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April 30, 2020

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Subject: Quarterly Report 58  
Civil Action No. 3:08-cv-00608-CRS

Attention Director and Chiefs:

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Please find attached our Quarterly Report, prepared in accordance with Paragraph 29 of our Amended Consent Decree. This report is for the period January 1, 2020 – March 31, 2020, pertaining to Consent Decree compliance activities. Included are sections on Project WIN activities related to: NMC, SORP, Discharge Abatement Plans, Public Outreach, Education, Notification and Participation, CMOM and Performance Overview.

I certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have questions or need additional information, please contact me at (502) 540-6136.

Sincerely,

Angela Akridge, PE  
Louisville MSD Chief Strategic Officer

cc: James A. Parrott  
Jacquelyn Quarles  
File



# **Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #58**



**Reporting Period:**

January 1, 2020 through March 31, 2020

**Submitted To:**

Kentucky Department of Environmental Protection  
United States Environmental Protection Agency  
United States Department of Justice

**Submitted By:**

Louisville and Jefferson County Metropolitan Sewer District  
700 W. Liberty Street  
Louisville, Kentucky 40203-1911

**Submittal Date:**

April 30, 2020





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## INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) is currently under an Amended Consent Decree with the Kentucky Department of Environmental Protection (KDEP), the United States Environmental Protection Agency (EPA), and the United States Department of Justice. The Amended Consent Decree was signed by United States District Judge Simpson on April 10, 2009 and filed in United States District Court, Western Division of Kentucky, Louisville Division, on April 15, 2009.

### Quarterly Reporting Period

This is the fifty-eighth Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from January 1, 2020, through March 31, 2020. The structure for this report is outlined as follows:

**Section 1: Project Waterway Improvements Now (WIN) Performance Overview** – This section provides an accounting of unauthorized discharges from the separate sanitary and combined sewer systems, and the estimated volumes along with performance information on bypasses at WQTCs. A discussion of the probable reductions in both unauthorized discharge points and the discharges from MSD's Combined Sewer Overflow (CSO) locations, identified in the Morris Forman Water Quality Treatment Center Kentucky Pollutant Discharge Elimination System (KPDES) permit, that are expected to result from MSD's projects and activities during the reporting period are also contained in this section.

**Section 2: Program Activities for Nine Minimum Controls (NMC)**– This section describes the data collected for NMC 2 – Maximization of Storage in the Collection System, and NMC 4 – Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC) that were active during the reporting period.

**Section 3: Program Activities for Sewer Overflow Response Protocol (SORP)** – This section describes the training attendance records, overflow data, and overflow reconnaissance inspection routes related to SORP that were active during the reporting period.

**Section 4: Program Activities for Discharge Abatement Plans (DAP)** – This section describes the schedule and status for projects related to the DAP by means of an updated Gantt chart for active DAP projects during the reporting period. This section also includes the anticipated projects and activities that are scheduled for continued compliance with the Amended Consent Decree.

**Section 5: Program Activities For Public Outreach, Education, Notification and Participation** – This section describes the activities related to public outreach that were active during the reporting period.

**Section 6: Capacity Management Operations and Maintenance (CMOM) Report** – The CMOM program activities and programmatic activities for WQTCs generating capital projects are reported in a Gantt chart for the reporting period. This section also includes the schedule for activities planned for the next reporting period for continued compliance with the Amended Consent Decree.



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## SECTION 1: PROJECT WATERWAY IMPROVEMENTS NOW (WIN) PERFORMANCE OVERVIEW

### 1.1. COMBINED SEWER OVERFLOW REDUCTION AND SANITARY SEWER OVERFLOW ABATEMENT ACTIVITIES

The following sections outline the activities performed during the reporting period to reduce or control CSOs and eliminate SSOs.

#### 1.1.1. SANITARY SEWER OVERFLOW ELIMINATION ACTIVITIES

Refer to Section 4.4.1 for Final SSDP project updates.

#### 1.1.2. COMBINED SEWER OVERFLOW REDUCTION AND CONTROL ACTIVITIES

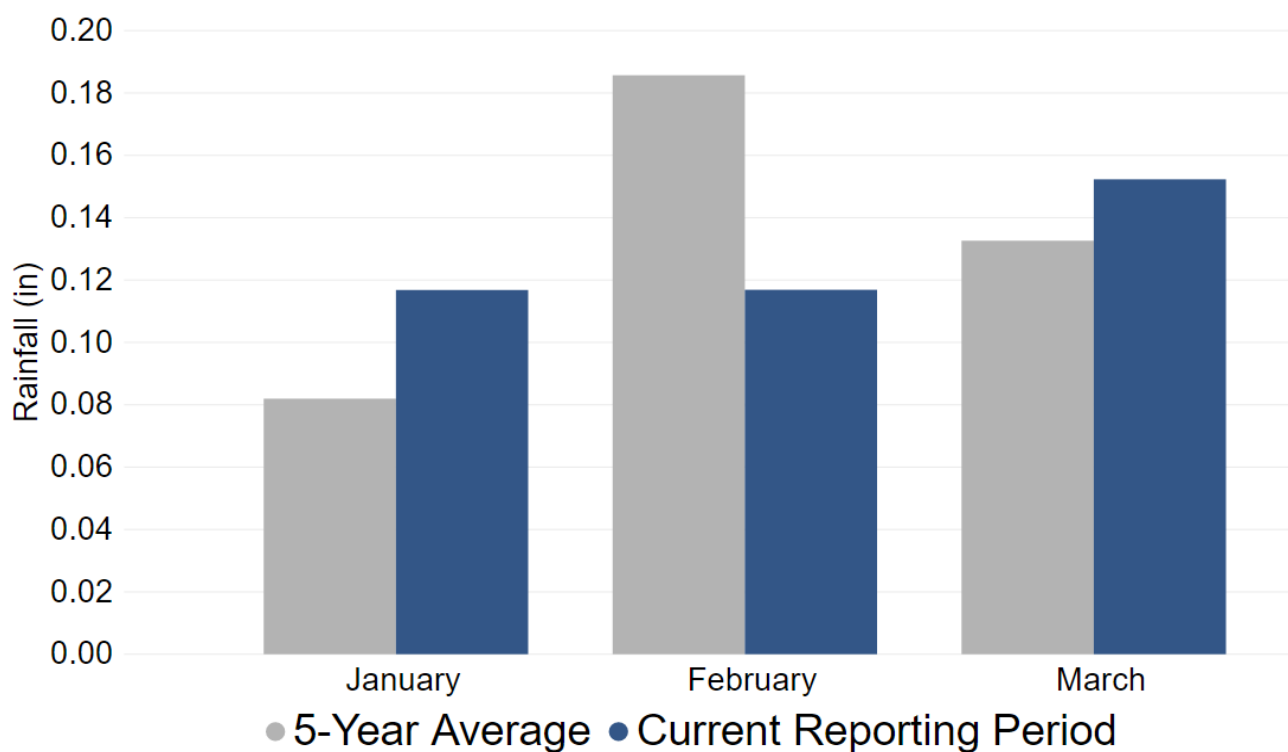
Refer to Section 4.4.2 for CSO LTCP project updates.

### 1.2. SYSTEMWIDE PERFORMANCE

#### 1.2.1. RAINFALL

The number and the volume of wet weather overflows are directly related to the amount of rain that has fallen during the reporting period. Figure 1.1 shows the service area daily average rainfall amounts for each month of the last quarter, compared with the average of the daily average rainfall for the previous five years. Data was pulled from MSD's rain gauge network. Daily average rainfall was above average for January and March and below average for February when compared with the previous 5-year average for these months.

Figure 1.1. Daily Average Rainfall by Month



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## **1.3. WATER QUALITY TREATMENT CENTER PERFORMANCE**

### **1.3.1. BYPASSES**

There were one bypass event that occurred during this reporting period. Any details are included in Appendix A-1. Each quarter when bypasses occur, an assessment of bypasses is conducted to determine root cause of the bypass, the failure category, corrective actions to be taken, possible programmatic solutions, and corrective action completion date.

### **1.3.2. JEFFERSONTOWN WATER QUALITY TREATMENT CENTER**

A letter dated December 23, 2015, certified the elimination of Jeffersontown WQTC. Inspections were conducted upstream of what was previously Jeffersontown WQTC Headworks during the reporting period. There were no overflows reported as a result of these inspections. Refer to Section 3.2 for SSO Route information.

### **1.3.3. PHOSPHORUS MONITORING AT THE PROSPECT WQTCs**

An elimination plan for the five WQTCs serving Prospect (Timberlake, Hunting Creek North, Hunting Creek South, Ken Carla, and Shadow Wood) was submitted to EPA/KDEP on March 31, 2009. Approval of this plan was received on September 24, 2009, and work is now complete. A certification letter dated December 15, 2015, was submitted finalizing the completion of the project.

## **1.4. COMBINED SEWER OVERFLOW PERFORMANCE**

### **1.4.1. AUTHORIZED DISCHARGES – WET WEATHER CSOs**

The observed CSO data for the reporting period for each monitored overflow has been tabulated, along with rainfall information from the nearest rain gauge to facilitate review of the overflows that occurred. This data is included as Appendix B.

### **1.4.2. UNAUTHORIZED DISCHARGES – DRY WEATHER CSOs**

There was one dry weather overflow reported at a CSO during the reporting period. Any details are included in Appendix A-2. MSD records information related to dry weather overflows from permitted combined sewer overflow outfalls. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. A detailed report of these overflows will be included in the Annual Report for the current reporting period.

### **1.4.3. CSO FLOW MONITORING QUALITY IMPROVEMENT**

During the July 2016 – September 2016 reporting period, MSD identified a potential for inaccurate volume reporting at some CSOs. This was identified by comparing measured overflow volumes against modeled overflow volumes for similar storms. It was determined that several CSO flow monitors are affected by backwater levels from the receiving streams causing a discrepancy actual overflow volume, along with other potential variables at some locations. MSD notified EPA and KDEP of data discrepancies on September 29, 2016.

A workgroup was established to review CSO flow monitoring and resolve potential over-reporting of overflow volumes. Initial findings indicated that potentially significant discrepancies between modeling and monitoring data existed at 33 of MSD's 98 CSO locations. This set of 33 CSOs was the highest priority to review, correct data, document SOPs, and implement changes. For these CSO locations, MSD performed site visits including elevation surveys, performed detailed analysis, investigated equipment configurations, and investigated PLC programming or monitoring program logic. This has led to the development of an SOP for each CSO that describes the existing monitoring equipment, configuration, and flow calculation in use as of December 31, 2016, and evaluates the effectiveness of the existing setup. If a more effective arrangement was recommended, MSD added the proposed arrangement to the SOP for implementation and determined if historical data could be updated. In cases where the historical data could be updated, MSD has developed revised volumes for reporting. Locations for which revised volumes have been developed are detailed in Appendix F. In some cases, historical volumes could not be recalculated based on the available data. For instance, CSOs influenced by river or creek

elevation for which there was no available historic level data could not be recalculated for historical volumes but will be calculated or measured according to the revised SOPs as they are implemented.

To date, SOPs have been drafted and historical volume data corrections (where possible) have been made for all of the 33 initial CSO locations. These changes have also been made for two additional CSO locations included in the review due to interaction with priority CSOs. Multiple SOPs require programming or equipment changes in order to implement the final SOPs. During the upcoming reporting period, MSD will continue working to procure and replace equipment as required and update the programming at the PLC or with monitoring program logic, as summarized in Figure 1.2 and detailed in Appendix F, to support ongoing implementation of the SOPs.

The remaining 65 active CSO locations are being reviewed during the current fiscal year. MSD has also identified two inactive sites with historic data that will be reviewed. MSD has developed a schedule for review of these sites and has begun site visits, calculation review, and SOP development. Status for these remaining CSOs is summarized in Figure 1.3 and detailed in Appendix F.

During the course of review, MSD has made determinations about CSO monitoring configurations and SOPs that impact other CSOs that were previously listed as completed. MSD views this process as an ongoing review for continuous improvement, and continues to update status to reflect the latest and most appropriate determination.

Until the review is complete, CSO flow monitoring data will continue to be included as an appendix to each quarterly report, will be listed as “Draft”, and will include the statement “CSO data monitoring procedures are currently being revised”. As changes are made to flow meter locations and or flow meter calculation algorithms, MSD will provide status updates in the quarterly reports on progress to evaluate data accuracy, revise monitoring data records, update monitoring procedures, and implement recommendations. CSO flow monitoring data reported quarterly will include updated volumes based on completion of the review and update of the reporting standards for each CSO. Revised volumes for previous reporting periods up to and including FY18 for the 33 CSO locations initially reviewed were included as an appendix to the FY18 Consent Decree Annual Report. Any subsequently developed revised volumes for previous reporting periods up to and including FY20 will be included as an appendix to the FY19 or FY20 Consent Decree Annual Report as applicable.

## **1.5. COLLECTION SYSTEM OVERFLOW PERFORMANCE**

### **1.5.1. UNAUTHORIZED DISCHARGES TO WATERS OF US**

MSD recorded information related to overflows reaching Waters of the United States (WUS) for the reporting period. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. Details of these overflows are included in Appendix A-3. During this quarter, 54 unauthorized discharges to WUS were reported, summarized in Table 1.1.

MSD recorded information related to overflows to the ground that did not reach Waters of the United States for the reporting period. This information is entered and maintained in IPS utilizing procedures reviewed and im-

**Table 1.1. Dry and Wet Weather SSOs by Cause – Unauthorized Discharges to Waters of US**

<b>PROBLEM</b>	<b>DRY WEATHER</b>	<b>WET WEATHER</b>
LACK OF SYSTEM CAPACITY	0	46
STRUCTURAL FAILURE	3	0
MECHANICAL FAILURE	0	2
ELECTRICAL PROBLEMS AT MSD	1	0
SYSTEM UNDERWATER	0	1
PUMPED OVERFLOW	0	1

**Figure 1.2. CSO Flow Monitoring Improvement Status - Phase 1**

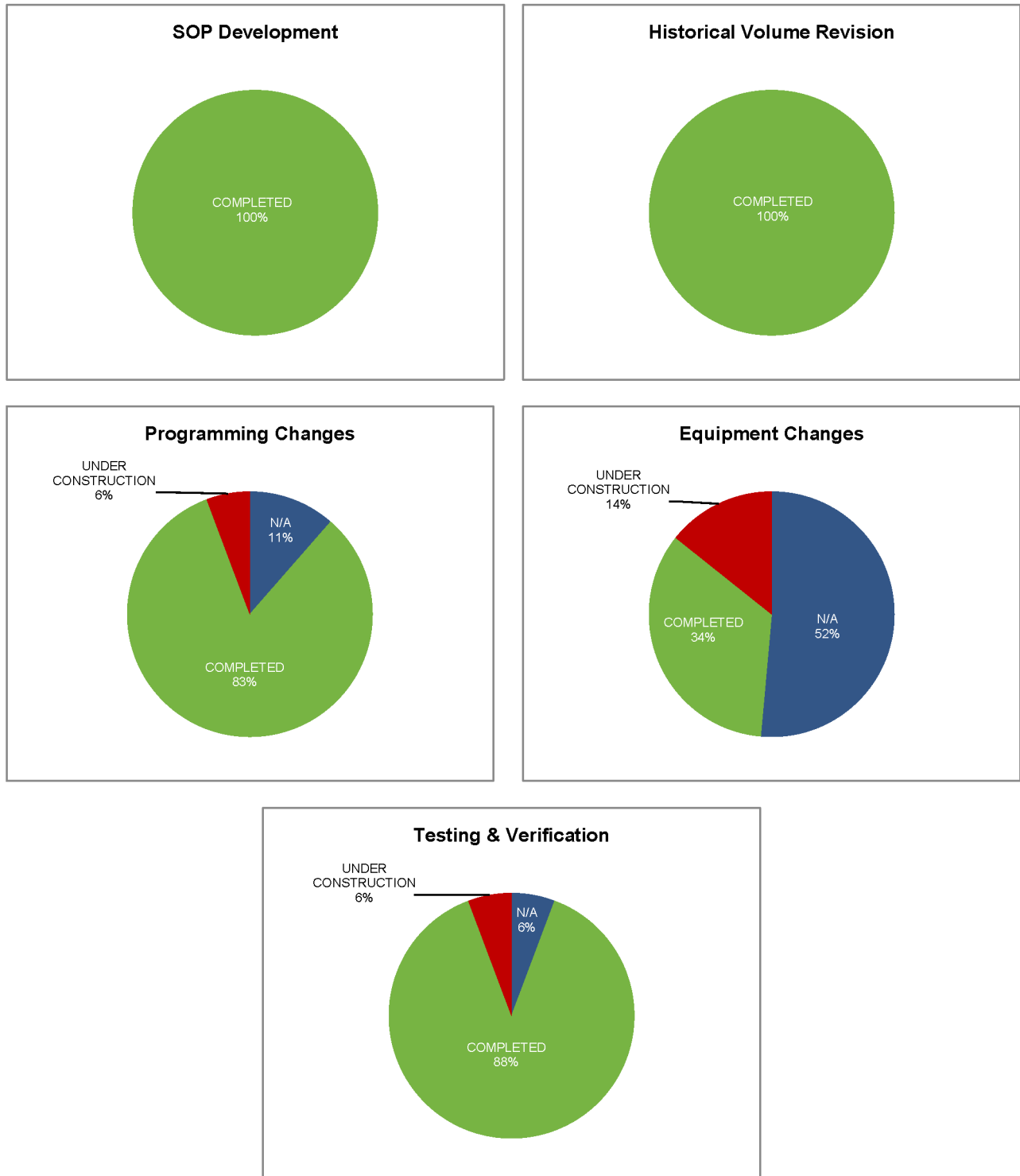
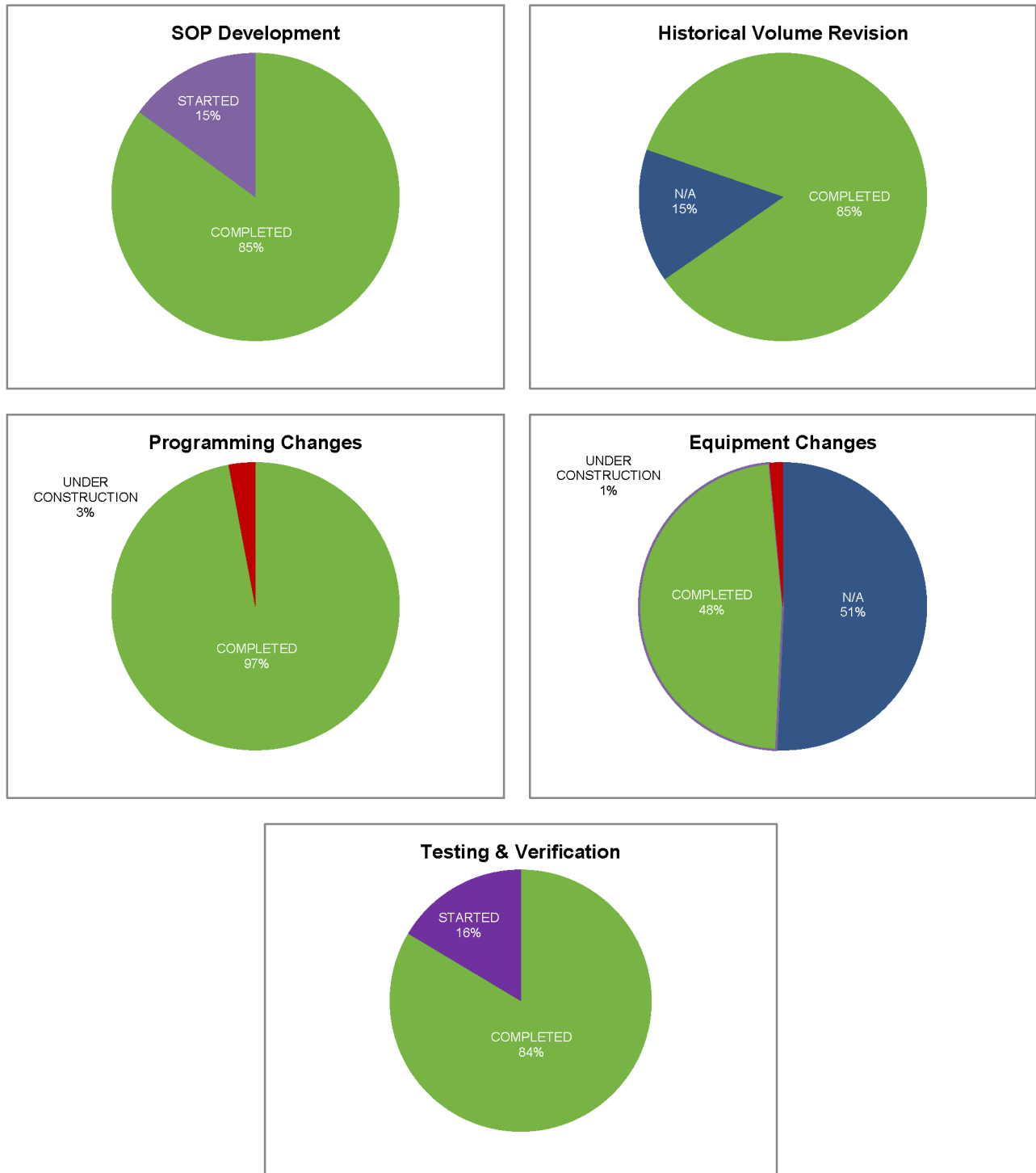


Figure 1.3. CSO Flow Monitoring Improvement Status - Phase 2



<sup>1</sup>Draft SOPs are completed and under review.

proved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Annual Report for the reporting period.

**1.5.2. OVERFLOWS TO INTERIOR**

MSD recorded information related to overflows to building interiors for the reporting period. This information is entered and maintained in IPS utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows, that are the result of an issue in the main line, will be included in the Annual Report for the reporting period.

**1.6. GRAVITY LINE PREVENTIVE MAINTENANCE (GLPM)**

Each quarter, data and statistics relating to the cleaning, inspection and maintenance of sewer assets performed under the Gravity Line Preventive Maintenance program are reported. Data for the current reporting period is shown in Figure 1.4 through Figure 1.6.

Targets, indicated by a blue line on the gauges in Figure 1.4 and Figure 1.6, have been developed for structured work only, which includes any preventive or predictive activities that are routinely scheduled to maintain asset condition and decrease its likelihood of failure. Corrective maintenance activities are shown in Figure 1.5 and include those activities performed as a reaction to correct asset deficiencies, whether identified through structured work or from outside the program, and do not have associated targets.

Figure 1.4. CSO Inspections and Cleaning

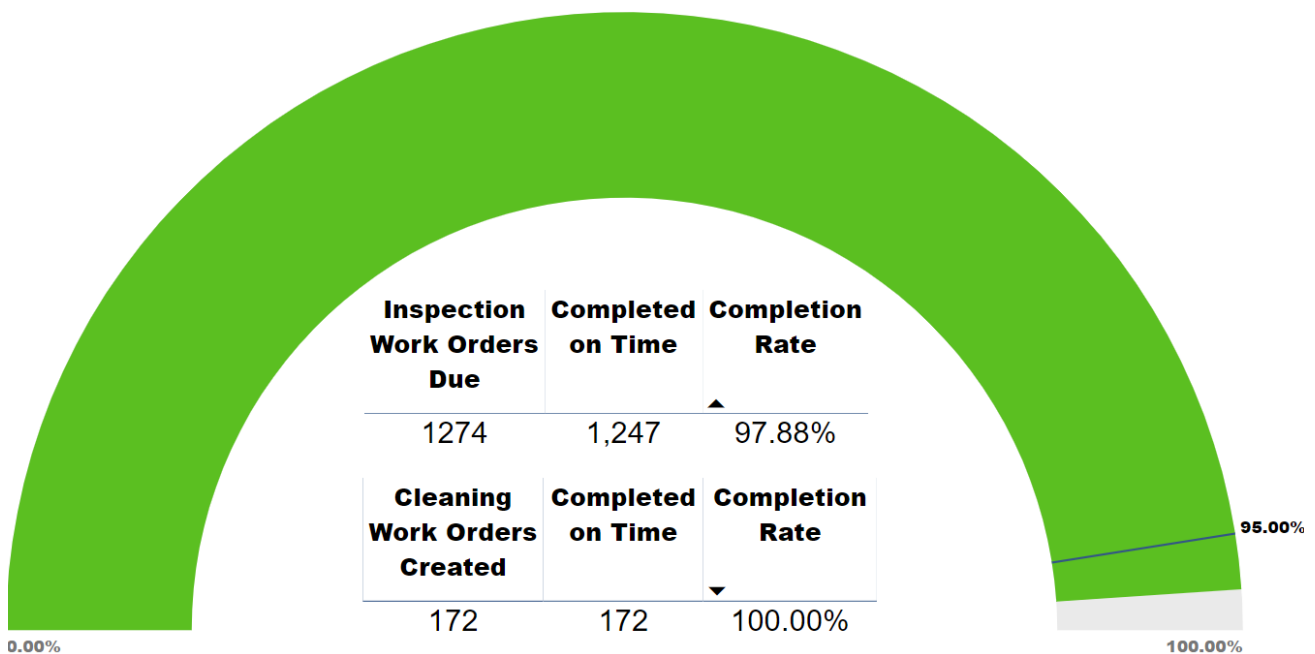




Figure 1.5. Gravity Main Cleaning

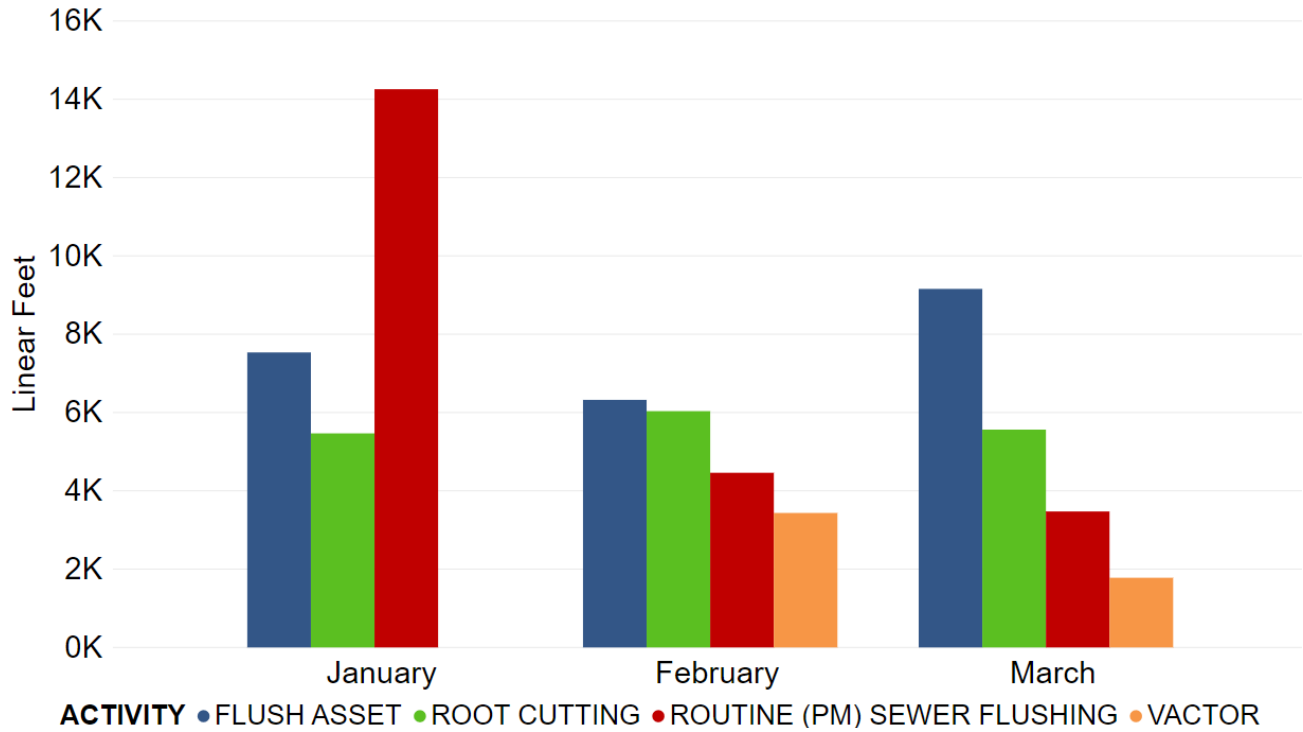
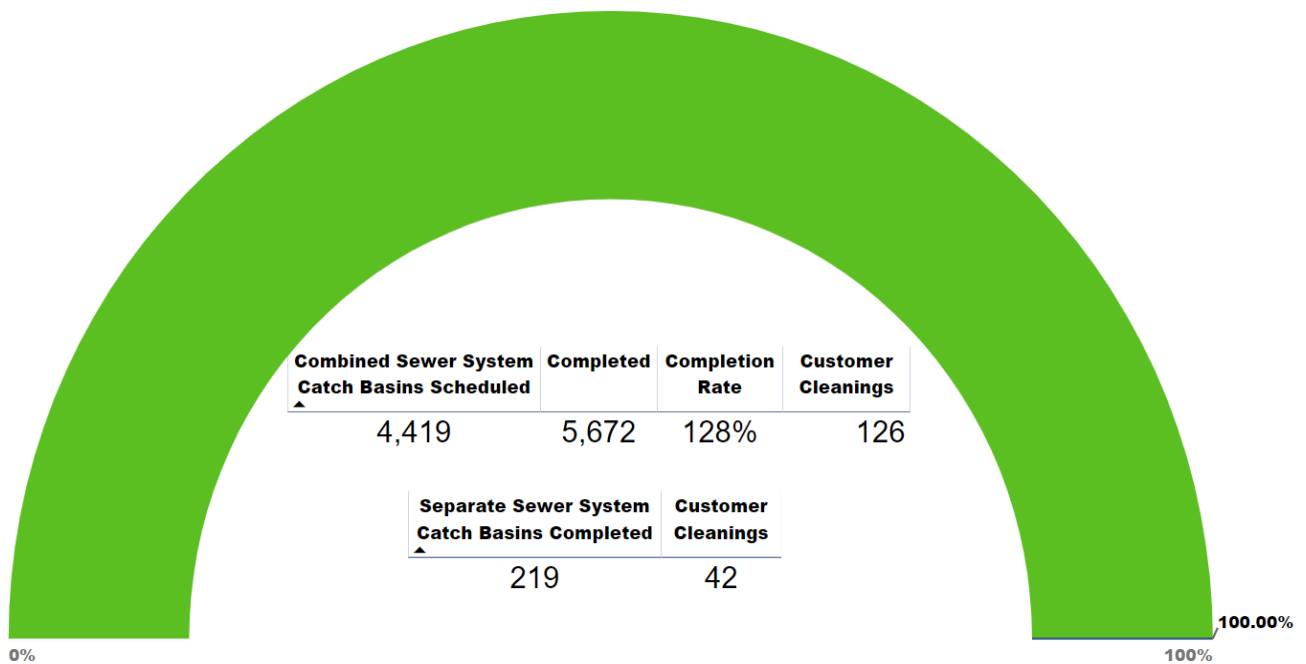


Figure 1.6. Catch Basin Cleaning





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## **SECTION 2: PROGRAM ACTIVITIES FOR NINE MINIMUM CONTROLS (NMC)**

### **2.1. NINE MINIMUM CONTROLS PROGRAM BACKGROUND**

Per Paragraph 24.a. of the Amended Consent Decree, the Nine Minimum Controls (NMC) Compliance Report was initially submitted to EPA and KDEP on February 10, 2006. MSD received approval of the report on February 22, 2007. The approved NMC compliance document can be viewed on the MSD Project Waterway Improvements Now (WIN) website, available at [www.msdpowerwin.org](http://www.msdpowerwin.org). Highlights of the NMC program implementation over this reporting period are outlined below.

### **2.2. NMC 2: MAXIMIZATION OF STORAGE IN THE COLLECTION SYSTEM**

MSD has continued operation of the Real Time Control (RTC) system. During this reporting period, approximately 552 MG were stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow. See Table 2.1 for a detailed report.

The following identifies ongoing activities; those completed during the current period; and those anticipated to be completed during the next period.

#### RTC Integration

- MSD and the RTC consultant continue to implement the wet weather standard operating procedures (SOPs) incrementally, starting with a period of manual operation to validate the control assumptions, followed by increasing levels of system automation as the automated controls for individual components are implemented, validated, and then incorporated into the overall RTC system.
- During this reporting period, MSD and the RTC consultant continue to monitor and evaluate the performance of the RTC system against operational objectives and issue updates to configurations and site tuning as necessary to improve performance of the recently integrated facilities and Csoft 4.
- MSD and the RTC consultant began preparing a master programming guide for RTC facilities to document existing programming and parameters at each facility as a reference to ensure long term continuity of the RTC system.
- MSD and the RTC consultant completed integration of the Southwestern Parkway CSO Storage Basin and began operating the site in RTC.
- MSD completed development of a filling and dewatering strategy chapter and released an updated master RTC SOP manual for MSD review.
- During the next reporting period, MSD will continue implementing RTC SOPs and validating operations of the Portland CSO Storage Basin as well as programming Csoft configurations for the basin in preparation for commissioning the site into RTC. Once the site has been validated through manual operation and gradual implementation of local automatic control, the facility will be fully commissioned into the RTC system. MSD will complete the review of the updated master RTC SOP Manual. MSD will continue developing a master programming guide for RTC facilities to document existing programming and parameters at each facility as a reference to ensure long term continuity of the RTC system.

#### RTC Performance Assessment and Improvements

- The main objective of the RTC performance assessment is to determine whether the available flow and storage capacities within the system are utilized to their optimal potential. MSD staff continues to review and prioritize strategies for performance improvement. During the next reporting period, MSD staff and the RTC consultant will continue to implement hardware, software, and set-point changes as applicable on a site-by-site basis.

- MSD continued temporary flow monitoring of the Middle Fork Trunk to gather data to improve model calibration during post event recovery to improve dewater of the Clifton Heights and Logan CSO Storage Basins.
- MSD and the RTC consultant continued incorporating newly integrated facilities into the Hydroweb RTC dashboard and developing real time dashboard interfaces including development of weekly and quarterly reporting functions.
- MSD and the RTC consultant transitioned the Hydroweb dashboard the MSD business network to provide access to engineering staff and began incorporating Telog data into the Hydroweb dashboard.
- MSD and the RTC consultant identified and corrected data conflicts in programming for the Southwestern Sluice Gates (SWSG/SWOR1) that impacted RTC operation of the site.
- Construction is in progress to install a flow meter between the Main Diversion Structure (MDS) and the Morris Forman WQTC to improve monitoring of flow from the MDS.
- MSD will continue to monitor the RTC system to ensure proper operation and further refine operations of the RTC system as performance issues are observed. MSD and the RTC consultant will continue to refine the local site tuning of RTC facilities as needed based on performance during varying rain events. MSD will continue to improve and automate operations of the facilities integrated into the system. MSD and the RTC consultant will continue development of the Hydroweb dashboard.

- **NMC 4: MAXIMIZATION OF FLOW AT THE MORRIS FORMAN WATER QUALITY TREATMENT CENTER**

The East and West Headworks were in service during the reporting period. Channels were taken out of service due to low flow as appropriate. Channel two and three of the West Headworks were taken out of service the majority of the reporting period for contractor work. Work was completed and all of West Headworks is available. The Final Effluent Pump Station (FEPS) was in service 17 days of the reporting period, limiting plant flow to 205 MGD. Flows at Morris Forman WQTC were sustained between 70 and 150 MGD, with some exceptions discussed below, before allowing flow to bypass secondary treatment during the reporting period. Flows are shown in Figure 2.1 through Figure 2.3.

