type: none"> Protect public health and safety. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Developed a ranking system CAM study: Hinkson Creek Aquatic Macroinvertebrate Data Mining Project 	<ul style="list-style-type: none"> Evaluated current projects identified in CIP under new ranking system and revised funding amounts and years as needed CAM study: Agerich Hinkson Creek Synoptic Sampling 	<ul style="list-style-type: none"> Fund CAM studies and projects as appropriate
Stream Erosion Control	Stabilize stream channels with excessive channel erosion to reduce sediment discharges.	<ul style="list-style-type: none"> Identify and implement opportunistic stream erosion control projects, depending on available funding after emergency and critical system repairs. Develop stormwater project ranking system. Continue to implement CAM process. 	<ul style="list-style-type: none"> Protect public health and safety. Provide sustainable services for the future. Improve water quality. 	<ul style="list-style-type: none"> Constructed the Upper Merideth Sewer Relocation and Stream Stabilization Project. April 2019 ~\$351,397 Developed a ranking system 	<ul style="list-style-type: none"> Evaluated current projects identified in CIP under new ranking system and revised funding amounts and years as needed 	<ul style="list-style-type: none"> Fund CAM studies and projects as appropriate
Planning and Program Support	Develop stormwater master plan and enhance data management processes.	<ul style="list-style-type: none"> Initiate master planning and data management efforts. Secure additional funding to implement these actions. 	<ul style="list-style-type: none"> Protect public health and safety. Provide sustainable services for the future. Improve water quality. 			<ul style="list-style-type: none"> Cost of Service Study Fall 2020

Columbia 5-Year IMP Action Plan ¹				Prior to FY2020	FY 2020	Future Plans
Program or Project ²	Goal	Anticipated Actions	Targeted Community Benefits ³			
Activities to Measure Water Quality Improvements⁴						
Water Quality Monitoring	Implement water quality monitoring program to help define baseline conditions and track future improvements.	<ul style="list-style-type: none"> Develop water quality monitoring plan within first 5 years and implement when additional funding is secured. 	<ul style="list-style-type: none"> Evaluate IMP effectiveness. Provide technical basis for future IMP modifications. 			<ul style="list-style-type: none"> Develop RFP for water quality monitoring and identify funding source
Hinkson Creek Flow Gage	Collect continuous Hinkson Creek stream flow data.	<ul style="list-style-type: none"> Continue annual funding for USGS flow gage operation. 	<ul style="list-style-type: none"> Evaluate IMP effectiveness. Provide technical basis for future IMP modifications. 	<ul style="list-style-type: none"> Renewed funding 2018 and 2019 	<ul style="list-style-type: none"> Renewed funding 2020 	<ul style="list-style-type: none"> Renewed funding for 2021
<p>Note 1 - Goals and actions identified in this 5-Year IMP Action Plan reflect the City's understanding of infrastructure and regulatory needs and priorities with respect to the information currently available. The City will implement these actions to the extent possible but acknowledge that weather, staff availability, Council approval and other resource constraints or unanticipated needs may impede complete implementation of the Action Plan or require that it be modified. Further, the City notes that many of the activities outlined in this Action Plan assume that sufficient additional funding will be made available through sewer rate increases, bond financing that must be approved through a local election, and stormwater rate increases that must be approved by a majority vote. If sufficient additional funding does not become available, the 5-Year IMP Action Plan will be modified to reflect available funding and resources.</p> <p>Note 2 - High priority program and project needs were identified by City staff and are denoted with an asterisk (*). These represent projects that are intended to directly and expeditiously reduce significant public health risks, improve water quality, or enhance customer service.</p> <p>Note 3 - Targeted community benefits are presented in Section 4.3 and explained in greater detail in Attachments J and N.</p> <p>Note 4 - Element 5 of EPA's Framework requires that municipalities outline activities that will be used to measure IMP effectiveness. Activities listed here will be used to measure water quality improvements that occur over time. Additional program management and Utility service performance measures are discussed in Section 6.</p>						