#### Morris Forman WQTC Projects

- Morris Forman WQTC Biosolids Management Solutions – The WIFIA loan application was submitted during the previous reporting period. Application is under review and is waiting for approval.
- Morris Forman WQTC WQTC High Yard Modifications – The project was completed during the reporting period.
- Morris Forman WQTC Truck Unloading Station – Construction on this project began during the reporting period and is anticipated to be completed within the next reporting period.
- Morris Forman WQTC Primary Sludge Line Replacement Project – This project will replace two old sludge lines between the primary sludge pump station building and the digesters. The project is still in construction due to some additional repairs added to the project.
- Morris Forman WQTC FEPS VFD Replacement – The project scope changed from VFDs to soft starts. The project is scheduled to be completed in the third quarter of 2020.
- Morris Forman WQTC Cake Pump, Phase II – This project will add a larger cake pump to the existing screw and pump conveyance systems for additional cake solids conveyance to the cake truck load out for offsite disposal. The project will also provide modifications to the East Cake Truck Bay to allow this second truck bay to be available for cake solids load out for offsite disposal. The project will add a third means for cake

Table 2.1. Wet Weather Storage in the Morris Forman Sewer System via the RTC System

EVENT NUMBER	WET WEATHER EVENT			RAINFALL			CSO SAVED VOLUME (MG)											HIGH RIVER LEVELS	COMMENTS	
	START DATE	END DATE	DURATION	AVERAGE*	MAX**		SWPS SG CHAMBER (14.25)	SWOR2 (4.1)	BRADY LAKE AND EXECUTIVE INN STORAGE (21.5)	ASHLAND (1.0)	SOR1 (14.05)	OHIO RIVER INTERCEPTOR (1.8)	SNEADS BRANCH (2.5)	LOGAN (17.0)	NGPS (8.0)	CLIFTON HEIGHTS (6.9)	SOUTHWEST PARKWAY (20.0)			TOTAL (111.1)
				TRFD (IN)	TRFD (IN)	RAIN GAUGE														
2020-001	01/02/20 12:40	01/04/20 9:35	44:01	1	1	TR15	9	2	3	0	5	4	0	4	0	0	0	27	0	Large back-to-back storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-002	01/10/20 13:20	01/13/20 23:30	82:01	2	2	TR11	31	5	24	2	15	4	1	19	1	5	1	108	0	Large back-to-back storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-003	01/18/20 2:05	01/18/20 19:50	17:01	0	1	TR04	4	1	1	0	2	2	0	0	0	0	1	10	0	Small storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-004	01/23/20 16:20	01/25/20 4:00	35:01	1	1	TR14	3	1	1	0	0	1	0	1	0	0	0	7	0	Moderate back-to-back storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-005	01/31/20 6:15	01/31/20 18:05	11:01	0	0	TR04	1	1	1	0	0	1	0	0	0	0	0	4	0	Small storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-007	02/04/20 7:15	02/05/20 4:35	21:01	0	0	TR14	2	0	0	0	0	2	0	0	0	0	0	5	0	Moderate storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-008	02/05/20 15:25	02/06/20 1:45	10:01	0	0	TR13	0	0	0	0	0	1	0	0	0	0	0	2	0	Small storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-011	02/09/20 11:00	02/11/20 21:40	58:01	1	1	TR04	1	1	0	0	0	2	0	0	0	0	0	4	0	Moderate back-to-back storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-012	02/12/20 11:15	02/16/20 3:25	88:01	1	1	TR12	21	6	16	1	19	2	0	14	2	0	13	93	0	Moderate back-to-back storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-013	02/18/20 4:55	02/19/20 9:05	28:01	0	0	TR13	1	0	0	0	0	1	0	3	0	0	0	5	0	Small back-to-back storm cells homogeneously distributed over the service area. The SWSG site was controlled manually.
2020-014	02/24/20 4:55	02/25/20 14:00	33:01	1	1	TR04	0	2	3	0	1	3	0	1	0	0	2	11	0	Moderate back-to-back storm cells homogeneously distributed over the service area.
2020-016	03/02/20 4:35	03/03/20 13:55	33:01	1	1	TR04	3	1	4	0	1	2	0	0	0	0	3	14	0	Moderate back-to-back storm cells homogeneously distributed over the service area.
2020-017	03/10/20 1:45	03/11/20 6:35	28:01	0	1	TR04	3	1	2	0	6	2	0	5	0	1	0	20	0	Moderate back-to-back storm cells homogeneously distributed over the service area.
2020-018	03/12/20 16:15	03/14/20 12:05	43:01	1	1	TR14	15	3	8	1	9	1	1	7	0	0	5	50	0	Large back-to-back storm cells homogeneously distributed over the service area.
2020-019	03/14/20 12:05	03/17/20 7:00	66:01	1	1	TR11	6	1	3	0	5	2	0	15	0	5	6	42	0	Moderate back-to-back storm cells homogeneously distributed over the service area.
2020-020	03/17/20 7:00	03/18/20 9:05	26:01	0	0	TR14	-	-	-	-	-	-	-	-	-	-	-	-	0	Analyzed as part of rainfall event #2020-019.
2020-021	03/18/20 11:35	03/23/20 14:10	122:01	1	1	TR04	24	4	16	1	13	3	0	22	1	1	11	98	0	Large back-to-back storm cells homogeneously distributed over the service area.
2020-022	03/24/20 16:25	03/25/20 9:10	16:01	0	0	TR12	3	1	2	0	2	1	0	1	0	0	1	11	0	Small back-to-back storm cells homogeneously distributed over the service area.

Table 2.1. Wet Weather Storage in the Morris Forman Sewer System via the RTC System

EVENT NUMBER	WET WEATHER EVENT			RAINFALL			CSO SAVED VOLUME (MG)											HIGH RIVER LEVELS	COMMENTS	
	START DATE	END DATE	DURATION	AVERAGE*	MAX**		SWPS SG CHAMBER (14.25)	SWOR2 (4.1)	BRADY LAKE AND EXECUTIVE INN STORAGE (21.5)	ASHLAND (1.0)	SOR1 (14.05)	OHIO RIVER INTERCEPTOR (1.8)	SNEADS BRANCH (2.5)	LOGAN (17.0)	NGPS (8.0)	CLIFTON HEIGHTS (6.9)	SOUTHWEST PARKWAY (20.0)			TOTAL (111.1)
				TRFD (IN)	TRFD (IN)	RAIN GAUGE														
2020-023	03/28/20 23:00	03/30/20 18:55	43:01	0	1	TR05	14	1	5	1	6	1	2	8	0	2	3	42	0	Small back-to-back storm cells homogeneously distributed over the service area.
TOTAL							142	29	90	5	82	34	4	101	6	14	46	552		

\* Average total rainfall depth based on rain gauges TR04, TR05, TR11, TR12, TR13, TR14 and TR15.

\*\* Maximum total rainfall depth measurement and measurement location during the wet weather event.

\*\*\* The MDS is always controlled manually by operators.

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solids transfer to the load out bay and allow two trucks to be loaded from the West and East Truck Bay areas. Construction continued during the reporting period.

- Morris Forman WQTC Sedimentation Basin Rehabilitation – A technology assessment was initiated during this period. Technology selection to be completed in the next reporting period.
- Morris Forman WQTC Groundwater Study – The study is on hold during this reporting period due to high water table but is expected to be completed the first quarter of 2021.
- Morris Forman WQTC Hypochlorite Building Relocation – The project is currently in the design phase.
- Morris Forman WQTC OGA, PTO, and Chlorine Rail Car Facility Demolition – The project is currently in the design phase.
- Morris Forman WQTC Groundwater Well No. 10 – Installation of Groundwater Well – The project was completed in the reporting period.
- Morris Forman WQTC Dryer Demolition – The demolition of Dryer Trains 3 and 4 was completed during the reporting period. Dryer Trains 1 and 2 are anticipated to be demolished during the next reporting period.
- Morris Forman WQTC Chiller Replacement – The project is currently in the bidding phase, with bidding expected to take place in the second quarter of 2020.
- Morris Forman WQTC Headworks and Dumpster Building Structural and Blower Building Stairs – The project is currently in the design phase.
- Morris Forman WQTC Sewer and Manhole Condition Assessment – The project is currently in the evaluation phase. Design will start in the second quarter of 2020.

#### Morris Forman WQTC Performance

Figure 2.1 through Figure 2.3 illustrate performance in maximizing flow during wet weather to Morris Forman WQTC. The top of the chart shows rainfall in inches per day. The middle part of the chart shows Morris Forman WQTC effluent flow and secondary treatment flow. The difference between these flows is the secondary bypass flow. The bottom of the chart shows days with a CSO activation at the five CSOs in the vicinity of the Morris Forman WQTC (CSOs 015, 016, 191, 210, and 211).

Note that the flow meter downstream from CSO211 is known to be affected by Ohio River backwater effects and the ultrasonic signal is sometimes blocked by mist and condensation when air and sewage temperatures are significantly different. Therefore, CSO activations at CSO211 are keyed to water levels upstream and downstream of the inflatable dam in the Main Diversion Structure. The other CSO activations are tied to flow measurement downstream of the respective CSO. At times, “blips” representing very small volumes of overflow are indicated by flow meters even though an overflow cannot be verified by level measurements or other indicators. These blips are not reported as overflows, but are noted in the CSO monitoring data reported in Appendix B. In addition, indications of rainfall and CSO activations are shown on the day they happened, but are not aligned with the exact time, so the effluent flow graph (which is tied to actual time) may show peaks that are offset from the indicated rain or CSO events by as much as 24 hours.

There are data gaps in January due to sensor calibration issues and on March 3 due to telemetry failure, causing no data to be recorded. MSD is investigating options for more reliable plant telemetry to reduce these occurrences.

Figure 2.1. Morris Forman WQTC - Plant Flows and Associated CSO Activations - January

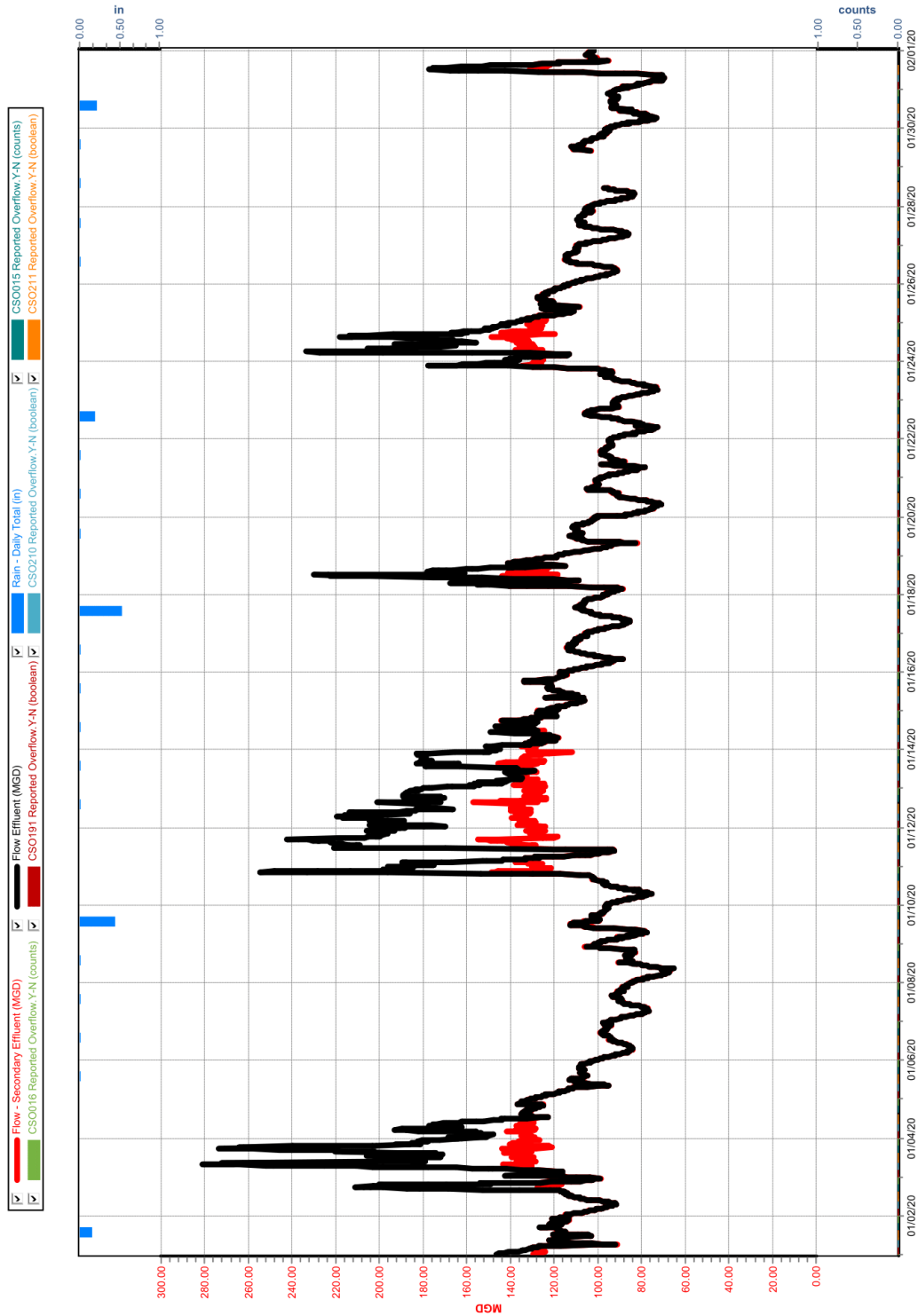




Figure 2.2. Morris Forman WQTC - Plant Flows and Associated CSO Activations - February

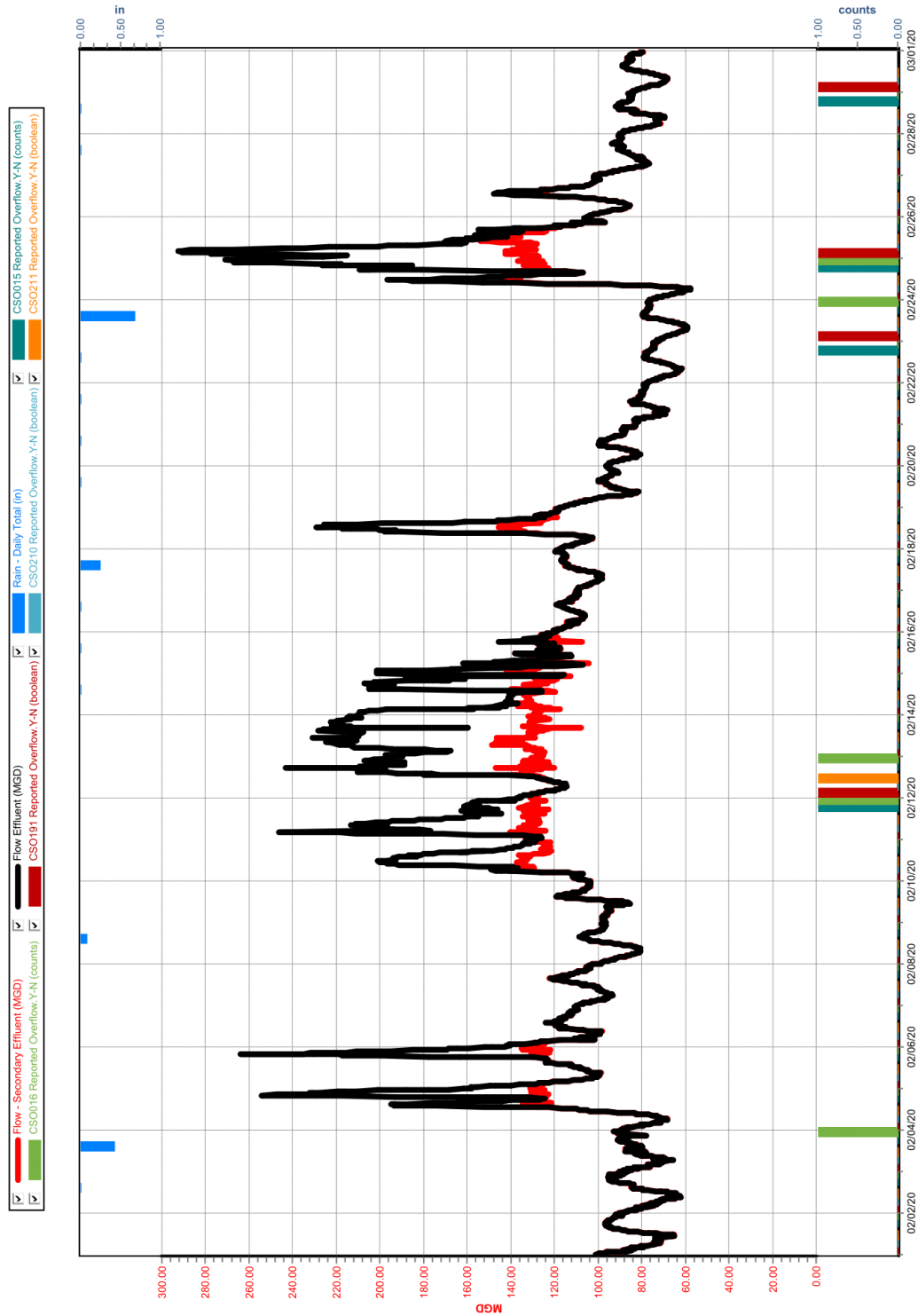
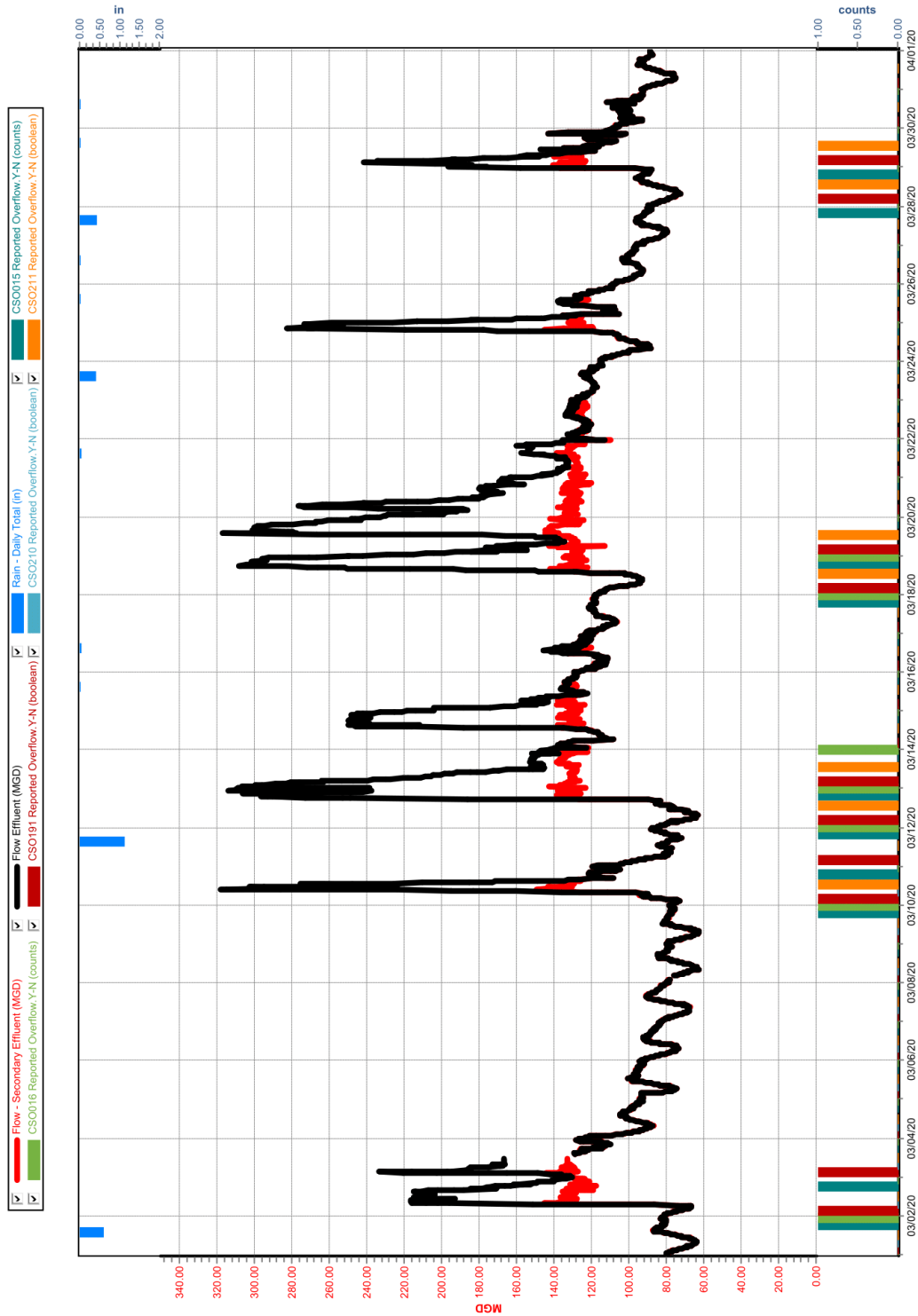


Figure 2.3. Morris Forman WQTC - Plant Flows and Associated CSO Activations - March



Morris Forman effluent compliance for the previous three months is summarized in Table 2.2 where a “©” indicates compliance and an “X” indicates noncompliance. MSD continues to employ additional solids processing methods, including dewatered cake, an outside vendor to assist with solids handling in addition to purchasing additional liquid oxygen, and dewatering of regional solids at Derek R. Guthrie WQTC in an effort to meet permit requirements.

### **2.3. NMC ACTIVITY SCHEDULE**

NMC capital project milestones for the current reporting period as well as a look-ahead for the upcoming reporting period are provided in Figure 2.4.

**Table 2.2. Morris Forman WQTC Permit Compliance**

<b>PARAMETER</b>	<b>JANUARY</b>	<b>FEBRUARY</b>	<b>MARCH</b>
Ammonia Nitrogen, 30 Day Secondary Effluent	©	©	©
Ammonia Nitrogen, 7 Day Secondary Effluent	©	©	©
BOD, 30 Day Secondary Effluent	X	X	X
BOD, 7 Day Secondary Effluent	X	X	X
BOD, Percent Removal	X	X	X
Chlorine, Residual	©	©	©
Dissolved Oxygen	©	©	©
Fecal Coliform, 30 Day Geomean	©	©	©
Fecal Coliform, 7 Day Geomean	©	©	©
pH	©	©	©
TSS, 30 Day Secondary Effluent	X	X	X
TSS, 7 Day Effluent	X	X	X
TSS, Percent Removal	X	X	X

**Figure 2.4. NMC Quarterly Commitments Schedule**

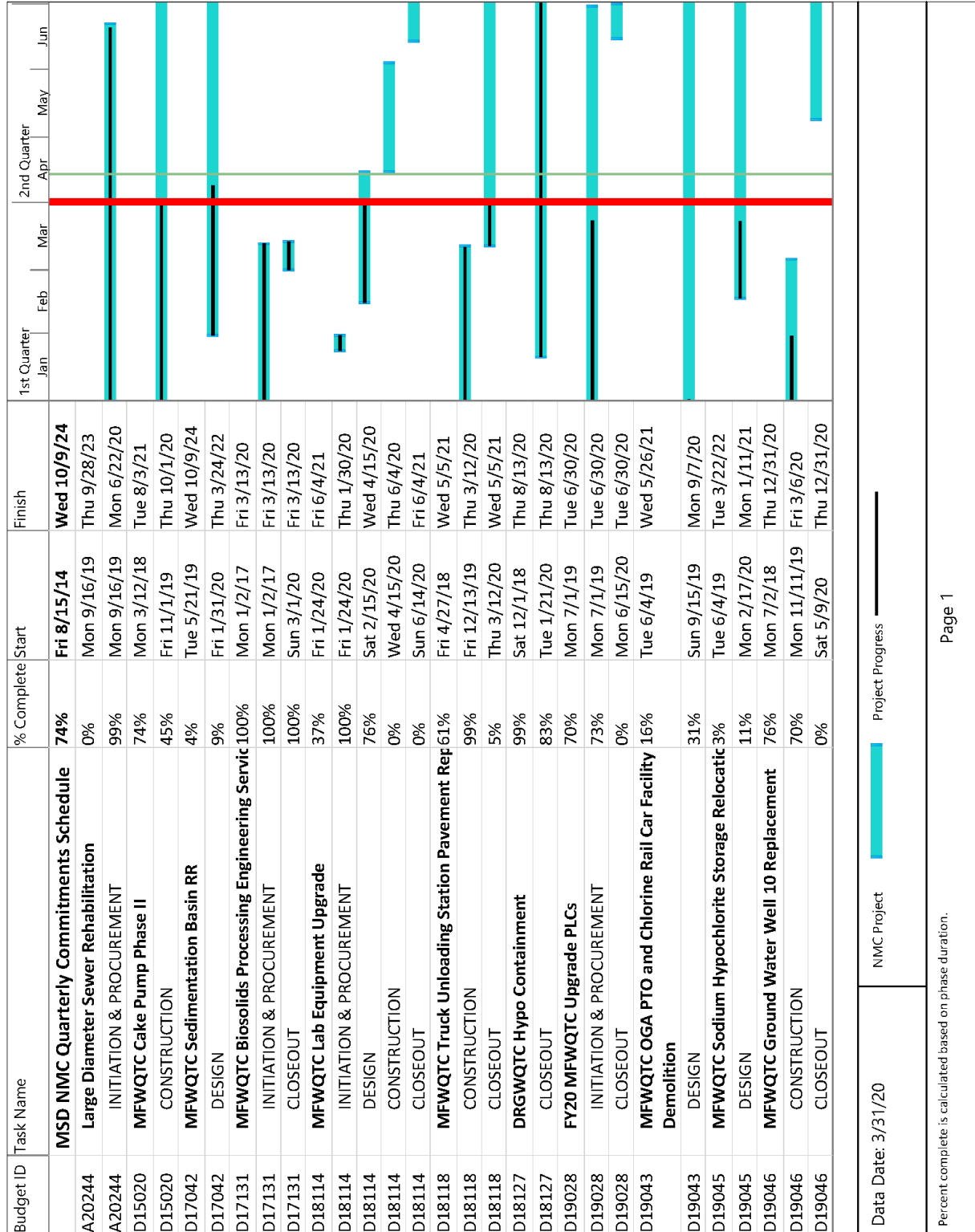


Figure 2.4. NMC Quarterly Commitments Schedule

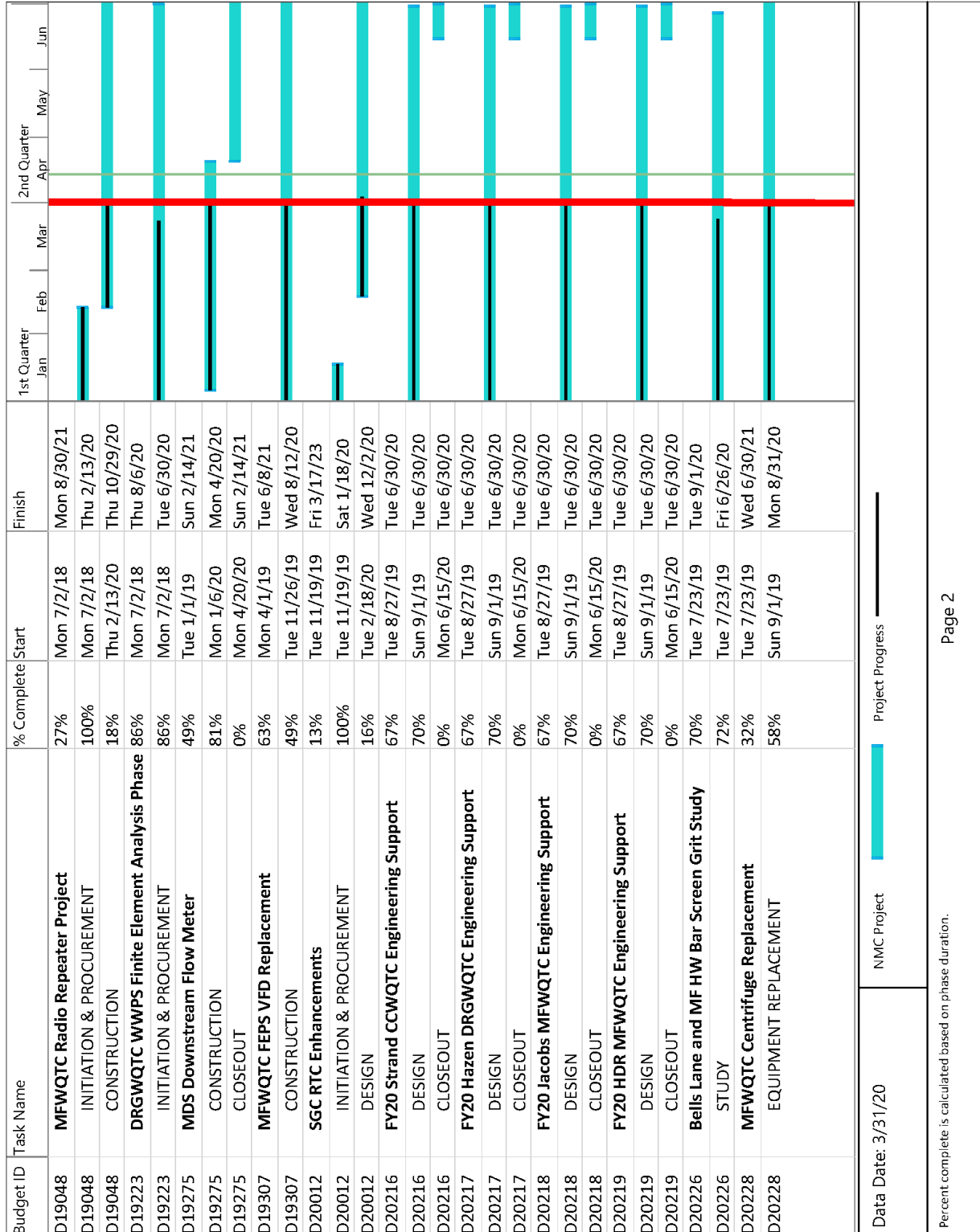
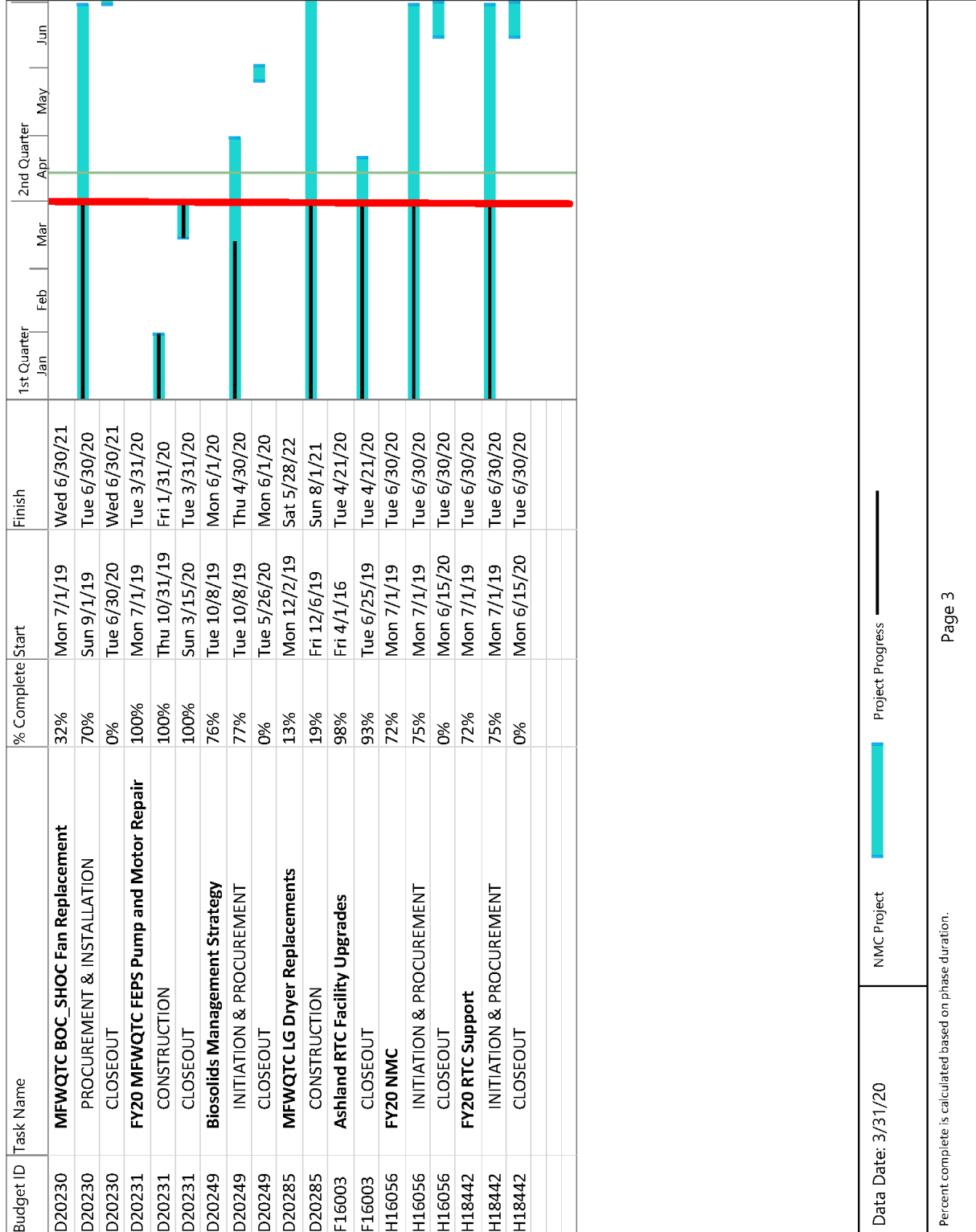


Figure 2.4. NMC Quarterly Commitments Schedule



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## **SECTION 3: PROGRAM ACTIVITIES FOR SEWER OVERFLOW RESPONSE PROTOCOL (SORP)**

### **3.1. PROGRAM BACKGROUND**

Per Paragraph 24.d. of the Amended Consent Decree, MSD initially submitted the Sewer Overflow Response Protocol (SORP) to EPA and KDEP on February 10, 2006, and received comments on March 13, 2006, and received an approval letter for the SORP on August 22, 2006.

MSD completely revised the SORP documentation in 2011. The draft of this revised document was submitted for comment on August 22, 2011. Comments from EPA and KDEP were received and addressed, and the document was resubmitted October 28, 2011. Final approval of the updated SORP document was received February 21, 2012. Modifications were made to the document in 2016 to reflect the elimination of the Jeffersontown WQTC, and were approved on July 21, 2017. A hard copy of the approved document has been distributed to each division throughout MSD and a viewable, downloadable electronic version has been posted to the MSD Project WIN website, available at [www.msprojectwin.org](http://www.msprojectwin.org). The following activities were performed during this reporting period.

### **3.2. OVERFLOW MANAGEMENT AND FIELD DOCUMENTATION**

MSD monitored approximately 143 sanitary sewer overflow (SSO) sites, which have been grouped into routes based on the range of rainfall rates necessary to cause a SSO. These routes are monitored during rain events depending on the magnitude and location of the storm. If an overflow is observed, a Discharge Work Order is created to document the event. During this quarter, 52 unauthorized discharges were identified through route reconnaissance. During this period, 12 inspection routes were run.

The West County route is monitored via telemetry. MSD determined that the inspection work orders should no longer be created to document this monitoring. However, discharge work orders will be created as required based on telemetry observations.

MSD Operations staff hauled 85,000 gallons due to capacity-related issues during this reporting period. Hauling was also initiated due to other issues as indicated in Table 3.1.

**Table 3.1. Hauled Volumes in Gallons**

<b>PROBLEM</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>
LACK OF SYSTEM CAPACITY	55,000	0	30,000
STRUCTURAL FAILURE	0	24,000	0

### **STAFF TRAINING AND COMMUNICATION**

MSD continued training through the online training delivery system, which allows more flexibility for employees to complete training at convenient times during the quarter and to integrate SORP training with new employee and contractor orientation.

First quarter training utilizes the online format, and included four modules under Preparing for Overflows & Monitoring:

- SORP Overview
- SORP Process
- Monitoring & Mobilization
- Q57 Updates (updates related to progress under the IOAP and projects under the CMOM and NMC programs)

The quarterly training was delivered to 267 staff in Operations and Engineering.

Second quarter training utilizes the online format, and includes modules under Assessment, Mitigation & Documentation:

- Assessment & Minimum Documentation
- Mitigation
- Updates

These modules will be reviewed and updated as needed for delivery during the next reporting period. An update module provides continued updates related to progress under the IOAP and projects under the CMOM and NMC programs and will also be updated for delivery.



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## **SECTION 4: PROGRAM ACTIVITIES FOR DISCHARGE ABATEMENT PLANS (DAP)**

### **4.1. INTEGRATED OVERFLOW ABATEMENT PLAN (IOAP)**

As a requirement of the Amended Consent Decree, per Paragraph 25, MSD is to prepare and submit for review and approval discharge abatement plans for the elimination of unauthorized discharges from the separate sanitary and the combined sewer systems, the reduction and control of discharges from the CSO locations identified in the Morris Forman WQTC KPDES permit, and the improvement of water quality in the receiving waters.

The Final Sanitary Sewer Discharge Plan (SSDP) and the Final CSO Long Term Control Plan (LTCP) were submitted concurrently and certified on December 19, 2008, under the title of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by a Federal Order signed February 12, 2010, and was entered into public record on February 15, 2010.

MSD submitted an IOAP modification request to EPA/KDEP on September 20, 2012, with partial approval granted via certified letter on October 25, 2012. The modified project package, including program descriptions, progress, and updated supporting text, was submitted to EPA/KDEP for approval on June 14, 2013. On June 19, 2014, MSD received approval of the 2012 IOAP Modification from EPA/KDEP. The project and program modifications proposed within this submittal resulted from additional information gathered from ongoing system monitoring, hydraulic modeling and best professional judgment. MSD's adaptive management approach to overflow abatement has justified modifications which provide a higher level of overflow control. These modifications will be completed faster than originally proposed for approximately the same overall budget.

Since the June 19, 2014, approval of the 2012 IOAP Modification, minor project modification requests have been submitted and approved on an individual project basis.

### **4.2. SANITARY SEWER DISCHARGE PLAN (SSDP)**

The Sanitary Sewer Discharge Plan (SSDP) addresses the overflows and unauthorized discharges from the separate sanitary sewer system. Three separate plans have been submitted under this program as described below and outlined in Paragraph 25.a. of the Amended Consent Decree.

#### **4.2.1. UPDATED SANITARY SEWER OVERFLOW PLAN (SSOP) IMPLEMENTATION**

MSD prepared and submitted the Updated Sanitary Sewer Overflow Plan (SSOP) on February 10, 2006. This plan included an overview of the MSD sanitary sewer overflow abatement program and specific actions taken to reduce/eliminate overflows from the sanitary sewer system. This document included a list of the proposed improvements to be accomplished by December 31, 2008. Activities required under the Updated SSOP have been completed.

#### **4.2.2. INTERIM SANITARY SEWER DISCHARGE PLAN (ISSDP)**

MSD submitted an Interim Sanitary Sewer Discharge Plan (ISSDP) for approval on September 30, 2007. Comments were received on January 8, 2008. MSD resubmitted the revised ISSDP on March 7, 2008, and received an approval letter for the ISSDP on July 24, 2008. The approved document can be viewed on the MSD Project WIN website, available at [www.msdprojectwin.org](http://www.msdprojectwin.org).

All projects required by the ISSDP have been completed and certified. The Derek R. Guthrie WQTC Project's completion was delayed in accordance with the construction contract documents due to existing litigation and performance by the general contractor. However, the full functionality and capacity of the plant upgrades under this project met the demands of the service area. With this understanding, a revised certification letter dated October 19, 2015, was submitted certifying that the Derek R. Guthrie WQTC Project is performing in accordance with its stated intent and purpose, and is in compliance with the Consent Decree requirements.

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### **4.2.3. FINAL SANITARY SEWER DISCHARGE PLAN (SSDP)**

MSD submitted for approval a Final SSDP on December 19, 2008, as Volume 3 of the IOAP. The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by a Federal Order signed February 12, 2010, and was entered into public record on February 15, 2010. A revised SSDP was included in the 2012 IOAP Modification, submitted on June 14, 2013. On June 19, 2014, MSD received approval of the 2012 IOAP Modification from EPA/KDEP. The approved document can be viewed on the MSD Project WIN website, available at [www.msprojectwin.org](http://www.msprojectwin.org).

### **4.3. CSO LONG TERM CONTROL PLAN (LTCP)**

The CSO Long Term Control Plan (LTCP) addresses the overflows and unauthorized discharges from the Combined Sewer System (CSS). Two separate plans have been submitted under this program as described below and outlined in Paragraph 25.b. of the Amended Consent Decree.

#### **4.3.1. INTERIM CSO LONG TERM CONTROL PLAN (LTCP)**

The Interim CSO LTCP was initially submitted to EPA and KDEP on February 10, 2006, and MSD received an approval letter dated February 22, 2007. The approved Interim LTCP can be viewed on the MSD Project WIN website, available at [www.msprojectwin.org](http://www.msprojectwin.org). This plan includes an overview of the MSD program, efforts taken to reduce/eliminate discharges from the CSS, and the list of proposed improvements to be accomplished by December 31, 2008. All projects associated with this plan have been completed.

#### **4.3.2. FINAL CSO LONG TERM CONTROL PLAN (LTCP)**

MSD submitted for approval the Final CSO LTCP on December 19, 2008, as Volume 2 of the Integrated Overflow Abatement Plan. The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, and was entered into public record on February 15, 2010. A revised LTCP was included in the 2012 IOAP Modification, submitted June 14, 2013. On June 19, 2014, MSD received approval of the 2012 IOAP Modification from EPA/KDEP. The approved document can be viewed on the MSD Project WIN website, available at [www.msprojectwin.org](http://www.msprojectwin.org).

#### **4.3.3. GREEN INFRASTRUCTURE PROGRAM UPDATE**

The IOAP describes that “MSD’s long-range commitment to this [Green Infrastructure] program will be based on how green performs in comparison to more traditional gray solutions” (Volume 2, Chapter 4, page 12). Through coordination with EPA and with strong support of MSD’s Wet Weather Team stakeholder group, MSD’s program evolved from solely project-level benefits to maximizing programmatic and community benefits. MSD’s green infrastructure program has been successful in downsizing or eliminating gray infrastructure projects, providing a programmatic factor of safety, and providing community enhancements, as described in the FY2019 Annual Report (Section 4.3.4). Beginning with the FY2020 Annual Report, MSD will provide updates on green infrastructure practices constructed during substantial development projects and inspections of existing practices.

### **4.4. DISCHARGE ABATEMENT PLAN PROJECT STATUS**

#### **4.4.1. SANITARY SEWER DISCHARGE PLAN (SSDP)**

Per the current approved schedule, no SSDP projects were completed during the current reporting period or anticipated to be completed or certified during the next reporting period.

#### **4.4.2. COMBINED SEWER OVERFLOW LONG TERM CONTROL PLAN (LTCP)**

Per the current approved schedule, no CSO LTCP projects were completed during the current reporting period or anticipated to be completed or certified during the next reporting period.

#### **4.4.3. ACTIVITY PROGRESS CHART**

A Gantt chart showing the 2012 IOAP Modification project schedules and subsequent approved minor modifications for the entire program is provided in Figure 4.1. Refer to IOAP, Volume 1 – Figure 6.3.1 for the previous chart. A crosswalk of projects and associated overflows is provided in Appendix E.

Figure 4.1. IOAP Implementation Schedule

	Complete			Completion	Modifications*		
<b>LONG TERM CONTROL PLAN</b>	100%	Fri 1/1/21	Wed 7/7/09	Thu 12/31/20	Thu 12/31/20		
<b>GREEN DEMONSTRATION PROJECTS</b>	95%	Thu 12/31/20	NA	Thu 12/31/20	Thu 12/31/20		
<b>Green Infrastructure Demonstration Projects</b>	100%	Mon 12/19/11	Mon 12/19/11	Sat 12/31/11	Sat 12/31/11		
Green Infrastructure Demonstration Projects	100%	Mon 12/19/11	Mon 12/19/11	Sat 12/31/11	Sat 12/31/11		
<b>Green Infrastructure Program</b>	93%	Thu 12/31/20	NA	Thu 12/31/20	Thu 12/31/20		
Green Infrastructure Program	93%	Thu 12/31/20	NA	Thu 12/31/20	Thu 12/31/20		
<b>GRAY INFRASTRUCTURE PROJECTS</b>	83%	Thu 12/31/20	NA	Thu 12/31/20	Thu 12/31/20		
<b>Waterway Protection Tunnel</b>	90%	Thu 12/31/20	NA	Thu 12/31/20	Thu 12/31/20		
Waterway Protection Tunnel	90%	Thu 12/31/20	NA	Thu 12/31/20	Thu 12/31/20	L_OR_MF_155_M_09B_B_B_4 L_OR_MF_020_S_09B_B_A_8 L_OR_MF_083_M_09B_B_A_8 L_MI_MF_127_M_09B_B_A_8	13TH STREET AND ROWAN STREET STORAGE BASIN, STORY AVENUE AND MAIN STREET STORAGE BASIN, LEXINGTON ROAD AND PAYNE STREET STORAGE BASIN, I-64 AND GRINSTEAD CSO BASIN
<b>CSO058 In-Line Storage and Green Infrastructure</b>	100%	Tue 12/23/14	Thu 12/18/14	Wed 12/31/14	Wed 12/31/14		
CSO058 In-Line Storage and Green Infrastructure	100%	Tue 12/23/14	Thu 12/18/14	Wed 12/31/14	Wed 12/31/14	L_OR_MF_058_S_08_A_A_0	
<b>CSO123 Downspout Disconnection</b>	100%	Sun 12/30/12	Sun 12/30/12	Mon 12/31/12	Mon 12/31/12		
CSO123 Downspout Disconnection	100%	Sun 12/30/12	Sun 12/30/12	Mon 12/31/12	Mon 12/31/12	L_MI_MF_123_S_08_A_A_0	
<b>CSO140 In-Line Storage &amp; Green Infrastructure Controls</b>	100%	Wed 12/23/15	Wed 12/23/15	Thu 12/31/15	Thu 12/31/15		
CSO140 In-Line Storage & Green Infrastructure Controls	100%	Wed 12/23/15	Wed 12/23/15	Thu 12/31/15	Thu 12/31/15	L_MI_MF_140_S_08_A_A_0	CSO140 SEWER SEPARATION
<b>CSO206 Sewer Separation</b>	100%	Thu 12/12/13	Thu 12/12/13	Tue 12/31/13	Mon 12/30/13		
CSO206 Sewer Separation	100%	Thu 12/12/13	Thu 12/12/13	Tue 12/31/13	Mon 12/30/13	L_MI_MF_206_S_08_A_A_0	
<b>Clifton Heights Storage Basin</b>	100%	Sat 12/1/18	Sat 12/1/18	Mon 12/31/18	Mon 12/31/18		
Clifton Heights Storage Basin	100%	Sat 12/1/18	Sat 12/1/18	Mon 12/31/18	Mon 12/31/18	L_MU_MF_154_M_09B_B_A_8	
<b>Bells Lane Wet Weather Treatment Facility</b>	100%	Mon 7/24/17	Mon 7/24/17	Wed 12/31/14	Sat 9/30/17		
Bells Lane Wet Weather Treatment Facility	100%	Mon 7/24/17	Mon 7/24/17	Wed 12/31/14	Sat 9/30/17	L_OR_MF_015_M_13_B_B_8	PADDY'S RUN WET WEATHER TREATMENT FACILITY
<b>Portland CSO Basin</b>	100%	Sun 8/18/19	Fri 8/9/19	Tue 12/31/19	Tue 12/31/19		
Portland CSO Basin	100%	Sun 8/18/19	Fri 8/9/19	Tue 12/31/19	Tue 12/31/19	L_OR_MF_019_S_13_B_A_8	PORTLAND WHARF STORAGE BASIN
<b>Southwestern Parkway Storage Basin</b>	100%	Fri 3/29/19	Fri 3/29/19	Mon 12/31/18	Sun 6/30/19		
Southwestern Parkway Storage Basin	100%	Fri 3/29/19	Fri 3/29/19	Mon 12/31/18	Sun 6/30/19	L_OR_MF_105_M_13_B_A_0	SOUTHWESTERN PARKWAY STORAGE BASIN

Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.

Figure 4.1. IOAP Implementation Schedule

Project Name	Complete	Start	End	Completion	Modifications*		H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2					
<b>Central Relief Drain CSO In-Line Storage, Green Infrastructure &amp; Distributed Storage</b>	100%	Fri 11/30/18	Fri 11/30/18	NA	Mon 12/31/18							
Central Relief Drain CSO In-Line Storage, Green Infrastructure & Distributed Storage	100%	Fri 11/30/18	Fri 11/30/18	NA	Mon 12/31/18	L_OR_MF_155_M_09B_B_B_4						
<b>CSO160 In-Line Storage &amp; Green Infrastructure Controls</b>	100%	Thu 12/10/15	Thu 12/10/15	Thu 12/31/15	Thu 12/31/15							
CSO160 In-Line Storage & Green Infrastructure Controls	100%	Thu 12/10/15	Thu 12/10/15	Thu 12/31/15	Thu 12/31/15	L_OR_MF_160_S_08_A_A_0	CSO160 SEWER SEPARATION					
<b>Adams Street Sewer Separation</b>	100%	Wed 11/28/12	Wed 11/28/12	Mon 12/31/12	Mon 12/31/12							
Adams Street Sewer Separation	100%	Wed 11/28/12	Wed 11/28/12	Mon 12/31/12	Mon 12/31/12	L_OR_MF_172_S_09B_B_A_0	ADAMS STREET STORAGE BASIN					
<b>CSO190 Green Infrastructure Solution</b>	100%	Sun 12/31/17	Fri 12/29/17	Sun 12/31/17	Sun 12/31/17							
CSO190 Green Infrastructure Solution	100%	Sun 12/31/17	Fri 12/29/17	Sun 12/31/17	Sun 12/31/17	L_OR_MF_190_S_09B_B_A_8	18TH AND NORTHWESTERN PKY. STORAGE BASIN					
<b>Southern Outfall In-Line Storage at 43rd St (SOR1) &amp; Morris Forman WQTC</b>	100%	Fri 11/30/18	Fri 11/30/18	Mon 12/31/18	Mon 12/31/18							
<b>Southern Outfall In-Line Storage at 43rd St (SOR 1)</b>	100%	Fri 11/30/18	Fri 11/30/18	Mon 12/31/18	Mon 12/31/18							
Southern Outfall In-Line Storage at 43rd St (SOR 1)	100%	Fri 11/30/18	Fri 11/30/18	Mon 12/31/18	Mon 12/31/18	L_OR_MF_211_M_13_B_A_8						
<b>Morris Forman WQTC Headworks</b>	100%	Fri 11/30/18	Fri 11/30/18	Mon 12/31/18	Mon 12/31/18							
Morris Forman WQTC Headworks	100%	Fri 11/30/18	Fri 11/30/18	Mon 12/31/18	Mon 12/31/18							
<b>MF Main Diversion Structure</b>	100%	Wed 11/28/18	Wed 11/28/18	Mon 12/31/18	Mon 12/31/18							
MF Main Diversion Structure	100%	Wed 11/28/18	Wed 11/28/18	Mon 12/31/18	Mon 12/31/18							
<b>Nightingale Pump Station Replacement &amp; Storage</b>	100%	Thu 6/29/17	Thu 6/29/17	Sat 12/31/16	Fri 6/30/17							
Nightingale Pump Station Replacement & Storage	100%	Thu 6/29/17	Thu 6/29/17	Sat 12/31/16	Fri 6/30/17	L_SO_MF_018_S_03_A_A	NIGHTINGALE PUMP STATION REPLACEMENT					
<b>Logan and Breckenridge Street Storage Basin</b>	100%	Wed 10/18/17	Wed 12/20/17	Sun 12/31/17	Sun 12/31/17							
Logan and Breckenridge Street Storage Basin	100%	Wed 10/18/17	Wed 12/20/17	Sun 12/31/17	Sun 12/31/17	L_SO_MF_092_M_09B_B_D_8	CALVARY CREEKSIDE BASIN					
<b>CSO093 Structural Modifications &amp; Green Infrastructure</b>	100%	Wed 12/23/15	Wed 12/23/15	Thu 12/31/15	Thu 12/31/15							
CSO093 Structural Modifications & Green Infrastructure	100%	Wed 12/23/15	Wed 12/23/15	Thu 12/31/15	Thu 12/31/15	L_SO_MF_093_S_08_A_A_0	CSO093 SEWER SEPARATION					
<b>CSO108 Dam Modifications</b>	100%	Thu 12/30/10	Thu 12/30/10	Fri 12/31/10	Fri 12/31/10							
CSO108 Dam Modifications	100%	Thu 12/30/10	Thu 12/30/10	Fri 12/31/10	Fri 12/31/10	L_SO_MF_108_S_09A_B_A_4						

Approved 2009 IOAP  IOAP Modifications  Remaining Work  Completed Work 

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.

Figure 4.1. IOAP Implementation Schedule

	Complete			Completion	Modifications*			H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
<b>Story Avenue and Spring Street Green Infrastructure</b>	100%	Tue 12/20/16	Tue 12/20/16	Sat 12/31/16	Sat 12/31/16			
Story Avenue and Spring Street Green Infrastructure	100%	Tue 12/20/16	Tue 12/20/16	Sat 12/31/16	Sat 12/31/16	L_SO_MF_130_S_09B_B_A_8	STORY AVENUE AND SPRING STREET STORAGE BASIN	
<b>FLOOD PUMP STATION PROJECTS</b>	100%	Wed 12/31/14	Thu 12/18/14	Wed 12/31/14	Wed 12/31/14			
<b>27th Street Flood Pump Station DWO Elimination</b>	100%	Fri 6/28/13	Fri 6/28/13	Sun 6/30/13	Sun 6/30/13			
27th Street Flood Pump Station DWO Elimination	100%	Fri 6/28/13	Fri 6/28/13	Sun 6/30/13	Sun 6/30/13	L_OR_MF_019_S_03_A_A		
<b>34th Street Flood Pump Station DWO Elimination</b>	100%	Mon 6/11/12	Mon 6/11/12	Mon 12/31/12	Mon 12/31/12			
34th Street Flood Pump Station DWO Elimination	100%	Mon 6/11/12	Mon 6/11/12	Mon 12/31/12	Mon 12/31/12	L_OR_MF_019_S_03_A_B		
<b>4th Street Flood Pump Station DWO Elimination</b>	100%	Fri 6/15/12	Fri 6/15/12	Mon 12/31/12	Mon 12/31/12			
4th Street Flood Pump Station DWO Elimination	100%	Fri 6/15/12	Fri 6/15/12	Mon 12/31/12	Mon 12/31/12	L_OR_MF_022_M_03_A_A		
<b>Shawnee Flood Pump Station DWO Elimination</b>	100%	Tue 6/18/13	Tue 6/18/13	Sun 6/30/13	Sun 6/30/13			
Shawnee Flood Pump Station DWO Elimination	100%	Tue 6/18/13	Tue 6/18/13	Sun 6/30/13	Sun 6/30/13	L_OR_MF_189_M_03_A_A		
<b>17th Street Flood Pump Station DWO Elimination</b>	100%	Thu 12/18/14	Thu 12/18/14	Wed 12/31/14	Wed 12/31/14			
17th Street Flood Pump Station DWO Elimination	100%	Thu 12/18/14	Thu 12/18/14	Wed 12/31/14	Wed 12/31/14	L_OR_MF_190_S_03_A_A		
<b>SANITARY SEWER DISCHARGE PLAN</b>	62%	Tue 12/31/24	NA	Tue 12/31/24	Tue 12/31/24			
<b>BEARGRASS CREEK MIDDLE FORK AREA</b>	65%	Tue 12/31/24	NA	Tue 12/31/24	Tue 12/31/24			
<b>Goose Creek PS Improvements and Wet Weather Storage</b>	58%	Tue 12/31/24	NA	Tue 12/31/24	Tue 12/31/24			
<b>Goose Creek PS Improvements &amp; Wet Weather Storage 1 - Devondale PS and Bancroft WQTC Elimination</b>	100%	Thu 6/29/17	Tue 7/25/17	Tue 12/31/24	Tue 12/31/24			
Goose Creek PS Improvements & Wet Weather Storage 1 - Devondale PS and Bancroft WQTC Elimination	100%	Thu 6/29/17	Tue 7/25/17	Tue 12/31/24	Tue 12/31/24	S_MI_MF_NB04_M_03_B		
<b>Goose Creek PS Improvements &amp; Wet Weather Storage 2 - PS and FM Upgrades</b>	0%	Sat 4/29/23	NA	Tue 12/31/24	Tue 12/31/24			
Goose Creek PS Improvements & Wet Weather Storage 2 - PS and FM Upgrades	0%	Sat 4/29/23	NA	Tue 12/31/24	Tue 12/31/24	S_MI_MF_NB04_M_03_B		
<b>Anchor Estates Pump Station Elimination</b>	100%	Fri 4/15/16	Fri 4/15/16	Sat 12/31/16	Sat 12/31/16			
Anchor Estates PS Elimination 2 - Anchor Estates #1 and #2 PS Elimination	100%	Fri 4/15/16	Fri 4/15/16	Sat 12/31/16	Sat 12/31/16			

Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.

Figure 4.1. IOAP Implementation Schedule

	Complete			Completion	Modifications*			H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
Anchor Estates PS Elimination 2 - Anchor Estates #1 and #2 PS Elimination	100%	Fri 4/15/16	Fri 4/15/16	Sat 12/31/16	Sat 12/31/16	S_MI_MF_NB06_M_01_A_A - 1		[Gantt Chart: 100% completed work from H1 2016 to H2 2016]																													
<b>Anchor Estates PS Elimination 1 - Vannah PS Elimination</b>	<b>100%</b>	<b>Sat 10/15/11</b>	<b>Sat 10/15/11</b>	<b>Tue 12/31/13</b>	<b>Tue 12/31/13</b>			[Gantt Chart: 100% completed work from H2 2011 to H2 2013]																													
Anchor Estates PS Elimination 1 - Vannah PS Elimination	100%	Sat 10/15/11	Sat 10/15/11	Tue 12/31/13	Tue 12/31/13	S_MI_MF_NB06_M_01_A_A - 2		[Gantt Chart: 100% completed work from H2 2011 to H2 2013]																													
<b>Hurstbourne I/I Investigation &amp; Rehabilitation</b>	<b>100%</b>	<b>Tue 12/27/11</b>	<b>Tue 12/27/11</b>	<b>Sat 12/31/11</b>	<b>Sat 12/31/11</b>			[Gantt Chart: 100% completed work from H2 2011 to H2 2011]																													
Hurstbourne I/I Investigation & Rehabilitation	100%	Tue 12/27/11	Tue 12/27/11	Sat 12/31/11	Sat 12/31/11	S_MI_MF_NB07_S_07_C		[Gantt Chart: 100% completed work from H2 2011 to H2 2011]																													
<b>Middle Fork Relief Interceptor, Wet Weather Storage, and UMFLS Diversion</b>	<b>48%</b>	<b>Sun 12/31/23</b>	<b>NA</b>	<b>Sun 12/31/23</b>	<b>Tue 12/31/13</b>			[Gantt Chart: 48% completed work from H2 2013 to H2 2023]																													
Middle Fork Relief Interceptor, Wet Weather Storage, and UMFLS Diversion 1 - Buechel Basin	100%	Fri 12/27/13	Fri 12/27/13	Tue 12/31/13	Tue 12/31/13			[Gantt Chart: 100% completed work from H2 2013 to H2 2013]																													
Middle Fork Relief Interceptor, Wet Weather Storage, and UMFLS Diversion 1 - Buechel Basin	100%	Fri 12/27/13	Fri 12/27/13	Tue 12/31/13	Tue 12/31/13	S_MISF_MF_NB01_M_01_C_A1		[Gantt Chart: 100% completed work from H2 2013 to H2 2013]																													
<b>Middle Fork Relief Interceptor, Wet Weather Storage, and UMFLS Diversion 2 - PS Diversion and Storage</b>	<b>0%</b>	<b>Sun 12/31/23</b>	<b>NA</b>	<b>Sun 12/31/23</b>	<b>Sun 12/31/23</b>			[Gantt Chart: 0% completed work from H2 2023 to H2 2023]																													
Middle Fork Relief Interceptor, Wet Weather Storage, and UMFLS Diversion 2 - PS Diversion and Storage	0%	Sun 12/31/23	NA	Sun 12/31/23	Sun 12/31/23	S_MISF_MF_NB01_M_01_C_A1		[Gantt Chart: 0% completed work from H2 2023 to H2 2023]																													
<b>CEDAR CREEK AREA</b>	<b>52%</b>	<b>Tue 12/31/24</b>	<b>NA</b>	<b>Tue 12/31/24</b>	<b>Tue 12/31/24</b>			[Gantt Chart: 52% completed work from H2 2024 to H2 2024]																													
<b>Little Cedar Creek Interceptor Improvements</b>	<b>0%</b>	<b>Mon 6/26/23</b>	<b>NA</b>	<b>Tue 12/31/24</b>	<b>Tue 12/31/24</b>			[Gantt Chart: 0% completed work from H2 2023 to H2 2024]																													
Little Cedar Creek Interceptor Improvements	0%	Mon 6/26/23	NA	Tue 12/31/24	Tue 12/31/24	S_CC_CC_67997_M_01_C		[Gantt Chart: 0% completed work from H2 2023 to H2 2024]																													
<b>Idlewood Inline Storage</b>	<b>0%</b>	<b>Wed 8/21/24</b>	<b>NA</b>	<b>Sun 12/31/23</b>	<b>Sun 12/31/23</b>			[Gantt Chart: 0% completed work from H2 2024 to H2 2023]																													
Idlewood Inline Storage	0%	Wed 8/21/24	NA	Sun 12/31/23	Sun 12/31/23	S_CC_CC_70158_M_09A_C		[Gantt Chart: 0% completed work from H2 2024 to H2 2023]																													
<b>Bardstown Rd. PS Improvements</b>	<b>0%</b>	<b>Sun 6/6/21</b>	<b>NA</b>	<b>Fri 12/31/21</b>	<b>Fri 12/31/21</b>			[Gantt Chart: 0% completed work from H2 2021 to H2 2021]																													
Bardstown Rd. PS Improvements	0%	Sun 6/6/21	NA	Fri 12/31/21	Fri 12/31/21	S_CC_CC_MSD1025_S_03_B		[Gantt Chart: 0% completed work from H2 2021 to H2 2021]																													
<b>Running Fox PS Elimination</b>	<b>100%</b>	<b>Wed 3/10/10</b>	<b>Wed 3/10/10</b>	<b>Fri 12/31/10</b>	<b>Fri 12/31/10</b>			[Gantt Chart: 100% completed work from H2 2010 to H2 2010]																													
Running Fox PS Elimination	100%	Wed 3/10/10	Wed 3/10/10	Fri 12/31/10	Fri 12/31/10	S_CC_CC_MSD1080_S_01_C		[Gantt Chart: 100% completed work from H2 2010 to H2 2010]																													
<b>Fairmount Road Pump Station</b>	<b>100%</b>	<b>Wed 3/30/16</b>	<b>Thu 3/31/16</b>	<b>Sun 12/31/23</b>	<b>Sun 12/31/23</b>			[Gantt Chart: 100% completed work from H2 2016 to H2 2023]																													
Fairmount Rd PS Improvements	100%	Tue 4/24/12	Tue 4/24/12	Sun 12/31/23	Sun 12/31/23	S_FF_CC_81316_M_03_C_A		[Gantt Chart: 100% completed work from H2 2012 to H2 2023]																													
<b>Fairmount PS Offline Storage Basin</b>	<b>100%</b>	<b>Thu 3/31/16</b>	<b>Thu 3/31/16</b>	<b>Sun 12/31/23</b>	<b>Thu 3/31/16</b>			[Gantt Chart: 100% completed work from H2 2016 to H2 2023]																													
Fairmount PS Offline Storage Basin	100%	Thu 3/31/16	Thu 3/31/16	Sun 12/31/23	Thu 3/31/16	S_FF_CC_81316_M_03_C_A		[Gantt Chart: 100% completed work from H2 2016 to H2 2023]																													

Approved 2009 IOAP [Pattern] IOAP Modifications [Pattern] Remaining Work [Pattern] Completed Work [Pattern]

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.



Figure 4.1. IOAP Implementation Schedule

	Complete			Completion	Modifications*			H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
<b>COMBINED SEWER SYSTEM AREA</b>	<b>100%</b>	<b>Fri 12/15/23</b>	<b>Fri 12/15/17</b>	<b>Thu 6/30/11</b>	<b>Thu 6/30/11</b>			
<b>Hazelwood PS I/I Investigation &amp; Rehabilitation</b>	<b>100%</b>	<b>Thu 6/30/11</b>	<b>Thu 6/30/11</b>	<b>Thu 6/30/11</b>	<b>Thu 6/30/11</b>			
Hazelwood PS I/I Investigation & Rehabilitation	100%	Thu 6/30/11	Thu 6/30/11	Thu 6/30/11	Thu 6/30/11	S_MC_MF_55665_S_07_C		
<b>Sonne Pump Station I/I Investigation &amp; Rehabilitation</b>	<b>100%</b>	<b>Thu 6/30/11</b>	<b>Thu 6/30/11</b>	<b>Thu 6/30/11</b>	<b>Thu 6/30/11</b>			
Sonne Pump Station I/I Investigation & Rehabilitation	100%	Thu 6/30/11	Thu 6/30/11	Thu 6/30/11	Thu 6/30/11	S_OR_MF_42007_S_07_C		
<b>Camp Taylor</b>	<b>100%</b>	<b>Fri 12/15/23</b>	<b>Fri 12/15/17</b>	<b>Sun 12/31/17</b>	<b>Sun 12/31/17</b>			
<b>Camp Taylor Phase 1 - SSES</b>	<b>100%</b>	<b>Fri 7/8/11</b>	<b>Fri 7/8/11</b>	<b>Sat 12/31/11</b>	<b>Tue 12/31/13</b>			
Camp Taylor Phase 1 - SSES	100%	Fri 7/8/11	Fri 7/8/11	Sat 12/31/11	Tue 12/31/13	S_SF_MF_30917_M_09_A	CAMP TAYLOR SYSTEM IMPROVEMENTS PHASE 1 - SSES	
<b>Camp Taylor Phase 2 - Sewer Replacement and Rehabilitation</b>	<b>100%</b>	<b>Fri 12/20/13</b>	<b>Fri 12/20/13</b>	<b>Tue 12/31/13</b>	<b>Sun 12/31/17</b>			
Camp Taylor Phase 2 - Sewer Replacement and Rehabilitation	100%	Fri 12/20/13	Fri 12/20/13	Tue 12/31/13	Sun 12/31/17	S_SF_MF_30917_M_09_A	CAMP TAYLOR SYSTEM IMPROVEMENTS PHASE 2 - SEWER REPLACEMENT AND REHABILITATION	
<b>Camp Taylor Phase 3 - Sewer Replacement and Rehabilitation</b>	<b>100%</b>	<b>Sun 12/31/17</b>	<b>Fri 12/15/17</b>	<b>Sun 12/31/17</b>	<b>Sun 12/31/17</b>			
Camp Taylor Phase 3 - Sewer Replacement and Rehabilitation	100%	Fri 12/15/17	Fri 12/15/17	Sun 12/31/17	Sun 12/31/17	S_SF_MF_30917_M_09_A	CAMP TAYLOR SYSTEM IMPROVEMENTS 3 - SEWER REPLACEMENT & SEWER REHABILITATION	
<b>FLOYDS FORK AREA</b>	<b>100%</b>	<b>Thu 3/4/10</b>	<b>Thu 3/4/10</b>	<b>Fri 12/31/21</b>	<b>Thu 4/1/10</b>			
<b>Woodland Hill PS Diversion</b>	<b>100%</b>	<b>Thu 3/4/10</b>	<b>Thu 3/4/10</b>	<b>Thu 6/30/11</b>	<b>Thu 4/1/10</b>			
Woodland Hill PS Diversion	100%	Thu 3/4/10	Thu 3/4/10	Thu 6/30/11	Thu 4/1/10	S_FF_FF_NB01_S_01_C_A		
<b>Ashburton PS Improvements &amp; Diversion</b>	<b>100%</b>	<b>Wed 12/30/09</b>	<b>Wed 12/30/09</b>	<b>Fri 12/31/21</b>	<b>Fri 1/22/10</b>			
Ashburton PS Improvements & Diversion	100%	Wed 12/30/09	Wed 12/30/09	Fri 12/31/21	Fri 1/22/10	S_FF_FF_NB03_M_01_C_A		
<b>HITE CREEK AREA</b>	<b>62%</b>	<b>Tue 11/26/24</b>	<b>NA</b>	<b>Tue 12/31/24</b>	<b>Tue 12/31/24</b>			
<b>Meadow Stream Pump Station &amp; Force Main Upgrade</b>	<b>100%</b>	<b>Tue 12/18/12</b>	<b>Tue 12/18/12</b>	<b>Sat 12/31/16</b>	<b>Sat 12/31/16</b>			
Meadow Stream Pump Station & Force Main Upgrade	100%	Tue 12/18/12	Tue 12/18/12	Sat 12/31/16	Sat 12/31/16	S_HC_HC_MSD1082_S_09A_C	MEADOW STREAM PUMP STATION IN-LINE STORAGE	
<b>Kavanaugh Rd. PS Improvements</b>	<b>0%</b>	<b>Sat 3/2/24</b>	<b>NA</b>	<b>Tue 12/31/24</b>	<b>Tue 12/31/24</b>			
Kavanaugh Rd. PS Improvements	0%	Sat 3/2/24	NA	Tue 12/31/24	Tue 12/31/24	S_HC_HC_MSD1085_S_03_A		
<b>Floydsburg Rd. I/I Investigation &amp; Rehabilitation</b>	<b>100%</b>	<b>Fri 12/17/10</b>	<b>Fri 12/17/10</b>	<b>Fri 12/31/10</b>	<b>Fri 12/31/10</b>			
Floydsburg Rd. I/I Investigation & Rehabilitation	100%	Fri 12/17/10	Fri 12/17/10	Fri 12/31/10	Fri 12/31/10	S_HC_HC_MSD1086_M_07_C_A		
<b>INTERIM SSP PROJECTS</b>	<b>100%</b>	<b>Tue 11/27/12</b>	<b>Tue 11/27/12</b>	<b>Tue 11/27/12</b>	<b>Tue 11/27/12</b>			
<b>Beechwood Village Sanitary Sewer Replacement</b>	<b>100%</b>	<b>Wed 9/29/10</b>	<b>Wed 9/29/10</b>	<b>Wed 4/27/11</b>	<b>Wed 4/27/11</b>			

Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.

Figure 4.1. IOAP Implementation Schedule

	Complete			Completion	Modifications*			H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
Beechwood Village Sanitary Sewer Replacement	100%	Wed 9/29/10	Wed 9/29/10	Wed 4/27/11	Wed 4/27/11			
<b>Sinking Fork Relief Sewer</b>	<b>100%</b>	<b>Mon 11/30/09</b>	<b>Mon 11/30/09</b>	<b>Thu 12/30/10</b>	<b>Wed 12/23/09</b>			
Sinking Fork Relief Sewer	100%	Mon 11/30/09	Mon 11/30/09	Thu 12/30/10	Wed 12/23/09			
<b>Derek R. Guthrie Water Quality Treatment Center</b>	<b>100%</b>	<b>Tue 11/27/12</b>	<b>Tue 11/27/12</b>	<b>Tue 11/27/12</b>	<b>Tue 11/27/12</b>			
Derek R. Guthrie Water Quality Treatment Center	100%	Tue 11/27/12	Tue 11/27/12	Tue 11/27/12	Tue 11/27/12			
<b>Hikes Lane Interceptor and Highgate Springs PS</b>	<b>100%</b>	<b>Fri 11/2/12</b>	<b>Fri 11/2/12</b>	<b>Tue 11/27/12</b>	<b>Tue 11/27/12</b>			
Hikes Lane Interceptor and Highgate Springs PS	100%	Fri 11/2/12	Fri 11/2/12	Tue 11/27/12	Tue 11/27/12			
<b>Northern Ditch Diversion Interceptor</b>	<b>100%</b>	<b>Wed 2/16/11</b>	<b>Wed 2/16/11</b>	<b>Sun 7/31/11</b>	<b>Sun 7/31/11</b>			
Northern Ditch Diversion Interceptor	100%	Wed 2/16/11	Wed 2/16/11	Sun 7/31/11	Sun 7/31/11			
<b>Southeastern Diversion Structure and Interceptor</b>	<b>100%</b>	<b>Mon 12/19/11</b>	<b>Mon 12/19/11</b>	<b>Sat 5/12/12</b>	<b>Sat 5/12/12</b>			
Southeastern Diversion Structure and Interceptor	100%	Mon 12/19/11	Mon 12/19/11	Sat 5/12/12	Sat 5/12/12			
<b>JEFFERSONTOWN AREA</b>	<b>62%</b>	<b>Sat 12/31/22</b>	<b>NA</b>	<b>Sat 12/31/22</b>	<b>Sat 12/31/22</b>			
<b>Jeffersontown WQTC Elimination</b>	<b>100%</b>	<b>Wed 12/23/15</b>	<b>Wed 12/23/15</b>	<b>Thu 12/31/15</b>	<b>Thu 12/31/15</b>			
Jeffersontown WQTC Elimination	100%	Wed 12/23/15	Wed 12/23/15	Thu 12/31/15	Thu 12/31/15	S_JT_JT_NB01_M_01_C_A		
<b>Elimination of Chenoweth Hills WQTC, Chenoweth Run PS, and Chippewa PS</b>	<b>100%</b>	<b>Mon 9/22/14</b>	<b>Mon 9/22/14</b>	<b>Thu 12/31/15</b>	<b>Thu 12/31/15</b>			
Elimination of Chenoweth Hills WQTC, Chenoweth Run PS, and Chippewa PS	100%	Mon 9/22/14	Mon 9/22/14	Thu 12/31/15	Thu 12/31/15	S_JT_JT_NB01A_M_03_C	CHENOWETH HILLS WATER QUALITY TREATMENT CENTER ELIMINATION AND PS IMPROVEMENTS PROJECT	
<b>Dell Rd and Charlane Pkwy Interceptor Improvements</b>	<b>0%</b>	<b>Sun 12/26/21</b>	<b>NA</b>	<b>Sat 12/31/22</b>	<b>Sat 12/31/22</b>			
Dell Rd and Charlane Pkwy Interceptor Improvements	0%	Sun 12/26/21	NA	Sat 12/31/22	Sat 12/31/22	S_JT_JT_NB02_M_01_C		
<b>Raintree and Marian Ct 1</b>	<b>38%</b>	<b>Wed 6/30/21</b>	<b>NA</b>	<b>Fri 12/31/21</b>	<b>Fri 12/31/21</b>			
<b>Raintree and Marian Ct 1 - PS Elimination</b>	<b>77%</b>	<b>Fri 2/12/21</b>	<b>NA</b>	<b>Fri 12/31/21</b>	<b>Fri 12/31/21</b>			
Raintree and Marian Ct 1 - PS Elimination	77%	Fri 4/16/21	NA	Fri 12/31/21	Fri 12/31/21	S_JT_JT_NB03_M_01_C		
<b>Raintree and Marian Ct 2 - Pipe Upgrades</b>	<b>0%</b>	<b>Tue 10/5/21</b>	<b>NA</b>	<b>Fri 12/31/21</b>	<b>Fri 12/31/21</b>			
Raintree and Marian Ct 2 - Pipe Upgrades	0%	Tue 10/5/21	NA	Fri 12/31/21	Fri 12/31/21	S_JT_JT_NB03_M_01_C		
<b>Monticello PS Elimination</b>	<b>0%</b>	<b>Fri 5/6/22</b>	<b>NA</b>	<b>Sat 12/31/22</b>	<b>Sat 12/31/22</b>			
Monticello PS Elimination	0%	Fri 5/6/22	NA	Sat 12/31/22	Sat 12/31/22	S_JT_JT_NB04_M_01_A		

Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.