Columbia Regional Wastewater Treatment Plant #MO-0097837

Sewer Extension Program Annual Report October 1, 2019 to September 30, 2020⁽⁶⁾

Project Name	Population	Type of Wastewater	Design Flow	Length	Flow Type	Permit Date	Air Test	Vacuum Test	Mandrel Test	Camera Inspection	Construction Pre-Final	Final
St. Charles Rd & Battle Ave Roundabout Sewer	2 Commercial Lots (6.6 & 17.3 acres)	Domestic	130,000 GPD	808	Gravity	5/21/2019	7/30/2019	7/30/2019	8/19/2019	9/4/2019	9/5/2019	10/1/2019
Nifong Shopping Center- Sewer Relocation	N/A	Domestic	N/A - no addtl flow ⁽⁴⁾	177	Gravity	3/21/2019	9/4/2019	9/5/2019	9/5/2019	9/9/2019	9/10/2019	10/15/2019
Tiger Shrine Club Sewer	1 Single Family Lot	Domestic	435 GPD	394	Gravity	10/15/2019	12/20/2019	12/20/2019	12/20/2019	12/31/2019	1/2/2020	1/14/2020
Copperstone Lot 102A	4 Single Family Lots/2 Commercial Lots	Domestic	4,790 GPD	455	Gravity	9/18/2019	11/4/2019	11/4/2019	12/13/2019	1/3/2020	1/8/2020	1/30/2020
Gates Plat 4, The	26 Single Family Lots	Domestic	9,620 GPD	2077	Gravity	12/21/2017	10/17/2019	10/17/2019	11/4/2019	1/10/2020	1/10/2020	2/5/2020
5305 E. St. Charles Road Sewer Extension	1 Single Family Lot	Domestic	370 GPD	377	Gravity	10/2/2020	11/26/2019	11/26/2019	1/14/2020	1/31/2020	2/11/2020	2/7/2020
Woodstrail Ridge	16 Single Family Lots	Domestic	85,248 GPD	10	Gravity	6/27/2020	6/25/2019	6/25/2019	7/30/2019	8/22/2020	8/22/2019	2/13/2020
Lewis Sewer Extension	1 Single Family Lot	Domestic	370 GPD	295	Force	2/27/2020	11/5/2019	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	11/8/2019	2/25/2020
Westbury Village	11 Single Family Lots	Domestic	42,768 GPD	2793	Gravity	5/29/2019	9/17/2019	9/17/2019	9/18/2019	9/23/2020	9/24/2019	2/25/2020
Woodsong Subdivision	38 Single Family Lots	Domestic	14,060 GPD	2249	Gravity	1/8/2020	12/13/2019	12/13/2019	1/7/2020	4/27/2020	4/29/2020	5/8/2020
Gas Light Industrial Park Plat 4	5 Employees	Domestic	75 GPD	568	Gravity	6/11/2020	3/5/2020	3/5/2020	3/5/2020	5/13/2020	5/14/2020	5/19/2020
Bristol Ridge Plat 1	59 single family lots	Domestic	21,830 GPD	4025	Gravity	5/17/2019	1/8/2020	1/8/2020	1/31/2020	4/13/2020	5/13/2020	5/19/2020
Shelter Insurance North Campus Facility	200 Employees	Domestic	3,000 GPD	992	Gravity	8/13/2020	5/10/2019	5/10/2019	5/14/2019	8/20/2020	8/20/2019	7/2/2020
Phi Kappa Psi (809 S. Providence)	N/A	Domestic	N/A - no addtl flow ⁽⁴⁾	325	Gravity	12/28/2018	8/29/2019	8/29/2019	12/13/2019	12/30/2019	12/31/2019	8/7/2020
Cullimore Cottages	10 Single Family Units	Domestic	3,700 GPD	275	Gravity	8/27/2020	6/17/2020	6/17/2020	8/6/2020	8/19/2020	8/19/2020	8/31/2020
Ash Street Community	10 Single Family Units	Domestic	3,700 GPD	655	Gravity	5/19/2020	7/30/2020	7/30/2020	8/5/2020	8/18/2020	8/18/2020	9/1/2020
City of Columbia CIP Program												
Columbia Country Club Sewer Relocation	N/A	Domestic	n/a - no addtl flow ⁽⁴⁾	216	Gravity	10/8/2019	N/A ⁽²⁾	N/A ⁽³⁾	12/11/2019	1/6/2020	11/11/2019	12/23/2019
PCCE #03 (Stewart-Ridge-Medavista) Phase 2	8 Single Family Lots	Domestic	2,960 GPD ⁽⁵⁾	59	Gravity	11/1/2019	3/3/2020	3/3/2020	7/8/2020	7/8/2020	6/30/2020	7/15/2020
PCCE #08 (Thilly-Lathrop-Westmount) Phase 4	16 Single Family Lots	Domestic	5,920 GPD ⁽⁵⁾	2090	Gravity	8/16/2019	12/19/2019	12/19/2019	3/3/2020	3/6/2020	4/22/2019	5/19/2020
PCCE #16 (Bingham-Ridgeley) Phase 2	10 Single Family Lots	Domestic	3,700 GPD ⁽⁵⁾	696	Gravity	8/26/2019	11/26/2019	11/26/2019	1/3/2020	1/30/2020	5/14/2020	5/15/2020
PCCE #22 (Shannon Place)	2 Single Family Lots	Domestic	740 GPD ⁽⁵⁾	120	Gravity	7/8/2020	7/24/2020	N/A ⁽³⁾	8/25/2020	8/7/2020	8/14/2020	9/1/2020