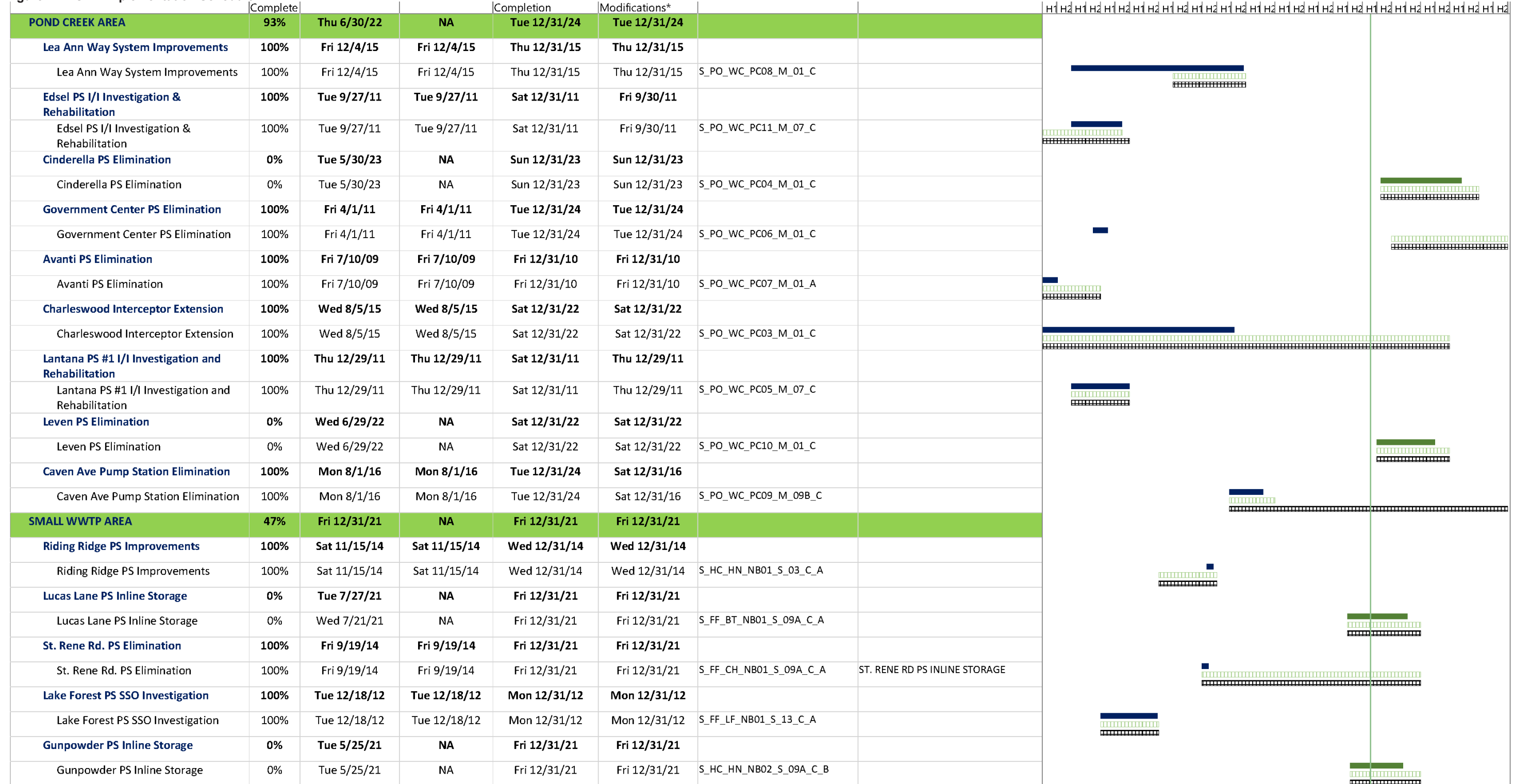
Figure 4.1. IOAP Implementation Schedule

	Complete			Completion	Modifications*		
<b>MILL CREEK AREA</b>	<b>100%</b>	<b>Fri 4/13/12</b>	<b>Fri 4/13/12</b>	<b>Fri 12/31/21</b>	<b>Fri 12/31/21</b>		
Shively Interceptor	100%	Fri 4/13/12	Fri 4/13/12	Wed 12/31/14	Wed 12/31/14		
Shively Interceptor	100%	Fri 4/13/12	Fri 4/13/12	Wed 12/31/14	Wed 12/31/14	S_MC_WC_NB01_M_01_A	
East Rockford PS Relocation	100%	Fri 3/30/12	Fri 3/30/12	Fri 12/31/21	Fri 12/31/21		
East Rockford PS Relocation	100%	Fri 3/30/12	Fri 3/30/12	Fri 12/31/21	Fri 12/31/21	S_MC_WC_NB02_S_03_C	
<b>OHIO RIVER FORCE MAIN AREA</b>	<b>84%</b>	<b>Thu 10/3/24</b>	<b>NA</b>	<b>Tue 12/31/24</b>	<b>Tue 12/31/24</b>		
Mellwood System Improvements & PS Elimination	49%	Wed 12/19/12	NA	Tue 12/31/24	Tue 12/31/24		
Mellwood System Improvements & PS Elimination - Mellwood PS and FM Improvements	100%	Wed 12/19/12	Wed 12/19/12	Mon 12/31/12	Mon 12/31/12		
Mellwood System Improvements & PS Elimination - Mellwood PS and FM Improvements	100%	Wed 12/19/12	Wed 12/19/12	Mon 12/31/12	Mon 12/31/12	S_OR_MF_NB01_M_01_B	
Mellwood System Improvements & PS Elimination - Winton and Mockingbird Valley Elimination	0%	Tue 5/21/24	NA	Tue 12/31/24	Tue 12/31/24		
Mellwood System Improvements & PS Elimination - Winton and Mockingbird Valley Elimination	0%	Tue 5/21/24	NA	Tue 12/31/24	Tue 12/31/24	S_OR_MF_NB01_M_01_B	
Derington Ct. PS I/I Investigation & Rehabilitation	100%	Fri 3/30/12	Fri 3/30/12	Sat 3/31/12	Sat 3/31/12		
Derington Ct. PS I/I Investigation & Rehabilitation	100%	Fri 3/30/12	Fri 3/30/12	Sat 3/31/12	Sat 3/31/12	S_OR_MF_NB03_S_07_C	
Prospect WQTC Eliminations, Harrods Creek PS and ORFM System	100%	Mon 12/19/16	Mon 12/19/16	Sat 12/31/16	Sat 12/31/16		
Prospect #1 - WQTC Eliminations	100%	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15		
Prospect #1 - WQTC Eliminations	100%	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15	S_OR_MF_NB04_M_03_B_B	
Prospect #2 - Harrods Creek PS and FM	100%	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15		
Prospect #2 - Harrods Creek PS and FM	100%	Tue 12/15/15	Tue 12/15/15	Thu 12/31/15	Thu 12/31/15	S_OR_MF_NB04_M_03_B_B	
Prospect #3 - ORFM System Improvements	100%	Mon 12/19/16	Mon 12/19/16	Sat 12/31/16	Sat 12/31/16		
Prospect #3 - ORFM System Improvements	100%	Mon 12/19/16	Mon 12/19/16	Sat 12/31/16	Sat 12/31/16	S_OR_MF_NB04_M_03_B_B	
<b>OTHER PROJECTS</b>	<b>75%</b>	<b>Tue 12/31/24</b>	<b>NA</b>	<b>Tue 12/31/24</b>	<b>Mon 12/30/24</b>		
CPE_CCP Modifications To WQTC	100%	Mon 12/19/11	Mon 12/19/11	Sat 12/31/11	Sat 12/31/11		
CPE_CCP Modifications To WQTC	100%	Mon 12/19/11	Mon 12/19/11	Sat 12/31/11	Sat 12/31/11		
I/I Reduction Program	70%	Tue 12/31/24	NA	Tue 12/31/24	Tue 12/31/24		
I/I Reduction Program	70%	Tue 12/31/24	NA	Tue 12/31/24	Tue 12/31/24		

Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.






Figure 4.1. IOAP Implementation Schedule



Approved 2009 IOAP IOAP Modifications Remaining Work Completed Work

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.

Figure 4.1. IOAP Implementation Schedule

	Complete			Completion	Modifications*			H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2 H1 H2
<b>Fairway View PS Improvements</b>	<b>100%</b>	<b>Tue 12/30/14</b>	<b>Tue 12/30/14</b>	<b>Wed 12/31/14</b>	<b>Wed 12/31/14</b>			
Fairway View PS Improvements	100%	Tue 12/30/14	Tue 12/30/14	Wed 12/31/14	Wed 12/31/14	S_HC_HS_NB01_S_03_C_A		
<b>SOUTHEASTERN DIVERSION AREA</b>	<b>75%</b>	<b>Mon 11/27/23</b>	<b>NA</b>	<b>Sun 12/31/23</b>	<b>Sun 12/31/23</b>			
<b>Parkview Estates I/I Investigation &amp; Rehabilitation</b>	<b>100%</b>	<b>Tue 6/28/11</b>	<b>Tue 6/28/11</b>	<b>Sat 12/31/11</b>	<b>Sat 12/31/11</b>			
Parkview Estates I/I Investigation & Rehabilitation	100%	Tue 6/28/11	Tue 6/28/11	Sat 12/31/11	Sat 12/31/11	S_SD_MF_NB03_S_07_C		
<b>Klondike Interceptor</b>	<b>100%</b>	<b>Thu 12/5/13</b>	<b>Thu 12/5/13</b>	<b>Thu 12/31/15</b>	<b>Thu 12/31/15</b>			
Klondike Interceptor	100%	Thu 12/5/13	Thu 12/5/13	Thu 12/31/15	Thu 12/31/15	S_SD_MF_NB04_S_01_B_A		
<b>Sutherland Interceptor</b>	<b>0%</b>	<b>Thu 1/5/23</b>	<b>NA</b>	<b>Sun 12/31/23</b>	<b>Sun 12/31/23</b>			
Sutherland Interceptor	0%	Thu 1/5/23	NA	Sun 12/31/23	Sun 12/31/23	S_SD_MF_NB05_M_01_A		
<b>Beargrass Interceptor Rehab Ph. 2</b>	<b>100%</b>	<b>Tue 12/14/10</b>	<b>Tue 12/14/10</b>	<b>Fri 12/31/10</b>	<b>Fri 12/31/10</b>			
Beargrass Interceptor Rehab Ph. 2	100%	Tue 12/14/10	Tue 12/14/10	Fri 12/31/10	Fri 12/31/10	S_SD_MF_NB06_S_13_C		

Approved 2009 IOAP  IOAP Modifications  Remaining Work  Completed Work 

Includes 2014 approval of 2012 IOAP Modification as well as all minor mod letter approvals to date.





## SECTION 5: PROGRAM ACTIVITIES FOR PUBLIC OUTREACH, EDUCATION, NOTIFICATION AND PARTICIPATION

### 5.1. PUBLIC NOTIFICATION PROGRAM

MSD has developed a program aimed at notifying the community of the objectives of Project WIN, and ways to reduce the risks of coming into contact with sewage overflows.

### 5.2. PUBLIC EDUCATION PROGRAMS

A public education program about Louisville MSD’s primary business functions of wastewater treatment, stormwater management and flood protection has been developed and is in use across multiple platforms. MSD uses earned media through local and regional outlets to educate the public about our vital services, initiatives, consent decree projects and more.

Paid advertising is utilized in our local papers—Business First and the Courier Journal—to inform and educate the public about our consent decree projects and MS4 initiatives. We moved from a single full-page print ad in the Courier Journal to three quarter-page ads, increasing the reach to an estimated 306,000 for the Project WIN messaging. We also added a digital campaign to augment the print ads, reaching more than 831,000. The digital online campaign continued to increase awareness of the Waterway Protection Tunnel project, sewer overflows and What Not To Flush.

Direct mail communications through post card, letters and bill inserts are also utilized for external communications.

Social media and our website—LouisvilleMSD.org—are relatively new and important methods to reach and educate the public. We are on FaceBook, Twitter and Instagram.

MSD included Consent Decree compliance, wastewater facility upgrades, and aging infrastructure as key topics in its Critical Repair & Reinvestment Plan. Public education about this initiative continue to include posts on MSD’s website and social media accounts.

During the reporting period, Metro TV aired the programs listed in Table 5.1.

### 5.3. PUBLIC OUTREACH PROGRAMS

MSD has developed a public education program aimed at expanding the public’s knowledge of MSD’s primary business functions of wastewater, stormwater and flood protection, with an emphasis on Project WIN Program elements.

#### 5.3.1. IOAP PROJECT AND PROGRAM MEETINGS

MSD facilitates meetings for the Wet Weather Team and the public to review regulatory commitments, update progress on projects and initiatives, and to gather public input on efforts.

**Table 5.1. Metro TV Broadcasts**

DATE	PROGRAM TITLE	ORIGINAL MEETING DATE
1/16/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
1/16/2020	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
1/17/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
1/19/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
1/28/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
1/29/2020	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
3/9/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
3/21/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017

MSD has developed a partnership with Louisville Metro for providing project information and soliciting feedback from stakeholders using a Structured Public Involvement approach. Structured Public Involvement is meant to facilitate relevant input on the design process as MSD prepares to design and construct CSO basins. The current IOAP outreach activities and public meetings are using this process to elicit qualitative and quantitative information and enhance engagement with customers. Additional information regarding the Structured Public Involvement Process and meetings held during this reporting period may be found at the Project WIN Public Input Website, available at <http://www.msdpowerwin.org/Public-Input.aspx>.

MSD held no meetings during the current reporting period. During the upcoming reporting period, MSD has no meetings planned.

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## **SECTION 6: CAPACITY MANAGEMENT OPERATIONS AND MAINTENANCE (CMOM) REPORT**

Per Paragraph 24.c. of the Amended Consent Decree, the Capacity Management Operations and Maintenance (CMOM) Self Assessment Report was submitted to EPA and KDEP on February 10, 2006. MSD received a letter of approval on August 22, 2006. The approved CMOM document can be viewed on the MSD Project WIN website, available at [www.msprojectwin.org](http://www.msprojectwin.org).

The primary objectives of CMOM are as follows:

- Capacity – Ensuring that adequate wet and dry weather capacity is maintained in existing and new infrastructure.
- Management – Implementing programs in support of operations and maintenance activities required to ensure KPDES permit compliance and promote public health by remedying design, construction and operational deficiencies; training staff; and performing activities in a safe manner.
- Operations – Implementing written standard operating procedures to operate system components as designed to meet permit requirements.
- Maintenance – Implementing systematic, comprehensive asset maintenance and rehabilitation programs to prevent overflows, maximize system reliability, and ensure system sustainability.

Although the program implementation deadlines from the CMOM Self Assessment Report were previously met, MSD continues to enhance the activities. Highlights of the CMOM program implementation over this reporting period are outlined below.

### **6.1. MANAGEMENT PROGRAMS**

#### M-E-9 Infrastructure Rehabilitation

Refer to the CMOM activity schedule provided in Section 6.4.

#### M-E-10 System Capacity Assurance Program

Included in the goals of the CMOM Self-Assessment Report, the Sewer Capacity Assurance Plan (SCAP) is the basis for applying capacity decision criteria to support watershed community values. It provides a programmatic approach for confirming available capacity within MSD's sanitary sewer system, creating capacity credits through system improvement and rehabilitation, identifying hydraulic constrictions, and proposing capacity improvements that support interim and long-term performance objectives. SCAP revisions, including credit and balance projections and discussion of approach for multi-family residential unit populations, were discussed with EPA and KDEP and submitted electronically for review on July 21, 2014. The final SCAP revision was submitted for approval on December 9, 2014, and approval was received February 5, 2015. A copy of the approved SCAP can be found on the Project WIN website, available at [www.msprojectwin.org](http://www.msprojectwin.org).

A current copy of the SCAP Credit Balance is included as Appendix D.

### **6.2. OPERATIONS PROGRAMS**

#### O-A-1 Pump Station Operations Programs (Routine Operating Programs)

#### O-A-2 Pump Station Operations Programs (Emergency Operating Programs)

Refer to the CMOM activity schedule provided in Section 6.4.

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### **6.3. COMPREHENSIVE PERFORMANCE EVALUATIONS AND COMPOSITE CORRECTION PLANS (CPE/CCP)**

Per requirements of MSD's 2009 Amended Consent Decree, MSD implemented a Comprehensive Performance Evaluation (CPE) and Composite Correction Plan (CCP) program for the District's WQTCs. Although the IOAP CPE assessments that defined specific WQTC improvements were completed by December 31, 2011, MSD will continue to implement CPE/CCP activities as part of the District's CMOM Program. This section lists activities per WQTC as they occur during the reporting period.

Refer to the CMOM activity schedule provided in Section 6.4. for CPE/CCP-related capital projects.

#### **6.3.1. HITE CREEK WATER QUALITY TREATMENT CENTER**

The Hite Creek WQTC Expansion project will expand the capacity of Hite Creek WQTC from 6 MGD to 9 MGD and provide regional dewatering of solids. The project will be in construction during the next several reporting periods. Accelerated solids dewatering costs and schedule changes confirmed during this reporting period.

#### **6.3.2. FLOYDS FORK WATER QUALITY TREATMENT CENTER**

No major projects occurring during the current reporting period or planned for the upcoming reporting period.

#### **6.3.3. DEREK R. GUTHRIE WATER QUALITY TREATMENT CENTER**

The Derek R. Guthrie WQTC Dewatering project was initiated during this reporting period under an Emergency Certificate. Currently solids from all the regional WQTCs (Cedar Creek, Floyds Fork, Hite Creek as well as DRG) are being dewatered at this facility.

The Derek R. Guthrie WQTC Clarifier Grout Repair and Gate Replacement project will provide new gates and automated actuators for the influent and the Return Activated Sludge (RAS) lines for Clarifiers 1-6. In addition, defective grout will be removed or replaced as needed for Clarifiers 7-12 and the aeration basin isolation gate will be replaced. The project began construction this reporting period.

The Derek R. Guthrie WQTC Hypochlorite Containment project was completed in this reporting period.

The Derek R. Guthrie WQTC Admin Building and RAS Building HVAC project is currently in the bidding phase and is scheduled to be under construction in the third quarter of 2020.

The Derek R. Guthrie WQTC RAS Electrical Modifications project is in the design phase during the reporting period and should be in the bidding process in the second quarter of 2020.

The Derek R. Guthrie WQTC Paving project is in the design phase during the reporting period and should be in the bidding process in the second quarter of 2020.

#### **6.3.4. CEDAR CREEK WATER QUALITY TREATMENT CENTER**

The Cedar Creek WQTC Sodium Aluminate Building project is currently in the design phase, with bidding expected to take place in the second quarter of 2020.

The Cedar Creek WQTC Effluent Parshall Flume Upgrades is under design.

The Cedar Creek WQTC MCC Upgrades project will be under construction in the next reporting period.

#### **6.3.5. PROSPECT AREA WATER QUALITY TREATMENT CENTER UPDATES**

An elimination plan for the five WQTCs serving Prospect (Timberlake, Hunting Creek North, Hunting Creek South, Ken Carla, and Shadow Wood) was submitted to EPA/KDEP on March 31, 2009. Approval of this plan was received on September 24, 2009, and work is now complete. A certification letter dated December 15, 2015, was submitted finalizing the completion of the project.



#### **6.3.6. JEFFERSONTOWN WATER QUALITY TREATMENT CENTER**

A certification letter dated December 23, 2015, was submitted finalizing the completion of the Jeffersontown WQTC Elimination Project.

#### **6.3.7. OTHER WATER QUALITY TREATMENT CENTERS**

All non-regional WQTCs owned or operated by MSD have been eliminated as of May 27, 2016.

### **6.4. CMOM ACTIVITY SCHEDULE**

CMOM capital project milestones for the current reporting period as well as a look-ahead for the upcoming reporting period are provided in Figure 6.1.

Figure 6.1. CMOM Quarterly Commitments Schedule

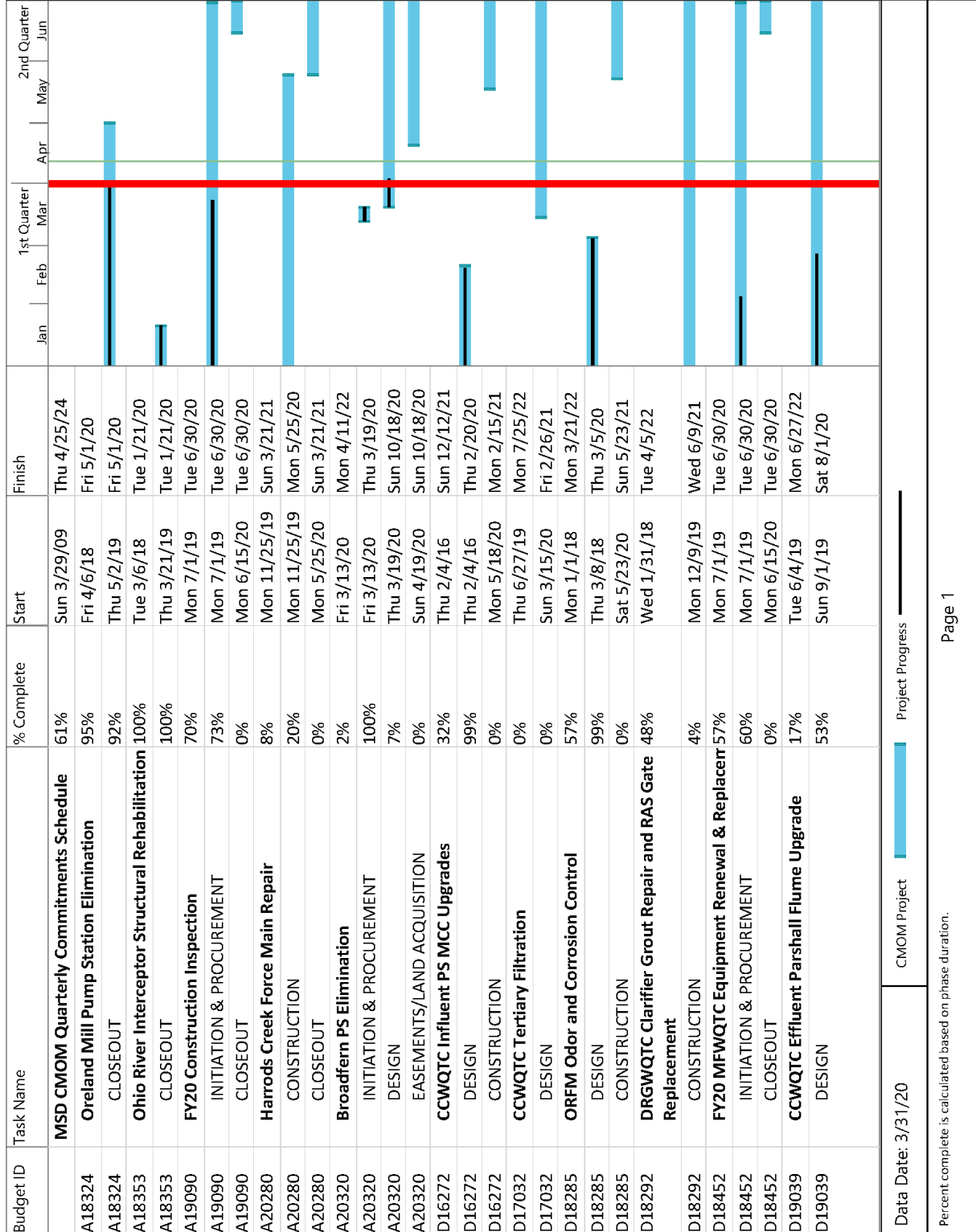


Figure 6.1. CMOM Quarterly Commitments Schedule

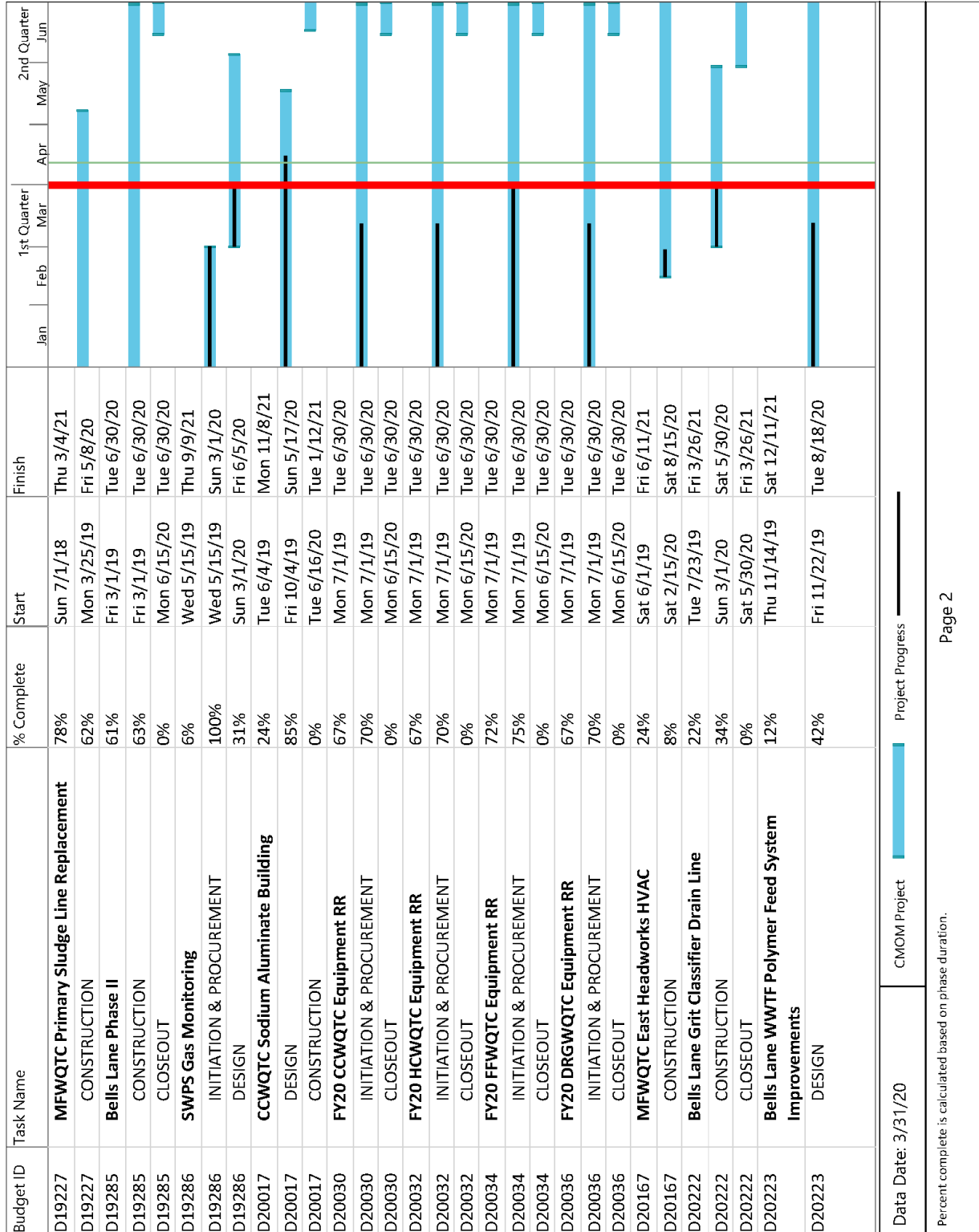
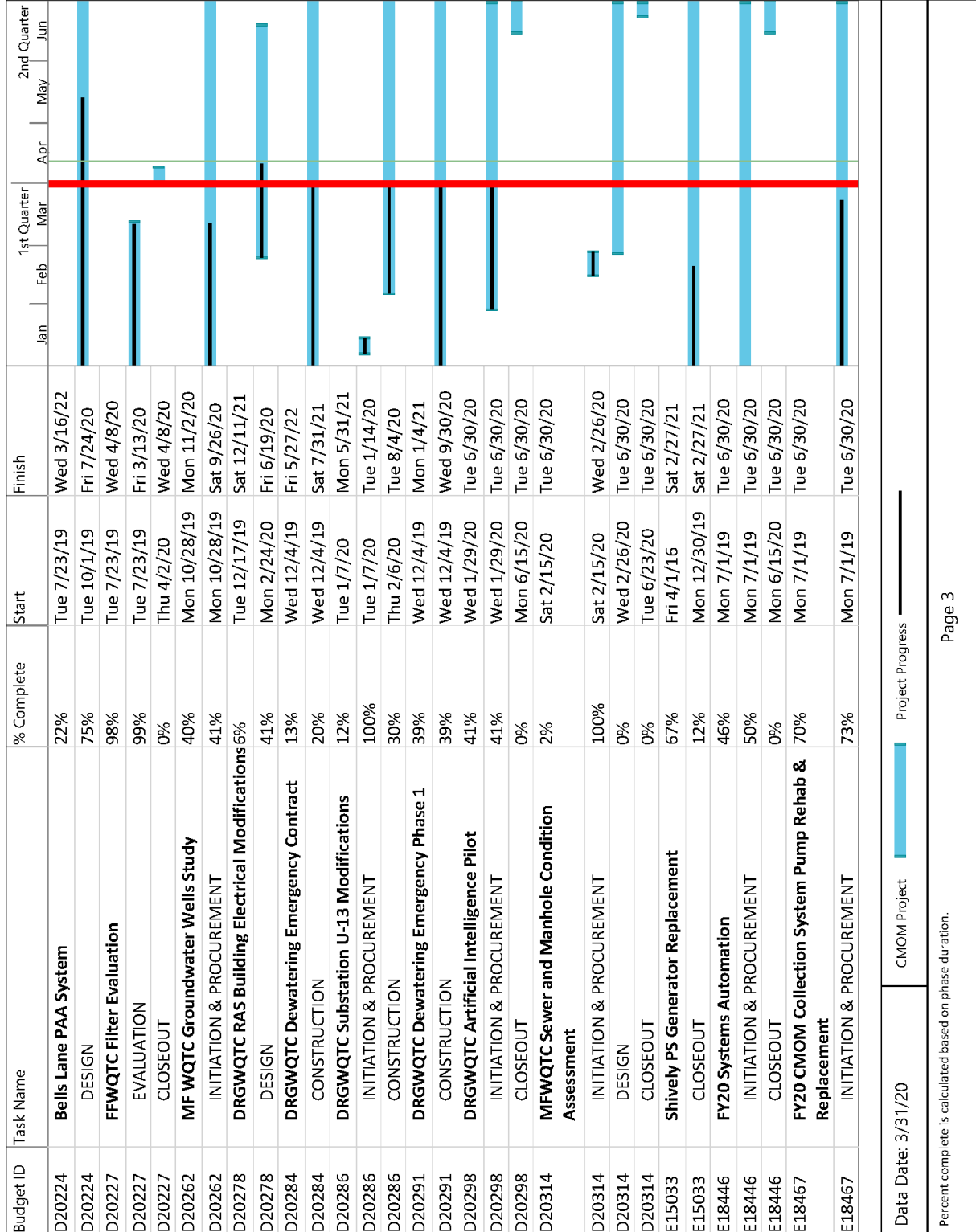


Figure 6.1. CMOM Quarterly Commitments Schedule



Data Date: 3/31/20

CMOM Project

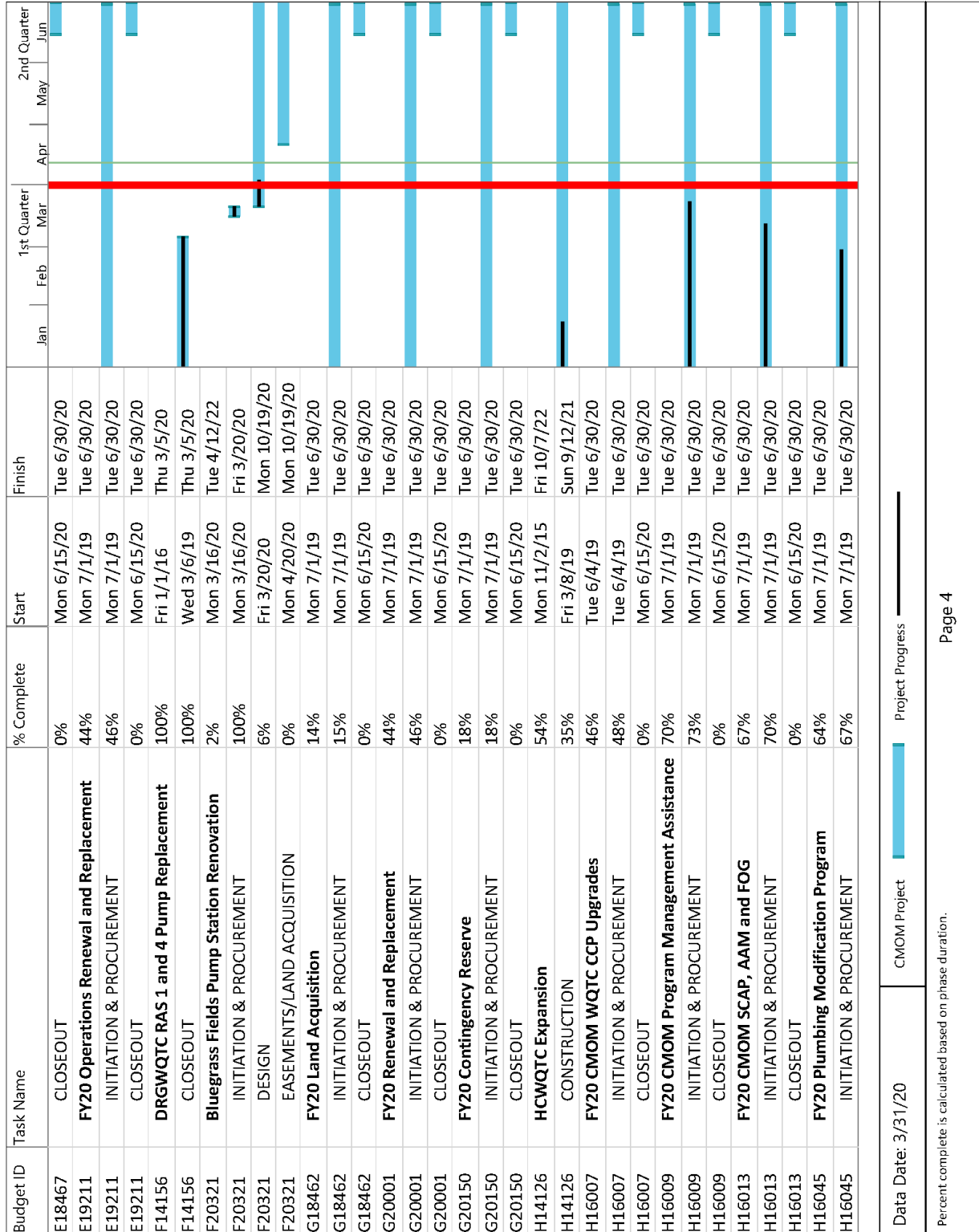
Project Progress

Page 3

Percent complete is calculated based on phase duration.