(1) Force main system. Testing not applicable.

(2) Testing was not done due to live sewer flow.

(3) Existing manholes were cored into. Testing not applicable.

(4) No additional flow was created by this project.

(5) The private common collector elimination projects replaced private sewer systems already connected to the public system. Therefore, no additional flow has been added to the system.

(6) The fiscal year average daily effluent flow at Outfall #001 was approximately 16.2 MGD. The treatment plant has a permitted capacity of 25.2 MGD. The projects approved are anticipated to produce approximately 0.33 MGD and will not adversely impact the treatment plant. There were no warnings or violations issued to contractors for sewer extension projects.

Maintenance Summary FY 20

FY 20	Sewer Maintenance Service Request/Sanitary Sewer Overflow and Backup Summary							Feet of Sewer Cleaned			Sewer TV Inspected	Manhole/Lamphole		Sewer Replaced
	Private	Public #				Other*	Total	Flushing	RootSaw	Total		Raised/Repaired	New Mh/Built	
		Dry Weather		Wet Weather										
		SSO	Backup	SSO	Backup									
OCT	6					1	7	47,605	4,850	52,455	17,161	8		65
NOV	6	1	2			0	9	35,136	1,055	36,191	14,050	44		35
DEC	11	1				1	13	37,715	1,715	39,430	7,115	14		70
JAN	9					3	12	34,945	0	34,945	9,590	9		5
FEB	8	1	1			4	14	26,895	10,545	37,440	9,035	3		23
MAR	14					2	16	47,160	945	48,105	20,185	6		32
APR	16					7	23	3,445	0	3,445	9,905	0		7
MAY	7	1		1		1	10	58,725	19,310	78,035	10,785	20		14
JUNE	13	2	1			0	16	38,840	33,460	72,300	22,160	15		0
JULY	10					1	11	55,295	9,190	64,485	16,035	50		10
AUG	11			1		5	17	52,250	9,190	61,440	22,280	10		60
SEP	10		1			3	14	54,600	14,995	69,595	21,560	14		16
TOTAL	121	6	5	2	0	28	162	492,611	105,255	597,866	179,861	193	0	337
AVG	10.1	0.5	0.4	0.2	0.0	2.3	13.5	41,051	8,771	49,822	14988	16.1	0.0	28

*other are service request responses not related to the sanitary sewer system.

does not include bypasses

Storm Water Maintenance Summary FY 20

FY 20	Feet of Storm Cleaned		Feet of Storm TV Inspected	Number of Structures, Mh's, Inlets, etc.		Feet of Pipe Replaced
	Jetting	Cleaning		Raised/Repaired	New Structures	
OCT	340		7820	2	1	48
NOV	0		0	6		28
DEC	0		665	3		0
JAN	0		2670	1		5
FEB	0		2140	3		18
MAR	0		6760	3		17
APR	0		4840	1		57
MAY	0		5670	1		145
JUNE	0		5610	2		103
JULY	0		6335	0		150
AUG	0		8620	1		40
SEP	0		6295	3		10
TOTAL	340		57425	26	1	621
AVG	28	0	4785	2.2	0.1	52

Maintenance Projects Complete by Contract

Derby Ridge	43
Oakland Gravel	490
Parkridge Dr	27
South Glenwood	48
Total	608
Grand Total	1,229