Figure 6.1. CMOM Quarterly Commitments Schedule



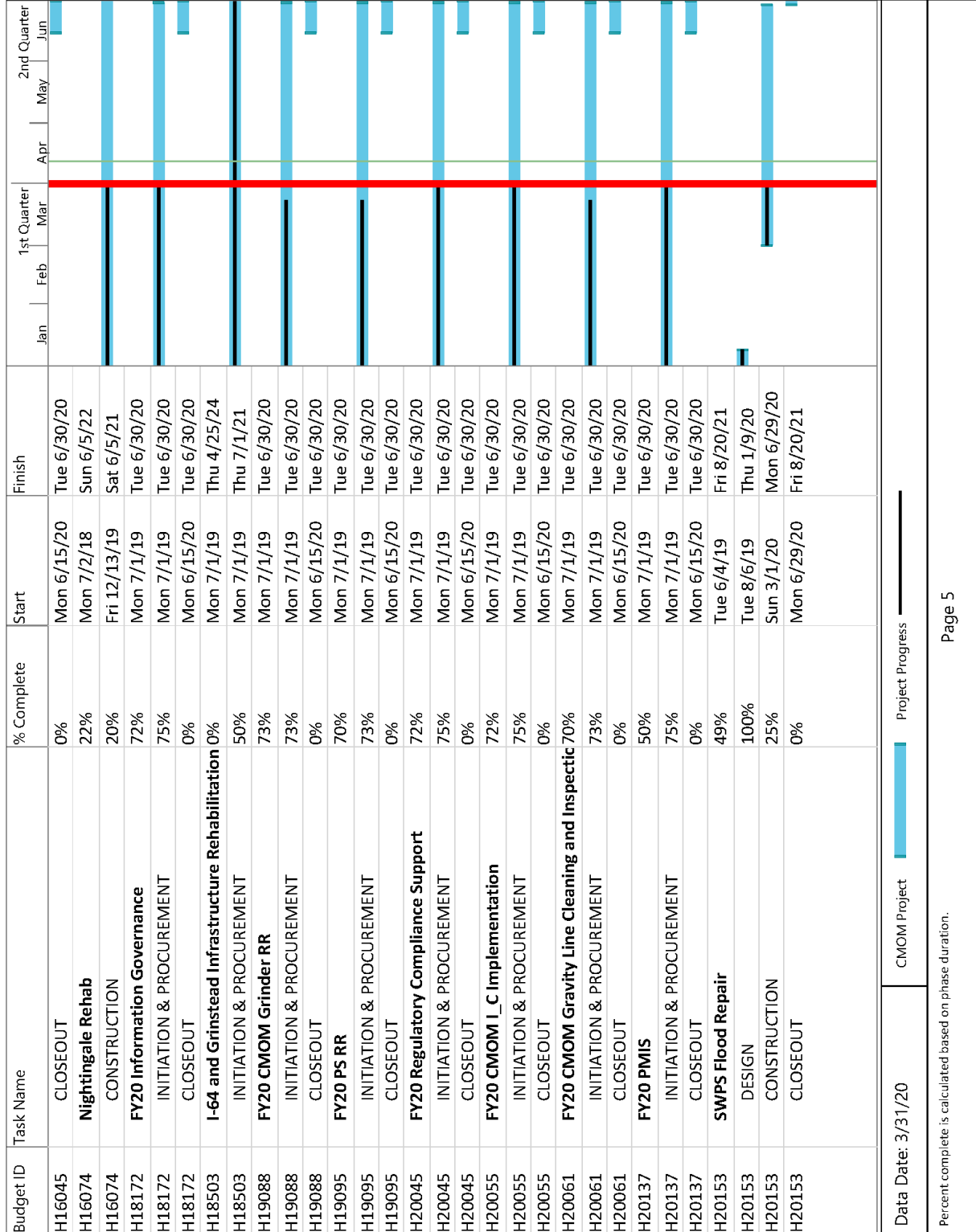
Data Date: 3/31/20

CMOM Project Project Progress

Percent complete is calculated based on phase duration.

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Figure 6.1. CMOM Quarterly Commitments Schedule



**APPENDIX A**

**DISCHARGE WORK ORDERS**





**APPENDIX A-1**

**BYPASSES**



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
HITE CREEK	KY0022420	5500 HITT RD	3/26/2020 19:35	3/27/2020 3:15	92040	Sewer Treatment Plant	MSD0202	STREAM	HITE CREEK	DEMOLITION OF EXISTING EQUIPMENT/PUMP STATION.	BYPASS AT WQTC	DRY WEATHER DISCHARGE	3227369	LIME SPREAD THROUGHOUT AREA. STORM WATER STATION VECTORING.	REPAIRING OF EXISTING EQUIPMENT.



**APPENDIX A-2**

**DRY WEATHER CSOs**



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
MORRIS FORMAN	KY0022411	801 S 4TH ST	2/14/2020 9:30	2/17/2020 13:15	15430	Sewer Manhole	CSO034	GROUND	OHIO RIVER	OBSTRUCTION IN THE MAIN.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3209394	NOT REQUIRED, DISC PIPE IS DISCHARGING TO CENTRAL RELIEF DRAIN.	NONE AT THIS TIME. FURTHER INVESTIGATION REQUIRED.





**APPENDIX A-3**

**UNAUTHORIZED DISCHARGES**



**PROJECT WIN QUARTERLY REPORT #58**  
**JANUARY 1, 2020 - MARCH 31, 2020**



ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/3/2020 19:45	1/4/2020 0:45	300000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3193065	CLEAN UP NOT REQUIRED.UNDER GROUND PIPE DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	1/11/2020 11:30	1/12/2020 14:45	900000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194062	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	1/11/2020 12:15	1/12/2002 23:15	6000000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194064	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK	LOCATION INCLUDED IN IOAP
MORRIS FORMAN	KY0022411	1011 ALTA CIR	1/11/2020 14:00	1/12/2020 9:25	142500	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194067	WO#3194139.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	1/11/2020 14:00	1/12/2020 9:20	57000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194066	WO#3194138.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	1/11/2020 14:15	1/12/2019 7:50	26500	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194054	WO#3194131.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9317 LANTANA DR	1/11/2020 14:20	1/11/2020 22:45	7575	Sewer Manhole	25484	STREAM	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194026	CLEANED AND SANITIZED THE IMPACTED AREA.	RAIN STOPPED ALLOWING STATION TO RECOVER, STOPPING DISCHARGE.
MORRIS FORMAN	KY0022411	3406 DELL RD	1/11/2020 14:20	1/12/2020 7:55	26500	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194055	WO#3194132.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	1/11/2020 14:30	1/12/2020 9:45	285000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194068	WO#3194141.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	1/11/2020 14:30	1/12/2020 9:45	1425000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194069	WO#3194140.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	1/11/2020 14:35	1/12/2020 8:05	26250	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194056	WO#3194133.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	1/11/2020 14:55	1/12/2020 8:20	26250	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194058	WO#3194134.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	9707 WILLOWWOOD WAY	1/11/2020 15:10	1/12/2020 8:15	25625	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194060	WO#3194136.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	1/11/2020 17:53	1/12/2020 2:15	12550	Sewer Manhole	60679	DITCH	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3194070	CLEANED AND SANITIZED THE IMPACTED AREA.	RAIN STOPPED ALLOWING STATION TO RECOVER AND DISCHARGE STOPPED.
DEREK R. GUTHRIE	KY0078956	5205 HASBROOK DR	2/5/2020 9:26	2/5/2020 11:30	2480	Sewer Valve	82091-V	GROUND	FLOYDS FORK	MECHANICAL FAILURE OF AIR RELIEF VALVE.	MECHANICAL FAILURE	RAIN EVENT DISCHARGE	3207738	WO#3173353	SHUT OFF PUMPS AT HASBROOK PUMP STATION AND HAULED SEWAGE WHILE REPAIRS BEING MADE (REPAIR WO 3173353).

ASSOCIATED WQTC NAME	ASSOCIATED WQTC KPDES#	OVERFLOW LOCATION	OVERFLOW START DATE & TIME	OVERFLOW STOP DATE & TIME	VOLUME OF OVERFLOW (GAL)	SOURCE ASSET TYPE	SOURCE ASSET ID	SOURCE ASSET DISCHARGES TO	RECEIVING STREAM	CAUSE OF OVERFLOW	DUE TO	WEATHER	WO #	CLEANUP EFFORTS BY MSD	REPAIR EFFORTS BY MSD
HITE CREEK	KY0022420	3700 CYPRESS SPRINGS PL	2/6/2020 12:30	2/6/2020 12:40	500	Sewer Lift Station	MSD1018-PS	GROUND	FLOYDS FORK	GREASE PLUGGED TRANSDUCERS PREVENTING PUMPS FROM STARTING.	ELECTRICAL PROBLEMS AT MSD	DRY WEATHER DISCHARGE	3207919	MSD PERSONNEL CLEANED AND SANITIZED IMPACTED AREA.	MANUALLY TURNED ON PUMPS TO STOP DISCHARGE AND CLEANED TRANSDUCER.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	2/12/2020 18:15	2/14/2020 4:15	6000000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208936	CLEAN UP NOT REQUIRED, IT IS A REMOTE LOCATION WITH LACK OF PUBLIC ACCESS.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	2/12/2020 19:04	2/13/2020 15:47	670000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208942	NO CLEANUP REQUIRED PIPES DISCHARGE UNDERWATER, DIRECTLY INTO CREEK.	LOCATION INCLUDED IN IOAP.
DEREK R. GUTHRIE	KY0078956	9317 LANTANA DR	2/12/2020 20:00	2/12/2020 22:30	7500	Sewer Lift Station	MSD0101-PS	DITCH	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208896	MAGNITUDE OF STORM RESULTED IN NO DEBRIS REMAINING.	NOTHING NEEDED.
CEDAR CREEK	KY0098540	9719 COLLIER LN	2/12/2020 20:07	2/17/2020 10:00	358600	Sewer Manhole	98022	STREAM	CEDAR CREEK	MECHANICAL FAILURE.	MECHANICAL FAILURE	RAIN EVENT DISCHARGE	3208888	NO DEBRIS WAS OBSERVED.	WE CLEANED OUT THE PUMPS.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	2/12/2020 21:00	2/13/2020 13:20	192000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208937	WO#3209004.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	2/12/2020 21:00	2/13/2020 8:15	33750	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208943	WO#3208993.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	2/12/2020 21:10	2/13/2020 8:20	16875	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208944	WO#3208991.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	2/12/2020 21:15	2/13/2020 8:30	33750	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208997	WO#3208998.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	2/12/2020 21:25	2/13/2020 8:36	16875	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208946	WO#3208988.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	2/12/2020 21:30	2/13/2020 9:50	54000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208939	WO#3209005.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	2/12/2020 21:30	2/13/2020 9:50	54000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208938	WO#3209006.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7900 SHELBYVILLE RD	2/12/2020 21:40	2/13/2020 10:00	54000	Sewer Manhole	02933	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208940	WO#3209002.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	9707 WILLOWWOOD WAY	2/12/2020 21:40	2/13/2020 8:50	16875	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208947	WO#3208987.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	7913 SHELBYVILLE RD	2/12/2020 21:45	2/13/2020 10:55	54000	Sewer Manhole	84155	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208941	WO#3209008.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	2/12/2020 21:55	2/13/2020 8:45	16250	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3208948	WO#3208986.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	420 W RIVER RD	2/14/2020 8:30	2/19/2020 8:20	9999	Sewer Lift Station	MSD1017-PS	STREAM	OHIO RIVER	LACK OF SYSTEM CAPACITY - HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3209138	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL.	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL.
HITE CREEK	KY0022420	6100 MAYFAIR AVE	2/14/2020 13:30	2/18/2020 19:00	9999	Sewer Lift Station	MSD1206-PS	GROUND	OHIO RIVER	LACK OF CAPACITY DUE TO OHIO RIVER FLOODING.	SYSTEM UNDERWATER	RAIN EVENT DISCHARGE	3209383	NONE REQUIRED.	STATION TO BE PLACED BACK IN SERVICE WHEN FLOOD WATERS RECEDE.

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MORRIS FORMAN	KY0022411	1677 STORY AVE	2/14/2020 16:58	2/18/2020 1:14	2000	Sewer Manhole	30213	CATCH BASIN	SOUTH FORK BEARGRASS CREEK	THE BEARGRASS FLOOD PUMPING STATION WAS IN SERVICE AND GATE 6 WAS CLOSED.	PUMPED OVERFLOW	RAIN EVENT DISCHARGE	3209530	NONE REQUIRED. FLOW MADE IT TO THE WET WELL OF BEARGRASS CREEK FLOOD PUMP STATION AND WAS PUMPED TO THE RIVER.	WE WILL OPEN GATE 6 WHEN THE RIVER RECEDES TO 24.6 FT AND ALLOW FLOW TO TRAVEL ON TO THE TREATMENT PLANT.
MORRIS FORMAN	KY0022411	6600 SEMINARY WOODS PL	2/19/2020 13:00	2/19/2020 19:30	39000	Sewer Lift Station	MSD0123-PS	DITCH	GOOSE CREEK	BROKEN PIPE FITTING TO AIR RELIEF VALVE ON FORCE MAIN.	STRUCTURAL FAILURE	DRY WEATHER DISCHARGE	3211399	MSD PERSONNEL CLEANED AND SANITIZED IMPACTED AREA.	SHUT OFF ALL PUMP STATIONS FEEDING FORCE MAIN TO ALLOW REPAIRS TO BE MADE.
MORRIS FORMAN	KY0022411	1011 ALTA CIR	3/12/2020 0:40	3/13/2020 9:00	102000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3218981	WO#3220565.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	3/12/2020 22:00	3/13/2020 6:00	800000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3218979	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	3/12/2020 23:30	3/12/2020 2:33	8240	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3218949	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO STREAM.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	3/13/2020 0:15	3/13/2020 6:20	9000	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3218950	WO#3220563.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	3/14/2020 16:15	3/15/2020 1:15	400000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3220825	NO CLEANUP REQUIRED, MANHOLE IS DISCHARGING DIRECTLY INTO CREEK	LOCATION INCLUDED IN IOAP
MORRIS FORMAN	KY0022411	1011 ALTA CIR	3/14/2020 19:20	3/15/2020 10:00	18000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3220832	WO#3220565	LOCATION INCLUDED IN IOAP
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	3/14/2020 21:30	3/14/2020 22:00	100	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223587	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	3/18/2020 20:30	3/21/2020 2:00	4600000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223254	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	3/18/2020 21:45	3/20/2020 15:26	341112	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223595	NO CLEAN UP NOT PERFORMED NO PUBLIC ACCESS TO THE DISCHARGE SITE	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1700 SULGRAVE RD	3/19/2020 13:30	3/19/2020 13:50	400	Sewer Manhole	72289	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223590	WO#3226591.	LOCATION IN IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	3/19/2020 13:40	3/19/2020 13:50	3000	Sewer Manhole	IS022A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-- HEAVY RAIN. CURRENTLY BEING INVESTIGATED, COULD BE RELATED TO SIPHON MAINTENANCE.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223589	WO#3226589.	LOCATION IN IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	3/19/2020 15:40	3/20/2020 12:55	161000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223593	WO#3226390.	LOCATION IN IOAP.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	3/19/2020 15:40	3/20/2020 12:55	161000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-- HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223591	WO#3226388.	LOCATION IN IOAP.

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MORRIS FORMAN	KY0022411	1011 ALTA CIR	3/19/2020 15:45	3/20/2020 12:55	276000	Sewer Manhole	45796	DITCH	MIDDLE FORK BEARGRASS CREEK	LOCATION IN IOAP	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223592	WO#32263896	LOCATION IN IOAP
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	3/19/2020 15:45	3/20/2020 10:15	30750	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LOCATION IN IOAP	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3223594	WO#3226392	LOCATION IN IOAP
MORRIS FORMAN	KY0022411	202 OXMOOR LN	3/19/2020 18:55	3/20/2020 5:55	132000	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3225529	WO#3226583.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	201 BULLITT LN	3/19/2020 18:55	3/20/2020 5:55	13200	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY--HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3225531	WO#3226584.	LOCATION INCLUDED IN IOAP.
FLOYDS FORK	KY0102784	605 WOODLAKE DR	3/26/2020 16:30	3/26/2020 18:22	3000	Sewer Main	80378B-AG	DITCH	CHENOWETH RUN, UPPER	STRUCTURAL FAILURE-- FORCE MAIN BREAK.	STRUCTURAL FAILURE	DRY WEATHER DISCHARGE	3227353	AREA DISINFECTED WITH LIME.	CONTACTED CONTRACTOR TO MAKE REPAIRS.
HITE CREEK	KY0022420	5500 HITT RD	3/26/2020 20:30	3/27/2020 3:15	6075	Sewer Manhole	11877A	STREAM	HITE CREEK	DEMOLITION WORK ON EXISTING EQUIPMENT/PUMP STATION.	STRUCTURAL FAILURE	DRY WEATHER DISCHARGE	3227370	LIME SPREAD THROUGHOUT AREA.	REPAIRING OF EXISTING EQUIPMENT.

**APPENDIX B**

**CSO FLOW MONITORING DATA**





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*DRAFT*

*CSO Data Monitoring Procedures are being Revised*



CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF KEY
CSO015	2/12/2020 18:30	2/12/2020 23:00	270	1	40,115,792	2	1	3	Atlas	(blank)	44,528,529	1
	2/23/2020 18:15	2/23/2020 20:45	150	Discharge	0	0				(blank)	364	
	2/25/2020 9:15	2/25/2020 10:15	60	0	1,005	1	0	24	Atlas	(blank)	965	1
	2/29/2020 13:00	2/29/2020 18:15	315	Discharge	0	1				(blank)	3,967	
	3/2/2020 13:15	3/2/2020 14:30	75	0	426	1	0	3	Atlas	(blank)	247	1
	3/3/2020 3:30	3/3/2020 4:45	75	0	462	0	0	3	Atlas	(blank)	120	1
	3/10/2020 1:30	3/10/2020 17:45	975	0	34,339	0	0	12	Atlas	(blank)	15,109	1
	3/11/2020 12:30	3/13/2020 19:30	3300	0	5,377,964	1	0	12	Atlas	(blank)	4,141,032	1
	3/18/2020 15:30	3/19/2020 0:30	540	0	30,060	2	0	6	Atlas	(blank)	18,938	1
	3/19/2020 12:15	3/19/2020 21:15	540	0	9,084,490	3	0	3	Atlas	(blank)	6,449,988	1
	3/28/2020 22:45	3/29/2020 1:00	135	0	20,088	0	0	1	Atlas	(blank)	6,629	1
CSO015 Total											55,165,888	9
CSO016	2/4/2020 20:15	2/4/2020 21:15	60	0	227,952	0	0	24	Atlas	(blank)	95,740	1
	2/12/2020 17:30	2/13/2020 1:15	465	1	12,263,052	2	1	3	Atlas	(blank)	13,979,879	1
	2/24/2020 21:00	2/25/2020 4:15	435	0	135,814	1	0	24	Atlas	(blank)	134,456	1
	3/2/2020 8:15	3/2/2020 9:45	90	0	577,700	1	0	3	Atlas	(blank)	369,728	1
	3/10/2020 8:15	3/10/2020 11:45	210	0	7,787,039	0	0	12	Atlas	(blank)	3,815,649	1
	3/12/2020 17:15	3/13/2020 3:15	600	0	18,726,342	1	0	12	Atlas	(blank)	14,419,283	1
	3/14/2020 13:00	3/14/2020 20:45	465	0	13,054,765	2	0	6	Atlas	(blank)	8,616,145	1
	3/18/2020 16:15	3/18/2020 21:45	330	0	8,046,174	2	0	6	Atlas	(blank)	5,551,860	1
	3/19/2020 12:15	3/19/2020 19:15	420	0	12,006,638	3	0	3	Atlas	(blank)	8,524,713	1
CSO016 Total											55,507,453	9
CSO019	1/2/2020 16:30	1/4/2020 6:45	2295	0	710,454	2	0	24	Atlas	(blank)	689,140	1
	1/10/2020 18:00	1/12/2020 14:45	2685	1	801,148	2	1	24	Atlas	(blank)	1,161,664	1
	1/18/2020 3:15	1/18/2020 18:15	900	0	922,871	1	0	12	Atlas	(blank)	452,207	1
	1/23/2020 18:45	1/24/2020 22:15	1650	0	900,542	1	0	48	Atlas	(blank)	558,336	1
	1/31/2020 7:45	1/31/2020 13:00	315	0	210,042	0	0	3	Atlas	(blank)	115,523	1
	2/4/2020 8:45	2/4/2020 22:15	810	0	601,356	0	0	24	Atlas	(blank)	204,461	1
	2/5/2020 16:30	2/5/2020 21:45	315	0	991,509	1	0	6	Atlas	(blank)	109,066	1
	2/6/2020 10:45	2/6/2020 10:45	0	0	97,325	1	0	3	Atlas	(blank)	3,893	1
	2/7/2020 6:15	2/7/2020 12:30	375	0	1,853,933	1	0	12	Atlas	(blank)	55,618	1
	2/9/2020 12:15	2/9/2020 13:30	75	0	29,719	0	0	48	Atlas	(blank)	19,020	1
	2/9/2020 23:30	2/10/2020 16:45	1035	0	491,698	0	0	48	Atlas	(blank)	314,687	1
	2/11/2020 1:15	2/11/2020 13:30	735	0	449,217	1	0	48	Atlas	(blank)	287,499	1
	2/12/2020 12:45	2/13/2020 7:00	1095	1	1,054,195	2	0	12	Atlas	(blank)	1,064,737	1



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C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF KEY
	2/18/2020 8:00	2/18/2020 13:00	300	0	565,436	1	0	6	Atlas	(blank)	124,396	1
	2/24/2020 6:30	2/25/2020 18:00	2130	0	979,294	1	0	24	Atlas	(blank)	861,779	1
	2/26/2020 10:00	2/26/2020 13:30	210	0	596,945	0	0	6	Atlas	(blank)	65,664	1
	3/2/2020 6:00	3/3/2020 12:00	1800	0	1,015,872	2	0	12	Atlas	(blank)	548,571	1
	3/10/2020 1:15	3/10/2020 13:15	720	0	736,917	0	0	12	Atlas	(blank)	265,290	1
	3/12/2020 15:30	3/13/2020 6:30	900	0	2,873,913	0	0	6	Atlas	(blank)	1,724,348	1
	3/14/2020 11:00	3/15/2020 5:00	1080	0	756,076	2	0	12	Atlas	(blank)	499,010	1
	3/18/2020 11:15	3/20/2020 14:00	3045	0	3,665,416	3	0	12	Atlas	(blank)	2,309,212	1
	3/24/2020 15:30	3/24/2020 22:30	420	0	1,735,484	2	0	6	Atlas	(blank)	329,742	1
	3/28/2020 22:15	3/29/2020 2:45	270	0	470,996	0	0	1	Atlas	(blank)	117,749	1
C-SO019 Total											11,881,612	23
C-SO022	2/12/2020 18:00	2/12/2020 20:45	165	0	1,591,573	1	0	12	Atlas	(blank)	1,193,680	1
	3/10/2020 8:00	3/10/2020 8:00	0	0	41,665	0	0	12	Atlas	(blank)	19,999	1
	3/12/2020 19:30	3/12/2020 19:30	0	0	2,743	0	0	6	Atlas	(blank)	1,481	1
	3/19/2020 12:15	3/19/2020 12:15	0	0	34,570	2	0	3	Atlas	(blank)	19,359	1
	3/28/2020 22:15	3/28/2020 22:30	15	0	1,123,861	0	0	1	Atlas	(blank)	202,295	1
C-SO022 Total											1,436,814	5
C-SO028	3/28/2020 22:15	3/28/2020 22:15	0	0	151,521	0	0	1	Atlas	(blank)	28,789	1
C-SO028 Total											28,789	1
C-SO029	3/28/2020 22:15	3/28/2020 22:15	0	0	47,958	0	0	1	Atlas	(blank)	9,112	1
C-SO029 Total											9,112	1
C-SO031	3/28/2020 22:15	3/28/2020 22:15	0	0	7,200	0	0	1	Atlas	(blank)	1,368	1
C-SO031 Total											1,368	1
C-SO034	2/12/2020 17:30	2/12/2020 18:00	30	0	5,364	1	0	3	Atlas	(blank)	4,130	1
	2/14/2020 9:30	2/14/2020 13:00	210	Discharge	0	1	0			(blank)	15,427	
	3/28/2020 22:15	3/28/2020 22:15	0	0	421,211	0	0	1	Atlas	(blank)	80,030	1
C-SO034 Total											99,587	2
C-SO035	3/28/2020 22:15	3/28/2020 22:15	0	0	183,273	0	0	1	Atlas	(blank)	40,320	1
C-SO035 Total											40,320	1
C-SO036	3/10/2020 8:15	3/10/2020 8:15	0	0	35,695	0	0	12	Atlas	(blank)	14,635	1
	3/19/2020 12:30	3/19/2020 12:30	0	0	74,530	2	0	3	Atlas	(blank)	32,793	1

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C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF KEY
	3/28/2020 22:30	3/28/2020 22:45	15	0	256,400	0	0	1	Atlas	(blank)	56,408	1
CSO036 Total											103,836	3
CSO038	3/12/2020 19:45	3/12/2020 19:45	0	0	1,837	0	0	12	Atlas	(blank)	1,157	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	173,184	0	0	1	Atlas	(blank)	32,905	1
CSO038 Total											34,062	2
CSO050	1/2/2020 15:30	1/2/2020 16:45	75	0	5,394	1	0	48	Atlas	(blank)	5,178	1
	1/3/2020 3:30	1/3/2020 20:00	990	0	83,097	2	0	48	Atlas	(blank)	79,773	1
	1/10/2020 18:45	1/10/2020 20:45	120	0	258,313	0	0	3	Atlas	(blank)	116,241	1
	1/11/2020 10:30	1/11/2020 20:45	615	0	823,088	1	0	6	Atlas	(blank)	732,548	1
	1/18/2020 3:45	1/18/2020 12:00	495	0	272,821	1	0	12	Atlas	(blank)	117,313	1
	1/24/2020 4:30	1/24/2020 7:00	150	0	94,689	0	0	48	Atlas	(blank)	43,557	1
	1/31/2020 10:00	1/31/2020 10:45	45	0	27,157	0	0	3	Atlas	(blank)	9,505	1
	2/4/2020 12:30	2/4/2020 20:15	465	0	76,741	0	0	24	Atlas	(blank)	35,301	1
	2/5/2020 17:45	2/5/2020 19:00	75	0	141,350	0	0	6	Atlas	(blank)	14,135	1
	2/10/2020 4:30	2/10/2020 8:00	210	0	15,775	0	0	12	Atlas	(blank)	3,786	1
	2/11/2020 1:15	2/11/2020 5:00	225	0	51,037	1	0	6	Atlas	(blank)	13,780	1
	2/12/2020 16:45	2/12/2020 23:00	375	0	999,598	2	0	3	Atlas	(blank)	889,642	1
	2/18/2020 8:45	2/18/2020 10:45	120	0	17,255	1	0	6	Atlas	(blank)	5,004	1
	2/24/2020 9:30	2/25/2020 3:15	1065	0	120,131	1	0	24	Atlas	(blank)	109,319	1
	3/2/2020 6:15	3/2/2020 13:00	405	0	87,971	2	0	3	Atlas	(blank)	57,181	1
	3/3/2020 1:45	3/3/2020 7:15	330	0	238,159	1	0	3	Atlas	(blank)	52,395	1
	3/10/2020 5:45	3/10/2020 8:00	135	0	393,160	0	0	12	Atlas	(blank)	176,922	1
CSO050 Total											2,461,580	17
CSO051	1/11/2020 11:00	1/11/2020 16:30	330	0	4,407	1	0	6	Atlas	(blank)	3,922	1
	2/12/2020 17:15	2/12/2020 19:15	120	0	32,544	1	0	3	Atlas	(blank)	28,964	1
	3/10/2020 8:00	3/10/2020 8:00	0	0	4,040	0	0	12	Atlas	(blank)	1,818	1
	3/12/2020 19:30	3/12/2020 20:15	45	0	25,474	1	0	6	Atlas	(blank)	15,794	1
	3/19/2020 12:00	3/19/2020 13:00	60	0	18,485	2	0	3	Atlas	(blank)	10,906	1
	3/28/2020 22:15	3/28/2020 22:15	0	0	69,921	0	0	1	Atlas	(blank)	16,781	1
CSO051 Total											78,185	6
CSO052	3/28/2020 22:15	3/28/2020 22:15	0	0	15,126	0	0	1	Atlas	(blank)	2,874	1
CSO052 Total											2,874	1
CSO054	1/11/2020 16:15	1/11/2020 16:30	15	0	2,555	1	0	6	Atlas	(blank)	1,993	1

C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF KEY
	3/12/2020 19:45	3/12/2020 20:00	15	0	45,542	1	0	6	Atlas	(blank)	30,513	1
	3/19/2020 12:45	3/19/2020 12:45	0	0	12,923	2	0	3	Atlas	(blank)	6,720	1
CSO054 Total											39,226	3
CSO055	1/10/2020 20:30	1/10/2020 20:30	0	0	2,095	0	0	3	Atlas	(blank)	817	1
	1/11/2020 11:15	1/11/2020 17:00	345	0	128,850	1	0	6	Atlas	(blank)	100,503	1
	2/12/2020 17:30	2/12/2020 22:15	285	0	2,775	1	0	3	Atlas	(blank)	2,137	1
	3/10/2020 8:00	3/10/2020 8:15	15	0	66,193	0	0	12	Atlas	(blank)	30,449	1
	3/12/2020 15:45	3/12/2020 22:45	420	0	236,706	1	0	6	Atlas	(blank)	158,593	1
	3/18/2020 15:45	3/18/2020 18:00	135	0	184	2	0	6	Atlas	(blank)	94	1
	3/19/2020 12:00	3/19/2020 13:30	90	0	280,387	2	0	3	Atlas	(blank)	145,801	1
	3/24/2020 18:30	3/24/2020 18:30	0	0	4,842	1	0	6	Atlas	(blank)	920	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	487,863	0	0	1	Atlas	(blank)	92,694	1
CSO055 Total											532,008	9
CSO056	2/12/2020 18:00	2/12/2020 18:45	45	0	18,183	1	0	3	Atlas	(blank)	14,001	1
	3/10/2020 8:00	3/10/2020 8:15	15	0	86,654	0	0	12	Atlas	(blank)	39,861	1
	3/12/2020 19:45	3/12/2020 20:00	15	0	123,291	1	0	6	Atlas	(blank)	82,605	1
	3/19/2020 12:15	3/19/2020 12:30	15	0	87,854	2	0	3	Atlas	(blank)	45,684	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	398,595	0	0	1	Atlas	(blank)	75,733	1
CSO056 Total											257,884	5
CSO057	1/3/2020 3:15	1/3/2020 5:30	135	0	116	1	0	48	Atlas	(blank)	88	1
	1/3/2020 14:00	1/3/2020 17:15	195	0	379	2	0	48	Atlas	(blank)	288	1
	1/18/2020 10:45	1/18/2020 10:45	0	0	72	0	0	12	Atlas	(blank)	26	1
	2/4/2020 9:00	2/4/2020 12:45	225	0	124	0	0	24	Atlas	(blank)	46	1
	2/15/2020 16:45	2/15/2020 19:15	150	0	2,570	0	0	6	Atlas	(blank)	257	1
	2/11/2020 1:30	2/11/2020 1:45	15	0	19	0	0	6	Atlas	(blank)	4	1
	2/12/2020 17:15	2/12/2020 18:15	60	0	114	1	0	3	Atlas	(blank)	83	1
	2/13/2020 6:15	2/13/2020 6:30	15	0	5	1	0	3	Atlas	(blank)	4	1
	2/24/2020 9:15	2/24/2020 15:30	375	0	42	0	0	24	Atlas	(blank)	31	1
	2/26/2020 10:30	2/26/2020 10:45	15	0	133	0	0	6	Atlas	(blank)	12	1
	3/2/2020 7:30	3/2/2020 13:00	330	0	554	1	0	6	Atlas	(blank)	310	1
	3/10/2020 2:30	3/10/2020 6:30	240	0	98	0	0	1	Atlas	(blank)	50	1
	3/12/2020 19:30	3/12/2020 19:30	0	0	749	1	0	6	Atlas	(blank)	427	1
	3/18/2020 13:30	3/18/2020 13:30	0	0	71	1	0	6	Atlas	(blank)	34	1
	3/24/2020 15:45	3/24/2020 21:30	345	0	328	1	0	6	Atlas	(blank)	59	1

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CSO057 Total											1,719	15
CSO062	1/3/2020 7:30	1/3/2020 9:00	90	0	140,500	2	0	48	Atlas	(blank)	105,375	1
	1/3/2020 18:30	1/3/2020 20:30	120	0	200,781	2	0	48	Atlas	(blank)	150,586	1
	1/10/2020 20:30	1/10/2020 22:00	90	0	922,342	0	0	3	Atlas	(blank)	285,926	1
	1/11/2020 11:30	1/11/2020 23:15	705	0	8,673,346	1	0	12	Atlas	(blank)	5,897,875	1
	1/18/2020 12:00	1/18/2020 12:30	30	0	46,536	0	0	12	Atlas	(blank)	16,753	1
	3/2/2020 8:00	3/2/2020 14:00	360	0	669,855	1	0	12	Atlas	(blank)	355,023	1
	3/3/2020 3:00	3/3/2020 3:45	45	0	327,027	0	0	3	Atlas	(blank)	49,054	1
	3/10/2020 8:30	3/10/2020 10:45	135	0	2,083,529	0	0	1	Atlas	(blank)	854,247	1
	3/12/2020 16:45	3/13/2020 4:45	720	0	14,759,555	0	0	6	Atlas	(blank)	7,527,373	1
	3/14/2020 12:45	3/14/2020 21:30	525	0	11,057,351	1	0	12	Atlas	(blank)	5,418,102	1
	3/18/2020 15:00	3/18/2020 21:00	360	0	5,023,167	1	0	6	Atlas	(blank)	2,159,962	1
	3/19/2020 12:00	3/20/2020 22:00	2040	0	30,001,544	2	0	3	Atlas	(blank)	13,500,695	1
	3/24/2020 18:45	3/25/2020 1:45	420	0	84,445,753	1	0	6	Atlas	(blank)	14,355,778	1
	3/28/2020 22:30	3/29/2020 2:45	255	0	43,223,175	0	0	1	Atlas	(blank)	8,644,635	1
CSO062 Total											59,321,384	14
CSO082	1/11/2020 11:45	1/11/2020 17:15	330	0	138,966	1	0	6	Atlas	(blank)	93,107	1
	2/12/2020 17:30	2/13/2020 15:15	1305	0	3,823,246	1	0	12	Atlas	(blank)	2,829,202	1
	3/10/2020 8:30	3/10/2020 9:15	45	0	15,225	0	0	1	Atlas	(blank)	7,308	1
	3/12/2020 17:00	3/13/2020 0:30	450	0	516,322	1	0	6	Atlas	(blank)	304,630	1
	3/14/2020 12:45	3/14/2020 19:15	390	0	604,410	2	0	12	Atlas	(blank)	302,205	1
	3/18/2020 16:00	3/18/2020 19:00	180	0	43,740	2	0	12	Atlas	(blank)	18,371	1
	3/19/2020 12:00	3/20/2020 5:15	1035	0	459,455	2	0	1	Atlas	(blank)	192,971	1
	3/24/2020 18:30	3/25/2020 0:15	345	0	4,850,756	1	0	6	Atlas	(blank)	776,121	1
	3/28/2020 22:30	3/29/2020 1:15	165	0	1,952,917	0	0	1	Atlas	(blank)	351,525	1
CSO082 Total											4,875,440	9
CSO083	3/19/2020 12:30	3/19/2020 12:30	0	0	48,605	2	0	1	Atlas	(blank)	20,414	1
	3/28/2020 22:45	3/28/2020 22:45	0	0	18,508	0	0	1	Atlas	(blank)	4,442	1
CSO083 Total											24,856	2
CSO084	1/3/2020 18:15	1/3/2020 18:15	0	0	5,451	2	0	48	Atlas	(blank)	3,707	1
	1/10/2020 20:30	1/10/2020 20:45	15	0	130,738	0	0	3	Atlas	(blank)	44,451	1
	1/11/2020 11:00	1/11/2020 16:45	345	0	276,823	1	0	6	Atlas	(blank)	196,544	1
	1/18/2020 11:00	1/18/2020 11:15	15	0	45,332	0	0	12	Atlas	(blank)	15,413	1



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	2/12/2020 12:00	2/12/2020 12:00	0	0	107,075	0	0	3	Atlas	(blank)	82,448	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	234,375	0	0	12	Atlas	(blank)	84,375	1
	3/12/2020 22:45	3/12/2020 22:45	0	0	195,825	0	0	12	Atlas	(blank)	101,829	1
	3/19/2020 12:00	3/19/2020 12:00	0	0	254,431	2	0	1	Atlas	(blank)	106,861	1
	3/28/2020 22:45	3/28/2020 22:45	0	0	368,963	0	0	1	Atlas	(blank)	88,551	1
CSO084 Total											724,179	9
CSO088	2/12/2020 18:00	2/12/2020 18:45	45	0	17,850	1	0	12	Atlas	(blank)	13,209	1
	3/28/2020 23:15	3/28/2020 23:15	0	0	18,419	0	0	1	Atlas	(blank)	3,868	1
CSO088 Total											17,077	2
CSO092	1/11/2020 11:00	1/11/2020 11:00	0	0	400	0	0	6	Atlas	(blank)	316	1
	2/10/2020 17:30	2/10/2020 18:30	60	0	4,650	0	0	12	Atlas	(blank)	930	1
	2/12/2020 17:30	2/12/2020 18:30	60	0	332	1	0	3	Atlas	(blank)	289	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	1,400	0	0	12	Atlas	(blank)	518	1
	3/12/2020 15:45	3/12/2020 22:45	420	0	4,868	0	0	12	Atlas	(blank)	2,872	1
	3/18/2020 15:45	3/18/2020 18:00	135	0	1,250	1	0	6	Atlas	(blank)	500	1
	3/19/2020 12:00	3/19/2020 19:00	420	0	8,684	2	0	1	Atlas	(blank)	2,779	1
	3/20/2020 3:45	3/20/2020 4:30	45	0	2,546	1	0	1	Atlas	(blank)	331	1
	3/24/2020 18:30	3/24/2020 19:45	75	0	5,171	0	0	6	Atlas	(blank)	724	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	42,937	0	0	1	Atlas	(blank)	12,881	1
CSO092 Total											22,140	10
CSO093	1/18/2020 3:15	1/18/2020 15:30	735	0	195,271	1	0	12	Atlas	(blank)	66,392	1
CSO093 Total											66,392	1
CSO097	1/3/2020 18:15	1/3/2020 18:30	15	0	1,586	2	0	48	Atlas	(blank)	1,253	1
	1/10/2020 19:30	1/10/2020 20:45	75	1	39,452	0	1	24	Atlas	(blank)	57,600	1
	1/11/2020 10:45	1/11/2020 21:00	615	1	308,664	1	1	24	Atlas	(blank)	450,649	1
	1/18/2020 10:45	1/18/2020 11:00	15	0	5,084	1	0	12	Atlas	(blank)	1,881	1
	1/24/2020 6:15	1/24/2020 6:30	15	0	302	0	0	24	Atlas	(blank)	181	1
	2/12/2020 17:00	2/12/2020 23:00	360	0	513,854	2	0	3	Atlas	(blank)	498,438	1
	2/24/2020 19:30	2/24/2020 19:45	15	0	2,231	0	0	24	Atlas	(blank)	1,517	1
	3/10/2020 8:00	3/10/2020 8:30	30	0	78,749	0	0	1	Atlas	(blank)	32,287	1
	3/12/2020 17:30	3/12/2020 23:00	330	0	101,794	0	0	12	Atlas	(blank)	49,879	1
	3/14/2020 12:30	3/14/2020 12:45	15	0	8,300	1	0	12	Atlas	(blank)	3,901	1
	3/18/2020 16:00	3/18/2020 16:30	30	0	16,010	1	0	6	Atlas	(blank)	6,244	1

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	3/19/2020 11:45	3/19/2020 13:00	75	0	332,318	2	0	1	Atlas	(blank)	219,330	1
	3/20/2020 3:30	3/20/2020 4:00	30	0	28,314	2	0	1	Atlas	(blank)	18,687	1
	3/24/2020 18:15	3/24/2020 19:00	45	0	90,038	1	0	6	Atlas	(blank)	11,705	1
	3/28/2020 22:15	3/28/2020 23:00	45	0	248,274	0	0	1	Atlas	(blank)	84,413	1
CSO097 Total											1,437,965	15
CSO104	1/3/2020 6:45	1/3/2020 17:45	660	0	4,358	2	0	24	Atlas	(blank)	3,966	1
	1/10/2020 19:45	1/11/2020 2:15	390	0	5,653	0	0	3	Atlas	(blank)	2,544	1
	1/11/2020 11:30	1/11/2020 16:00	270	0	165,512	1	0	6	Atlas	(blank)	152,271	1
	1/18/2020 17:45	1/18/2020 17:45	0	0	475	0	0	12	Atlas	(blank)	247	1
	1/31/2020 13:15	1/31/2020 13:15	0	0	61	0	0	1	Atlas	(blank)	33	1
	2/12/2020 18:15	2/20/2020 13:30	11235	1	45,580	2	0	3	Atlas	(blank)	49,682	1
	2/24/2020 19:00	2/24/2020 19:00	0	0	28	0	0	24	Atlas	(blank)	25	1
	2/25/2020 9:30	2/25/2020 9:30	0	0	17	1	0	24	Atlas	(blank)	15	1
	3/3/2020 8:30	3/3/2020 8:30	0	0	300	0	0	3	Atlas	(blank)	81	1
	3/10/2020 10:00	3/11/2020 8:45	1365	0	86,323	0	0	1	Atlas	(blank)	40,572	1
	3/12/2020 20:15	3/13/2020 2:00	345	0	24,241	1	0	12	Atlas	(blank)	16,969	1
	3/14/2020 13:30	3/14/2020 19:30	360	0	65,878	2	0	12	Atlas	(blank)	42,821	1
	3/18/2020 21:30	3/18/2020 21:30	0	0	114	2	0	6	Atlas	(blank)	64	1
	3/19/2020 12:15	3/19/2020 17:00	285	0	58,960	2	0	3	Atlas	(blank)	38,324	1
	3/20/2020 8:30	3/20/2020 8:30	0	0	22	2	0	3	Atlas	(blank)	14	1
	3/28/2020 23:00	3/29/2020 1:45	165	0	35,305	0	0	1	Atlas	(blank)	7,414	1
CSO104 Total											355,042	16
CSO108	2/12/2020 18:45	2/13/2020 6:00	675	1	14,806	2	0	12	Atlas	(blank)	15,990	1
CSO108 Total											15,990	1
CSO109	1/11/2020 11:15	1/11/2020 11:15	0	2	9,699	0	1	24	Atlas	(blank)	15,518	1
	2/12/2020 18:00	2/12/2020 18:30	30	1	20,253	1	0	3	Atlas	(blank)	22,481	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	123,122	0	0	12	Atlas	(blank)	44,324	1
	3/12/2020 20:00	3/12/2020 20:00	0	0	17,049	0	0	12	Atlas	(blank)	9,377	1
	3/19/2020 12:15	3/19/2020 12:30	15	0	253,798	2	0	24	Atlas	(blank)	154,817	1
	3/28/2020 22:30	3/28/2020 22:45	15	0	132,191	0	0	1	Atlas	(blank)	46,267	1
CSO109 Total											292,784	6
CSO111	1/11/2020 16:00	1/11/2020 16:30	30	0	13,036	1	0	6	Atlas	(blank)	11,211	1
	3/10/2020 8:30	3/10/2020 8:45	15	0	74,330	0	0	12	Atlas	(blank)	24,529	1



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C-SO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF KEY
	3/12/2020 16:00	3/12/2020 23:15	435	0	242,423	0	0	12	Atlas	(blank)	113,939	1
	3/14/2020 12:30	3/14/2020 18:00	330	0	54,136	1	0	12	Atlas	(blank)	25,444	1
	3/18/2020 14:00	3/18/2020 18:30	270	0	226,179	1	0	6	Atlas	(blank)	85,948	1
	3/19/2020 12:00	3/19/2020 14:00	120	0	236,968	2	0	24	Atlas	(blank)	135,072	1
	3/20/2020 3:45	3/20/2020 4:30	45	0	30,872	1	0	24	Atlas	(blank)	17,597	1
	3/24/2020 18:00	3/24/2020 21:45	225	0	330,785	1	0	6	Atlas	(blank)	43,002	1
	3/28/2020 22:30	3/28/2020 23:30	60	0	223,839	0	0	1	Atlas	(blank)	69,390	1
CSO111 Total											526,132	9
CSO113	1/11/2020 11:15	1/11/2020 11:15	0	0	9,272	0	0	6	Atlas	(blank)	7,325	1
	2/12/2020 18:00	2/12/2020 18:30	30	0	5,986	1	0	3	Atlas	(blank)	5,208	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	234,162	0	0	12	Atlas	(blank)	86,640	1
	3/12/2020 20:00	3/12/2020 20:00	0	0	11,644	0	0	12	Atlas	(blank)	6,870	1
	3/19/2020 12:15	3/19/2020 12:30	15	0	226,906	2	0	1	Atlas	(blank)	72,610	1
	3/28/2020 22:30	3/28/2020 22:45	15	0	639,040	0	0	1	Atlas	(blank)	191,712	1
CSO113 Total											370,365	6
CSO117	1/11/2020 16:00	1/11/2020 17:45	105	0	1,064,681	1	0	6	Atlas	(blank)	723,983	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	49,357	0	0	1	Atlas	(blank)	11,352	1
CSO117 Total											735,335	2
CSO118	1/3/2020 6:30	1/3/2020 8:30	120	0	58,631	2	0	48	Atlas	(blank)	39,869	1
	1/3/2020 18:00	1/3/2020 18:30	30	0	326,754	2	0	48	Atlas	(blank)	222,193	1
	1/10/2020 19:45	1/10/2020 21:15	90	0	1,731,168	0	0	3	Atlas	(blank)	588,597	1
	1/11/2020 11:15	1/11/2020 17:30	375	0	2,656,001	1	0	6	Atlas	(blank)	1,885,761	1
	1/18/2020 11:00	1/18/2020 11:45	45	0	854,044	0	0	12	Atlas	(blank)	290,375	1
	1/24/2020 6:30	1/24/2020 7:15	45	0	201,985	0	0	24	Atlas	(blank)	107,052	1
	2/12/2020 17:15	2/12/2020 23:15	360	0	5,492,913	1	0	3	Atlas	(blank)	4,229,543	1
	2/24/2020 19:45	2/25/2020 2:45	420	0	245,598	0	0	24	Atlas	(blank)	162,095	1
	3/10/2020 8:15	3/10/2020 8:45	30	0	1,700,928	0	0	12	Atlas	(blank)	612,334	1
	3/12/2020 16:00	3/12/2020 23:45	465	0	4,505,742	0	0	12	Atlas	(blank)	2,342,986	1
	3/14/2020 12:45	3/14/2020 18:00	315	0	1,147,116	1	0	12	Atlas	(blank)	516,202	1
	3/18/2020 14:15	3/18/2020 18:45	270	0	1,235,768	1	0	12	Atlas	(blank)	506,665	1
	3/19/2020 12:15	3/19/2020 14:00	105	0	3,957,148	2	0	1	Atlas	(blank)	1,662,002	1
	3/20/2020 4:15	3/20/2020 4:30	15	0	102,733	1	0	1	Atlas	(blank)	43,148	1
	3/24/2020 18:30	3/24/2020 22:00	210	0	4,184,900	1	0	6	Atlas	(blank)	627,735	1
	3/28/2020 22:30	3/28/2020 23:45	75	0	7,702,825	0	0	1	Atlas	(blank)	1,848,678	1



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CSO118 Total											15,685,235	16
CSO119	1/3/2020 18:00	1/3/2020 18:15	15	0	90,132	2	0	48	Atlas	(blank)	61,290	1
	1/10/2020 20:00	1/10/2020 20:45	45	0	332,144	0	0	3	Atlas	(blank)	112,929	1
	1/11/2020 11:00	1/11/2020 16:45	345	0	660,600	1	0	6	Atlas	(blank)	469,026	1
	1/18/2020 10:45	1/18/2020 11:15	30	0	280,421	0	0	12	Atlas	(blank)	95,343	1
	1/24/2020 6:30	1/24/2020 6:45	15	0	99,894	0	0	24	Atlas	(blank)	52,944	1
	2/12/2020 17:00	2/12/2020 20:30	210	0	806,251	1	0	3	Atlas	(blank)	620,813	1
	2/24/2020 19:45	2/24/2020 19:45	0	0	49,764	0	0	24	Atlas	(blank)	32,844	1
	3/2/2020 7:00	3/2/2020 7:15	15	0	55,851	0	0	3	Atlas	(blank)	27,367	1
	3/10/2020 8:00	3/10/2020 8:30	30	0	406,703	0	0	12	Atlas	(blank)	146,413	1
	3/12/2020 15:45	3/12/2020 23:15	450	0	980,763	0	0	12	Atlas	(blank)	509,997	1
	3/14/2020 12:30	3/14/2020 14:30	120	0	282,736	1	0	12	Atlas	(blank)	127,231	1
	3/18/2020 15:45	3/18/2020 16:30	45	0	369,544	1	0	12	Atlas	(blank)	151,513	1
	3/19/2020 11:45	3/19/2020 13:00	75	0	631,169	2	0	1	Atlas	(blank)	265,091	1
	3/20/2020 3:45	3/20/2020 4:00	15	0	119,333	1	0	1	Atlas	(blank)	50,120	1
	3/24/2020 18:30	3/24/2020 19:45	75	0	1,256,167	0	0	6	Atlas	(blank)	188,425	1
	3/28/2020 22:15	3/28/2020 23:15	60	0	1,031,821	0	0	1	Atlas	(blank)	247,637	1
CSO119 Total											3,158,983	16
CSO121	3/10/2020 8:15	3/10/2020 8:30	15	0	65,385	0	0	1	Atlas	(blank)	31,385	1
	3/12/2020 16:00	3/12/2020 23:15	435	0	190,865	1	0	6	Atlas	(blank)	112,504	1
	3/18/2020 16:00	3/18/2020 16:30	30	0	39,921	1	0	12	Atlas	(blank)	16,767	1
	3/19/2020 12:00	3/19/2020 12:45	45	0	216,940	2	0	1	Atlas	(blank)	91,115	1
	3/28/2020 22:30	3/28/2020 23:00	30	0	452,283	0	0	1	Atlas	(blank)	81,411	1
CSO121 Total											333,182	5
CSO125	1/3/2020 6:45	1/3/2020 7:45	60	0	12,338	2	0	48	Atlas	(blank)	9,870	1
	1/3/2020 18:15	1/3/2020 19:15	60	0	60,695	2	0	48	Atlas	(blank)	48,556	1
	1/10/2020 19:45	1/10/2020 21:00	75	0	392,897	0	0	3	Atlas	(blank)	149,301	1
	1/11/2020 11:15	1/11/2020 17:30	375	0	442,170	1	0	6	Atlas	(blank)	367,001	1
	1/18/2020 11:15	1/18/2020 11:30	15	0	30,226	0	0	12	Atlas	(blank)	10,579	1
	2/5/2020 2:15	2/9/2020 8:30	6135	0	788,627	0	0	24	Atlas	(blank)	260,247	1
	2/9/2020 21:15	2/12/2020 21:30	4335	0	2,605,600	2	0	24	Atlas	(blank)	598,288	1
	2/24/2020 20:00	2/24/2020 20:15	15	0	36,812	0	0	24	Atlas	(blank)	25,400	1
	2/26/2020 17:00	2/26/2020 17:15	15	0	20,882	0	0	3	Atlas	(blank)	2,297	1
	3/2/2020 7:15	3/2/2020 20:30	795	0	49,800	1	0	6	Atlas	(blank)	22,410	1



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	3/10/2020 8:30	3/10/2020 8:45	15	0	112,964	0	0	1	Atlas	(blank)	47,445	1
	3/12/2020 16:00	3/12/2020 23:45	465	0	520,707	0	0	12	Atlas	(blank)	286,389	1
	3/14/2020 12:45	3/14/2020 18:15	330	0	240,672	1	0	12	Atlas	(blank)	113,116	1
	3/18/2020 14:15	3/18/2020 18:45	270	0	326,415	1	0	6	Atlas	(blank)	150,151	1
	3/19/2020 12:15	3/19/2020 14:00	105	0	498,504	2	0	3	Atlas	(blank)	244,267	1
	3/20/2020 4:00	3/20/2020 4:30	30	0	60,098	1	0	3	Atlas	(blank)	29,448	1
	3/24/2020 18:45	3/24/2020 20:00	75	0	501,513	1	0	6	Atlas	(blank)	75,227	1
	3/28/2020 23:00	3/28/2020 23:15	15	0	13,374	0	0	1	Atlas	(blank)	3,611	1
CSO125 Total											2,444,603	18
CSO126	1/10/2020 20:30	1/10/2020 20:30	0	0	297	0	0	3	Atlas	(blank)	113	1
	1/11/2020 12:00	1/11/2020 12:15	15	0	5,142	0	0	6	Atlas	(blank)	4,268	1
	2/12/2020 18:00	2/12/2020 19:00	60	0	66,480	1	0	12	Atlas	(blank)	65,056	1
	3/12/2020 20:15	3/12/2020 23:30	195	0	2,878	0	0	12	Atlas	(blank)	1,583	1
	3/19/2020 12:15	3/19/2020 15:15	180	0	37,743	2	0	3	Atlas	(blank)	18,494	1
	3/20/2020 4:15	3/20/2020 4:15	0	0	2,304	1	0	3	Atlas	(blank)	1,129	1
	3/24/2020 19:30	3/24/2020 20:15	45	0	34,013	1	0	6	Atlas	(blank)	5,102	1
CSO126 Total											95,745	7
CSO127	1/3/2020 6:30	1/3/2020 9:00	150	0	52,717	2	0	48	Atlas	(blank)	45,864	1
	1/3/2020 18:15	1/3/2020 19:45	90	0	139,257	2	0	48	Atlas	(blank)	121,154	1
	1/10/2020 19:30	1/10/2020 21:00	90	1	81,059	0	1	24	Atlas	(blank)	117,536	1
	1/11/2020 11:00	1/11/2020 21:00	600	1	140,079	1	1	24	Atlas	(blank)	203,115	1
	1/18/2020 10:45	1/18/2020 11:45	60	0	91,324	1	0	12	Atlas	(blank)	31,050	1
	1/24/2020 6:15	1/24/2020 14:15	480	0	58,484	1	0	24	Atlas	(blank)	39,184	1
	2/4/2020 18:30	2/4/2020 19:45	75	0	58,886	0	0	24	Atlas	(blank)	20,610	1
	2/5/2020 17:45	2/5/2020 18:15	30	0	94,094	0	0	3	Atlas	(blank)	15,055	1
	2/11/2020 3:30	2/11/2020 3:30	0	0	12,617	0	0	6	Atlas	(blank)	3,028	1
	2/12/2020 17:00	2/12/2020 21:15	255	1	545,619	2	0	3	Atlas	(blank)	567,444	1
	2/18/2020 8:45	2/18/2020 8:45	0	0	14,404	1	0	6	Atlas	(blank)	3,601	1
	2/24/2020 16:00	2/25/2020 3:15	675	0	78,536	0	0	24	Atlas	(blank)	58,117	1
	3/2/2020 7:00	3/2/2020 11:00	240	0	132,283	1	0	3	Atlas	(blank)	63,496	1
	3/3/2020 2:00	3/3/2020 3:00	60	0	41,871	0	0	3	Atlas	(blank)	7,118	1
	3/10/2020 8:15	3/10/2020 9:00	45	0	49,910	0	0	1	Atlas	(blank)	19,964	1
	3/12/2020 16:00	3/12/2020 23:45	465	0	24,897	0	0	12	Atlas	(blank)	14,440	1
	3/14/2020 13:15	3/14/2020 18:30	315	0	26,719	1	0	12	Atlas	(blank)	12,558	1
	3/18/2020 11:15	3/18/2020 19:00	465	0	14,553	2	0	12	Atlas	(blank)	7,713	1

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	3/19/2020 12:00	3/19/2020 19:30	450	0	198,352	2	0	1	Atlas	(blank)	103,143	1
	3/20/2020 4:00	3/20/2020 4:45	45	0	4,350	2	0	1	Atlas	(blank)	2,262	1
	3/24/2020 18:30	3/24/2020 22:00	210	0	43,779	1	0	6	Atlas	(blank)	6,129	1
	3/28/2020 22:30	3/28/2020 23:15	45	0	1,674,563	0	0	1	Atlas	(blank)	452,132	1
CSO127 Total											1,914,713	22
CSO131	2/12/2020 18:30	2/12/2020 18:30	0	0	916	1	0	12	Atlas	(blank)	678	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	88,576	0	0	1	Atlas	(blank)	36,316	1
	3/12/2020 16:00	3/12/2020 20:00	240	0	78,104	0	0	6	Atlas	(blank)	37,490	1
	3/19/2020 12:30	3/19/2020 12:45	15	0	84,886	2	0	24	Atlas	(blank)	41,594	1
	3/28/2020 22:45	3/28/2020 22:45	0	0	221,500	0	0	1	Atlas	(blank)	46,515	1
CSO131 Total											162,593	5
CSO132	1/11/2020 10:45	1/12/2020 0:00	795	0	34,958	1	0	6	Atlas	(blank)	25,869	1
	3/10/2020 7:45	3/16/2020 23:00	9555	0	3,310,220	1	0	1	Atlas	(blank)	1,522,701	1
	3/19/2020 12:00	3/19/2020 23:00	660	0	605,287	2	0	24	Atlas	(blank)	320,802	1
	3/28/2020 22:15	3/28/2020 23:00	45	0	78,536	0	0	1	Atlas	(blank)	17,278	1
CSO132 Total											1,886,650	4
CSO140	2/12/2020 17:45	2/12/2020 19:15	90	0	306,654	1	0	3	Atlas	(blank)	251,456	1
	3/19/2020 12:30	3/19/2020 12:30	0	0	180,435	2	0	1	Atlas	(blank)	77,587	1
CSO140 Total											329,043	2
CSO141	3/28/2020 22:30	3/28/2020 22:30	0	0	43,961	0	0	1	Atlas	(blank)	7,913	1
CSO141 Total											7,913	1
CSO142	2/12/2020 18:15	2/12/2020 18:15	0	0	310	1	0	3	Atlas	Retained by Sneads Branch	239	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	33,342	0	0	12	Atlas	Retained by Sneads Branch	11,003	1
	3/12/2020 19:45	3/12/2020 19:45	0	0	1,155	0	0	12	Atlas	Retained by Sneads Branch	566	1
	3/19/2020 12:15	3/19/2020 12:30	15	0	67,747	2	0	3	Atlas	Retained by Sneads Branch	20,324	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	170,000	0	0	1	Atlas	(blank)	45,900	1
CSO142 Total											78,032	5
CSO144	3/28/2020 22:30	3/28/2020 22:30	0	0	416,222	0	0	1	Atlas	(blank)	95,731	1



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CSO144 Total											95,731	1
CSO146	3/28/2020 22:45	3/28/2020 22:45	0	0	97,448	0	0	1	Atlas	(blank)	26,311	1
CSO146 Total											26,311	1
CSO148	1/10/2020 19:30	1/10/2020 20:30	60	1	8,742	0	1	24	Atlas	(blank)	12,764	1
	1/11/2020 11:00	1/11/2020 16:30	330	1	25,671	1	1	24	Atlas	(blank)	37,479	1
	1/24/2020 13:45	1/24/2020 13:45	0	0	730	0	0	24	Atlas	(blank)	438	1
	2/12/2020 17:15	2/12/2020 18:45	90	0	85,856	1	0	3	Atlas	(blank)	83,280	1
	2/24/2020 19:45	2/24/2020 19:45	0	0	141	0	0	24	Atlas	(blank)	96	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	35,349	0	0	1	Atlas	(blank)	14,493	1
	3/12/2020 15:45	3/12/2020 22:45	420	0	72,657	0	0	12	Atlas	(blank)	35,602	1
	3/14/2020 12:45	3/14/2020 12:45	0	0	849	1	0	12	Atlas	(blank)	399	1
	3/18/2020 14:00	3/18/2020 18:00	240	0	21,872	1	0	6	Atlas	(blank)	8,530	1
	3/19/2020 12:00	3/19/2020 12:30	30	0	67,429	2	0	1	Atlas	(blank)	44,503	1
	3/24/2020 18:30	3/24/2020 18:30	0	0	86,262	1	0	6	Atlas	(blank)	11,474	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	211,565	0	0	1	Atlas	(blank)	71,939	1
CSO148 Total											320,997	12
CSO150	1/11/2020 12:15	1/11/2020 17:00	285	0	73,894	1	0	6	Atlas	(blank)	57,637	1
	2/12/2020 17:45	2/12/2020 22:00	255	0	130,284	1	0	3	Atlas	(blank)	100,319	1
	3/10/2020 7:45	3/10/2020 7:45	0	0	2,750	0	0	12	Atlas	(blank)	1,265	1
	3/12/2020 19:30	3/12/2020 23:00	210	0	27,142	1	0	6	Atlas	(blank)	18,185	1
	3/19/2020 12:15	3/19/2020 13:15	60	0	45,285	2	0	3	Atlas	(blank)	23,548	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	38,153	0	0	1	Atlas	(blank)	7,249	1
CSO150 Total											208,203	6
CSO151	1/3/2020 18:30	1/3/2020 18:45	15	0	17,555	2	0	48	Atlas	(blank)	12,991	1
	1/10/2020 19:45	1/10/2020 21:00	75	0	316,562	0	0	3	Atlas	(blank)	123,459	1
	1/11/2020 11:15	1/11/2020 17:00	345	0	326,004	1	0	6	Atlas	(blank)	299,924	1
	1/18/2020 11:15	1/18/2020 11:30	15	0	157,297	0	0	12	Atlas	(blank)	55,054	1
	1/24/2020 7:00	1/24/2020 7:15	15	0	25,113	0	0	24	Atlas	(blank)	15,570	1
	2/12/2020 17:30	2/12/2020 19:30	120	0	318,885	1	0	3	Atlas	(blank)	290,185	1
	2/24/2020 20:00	2/24/2020 20:00	0	0	10,239	0	0	24	Atlas	(blank)	6,758	1
	3/10/2020 8:30	3/10/2020 8:45	15	0	390,277	0	0	1	Atlas	(blank)	152,208	1
	3/12/2020 17:30	3/12/2020 23:15	345	0	370,112	0	0	12	Atlas	(blank)	181,355	1
	3/14/2020 13:00	3/14/2020 13:15	15	0	95,093	1	0	12	Atlas	(blank)	42,792	1

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	3/18/2020 14:30	3/18/2020 16:45	135	0	202,955	1	0	6	Atlas	(blank)	81,182	1
	3/19/2020 12:15	3/19/2020 13:00	45	0	472,531	2	0	1	Atlas	(blank)	226,815	1
	3/20/2020 4:00	3/20/2020 4:15	15	0	66,479	1	0	1	Atlas	(blank)	31,910	1
	3/24/2020 19:00	3/24/2020 19:00	0	0	160,050	1	0	6	Atlas	(blank)	22,407	1
	3/28/2020 22:45	3/28/2020 23:15	30	0	851,628	0	0	1	Atlas	(blank)	212,907	1
CSO151 Total											1,755,517	15
CSO153	1/3/2020 6:00	1/3/2020 8:30	150	0	39,217	2	0	48	Atlas	(blank)	28,236	1
	1/3/2020 17:45	1/3/2020 18:15	30	0	42,868	2	0	48	Atlas	(blank)	30,865	1
	1/10/2020 19:15	1/10/2020 20:30	75	0	203,770	0	0	3	Atlas	(blank)	67,244	1
	1/11/2020 10:45	1/11/2020 16:30	345	0	372,576	1	0	6	Atlas	(blank)	249,626	1
	1/18/2020 10:30	1/18/2020 11:15	45	0	110,262	0	0	12	Atlas	(blank)	40,797	1
	1/24/2020 5:45	1/24/2020 13:45	480	0	91,182	0	0	24	Atlas	(blank)	46,503	1
	2/5/2020 17:45	2/5/2020 17:45	0	0	66,520	0	0	6	Atlas	(blank)	6,652	1
	2/12/2020 16:45	2/12/2020 20:00	195	0	622,149	1	0	12	Atlas	(blank)	460,390	1
	2/24/2020 19:30	2/25/2020 2:45	435	0	34,206	0	0	24	Atlas	(blank)	22,576	1
	3/2/2020 6:30	3/2/2020 10:30	240	0	114,251	1	0	6	Atlas	(blank)	53,698	1
	3/3/2020 1:45	3/3/2020 2:15	30	0	53,141	0	0	3	Atlas	(blank)	9,034	1
	3/10/2020 8:00	3/10/2020 8:30	30	0	398,771	0	0	1	Atlas	(blank)	191,410	1
	3/12/2020 15:45	3/12/2020 23:15	450	0	815,176	1	0	6	Atlas	(blank)	480,954	1
	3/14/2020 12:15	3/14/2020 18:15	360	0	303,312	2	0	12	Atlas	(blank)	151,656	1
	3/18/2020 13:45	3/18/2020 18:45	300	0	317,805	2	0	12	Atlas	(blank)	133,478	1
	3/19/2020 11:45	3/19/2020 19:00	435	0	471,731	2	0	1	Atlas	(blank)	198,127	1
	3/20/2020 3:30	3/20/2020 4:45	75	0	100,238	1	0	1	Atlas	(blank)	42,100	1
	3/24/2020 17:45	3/24/2020 22:00	255	0	1,339,875	1	0	6	Atlas	(blank)	214,380	1
	3/28/2020 22:30	3/29/2020 1:00	150	0	935,144	0	0	1	Atlas	(blank)	168,326	1
CSO153 Total											2,596,052	19
CSO154	2/13/2020 7:00	2/13/2020 21:15	855	0	2,200,952	1	0	12	Atlas	(blank)	1,892,819	1
	2/18/2020 18:45	2/19/2020 4:45	600	0	6,854,827	1	0	6	Atlas	(blank)	1,508,062	1
CSO154 Total											3,400,881	2
CSO161	1/10/2020 20:15	1/10/2020 20:15	0	0	119	0	0	12	Atlas	(blank)	43	1
	1/18/2020 9:00	1/18/2020 10:15	75	0	44,656	0	0	12	Atlas	(blank)	16,076	1
	2/12/2020 17:30	2/12/2020 17:30	0	0	278	0	0	3	Atlas	(blank)	203	1
	3/12/2020 19:30	3/12/2020 19:30	0	0	747	1	0	6	Atlas	(blank)	426	1
	3/19/2020 12:15	3/19/2020 12:15	0	0	3,764	2	0	3	Atlas	(blank)	1,769	1



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	3/28/2020 22:15	3/28/2020 22:15	0	0	53,241	0	0	1	Atlas	(blank)	11,713	1
CSO161 Total											30,230	6
CSO166	1/3/2020 7:15	1/3/2020 8:00	45	0	11,526	2	0	48	Atlas	(blank)	10,028	1
	1/3/2020 18:30	1/3/2020 20:00	90	0	93,985	2	0	48	Atlas	(blank)	81,767	1
	1/10/2020 19:45	1/10/2020 21:15	90	1	259,079	0	1	24	Atlas	(blank)	375,664	1
	1/11/2020 11:15	1/11/2020 21:30	615	1	941,539	1	1	24	Atlas	(blank)	1,365,232	1
	1/18/2020 11:15	1/18/2020 11:45	30	0	61,579	1	0	12	Atlas	(blank)	20,937	1
	2/12/2020 17:30	2/13/2020 0:00	390	1	1,782,870	2	0	3	Atlas	(blank)	1,854,185	1
	2/24/2020 20:00	2/24/2020 20:30	30	0	61,122	0	0	24	Atlas	(blank)	45,230	1
	3/2/2020 7:45	3/2/2020 8:15	30	0	68,744	1	0	3	Atlas	(blank)	32,997	1
	3/10/2020 8:00	3/10/2020 9:15	75	0	635,280	0	0	1	Atlas	(blank)	254,112	1
	3/12/2020 17:15	3/13/2020 0:15	420	0	1,995,405	0	0	12	Atlas	(blank)	1,157,335	1
	3/14/2020 12:45	3/14/2020 18:45	360	0	609,915	1	0	12	Atlas	(blank)	286,660	1
	3/18/2020 14:15	3/18/2020 19:30	315	0	716,230	2	0	12	Atlas	(blank)	379,602	1
	3/19/2020 12:00	3/19/2020 16:15	255	0	2,201,160	2	0	1	Atlas	(blank)	1,144,603	1
	3/20/2020 3:45	3/20/2020 5:15	90	0	476,285	2	0	1	Atlas	(blank)	247,668	1
	3/24/2020 18:45	3/24/2020 20:15	90	0	973,307	1	0	6	Atlas	(blank)	136,263	1
	3/28/2020 22:15	3/28/2020 23:45	90	0	1,456,470	0	0	1	Atlas	(blank)	393,247	1
CSO166 Total											7,785,530	16
CSO167	1/11/2020 10:45	1/12/2020 0:00	795	0	569	1	0	6	Atlas	(blank)	421	1
	3/10/2020 7:45	3/16/2020 23:00	9555	0	53,826	1	0	1	Atlas	(blank)	24,760	1
	3/19/2020 12:00	3/19/2020 23:00	660	0	9,843	2	0	24	Atlas	(blank)	5,217	1
	3/28/2020 22:15	3/28/2020 23:00	45	0	1,277	0	0	1	Atlas	(blank)	281	1
CSO167 Total											30,679	4
CSO174	1/10/2020 20:15	1/10/2020 20:30	15	0	237,141	0	0	3	Atlas	Retained by Sneads Branch	80,628	1
	1/11/2020 11:00	1/11/2020 16:45	345	0	559,347	1	0	6	Atlas	Retained by Sneads Branch	402,730	1
	2/12/2020 17:15	2/12/2020 19:00	105	0	1,314,490	1	0	3	Atlas	Retained by Sneads Branch	1,012,157	1
	3/10/2020 8:15	3/10/2020 8:30	15	0	440,391	0	0	12	Atlas	Retained by Sneads Branch	145,329	1
	3/12/2020 17:30	3/12/2020 23:00	330	0	482,951	0	0	12	Atlas	Retained by Sneads Branch	236,646	1

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	3/14/2020 13:00	3/14/2020 13:00	0	0	15,184	1	0	12	Atlas	Retained by Sneads Branch	6,833	1
	3/18/2020 16:00	3/18/2020 16:15	15	0	61,595	1	0	6	Atlas	Retained by Sneads Branch	25,870	1
	3/19/2020 12:00	3/19/2020 12:45	45	0	1,640,673	2	0	3	Atlas	Retained by Sneads Branch	492,202	1
	3/20/2020 4:00	3/20/2020 4:00	0	0	1,613	1	0	1	Atlas	Retained by Sneads Branch	129	1
	3/24/2020 18:45	3/24/2020 18:45	0	0	35,869	0	0	6	Atlas	Retained by Sneads Branch	5,739	1
	3/28/2020 22:30	3/28/2020 23:00	30	0	1,942,470	0	0	1	Atlas	(blank)	524,467	1
CSO174 Total											2,932,730	11
CSO180	1/11/2020 11:00	1/11/2020 11:15	15	0	32,342	0	0	6	Atlas	Retained by Sneads Branch	23,286	1
	2/12/2020 17:15	2/12/2020 18:30	75	0	64,226	1	0	3	Atlas	Retained by Sneads Branch	49,454	1
	3/10/2020 8:00	3/10/2020 8:15	15	0	57,467	0	0	12	Atlas	Retained by Sneads Branch	18,964	1
	3/12/2020 15:45	3/12/2020 22:45	420	0	70,010	0	0	12	Atlas	Retained by Sneads Branch	34,305	1
	3/14/2020 12:45	3/14/2020 12:45	0	0	1,742	1	0	12	Atlas	Retained by Sneads Branch	784	1
	3/18/2020 16:00	3/18/2020 16:00	0	0	919	1	0	6	Atlas	Retained by Sneads Branch	386	1
	3/19/2020 12:00	3/19/2020 12:30	30	0	153,537	2	0	3	Atlas	Retained by Sneads Branch	46,061	1
	3/24/2020 18:30	3/24/2020 18:30	0	0	12,519	0	0	6	Atlas	Retained by Sneads Branch	2,003	1
	3/28/2020 22:30	3/28/2020 22:45	15	0	374,848	0	0	1	Atlas	(blank)	101,209	1
CSO180 Total											276,452	9
CSO183	3/10/2020 8:15	3/10/2020 8:15	0	0	550	0	0	12	Atlas	Retained by Sneads Branch	187	1
	3/19/2020 12:30	3/19/2020 12:30	0	0	35	2	0	3	Atlas	Retained by Sneads Branch	17	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	57,158	0	0	1	Atlas	(blank)	20,577	1
CSO183 Total											20,781	3

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF KEY
CSO184	3/10/2020 8:15	3/10/2020 8:15	0	0	10,744	0	0	12	Atlas	Retained by Sneads Branch	3,663	1
	3/19/2020 12:15	3/19/2020 12:30	15	0	60,823	2	0	3	Atlas	Retained by Sneads Branch	29,195	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	209,750	0	0	1	Atlas	(blank)	75,510	1
CSO184 Total											108,358	3
CSO185	1/10/2020 20:30	1/10/2020 20:30	0	1	1,974	0	0	24	Atlas	Retained by Sneads Branch	2,132	1
	1/11/2020 11:15	1/11/2020 11:30	15	1	17,202	0	0	24	Atlas	Retained by Sneads Branch	18,578	1
	2/12/2020 17:30	2/12/2020 18:45	75	0	44,199	1	0	12	Atlas	Retained by Sneads Branch	37,127	1
	3/10/2020 8:30	3/10/2020 8:30	0	0	8,971	0	0	12	Atlas	Retained by Sneads Branch	3,050	1
	3/12/2020 20:00	3/12/2020 20:00	0	0	36,882	0	0	6	Atlas	Retained by Sneads Branch	16,140	1
	3/18/2020 16:15	3/18/2020 16:15	0	0	1,122	1	0	6	Atlas	Retained by Sneads Branch	505	1
	3/19/2020 12:00	3/19/2020 12:45	45	0	127,352	2	0	3	Atlas	Retained by Sneads Branch	61,129	1
	3/20/2020 3:45	3/20/2020 3:45	0	0	3,854	1	0	3	Atlas	Retained by Sneads Branch	1,850	1
	3/28/2020 22:30	3/28/2020 22:45	15	0	674,503	0	0	1	Atlas	(blank)	242,821	1
CSO185 Total											383,332	9
CSO186	3/28/2020 22:30	3/28/2020 22:30	0	0	141,233	0	0	1	Atlas	(blank)	38,133	1
CSO186 Total											38,133	1
CSO188	3/28/2020 22:30	3/28/2020 22:30	0	0	2,885	0	0	1	Atlas	(blank)	779	1
CSO188 Total											779	1
CSO190	1/11/2020 10:45	1/11/2020 11:00	15	0	42,599	0	0	6	Atlas	(blank)	37,913	1
	2/12/2020 17:15	2/12/2020 18:30	75	0	22,097	1	0	3	Atlas	(blank)	19,666	1
	3/10/2020 7:45	3/10/2020 8:00	15	0	152,344	0	0	12	Atlas	(blank)	68,555	1
	3/12/2020 19:30	3/12/2020 19:45	15	0	85,921	1	0	6	Atlas	(blank)	53,271	1
	3/19/2020 12:00	3/19/2020 12:30	30	0	234,461	2	0	3	Atlas	(blank)	138,332	1
	3/28/2020 22:15	3/28/2020 22:30	15	0	182,725	0	0	1	Atlas	(blank)	43,854	1
CSO190 Total											361,591	6



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CSO191	2/12/2020 18:30	2/12/2020 23:00	270	1	1,802,486	2	1	3	Atlas	(blank)	2,000,760	1
	2/23/2020 18:15	2/23/2020 20:45	150	Discharge	0	0				(blank)	16	
	2/25/2020 9:15	2/25/2020 10:15	60	0	45	1	0	24	Atlas	(blank)	43	1
	2/29/2020 13:00	2/29/2020 18:15	315	Discharge	0	1				(blank)	178	
	3/2/2020 13:15	3/2/2020 14:30	75	0	19	1	0	3	Atlas	(blank)	11	1
	3/3/2020 3:30	3/3/2020 4:45	75	0	19	0	0	3	Atlas	(blank)	5	1
	3/10/2020 1:30	3/10/2020 17:45	975	0	1,543	0	0	12	Atlas	(blank)	679	1
	3/11/2020 12:30	3/13/2020 19:30	3300	0	241,643	1	0	12	Atlas	(blank)	186,065	1
	3/18/2020 15:30	3/19/2020 0:30	540	0	1,351	2	0	6	Atlas	(blank)	851	1
	3/19/2020 12:15	3/19/2020 21:15	540	0	408,185	3	0	3	Atlas	(blank)	289,811	1
	3/28/2020 22:45	3/29/2020 1:00	135	0	903	0	0	1	Atlas	(blank)	298	1
CSO191 Total											2,478,717	9
CSO193	3/10/2020 8:00	3/10/2020 8:00	0	0	2,790	0	0	12	Atlas	(blank)	1,339	1
	3/12/2020 19:45	3/12/2020 19:45	0	0	100	0	0	12	Atlas	(blank)	63	1
	3/19/2020 12:15	3/19/2020 12:15	0	0	537	2	0	3	Atlas	(blank)	231	1
	3/28/2020 22:15	3/28/2020 22:15	0	0	2,389	0	0	1	Atlas	(blank)	454	1
CSO193 Total											2,087	4
CSO195	3/28/2020 22:30	3/28/2020 22:30	0	0	5,088	0	0	1	Atlas	(blank)	1,221	1
CSO195 Total											1,221	1
CSO196	3/10/2020 8:15	3/10/2020 8:15	0	0	7,490	0	0	12	Atlas	(blank)	2,996	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	259,021	0	0	1	Atlas	(blank)	62,165	1
CSO196 Total											65,161	2
CSO199	3/10/2020 8:00	3/10/2020 8:00	0	0	4,985	0	0	12	Atlas	(blank)	1,994	1
	3/13/2020 1:30	3/13/2020 2:30	60	0	155	0	0	6	Atlas	(blank)	76	1
	3/19/2020 12:15	3/19/2020 12:15	0	0	4,800	2	0	3	Atlas	(blank)	1,872	1
	3/28/2020 22:15	3/28/2020 22:30	15	0	151,375	0	0	1	Atlas	(blank)	36,330	1
CSO199 Total											40,272	4
CSO200	3/28/2020 22:15	3/28/2020 22:15	0	0	13,183	0	0	1	Atlas	(blank)	3,164	1
CSO200 Total											3,164	1
CSO201	3/10/2020 8:15	3/10/2020 8:15	0	0	1,454	0	0	12	Atlas	(blank)	698	1
	3/19/2020 12:30	3/19/2020 12:30	0	0	2,647	2	0	3	Atlas	(blank)	1,138	1
	3/28/2020 22:30	3/28/2020 22:30	0	0	144,747	0	0	1	Atlas	(blank)	27,502	1



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CSO201 Total											29,338	3
CSO202	1/11/2020 11:00	1/11/2020 11:00	0	0	322	0	0	6	Atlas	(blank)	216	1
	2/12/2020 18:00	2/12/2020 18:15	15	0	684	1	0	3	Atlas	(blank)	465	1
	3/10/2020 8:15	3/10/2020 8:15	0	0	4,870	0	0	12	Atlas	(blank)	1,948	1
	3/12/2020 19:45	3/12/2020 22:45	180	0	8,259	0	0	6	Atlas	(blank)	4,047	1
	3/19/2020 12:15	3/19/2020 12:30	15	0	4,700	2	0	3	Atlas	(blank)	1,833	1
	3/24/2020 15:30	3/24/2020 16:00	30	0	82	0	0	6	Atlas	(blank)	14	1
CSO202 Total											8,523	6
CSO203	3/10/2020 8:15	3/10/2020 8:15	0	0	85	0	0	12	Atlas	(blank)	34	1
CSO203 Total											34	1
CSO205	1/10/2020 19:30	1/10/2020 20:30	60	1	251	0	0	24	Atlas	Retained by Sneads Branch	271	1
	1/11/2020 11:00	1/11/2020 16:30	330	1	1,455	1	0	24	Atlas	Retained by Sneads Branch	1,571	1
	1/18/2020 11:00	1/18/2020 11:00	0	0	138	0	0	12	Atlas	Retained by Sneads Branch	47	1
	2/5/2020 17:45	2/5/2020 17:45	0	0	258	0	0	3	Atlas	Retained by Sneads Branch	31	1
	2/12/2020 17:00	2/12/2020 19:00	120	0	1,338	1	0	3	Atlas	Retained by Sneads Branch	1,084	1
	2/18/2020 14:45	2/18/2020 17:45	180	0	22	1	0	6	Atlas	Retained by Sneads Branch	5	1
	3/10/2020 8:15	3/10/2020 8:30	15	0	756	0	0	12	Atlas	Retained by Sneads Branch	242	1
	3/12/2020 15:45	3/12/2020 22:45	420	0	1,149	0	0	12	Atlas	Retained by Sneads Branch	563	1
	3/14/2020 12:45	3/14/2020 13:00	15	0	223	1	0	12	Atlas	Retained by Sneads Branch	105	1
	3/18/2020 14:00	3/18/2020 18:00	240	0	41	1	0	6	Atlas	Retained by Sneads Branch	18	1
	3/19/2020 12:00	3/19/2020 12:45	45	0	62	2	0	3	Atlas	Retained by Sneads Branch	33	1
	3/28/2020 22:45	3/28/2020 22:45	0	0	1,621	0	0	1	Atlas	(blank)	454	1
CSO205 Total											4,424	12
CSO211	2/12/2020 17:30	2/12/2020 22:00	270	1	11,870,051	2	1	3	Atlas	(blank)	13,531,858	1
	3/10/2020 8:45	3/10/2020 10:00	75	0	877,320	0	0	12	Atlas	(blank)	429,887	1

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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	ANTECEDENT RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF KEY
	3/12/2020 17:45	3/13/2020 0:30	405	0	11,662,212	1	0	12	Atlas	(blank)	8,979,903	1
	3/18/2020 16:45	3/18/2020 19:00	135	0	217,400	2	0	6	Atlas	(blank)	150,006	1
	3/19/2020 12:15	3/19/2020 15:15	180	0	12,569,362	3	0	3	Atlas	(blank)	8,924,247	1
	3/28/2020 22:45	3/29/2020 1:30	165	0	38,408,739	0	0	1	Atlas	(blank)	11,906,709	1
CSO211 Total											43,922,610	6
Grand Total											289,491,928	490



**APPENDIX C**

**ACRONYMS**



<b>ACRONYM</b>	<b>DEFINITION</b>
AAOV	Average Annual Overflow Volume
ACD	Amended Consent Decree
BGI	Beargrass Interceptor
BGIR	Beargrass Interceptor Relief
BOD	Biological Oxygen Demand
CCP	Composite Correction Plan
CCWQTC	Cedar Creek Water Quality Treatment Center
CMF	Central Maintenance Facility
CMOM	Capacity Management Operations and Maintenance
CPE	Comprehensive Performance Evaluations
CSO	Combined Sewer Overflow
CSOFT	Software Name
CSS	Combined Sewer System
DAP	Discharge Abatement Plan
DRGWQTC	Derek R. Guthrie Water Quality Treatment Center
DWO	Dry Weather Overflow
EPA	Environmental Protection Agency
FEPS	Final Effluent Pump Station
FOG	Fat Oil and Grease
FY	Fiscal Year
GLPM	Gravity Line Preventive Maintenance
HCWQTC	Hite Creek Water Quality Treatment Center
HMI	Human Machine Interface
I/I	Inflow and Infiltration
I/O	Input/ Output
ICM	Integrated Catchment Model
ID	Identification
IFIX	Software name
IOAP	Integrated Overflow Abatement Plan
ISSDP	Interim Sanitary Sewer Discharge Plan
KDEP	Kentucky Department of Environmental Protection
KPDES	Kentucky Pollutant Discharge Elimination System
LG&E	Louisville Gas & Electric Company
LTCP	Long Term Control Plan
LWC	Louisville Water Company
MCC	Motor Control Center
MF/MFWQTC	Morris Forman Water Quality Treatment Center
MFI	Middle Fork Interceptor
MG	Million Gallons
MGD	Million Gallons per Day

<b>ACRONYM</b>	<b>DEFINITION</b>
MSD	Metropolitan Sewer District (Louisville and Jefferson County)
NGPS	Nightingale Pump Station
NMC	Nine Minimum Controls
ORFM	Ohio River Force Main
ORI	Ohio River Interceptor
PLC	Programmable Logic Controller
PM	Preventive Maintenance
PS	Pump Station
RAS	Return Activated Sludge
RTC	Real Time Control
SCADA	Supervisory Control And Data Acquisition
SCAP	System Capacity Assurance Plan
SCS	Soil Conservation Service
SED2	South East Diversion 2
SOP	Standard Operating Procedure
SOR1	Southern Outfall Retention Facility 1
SORP	Sewer Overflow Response Protocol
SPS	Starkey Pump Station
SSDP	Sanitary Sewer Discharge Plan
SSES	Sewer System Evaluation Survey
SSO	Sanitary Sewer Overflow
SSOP	Sanitary Sewer Overflow Plan
SWOR1	Southwestern Outfall Retention – Phase 1
SWOR2	Southwestern Outfall Retention – Phase 2
SWPS	Southwestern Pump Station
SWSG	Southwest Sluice Gate
TRFD	Total Rainfall Depth
TSS	Total Suspended Solids
TV	Television
UM	Unplanned Maintenance
UMFPS	Upper Middle Fork Pump Station
US	United States
VFD	Variable Frequency Drive
WIN	Waterway Improvements Now
WQTC	Water Quality Treatment Center
WUS	Waters of the United States
WWTF	Wastewater Treatment Facility



**APPENDIX D**

**SCAP BALANCE**



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Cedar Creek	11/1/2008	235533	MAINTENANCE WORK FY06 AUG-FY09 NOV - CEDAR CREEK	SCAPCREDIT		6,521
	12/31/2008	362688	MAINTENANCE WORK FY09A - CEDAR CREEK	SCAPCREDIT		5
	6/5/2009	236380	FAIRMOUNT ROAD MH REHAB	SCAPCREDIT		10,734
	6/30/2009	362689	MAINTENANCE WORK FY09B - CEDAR CREEK	SCAPCREDIT		201
	12/31/2009	SC1011254	MAINTENANCE WORK FY10A - CEDAR CREEK	SCAPCREDIT		347
	6/30/2010	SC1011255	MAINTENANCE WORK FY10B - CEDAR CREEK	SCAPCREDIT		194
	12/31/2010	SC1011259	MAINTENANCE WORK FY11A - CEDAR CREEK	SCAPCREDIT		1,720
	6/30/2011	SC1011262	MAINTENANCE WORK FY11B - CEDAR CREEK	SCAPCREDIT		934
	12/31/2011	SC1011264	MAINTENANCE WORK FY12A - CEDAR CREEK	SCAPCREDIT		269
	6/30/2012	SC1011267	MAINTENANCE WORK FY12B - CEDAR CREEK	SCAPCREDIT		814
	9/10/2012	SC1005519	CONTRACTED WORK FY12 - CEDAR CREEK	SCAPCREDIT		21,321
	9/27/2012	320989	LITTLE CEDAR CREEK I/I REHABIL	SCAPCREDIT		652,907
	11/30/2012	263934	ST JAMES CROSSINGS	LAT_EXT	9000	-19,575
	12/5/2012	196927	SONIC SPRINGS	LAT_EXT	3600	-7,830
	1/29/2013	350057	FMC EAST LOUISVILLE #1673-3	LAT_EXT	3400	-7,395
	6/30/2013	SC1074160	MAINTENANCE WORK FY13 JAN-JUN - CEDAR CREEK	SCAPCREDIT		4,443
	8/19/2013	SC1005524	CONTRACTED WORK FY13 - CEDAR CREEK	SCAPCREDIT		425
	12/31/2013	14SC1000	MAINTENANCE WORK FY13A - CEDAR CREEK	SCAPCREDIT		2,220
		SC1082184	MAINTENANCE WORK FY14 JUL-DEC - CEDAR CREEK	SCAPCREDIT		1,482
	6/30/2014	SC1082223	MAINTENANCE WORK FY14 JAN-JUN- CEDAR CREEK	SCAPCREDIT		4,729
	12/30/2014	SC1082493	MAINTENANCE WORK FY15 JUL-DEC-CEDAR CREEK	SCAPCREDIT		4,583
	1/26/2015	239030	POPLAR LAKES PH 1	LAT_EXT	18000	-39,150
	5/26/2015	13LE1003	Bardstown Woods Sec 6	LAT_EXT	5200	-11,310
	6/30/2015	SC1082496	MAINTENANCE WORK FY15 JAN-JUN-CEDAR CREEK	SCAPCREDIT		21
	9/14/2015	LE916330	Altawood Development	LAT_EXT	1600	-3,480
	9/25/2015	SC1003694	CONTRACTED WORK FY16 - CEDAR CREEK	SCAPCREDIT		328
		SC1006188	CONTRACTED WORK FY15 - CEDAR CREEK	SCAPCREDIT		1
	12/30/2015	SC1082497	MAINTENANCE WORK FY16 JUL-DEC-CEDAR CREEK	SCAPCREDIT		16
	5/25/2016	LE915727	BARDSTOWN WOODS SEC 7	LAT_EXT	4400	-9,570
	6/30/2016	SC1082498	MAINTENANCE WORK FY16 JAN-JUN-CEDAR CREEK	SCAPCREDIT		169
	10/26/2016	SC1006171	CONTRACTED WORK FY14 - CEDAR CREEK	SCAPCREDIT		45,900
	12/30/2016	SC1082499	MAINTENANCE WORK FY17 JUL-DEC-CEDAR CREEK	SCAPCREDIT		2,396
	6/30/2017	SC1082500	MAINTENANCE WORK FY17 JAN-JUN-CEDAR CREEK	SCAPCREDIT		3,464
	7/13/2017	SC1097042	Cedar Creek I&I Rehab FY17	SCAPCREDIT		309
	8/14/2017	LE983107	Poplar Lakes Phase 3	LAT_EXT	12000	-26,100
	10/24/2017	LE971176	Cedar Ridge	LAT_EXT	18800	-40,890
	12/30/2017	SC1082501	MAINTENANCE WORK FY18 JUL-DEC-CEDAR CREEK	SCAPCREDIT		3,067
	7/23/2019	LE1048252	Landherr Estates Phase II	LAT_EXT	17600	-38,280
	9/12/2019	LE1015579	Glenmary Commons	LAT_EXT	8800	-19,140



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		LE1049657	Little Spring Farm, Section 4B	LAT_EXT	14000	-30,450
	10/2/2019	LE978334	Houchens Industries	LAT_EXT	780	-1,697
	1/30/2020	LE1049477	Hearthstone Meadows	LAT_EXT	14400	-31,320
	2/27/2020	LE1085520	Jefferson Trace Blvd. Sewer Extension	LAT_EXT	400	-870
Cedar Creek Total						482,463
Floyds Fork	11/1/2008	235557	MAINTENANCE WORK FY06 AUG-FY09 NOV - FLOYDS FORK	SCAPCREDIT		14,540
	12/31/2008	362638	MAINTENANCE WORK FY09A - FLOYDS FORK	SCAPCREDIT		1
	6/30/2009	362647	MAINTENANCE WORK FY09B - FLOYDS FORK	SCAPCREDIT		4
	12/31/2009	362651	MAINTENANCE WORK FY10A - FLOYDS FORK	SCAPCREDIT		524
	1/5/2010	230379	SHAKES RUN SECTION 4	LAT_EXT	3770	-8,200
	6/30/2010	362655	MAINTENANCE WORK FY10B - FLOYDS FORK	SCAPCREDIT		82
	12/31/2010	362661	MAINTENANCE WORK FY11A - FLOYDS FORK	SCAPCREDIT		14,163
	6/30/2011	362669	MAINTENANCE WORK FY11B - FLOYDS FORK	SCAPCREDIT		22,707
	10/12/2011	309608	BLANKENBAKER TRAIL OFFICE LN-B	LAT_EXT	2880	-6,264
	10/17/2011	242480	CLAIBOURNE CROSSINGS PHASE 2	LAT_EXT	0	0
	12/31/2011	359320	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		362674	MAINTENANCE WORK FY12A - FLOYDS FORK	SCAPCREDIT		317
	3/13/2012	319027	PREMIER SURGERY CENTER	LAT_EXT	5740	-12,485
	6/30/2012	362678	MAINTENANCE WORK FY12B - FLOYDS FORK	SCAPCREDIT		338
	10/26/2012	315945	BROOKFIELD SEC 3	LAT_EXT	12800	-27,840
	12/18/2012	361689	LAKE FOREST REHAB PH1	SCAPCREDIT		174,769
	12/31/2012	362683	MAINTENANCE WORK FY13A - FLOYDS FORK	SCAPCREDIT		10
	5/8/2013	331397	BROOKFIELD SEC 2A	LAT_EXT	14400	-31,320
	6/30/2013	13SC1000	FY14 STARVIEW REHABILITATION	SCAPCREDIT		14,183
		SC1082514	MAINTENANCE WORK FY13 JAN-JUN-FLOYDS FORK	SCAPCREDIT		161
	12/30/2013	SC1082517	MAINTENANCE WORK FY14 JUL-DEC-FLOYDS FORK	SCAPCREDIT		991
	6/30/2014	SC1082518	MAINTENANCE WORK FY14 JAN-JUN-FLOYDS FORK	SCAPCREDIT		662
	12/30/2014	SC1082519	MAINTENANCE WORK FY15 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,318
	2/18/2015	13LE1062	SPEEDWAY #9451	LAT_EXT	540	-1,175
	6/30/2015	SC1003809	BERRYTOWN WQTC I/I REMEDIATION FY14	SCAPCREDIT		116,834
		SC1082520	MAINTENANCE WORK FY15 JAN-JUN-FLOYDS FORK	SCAPCREDIT		661
	11/6/2015	SC1003723	MIDDLETOWN SSR P2S2 I/I REMEDIATION	SCAPCREDIT		102
	12/30/2015	SC1082521	MAINTENANCE WORK FY16 JUL-DEC-FLOYDS FORK	SCAPCREDIT		659
	1/7/2016	LE941673	Locust Creek Section 8B	LAT_EXT	2000	-4,350
	6/30/2016	SC1082523	MAINTENANCE WORK FY16 JAN-JUN-FLOYDS FORK	SCAPCREDIT		3,578
	7/7/2016	SC1003331	CONTRACTED WORK FY16 - FLOYDS FORK	SCAPCREDIT		35
	9/20/2016	LE932677	Shakes Run Sec 9	LAT_EXT	12000	-26,100
	12/30/2016	SC1082524	MAINTENANCE WORK FY17 JUL-DEC-FLOYDS FORK	SCAPCREDIT		1,804
	1/4/2017	LE945783	Urton Woods, Section 2B	LAT_EXT	17200	-37,410
	1/6/2017	LE983784	Catalpa Farms Subdivision	LAT_EXT	16000	-34,800
	2/27/2017	LE971261	Notting Hills Section 4 and Clubhouse	LAT_EXT	10400	-22,620

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	6/30/2017	SC1082525	MAINTENANCE WORK FY17 JAN-JUN-FLOYDS FORK	SCAPCREDIT		1,320
	12/30/2017	SC1082526	MAINTENANCE WORK FY18 JUL-DEC-FLOYDS FORK	SCAPCREDIT		6,158
	1/7/2019	LE1039193	Glen Lakes Section 4 - Phase 3	LAT_EXT	16400	-35,670
	10/21/2019	LE1050932	Courtyard at Curry Farms Section 1	LAT_EXT	17000	-36,975
Floyds Fork Total						94,712
Hite Creek	5/15/2006	SC1006307	CONTRACTED WORK FY06 - HITE CREEK	SCAPCREDIT		656
	11/1/2008	235561	MAINTENANCE WORK FY06 AUG-FY09 NOV - HITE CREEK	SCAPCREDIT		6,404
	12/31/2008	362641	MAINTENANCE WORK FY09A - HITE CREEK	SCAPCREDIT		2
	6/1/2009	SC1006214	CONTRACTED WORK FY09 - HITE CREEK	SCAPCREDIT		328
	6/30/2009	362648	MAINTENANCE WORK FY09B - HITE CREEK	SCAPCREDIT		7
	12/31/2009	362652	MAINTENANCE WORK FY10A - HITE CREEK	SCAPCREDIT		10
	6/30/2010	362657	MAINTENANCE WORK FY10B - HITE CREEK	SCAPCREDIT		332
	12/17/2010	320906	FLOYDSBURG ROAD I/I REHABILITA	SCAPCREDIT		28,437
	12/31/2010	362662	MAINTENANCE WORK FY11A - HITE CREEK	SCAPCREDIT		9
	6/30/2011	362670	MAINTENANCE WORK FY11B - HITE CREEK	SCAPCREDIT		9
	9/7/2011	SC1011058	Meadow Stream Pump Station & Force Main Expansion	SCAPCREDIT		2,304,000
	9/28/2011	246638	CHAPMAN COURT S/S	LAT_EXT	800	-1,740
	12/31/2011	362675	MAINTENANCE WORK FY12A - HITE CREEK	SCAPCREDIT		340
	6/30/2012	362679	MAINTENANCE WORK FY12B - HITE CREEK	SCAPCREDIT		5,007
	8/31/2012	290181	CAMDEN WOOD APARTMENTS	LAT_EXT	12400	-26,970
	12/1/2012	304536	MAGNOLIA SPRINGS EAST PRIV P/S	LAT_EXT	9500	-20,663
	12/7/2012	335610	ROCK SPRINGS FARM SEC 4B	LAT_EXT	6400	-13,920
	12/31/2012	362684	MAINTENANCE WORK FY13A - HITE CREEK	SCAPCREDIT		7
	4/11/2013	SC1005530	CONTRACTED WORK FY13 - HITE CREEK	SCAPCREDIT		1,442
	6/30/2013	SC1082527	MAINTENANCE WORK FY13 JAN-JUN-HITE CREEK	SCAPCREDIT		967
	12/30/2013	SC1082528	MAINTENANCE WORK FY14 JUL-DEC-HITE CREEK	SCAPCREDIT		3,211
	6/30/2014	SC1082529	MAINTENANCE WORK FY14 JAN-JUNE-HITE CREEK	SCAPCREDIT		2,207
	12/30/2014	SC1082530	MAINTENANCE WORK FY15 JUL-DEC-HITE CREEK	SCAPCREDIT		360
	1/27/2015	SC1006178	CONTRACTED WORK FY14 - HITE CREEK	SCAPCREDIT		77,660
	3/13/2015	SC983697	MEADOWSTREAM REHABILITATION - FY13	SCAPCREDIT		448,447
	6/30/2015	SC1082531	MAINTENANCE WORK FY15 JAN-JUN-HITE CREEK	SCAPCREDIT		124
	12/30/2015	SC1082532	MAINTENANCE WORK FY16 JUL-DEC-HITE CREEK	SCAPCREDIT		1,191
	6/30/2016	SC1082533	MAINTENANCE WORK FY16 JAN-JUN-HITE CREEK	SCAPCREDIT		336
	9/13/2016	LE943178	Rock Springs Farm Section 5A	LAT_EXT	6800	-14,790
	10/26/2016	SC1006192	CONTRACTED WORK FY15 - HITE CREEK	SCAPCREDIT		1
	12/30/2016	SC1082534	MAINTENANCE WORK FY17 JUL-DEC-HITE CREEK	SCAPCREDIT		3,599
	3/17/2017	LE971406	Old Henry Business Park	LAT_EXT	930	-2,023
	6/30/2017	SC1082535	MAINTENANCE WORK FY17 JAN-JUN-HITE CREEK	SCAPCREDIT		4,109
	12/30/2017	SC1082536	MAINTENANCE WORK FY18 JUL-DEC-HITE CREEK	SCAPCREDIT		6,823
	2/21/2020	LE1054784	Norton Commons North Village Phase 8	LAT_EXT	9600	-20,880
	3/3/2020	LE1102996	Thomas Eastpoint Warehouse Expansion	LAT_EXT	400	-870
	2/20/2020	LE1104289	LYRIC AT NORTON COMMONS	LAT_EXT	71357	-155,201
Hite Creek Total						2,638,968



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J'Town	11/1/2008	235563	MAINTENANCE WORK FY06 AUG-FY09 NOV - JEFFERSONTOWN	SCAPCREDIT		6,203
	12/31/2008	359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
	8/10/2010	254871	LAKESIDE BAPT CHURCH PRIV PS	LAT_EXT	2500	-5,438
	8/11/2011	340213	JEFFERSONTOWN ENG REHAB	SCAPCREDIT		997,448
	12/31/2011	359324	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		4,000
	12/31/2012	14SC1002	MAINTENANCE WORK FY13A - JEFFERSONTOWN	SCAPCREDIT		3,490
	5/28/2013	337261	SINGLE FAMILY 2909 PELHAM CT	LAT_EXT	400	-870
	6/28/2013	13LE1010	SWOPE HR & TRAINING BLDG	LAT_EXT	400	-870
	10/25/2013	13LE1092	BALE EQUIPMENT	LAT_EXT	450	-979
	2/27/2014	13LE1098	UNIPAK	LAT_EXT	720	-1,566
	12/31/2014	13LE1067	PARK COMMUNITY	LAT_EXT	2220	-4,829
	2/1/2016	14LE1149	Grand Lakes Section 3	LAT_EXT	5600	-12,180
	3/10/2016	LE924049	Blankenbaker Road S/S	LAT_EXT	9010	-19,597
	5/4/2016	326360	WATTERSON TRAIL CENTER	LAT_EXT	2745	-5,970
	6/21/2016	LE930127	Vantage Point Sec 3B	LAT_EXT	7200	-15,660
	7/28/2016	13LE1158	GOODWILL INDUSTRIES OF KENTUCKY	LAT_EXT	400	-870
	11/8/2016	14LE1148	Grand Lakes Section 2	LAT_EXT	4400	-9,570
	3/23/2017	LE926081	Monticello Manors Sec 2	LAT_EXT	7600	-16,530
	3/31/2017	LE967619	Louis F. Zoeller, Jr Minor Plat	LAT_EXT	400	-870
J'Town Total						919,342
Mill Creek	12/31/2005	359380	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
	12/31/2007	359381	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
	11/1/2008	235568	MAINTENANCE WORK FY06 AUG-FY09 NOV - MILL CREEK	SCAPCREDIT		51,530
	12/31/2008	359382	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		362642	MAINTENANCE WORK FY09A - MILL CREEK	SCAPCREDIT		93
	6/30/2009	362649	MAINTENANCE WORK FY09B - MILL CREEK	SCAPCREDIT		1,507
	9/9/2009	236614	DEVEROES	LAT_EXT	960	-2,088
	12/31/2009	359383	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		32,000
		362653	MAINTENANCE WORK FY10A - MILL CREEK	SCAPCREDIT		25,272
	1/6/2010	253586	KINGSFORD RETAIL CENTER	LAT_EXT	480	-1,044
	4/28/2010	238421	6840 DIXIE HWY OUTLOT	LAT_EXT	2100	-4,568
	6/30/2010	362658	MAINTENANCE WORK FY10B - MILL CREEK	SCAPCREDIT		6,216
	7/2/2010	259408	FAMILY DOLLAR 5105 DIXIE	LAT_EXT	1200	-2,610
	7/23/2010	264294	SAINT PETER THE APOSTLE CATHOL	LAT_EXT	2000	-4,350
	10/12/2010	276215	FAMILY DOLLAR - KRISTIN WAY	LAT_EXT	400	-870
	12/31/2010	359325	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		359384	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		362664	MAINTENANCE WORK FY11A - MILL CREEK	SCAPCREDIT		22,745
	6/30/2011	320916	SONNE AVE PS REHABILITATION -	SCAPCREDIT		120,800
		362671	MAINTENANCE WORK FY11B - MILL CREEK	SCAPCREDIT		11,745
	10/4/2011	299399	FAMILY DOLLAR - GREENWOOD RD	LAT_EXT	800	-1,740
	11/9/2011	309018	PRP PERFORMING ARTS ADDITION	LAT_EXT	1134	-2,466
	12/31/2011	359326	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359385	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		362676	MAINTENANCE WORK FY12A - MILL CREEK	SCAPCREDIT		4,800
	1/19/2012	318096	CRACKER BARREL OLD COUNTRY	LAT_EXT	6000	-13,050
	3/16/2012	SC1005678	CONTRACTED WORK FY12 - MILL CREEK	SCAPCREDIT		22

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	5/21/2012	262545	DIXIE MANOR SHOPPING CENTER	LAT_EXT	965	-2,099
	6/26/2012	300374	FORT KNOX FEDERAL CREDIT UNION	LAT_EXT	400	-870
	6/30/2012	361693	FY12 MILL CREEK REHAB	SCAPCREDIT		81,675
		362680	MAINTENANCE WORK FY12B - MILL CREEK	SCAPCREDIT		4,133
	7/24/2012	231800	PIONEER MOBILE HOME PARK	LAT_EXT	11200	-24,360
	9/18/2012	237457	WAVERLY HILLS	LAT_EXT	400	-870
	10/19/2012	341883	NHK SPRING PRECISION	LAT_EXT	17800	-38,715
	12/5/2012	334997	BEECHLAND BAPTIST CHURCH	LAT_EXT	2715	-5,905
	12/31/2012	359327	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		148,000
		359386	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		362685	MAINTENANCE WORK FY13A - MILL CREEK	SCAPCREDIT		22,996
	1/18/2013	343763	SOUTHEAST CHRISTIAN CHURCH SW	LAT_EXT	6000	-13,050
	3/20/2013	224875	ASHBY GREEN APARTMENT HOMES	LAT_EXT	36400	-79,170
	6/6/2013	265944	RIVERPORT PHASE 4A - MICHELIN	LAT_EXT	400	-870
	6/30/2013	SC1082559	MAINTENANCE WORK FY13 JAN-JUN-MILL CREEK	SCAPCREDIT		32,425
	9/10/2013	314887	DAYTON FREIGHT	LAT_EXT	1200	-2,610
	9/26/2013	13LE1014	LOUISVILLE FREE PUBLIC LIBRARY SOUTHWEST	LAT_EXT	8200	-17,835
	10/3/2013	357140	FAMILY DOLLAR CANE RUN ROAD	LAT_EXT	832	-1,810
	12/30/2013	SC1082560	MAINTENANCE WORK FY14 JUL-DEC-MILL CREEK	SCAPCREDIT		11,451
	1/29/2014	13LE1171	SINGLE FAMILY HOME 3700 ROMANIA DR	LAT_EXT	400	-870
	6/30/2014	SC1082562	MAINTENANCE WORK FY14 JAN-JUN-MILL CREEK	SCAPCREDIT		7,753
	12/30/2014	SC1082563	MAINTENANCE WORK FY15 JUL-DEC-MILL CREEK	SCAPCREDIT		4,491
	3/10/2015	SC1005536	ROSA TERRACE I/I REHABILITATION FY13	SCAPCREDIT		156,635
	6/30/2015	SC1082564	MAINTENANCE WORK FY15 JAN-JUN-MILL CREEK	SCAPCREDIT		4,861
	7/31/2015	SC1003690	CONTRACTED WORK FY15 - MILL CREEK	SCAPCREDIT		58
	12/30/2015	SC1082565	MAINTENANCE WORK FY16 JUL-DEC-MILL CREEK	SCAPCREDIT		6,692
	6/30/2016	SC1082566	MAINTENANCE WORK FY16 JAN-JUN-MILL CREEK	SCAPCREDIT		3,523
	7/28/2016	LE944727	Britz Deer Hollow Lane	LAT_EXT	800	-1,740
	12/30/2016	SC1082567	MAINTENANCE WORK FY17 JUL-DEC-MILL CREEK	SCAPCREDIT		12,857
	6/30/2017	SC1082568	MAINTENANCE WORK FY17 JAN-JUN-MILL CREEK	SCAPCREDIT		5,103
	12/30/2017	SC1082569	MAINTENANCE WORK FY18 JUL-DEC-MILL CREEK	SCAPCREDIT		27,293
	4/10/2019	LE995375	1105 Dorsey lane	LAT_EXT	10300	-22,403
	10/31/2019	LE1039415	Delcour Multi-Family Apartments	LAT_EXT	60400	-131,370
Mill Creek Total						521,343
Middle Fork	12/31/2007	359328	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		20,000
		359400	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		84,000
	11/1/2008	235566	MAINTENANCE WORK FY06 AUG-FY09 NOV - MOIDDLE FORK	SCAPCREDIT		43,779
	12/31/2008	359329	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		SC1011287	MAINTENANCE WORK FY09A - MIDDLE FORK	SCAPCREDIT		13
	1/16/2009	236517	ANCHOR ESTATES MH REHAB	SCAPCREDIT		15,552
	3/30/2009	217235	SINKING FORK ICA PHASE I REHAB	SCAPCREDIT		437,967
	5/15/2009	235376	MIDDLE FORK INT REHAB PH1	SCAPCREDIT		487,744
	5/26/2009	179246	SHADY GLEN OF LYNDON PERSONAL	LAT_EXT	-500	1,088
	6/30/2009	SC1011288	MAINTENANCE WORK FY09B - MIDDLE FORK	SCAPCREDIT		4,208
	11/4/2009	250572	1316 WITAWANGA AVE	LAT_EXT	400	-870
	12/31/2009	359331	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		359401	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		4,000



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		SC1011290	MAINTENANCE WORK FY10A - MIDDLE FORK	SCAPCREDIT		50
	3/16/2010	197432	ALMOST HOME KENNELS - ALL PET	LAT_EXT	3700	-8,048
	4/15/2010	260064	OXMOOR GOLF FRONT 9	LAT_EXT	400	-870
		260065	OXMOOR GOLF BACK 9	LAT_EXT	400	-870
	4/27/2010	229834	THE BROOK HOS- DUPONT ADDITION	LAT_EXT	1763	-3,835
	6/30/2010	SC1011292	MAINTENANCE WORK FY10B - MIDDLE FORK	SCAPCREDIT		1,113
	7/2/2010	265723	Z-XPRESS CAR WASH	LAT_EXT	5449	-11,852
	7/14/2010	255792	HERR LANE APARTMENTS - 8 PLEX	LAT_EXT	2400	-5,220
		255793	HERR LANE APARTMENTS - 4 PLEX	LAT_EXT	1200	-2,610
	9/9/2010	274303	FARM CREDIT SERVICES	LAT_EXT	525	-1,142
	12/15/2010	278015	METROPOLITAN UROLOGY	LAT_EXT	400	-870
	12/31/2010	359333	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359402	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011293	MAINTENANCE WORK FY11A - MIDDLE FORK	SCAPCREDIT		1,205
	1/20/2011	285637	SHELBYHURST OFFICE BUILDING 1	LAT_EXT	6600	-14,355
	1/27/2011	313465	DORSEY POINTE/CODOMINIUMS 8-13	LAT_EXT	2400	-5,220
	4/14/2011	291263	BROWNS LANE BUILDING	LAT_EXT	400	-870
	6/14/2011	293400	FOUR PLEX APARTMENTS	LAT_EXT	1200	-2,610
	6/30/2011	SC1011294	MAINTENANCE WORK FY11B - MIDDLE FORK	SCAPCREDIT		7,183
	8/11/2011	330019	FY11 ANCHOR ESTATES REHAB	SCAPCREDIT		1,359
	10/31/2011	310046	EL NAPEL - MCMAHAN CENTER	LAT_EXT	3100	-6,743
	11/29/2011	314591	CHOCOLATE MARTINI BAR/REST	LAT_EXT	3275	-7,123
	12/27/2011	320983	HURSTBOURNE I/ INVESTIGATION	SCAPCREDIT		1,408,279
	12/31/2011	359335	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		16,000
		SC1011295	MAINTENANCE WORK FY12A - MIDDLE FORK	SCAPCREDIT		919
	2/15/2012	321228	SINGLE FAMILY UNIT	LAT_EXT	400	-870
	3/16/2012	SC1005671	CONTRACTED WORK FY12 - MIDDLE FORK	SCAPCREDIT		7,305
	3/27/2012	321647	SINGLE FAMILY	LAT_EXT	400	-870
	6/22/2012	328074	SINGLE FAMILY-703 FOUNTAIN AVE	LAT_EXT	400	-870
	6/30/2012	SC1011297	MAINTENANCE WORK FY12B - MIDDLE FORK	SCAPCREDIT		949
	8/20/2012	193195	CEDAR LAKE LODGE WASHBURN	LAT_EXT	1900	-4,133
	8/23/2012	320923	ST MATTHEWS I/ REHABILITATION	SCAPCREDIT		20,841
	9/5/2012	337796	CHAMPPS	LAT_EXT	635	-1,381
	12/28/2012	347126	ADVANCE PRODUCTION SYSTEMS	LAT_EXT	400	-870
	12/31/2012	14SC1003	MAINTENANCE WORK FY13A - MIDDLE FORK	SCAPCREDIT		3,309
		359336	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		92,000
	1/4/2013	339367	BAPTIST RADIATION ONCOLOGY	LAT_EXT	1500	-3,263
	1/16/2013	340778	PANDA RESTAURANT	LAT_EXT	1725	-3,752
	2/4/2013	328659	SINGLE FAMILY HOME - 6911 AMBR	LAT_EXT	400	-870
	2/20/2013	352805	POOL HOUSE 9213 REIGATE COURT	LAT_EXT	200	-435
	3/19/2013	14LE1001	MIRANDA LAGRANGE RD	LAT_EXT	400	-870
	3/20/2013	350246	SINGLE FAMILY - 218 BLISS AVE	LAT_EXT	400	-870
	3/26/2013	349974	SINGLE FAMILY 205 N WATTERSON	LAT_EXT	400	-870
	4/15/2013	342433	SHELBYHURST 700 OFFICE BLDG	LAT_EXT	7500	-16,313
	4/16/2013	350340	JARED THE GALLERY OF JEWELRY	LAT_EXT	770	-1,675
	5/30/2013	SC1005532	CONTRACTED WORK FY13 - MIDDLE FORK	SCAPCREDIT		6,480
	6/7/2013	13LE1009	Single family 11716 Wetherby Ave	LAT_EXT	400	-870



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	6/30/2013	SC1082545	MAINTENANCE WORK FY13 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		6,989
	8/28/2013	13LE1001	Single Family 835 Fountain Ave	LAT_EXT	400	-870
	9/10/2013	355162	PROPOSED RESTAURANT	LAT_EXT	7540	-16,400
	9/30/2013	13LE1045	SINGLE FAMILY 8325 WHIPPS MILL RD	LAT_EXT	400	-870
	10/22/2013	319292	WATERMARK ON HURSTBOURNE	LAT_EXT	71600	-155,730
	10/28/2013	331542	DENTAL/MEDICAL OFFICE BLDG	LAT_EXT	400	-870
	11/5/2013	13LE1128	SINGLE FAMILY HOME 1327 ETAWAH AVE	LAT_EXT	400	-870
		13LE1144	SINGLE FAMILY 1329 ETAWAH AVE	LAT_EXT	400	-870
	11/25/2013	13LE1165	SINGLE FAMILY 8504 LORE LANE	LAT_EXT	400	-870
	11/26/2013	13LE1146	CITY OF ST MATTHEWS COMMUNITY CTR PARK RESTROOM	LAT_EXT	1500	-3,263
	12/11/2013	13LE1099	NICKLIES - ST MATTHEWS	LAT_EXT	1920	-4,176
	12/18/2013	353963	DORSEY COMMONS TRACTS 1,2,3	LAT_EXT	4335	-9,429
	12/30/2013	SC1082546	MAINTENANCE WORK FY14 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		91,183
	12/31/2013	352026	MCMAHAN PLAZA PHASE II BLDG B	LAT_EXT	766	-1,666
	4/10/2014	13LE1117	THE VININGS	LAT_EXT	850	-1,849
	6/30/2014	14LE1128	WALDORF SCHOOL OF LOUISVILLE	LAT_EXT	400	-870
		SC1082547	MAINTENANCE WORK FY14 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		4,404
	12/30/2014	SC1082548	MAINTENANCE WORK FY15 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,664
	2/10/2015	SC1006201	GOOSE CREEK PLANTATION I/I REHABILITATION FY14	SCAPCREDIT		163,919
	2/11/2015	SC1006179	CONTRACTED WORK FY14 - MIDDLE FORK	SCAPCREDIT		15,043
	6/30/2015	SC1082549	MAINTENANCE WORK FY15 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		2,568
	12/30/2015	SC1082550	MAINTENANCE WORK FY16 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		15,216
	6/8/2016	LE939199	Westport Road Apartments	LAT_EXT	62800	-136,590
	6/30/2016	SC1082552	MAINTENANCE WORK FY16 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,573
	8/30/2016	LE971405	Lyndon Lane Office Condos	LAT_EXT	2652	-5,768
	10/18/2016	SC1003387	CONTRACTED WORK FY16 - MIDDLE FORK	SCAPCREDIT		91,264
	10/24/2016	SC1006194	CONTRACTED WORK FY15 - MIDDLE FORK	SCAPCREDIT		3
	12/20/2016	LE938563	The Paddock at Sawyer Park	LAT_EXT	99800	-217,065
	12/30/2016	SC1082554	MAINTENANCE WORK FY17 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		2,385
	5/9/2017	LE1005641	City of Anchorage Sewer Extension	LAT_EXT	800	-1,740
	6/30/2017	SC1082555	MAINTENANCE WORK FY17 JAN-JUN-MIDDLE FORK BEARGRAS	SCAPCREDIT		3,799
	12/30/2017	SC1082557	MAINTENANCE WORK FY18 JUL-DEC-MIDDLE FORK BEARGRAS	SCAPCREDIT		5,851
	2/19/2018	LE1017531	526 & 528 Fountain Ave	LAT_EXT	800	-1,740
	9/7/2018	166053	616 & 618 FOUNTAIN AVE S/S	LAT_EXT	1600	-3,480
	7/26/2019	LE1020250	LFPL - Northeast Regional Library	LAT_EXT	800	-1,740
		LE1024084	Morat Avenue Apartments	LAT_EXT	63200	-137,460
	11/4/2019	LE1083952	1700 Cold Spring Rd & 12004 Osage Rd	LAT_EXT	800	-1,740
	1/30/2020	LE1104174	JAGGERS	LAT_EXT	1460	-3,176
	2/13/2020	LE1089288	Portland Christian School System Inc	LAT_EXT	400	-870



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Middle Fork Total						2,305,342
Northern Ditch	12/31/2007	359404	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		28,000
	11/1/2008	235569	MAINTENANCE WORK FY06 AUG-FY09 NOV - NORTHERN DIT	SCAPCREDIT		11,147
	11/25/2008	236363	NORTHERN DITCH INT REHAB PH1	SCAPCREDIT		108,760
	12/31/2008	SC1011338	MAINTENANCE WORK FY09A - NORTHERN DITCH	SCAPCREDIT		11
	6/30/2009	SC1011339	MAINTENANCE WORK FY09B - NORTHERN DITCH	SCAPCREDIT		1,884
	12/31/2009	359339	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		SC1011340	MAINTENANCE WORK FY10A - NORTHERN DITCH	SCAPCREDIT		1,177
	3/5/2010	234678	THE LIGHTHOUSE PROMISE COMPLEX	LAT_EXT	2825	-6,144
	6/30/2010	SC1011343	MAINTENANCE WORK FY10B - NORTHERN DITCH	SCAPCREDIT		2,532
	12/21/2010	284728	SUBWAY - NEW CUT RD	LAT_EXT	1314	-2,858
	12/31/2010	359340	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		SC1011344	MAINTENANCE WORK FY11A - NORTHERN DITCH	SCAPCREDIT		2,456
	6/28/2011	320908	PARKVIEW ESTATES REHABILITATIO	SCAPCREDIT		36
	6/30/2011	SC1011345	MAINTENANCE WORK FY11B - NORTHERN DITCH	SCAPCREDIT		1,989
	11/11/2011	312810	WILLOW PLACE APT COMMUNITY CEN	LAT_EXT	400	-870
	12/31/2011	359341	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		359405	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		SC1011346	MAINTENANCE WORK FY12A - NORTHERN DITCH	SCAPCREDIT		911
	1/26/2012	315723	JCPS EARLY CHILDHOOD DEVELOP	LAT_EXT	6000	-13,050
	3/21/2012	312057	DOLLAR GENERAL - MEDALLION CT	LAT_EXT	400	-870
	6/30/2012	SC1011336	MAINTENANCE WORK FY12B - NORTHERN DITCH	SCAPCREDIT		7,893
	8/20/2012	312659	KROGER L-350 FUEL STATION	LAT_EXT	400	-870
	12/31/2012	14SC1004	MAINTENANCE WORK FY13A - NORTHERN DITCH	SCAPCREDIT		4,239
		359343	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		24,000
	6/30/2013	SC1082570	MAINTENANCE WORK FY13 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,459
	12/5/2013	13LE1147	CARLON ROOFING	LAT_EXT	992	-2,158
	12/12/2013	13LE1126	JENNINGS CROSSING TRACT 3	LAT_EXT	2100	-4,568
	12/30/2013	SC1082571	MAINTENANCE WORK FY14 JUL-DEC-NORTH DITCH	SCAPCREDIT		2,707
	6/30/2014	SC1082572	MAINTENANCE WORK FY14 JAN-JUN-NORTH DITCH	SCAPCREDIT		9,044
	10/21/2014	SC1006180	CONTRACTED WORK FY14 - NORTHERN DITCH	SCAPCREDIT		5
	12/30/2014	SC1082573	MAINTENANCE WORK FY15 JUL-DEC-NORTH DITCH	SCAPCREDIT		8,330
	6/30/2015	SC1082575	MAINTENANCE WORK FY15 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,564
	12/30/2015	SC1082576	MAINTENANCE WORK FY16 JUL-DEC-NORTH DITCH	SCAPCREDIT		6,074
	6/30/2016	SC1082577	MAINTENANCE WORK FY16 JAN-JUN-NORTH DITCH	SCAPCREDIT		5,519
	12/30/2016	SC1082578	MAINTENANCE WORK FY17 JUL-DEC-NORTH DITCH	SCAPCREDIT		9,266
	6/30/2017	SC1082579	MAINTENANCE WORK FY17 JAN-JUN-NORTH DITCH	SCAPCREDIT		6,441
	12/30/2017	SC1082580	MAINTENANCE WORK FY18 JUL-DEC-NORTH DITCH	SCAPCREDIT		7,810

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Northern Ditch Total						274,866
ORFM	12/31/2007	359344	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359433	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		56,000
	11/1/2008	235572	MAINTENANCE WORK FY06 AUG-FY09 NOV - ORFM	SCAPCREDIT		19,826
	12/31/2008	362643	MAINTENANCE WORK FY09A - ORFM	SCAPCREDIT		2
	6/30/2009	362650	MAINTENANCE WORK FY09B - ORFM	SCAPCREDIT		3,835
	12/31/2009	362654	MAINTENANCE WORK FY10A - ORFM	SCAPCREDIT		7,330
	5/18/2010	263548	SINGLE FAMILY CONNECTION	LAT_EXT	400	-870
	6/28/2010	213488	NORTHEAST CHRISTIAN CHURCH	LAT_EXT	10000	-21,750
	6/30/2010	362660	MAINTENANCE WORK FY10B - ORFM	SCAPCREDIT		6,773
	8/30/2010	254919	TRILOGY HEALTH SERVICES, LLC	LAT_EXT	8200	-17,835
	12/31/2010	362665	MAINTENANCE WORK FY11A - ORFM	SCAPCREDIT		181
	6/30/2011	362672	MAINTENANCE WORK FY11B - ORFM	SCAPCREDIT		4,139
	9/20/2011	280837	SPRINGHURST TOWNE CTR LOT C	LAT_EXT	400	-870
	9/30/2011	320920	SHADOW WOOD I/I REHABILITATION	SCAPCREDIT		14,279
	10/14/2011	311412	SPRINGHURST CHEVROLET	LAT_EXT	855	-1,860
	12/31/2011	359345	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		16,000
		359434	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		362677	MAINTENANCE WORK FY12A - ORFM	SCAPCREDIT		7,268
	3/1/2012	320921	DERINGTON COURT I/I REHABILITA	SCAPCREDIT		56,208
	3/5/2012	187028	GLENVIEW PARK SUBD SECTION 1	LAT_EXT	4400	-9,570
		213450	GLENVIEW PARK SUB, SEC 2	LAT_EXT	5600	-12,180
	3/12/2012	322455	FIRST LADY NAILS	LAT_EXT	400	-870
	6/30/2012	362681	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
		SC1011315	MAINTENANCE WORK FY12B - ORFM	SCAPCREDIT		19,941
	7/5/2012	292239	SPRINGHURST RESTAURANT/ RETAIL	LAT_EXT	3440	-7,482
	12/11/2012	323821	TIRE DISCOUNTERS WESTPORT RD	LAT_EXT	400	-870
	12/18/2012	341319	RAISING CANES RETAIL CENTER	LAT_EXT	1225	-2,664
		363238	FY13 PROSPECT MANHOLE REHAB	SCAPCREDIT		72,703
	12/31/2012	359346	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		24,000
		362686	MAINTENANCE WORK FY13A - ORFM	SCAPCREDIT		1,161
		363235	FY13 MUDDY FORK MH REHAB	SCAPCREDIT		41,653
	3/12/2013	322458	KROGER L-707 STORE EXPANSION	LAT_EXT	400	-870
	5/13/2013	360262	SINGLE FAMILY 3419 HILLVALE RD	LAT_EXT	400	-870
	6/21/2013	343729	RETAIL & RESTAURANT	LAT_EXT	3500	-7,613
	6/30/2013	SC1082581	MAINTENANCE WORK FY13 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		279
	11/7/2013	334154	GLENVIEW PARK SUBD SEC 4	LAT_EXT	3600	-7,830
	12/30/2013	SC1082582	MAINTENANCE WORK FY14 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,302
	12/31/2013	13LE1024	Overlook at Beech Spring Farm Sec 4	LAT_EXT	5600	-12,180
	3/11/2014	199896	SPRINGDALE OFFICE BUILDING	LAT_EXT	4210	-9,157
	5/16/2014	225863	SPRING FARM LAKES SEC 1	LAT_EXT	4800	-10,440
	6/30/2014	SC1082583	MAINTENANCE WORK FY14 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,293
	9/22/2014	177756	SUMMIT GARDENS PHASE 1	LAT_EXT	32000	-69,600
	11/10/2014	14LE1121	Riverside Sewer Extension	LAT_EXT	1200	-2,610



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	12/30/2014	SC1082584	MAINTENANCE WORK FY15 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		4,394
	12/31/2014	SC1006181	CONTRACTED WORK FY14 - ORFM	SCAPCREDIT		1,654
	1/16/2015	13LE1071	SPRING FARM LAKE SEC 2	LAT_EXT	6000	-13,050
	2/12/2015	352634	BAUER PROPERTY	LAT_EXT	2920	-6,351
	6/30/2015	SC1082585	MAINTENANCE WORK FY15 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		2,547
	7/12/2015	SC983704	PROSPECT I&I REHABILITATION - FY13 PHASE IA	SCAPCREDIT		1,034,758
	8/5/2015	SC1003730	RIVER ROAD I/I REMEDIATION	SCAPCREDIT		120,418
	10/21/2015	LE929244	Summit Gardens Phase 2	LAT_EXT	18000	-39,150
	11/19/2015	SC1006195	CONTRACTED WORK FY15 - ORFM	SCAPCREDIT		1
	12/14/2015	LE938166	Spring Farm Lake Section 3	LAT_EXT	3200	-6,960
	12/30/2015	SC1082586	MAINTENANCE WORK FY16 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		1,478
	6/30/2016	SC1082587	MAINTENANCE WORK FY16 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		460
		SC1082589	MAINTENANCE WORK FY17 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		3,171
	8/10/2016	SC1003696	CONTRACTED WORK FY16 - ORFM	SCAPCREDIT		17,566
	10/6/2016	SC1003728	PROSPECT I&I REHABILITATION - FY16 PHASE IB	SCAPCREDIT		199,036
	11/16/2016	LE923204	Indian Springs Hotel	LAT_EXT	13000	-28,275
	6/30/2017	SC1082590	MAINTENANCE WORK FY17 JAN-JUN-OHIO RIVER FORCE MAI	SCAPCREDIT		1,630
	12/30/2017	SC1082592	MAINTENANCE WORK FY18 JUL-DEC-OHIO RIVER FORCE MAI	SCAPCREDIT		3,330
	12/6/2019	LE971285	Cityscape - Simcoe Lane	LAT_EXT	66700	-145,073
ORFM Total						1,347,707
Pond Creek	11/1/2008	235574	MAINTENANCE WORK FY06 AUG-FY09 NOV - POND CREEK	SCAPCREDIT		71,782
	12/31/2008	359347	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359438	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
		SC1011298	MAINTENANCE WORK FY09A - POND CREEK	SCAPCREDIT		1,913
	6/30/2009	SC1011299	MAINTENANCE WORK FY09B - POND CREEK	SCAPCREDIT		6,403
	12/31/2009	359348	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359439	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		12,000
		SC1011305	MAINTENANCE WORK FY10A - POND CREEK	SCAPCREDIT		22,337
	2/17/2010	192513	BANNON CROSSINGS SECTION 3A-1	LAT_EXT	800	-1,740
	3/26/2010	219734	DSL LIFE LONG LEARNING CENTER	LAT_EXT	900	-1,958
	4/27/2010	261115	EMERGENCY RESTORATION	LAT_EXT	400	-870
	6/30/2010	SC1011307	MAINTENANCE WORK FY10B - POND CREEK	SCAPCREDIT		11,060
	10/13/2010	276977	DADISMAN BUILDERS-POPLAR TREE	LAT_EXT	400	-870
	12/1/2010	266833	THORNTONS @ PRESTON HWY	LAT_EXT	400	-870
	12/29/2010	280751	NOTTINGTON HILLS SEC 1	LAT_EXT	4400	-9,570
	12/31/2010	359350	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		SC1011308	MAINTENANCE WORK FY11A - POND CREEK	SCAPCREDIT		19,773
	1/13/2011	187739	GLENGARRY INDUSTRIAL PARK	LAT_EXT	4300	-9,353
	3/21/2011	277777	TIRE DISCOUNTERS - BOERSTE WAY	LAT_EXT	2960	-6,438
	6/30/2011	SC1011309	MAINTENANCE WORK FY11B - POND CREEK	SCAPCREDIT		10,562
	9/14/2011	304408	UPS SUPPLY CHAIN SOLUTIONS #7	LAT_EXT	2250	-4,894
	9/27/2011	320918	EDSEL I/I REHABILITATION - FY1	SCAPCREDIT		106,700

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	11/4/2011	313444	PLANET FITNESS - JEFF BLVD	LAT_EXT	1600	-3,480
	11/29/2011	312391	LONGHORN STEAKHOUSE RESTAURANT	LAT_EXT	4840	-10,527
	12/29/2011	320919	LANTANA I/I REHABILITATION - F	SCAPCREDIT		5,000
	12/31/2011	359351	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		20,000
		SC1011310	MAINTENANCE WORK FY12A - POND CREEK	SCAPCREDIT		5,380
	2/28/2012	310845	ZAXBY'S RESTAURANT	LAT_EXT	3750	-8,156
	3/13/2012	255044	ISA-RECYCLING CENTER	LAT_EXT	400	-870
	3/19/2012	312814	MILLER TRANSPORTATION	LAT_EXT	1800	-3,915
	4/16/2012	324554	NORTONS TEMPORARY OFFICE	LAT_EXT	900	-1,958
	6/19/2012	234102	ETHOS AT VALLEY FARM SR LIVING	LAT_EXT	7050	-15,334
	6/21/2012	322367	SHEPHERDS CARE MEMORY HOME	LAT_EXT	2000	-4,350
	6/30/2012	SC1011313	MAINTENANCE WORK FY12B - POND CREEK	SCAPCREDIT		3,877
	8/6/2012	307332	LOUISVILLE INDUSTRIAL BLDG B	LAT_EXT	2520	-5,481
	8/10/2012	279860	BANNON CROSSINGS SEC 3B-2	LAT_EXT	9600	-20,880
		SC1005684	CONTRACTED WORK FY12 - POND CREEK	SCAPCREDIT		3,812
	8/13/2012	312053	DOLLAR GENERAL - CLEARWATER FA	LAT_EXT	400	-870
	10/12/2012	343455	SINGLE FAMILY 1812 GREYLING DR	LAT_EXT	400	-870
	11/9/2012	243109	OVERBROOK APARTMENTS	LAT_EXT	41200	-89,610
	12/31/2012	14SC1005	MAINTENANCE WORK FY13A - POND CREEK	SCAPCREDIT		25,984
		359354	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		56,000
	2/20/2013	329624	COPART	LAT_EXT	400	-870
	5/2/2013	346082	ZAXBYS	LAT_EXT	2065	-4,491
	6/30/2013	320924	LEA ANN WAY INTERCEPTOR I&I RE	SCAPCREDIT		1,017,423
		SC1082593	MAINTENANCE WORK FY13 JAN-JUN-POND CREEK	SCAPCREDIT		41,995
	7/2/2013	335385	HARRISON LOW PRESSURE S/S	LAT_EXT	1600	-3,480
	7/12/2013	SC1005534	PICADILLY I/I REHABILITATION FY13	SCAPCREDIT		187,564
	8/16/2013	320940	4 RESIDENCE SFU 7821 MANSLICK	LAT_EXT	400	-870
	8/27/2013	SC1005538	CONTRACTED WORK FY13 - POND CREEK	SCAPCREDIT		18,958
	9/6/2013	324886	PNC BANK	LAT_EXT	400	-870
		361336	RENAISSANCE SOUTH BUSINESS	LAT_EXT	540	-1,175
	9/26/2013	13LE1083	SINGLE FAMILY HOME 5402 (H) E MANSLICK RD	LAT_EXT	400	-870
	11/12/2013	SC1005319	FEGENBUSH I/I REHABILITATION FY13	SCAPCREDIT		226,201
	12/9/2013	353125	PEGASUS TRANSPORTATION	LAT_EXT	250	-544
	12/10/2013	308206	APPLEGATE FARMS	LAT_EXT	57200	-124,410
		341439	PRESTON GARDENS APTS	LAT_EXT	22200	-48,285
	12/30/2013	SC1082594	MAINTENANCE WORK FY14 JUL-DEC-POND CREEK	SCAPCREDIT		19,491
	2/14/2014	13LE1179	TIMBERBEND SUBDIVISION SEC 5B	LAT_EXT	6400	-13,920
	4/10/2014	13LE1035	RENAISSANCE SOUTH BUSINESS PARK TRACT 4	LAT_EXT	5415	-11,778
	4/24/2014	348014	ASHTON PARK TOWN HOMES	LAT_EXT	9000	-19,575
	5/16/2014	280180	LOUISVILLE INDUSTRIAL CTR F	LAT_EXT	2480	-5,394
	5/28/2014	14LE1085	Williams Properties - Self Storage Facility	LAT_EXT	400	-870
	6/9/2014	13LE1034	6300 GEIL LANE WAREHOUSE	LAT_EXT	720	-1,566
	6/30/2014	SC1082595	MAINTENANCE WORK FY14 JAN-JUN-POND CREEK	SCAPCREDIT		14,457
	7/7/2014	284215	HURSTBOURNE POINTE APTS	LAT_EXT	9600	-20,880
	8/25/2014	344230	AUSTIN PARK APARTMENTS PH6	LAT_EXT	27600	-60,030
	11/13/2014	13LE1105	JEFFERSON COMMONS	LAT_EXT	17075	-37,138



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	11/18/2014	SC1005323	FERN CREEK I/I REHABILITATION FY13	SCAPCREDIT		551,108
	12/30/2014	SC1082596	MAINTENANCE WORK FY15 JUL-DEC-POND CREEK	SCAPCREDIT		26,095
	1/13/2015	13LE1017	APEX ON PRESTON APT HOMES(Formerly CITYSCAPE APTS)	LAT_EXT	84400	-183,570
	3/10/2015	SC1005541	STONY BROOK I/I REHABILITATION FY13	SCAPCREDIT		345,397
	3/11/2015	SC995942	CAVEN AVE I/I REMEDIATION - FY13	SCAPCREDIT		225,645
	4/29/2015	354207	COOPER FARMS SEC 11B	LAT_EXT	12400	-26,970
		354209	COOPER FARMS SEC 11A	LAT_EXT	13200	-28,710
	6/30/2015	SC1082597	MAINTENANCE WORK FY15 JAN-JUN-POND CREEK	SCAPCREDIT		10,279
	8/25/2015	13LE1086	WOODS OF PENN RUN OFFSITE SS	LAT_EXT	1000	-2,175
	10/2/2015	13LE1140	JEFFERSON POST APARTMENTS	LAT_EXT	28800	-62,640
	12/30/2015	14LE1116	CATALPA SPRINGS	LAT_EXT	2800	-6,090
		SC1082598	MAINTENANCE WORK FY16 JUL-DEC-POND CREEK	SCAPCREDIT		13,994
	12/31/2015	SC939830	Lea Ann Way West Quad 1 & 2 Rehabilitation Project	SCAPCREDIT		445,911
	2/4/2016	13LE1056	MORNING POINTE AT HURSTBOURNE	LAT_EXT	13000	-28,275
	2/12/2016	358356	WOODS OF PENN RUN Section 1	LAT_EXT	18800	-40,890
	5/17/2016	SC1003699	CONTRACTED WORK FY16 - POND CREEK	SCAPCREDIT		36,063
	6/6/2016	LE936598	Jefferson Commerce Center Tract 1A	LAT_EXT	5250	-11,419
	6/21/2016	14LE1170	Austin Park Phase 7 & 8	LAT_EXT	26400	-57,420
		LE918484	AUSTIN PARK SS PHASE 8	LAT_EXT	16800	-36,540
	6/30/2016	SC1082599	MAINTENANCE WORK FY16 JAN-JUN-POND CREEK	SCAPCREDIT		12,650
	8/5/2016	SC1003087	HILLRIDGE I/I REMEDIATION	SCAPCREDIT		308,184
	8/31/2016	SC1003292	LEA ANN WAY WEST (LAWW) QUAD 3 I/I REMEDIATION	SCAPCREDIT		311,526
	10/24/2016	SC1006197	CONTRACTED WORK FY15 - POND CREEK	SCAPCREDIT		310
	10/26/2016	SC1006182	CONTRACTED WORK FY14 - POND CREEK	SCAPCREDIT		8,390
	10/31/2016	SC1005631	LEA ANN WAY WEST (LAWW) QUAD 4 I/I REHABILITATION	SCAPCREDIT		692,905
		SC1005639	SILVER HEIGHTS SEWER REHAB	SCAPCREDIT		284,936
	12/30/2016	SC1082601	MAINTENANCE WORK FY17 JUL-DEC-POND CREEK	SCAPCREDIT		14,699
	1/17/2017	LE942402	Preston Crossing Apartments	LAT_EXT	46400	-100,920
	2/2/2017	LE954229	Jefferson Commerce Center Bldg.2	LAT_EXT	3150	-6,851
	6/30/2017	SC1082602	MAINTENANCE WORK FY17 JAN-JUN-POND CREEK	SCAPCREDIT		14,076
	7/6/2017	LE967615	Cooper Farms Section 12	LAT_EXT	21200	-46,110
	12/30/2017	SC1082603	MAINTENANCE WORK FY18 JUL-DEC-POND CREEK	SCAPCREDIT		10,803
	6/30/2018	SC1096902	Admiral PS I/I Rehab FY17 FY18	SCAPCREDIT		977,768
	6/10/2019	LE1047077	Orell Station 1C	LAT_EXT	10400	-22,620
	7/10/2019	LE1053368	Ferndale Place Subdivision	LAT_EXT	9600	-20,880
	1/13/2020	LE1092680	Hidden Forest Section 2	LAT_EXT	10000	-21,750
	2/18/2020	LE1102769	L & N Federal Credit Union	LAT_EXT	1950	-4,241
Pond Creek Total						4,955,460
SE Diversion	12/31/2007	359355	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		8,000
		359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		128,000

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	11/1/2008	235575	MAINTENANCE WORK FY06 AUG-FY09 NOV - SE DIVERSION	SCAPCREDIT		71,472
	12/22/2008	236214	GOLDSMITH BUECHB ICA PHI REHAB	SCAPCREDIT		314,808
		236296	BEARGRASS INT REHAB PH1 SEDIV	SCAPCREDIT		122,688
	12/31/2008	359356	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359441	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDIT		16,000
		SC1011317	MAINTENANCE WORK FY09A - SE DIVERSION	SCAPCREDIT		1,555
	6/30/2009	SC1011318	MAINTENANCE WORK FY09B - SE DIVERSION	SCAPCREDIT		2,929
	10/20/2009	229854	TINY HANDS DAYCARE	LAT_EXT	1225	-2,664
	12/31/2009	359357	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDIT		12,000
		359443	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011322	MAINTENANCE WORK FY10A - SE DIVERSION	SCAPCREDIT		16,974
	2/11/2010	235291	SULLIVAN COLLEGE OF TECHNOLOGY	LAT_EXT	900	-1,958
	3/1/2010	238328	LOUISVILLE COLLEGIATE SPORTS	LAT_EXT	400	-870
	3/5/2010	241759	FRISCHS BIG BOY RESTAURANT	LAT_EXT	2400	-5,220
	4/16/2010	257275	LOUISVILLE JUNIOR ACADEMY	LAT_EXT	520	-1,131
	6/30/2010	SC1011326	MAINTENANCE WORK FY10B - SE DIVERSION	SCAPCREDIT		10,739
	12/14/2010	320993	BEARGRASS CREEK PHASE II - FY1	SCAPCREDIT		10,368
	12/31/2010	359358	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDIT		4,000
		359444	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDIT		24,000
		SC1011328	MAINTENANCE WORK FY11A - SE DIVERSION	SCAPCREDIT		11,090
	2/16/2011	286513	GARDINER POINT RESIDENCE HALL	LAT_EXT	10800	-23,490
	5/6/2011	276378	TIRE DISCOUNTERS - BARDSTOWN	LAT_EXT	1500	-3,263
	5/30/2011	287888	BEVERAGE WAREHOUSE	LAT_EXT	1180	-2,567
	6/30/2011	SC1011330	MAINTENANCE WORK FY11B - SE DIVERSION	SCAPCREDIT		3,661
	7/1/2011	296295	KEN TOWERY -3800 S HURSTBOURNE	LAT_EXT	400	-870
	12/31/2011	359359	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDIT		64,000
		359445	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDIT		8,000
		SC1011331	MAINTENANCE WORK FY12A - SE DIVERSION	SCAPCREDIT		5,071
	6/30/2012	SC1011316	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		24,202
		SC1011333	MAINTENANCE WORK FY12B - SE DIVERSION	SCAPCREDIT		6,141
	8/10/2012	307018	HOOK PROPERTY FAMILY DOLLAR	LAT_EXT	400	-870
	12/31/2012	14SC1006	MAINTENANCE WORK FY13A - SE DIVERSION	SCAPCREDIT		24,202
		359361	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDIT		68,000
		359446	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDIT		4,000
	3/11/2013	187741	BROOKSTONE SENIOR APARTMENTS	LAT_EXT	16800	-36,540
	6/14/2013	232601	RAINTREE/MARIAN CT P/S ELIM	LAT_EXT	105800	-230,115
	6/30/2013	SC1082605	MAINTENANCE WORK FY13 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		21,761
	9/18/2013	SC1005539	CONTRACTED WORK FY13 - SOUTHEAST DIVERSION	SCAPCREDIT		25,344
	11/26/2013	330437	COLLEGIATE ATHLETIC FIELD	LAT_EXT	800	-1,740
	12/30/2013	SC1082606	MAINTENANCE WORK FY14 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		19,491
	6/30/2014	SC1082607	MAINTENANCE WORK FY14 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		9,087
	12/30/2014	SC1082608	MAINTENANCE WORK FY15 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		15,321
	2/11/2015	SC1006185	CONTRACTED WORK FY14 - SOUTHEAST DIVERSION	SCAPCREDIT		187,478



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	6/30/2015	SC1082610	MAINTENANCE WORK FY15 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		10,273
	10/20/2015	SC1006199	CONTRACTED WORK FY15 - SOUTHEAST DIVERSION	SCAPCREDIT		1
	12/22/2015	LE919560	Todd's Place Express Car Wash	LAT_EXT	4830	-10,505
	12/30/2015	SC1082611	MAINTENANCE WORK FY16 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		7,052
	2/16/2016	SC1003718	SOUTHEAST DIVERSION AREA G (SEDG) I/I REMEDIATION	SCAPCREDIT		75,998
	5/24/2016	SC1003704	CONTRACTED WORK FY16 - SOUTHEAST DIVERSION	SCAPCREDIT		66
	6/30/2016	SC1082612	MAINTENANCE WORK FY16 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		19,904
	7/28/2016	LE943171	Costco Wholesale and Fuel Facility	LAT_EXT	8000	-17,400
	12/30/2016	SC1082613	MAINTENANCE WORK FY17 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		5,812
	6/30/2017	SC1082614	MAINTENANCE WORK FY17 JAN-JUN-SOUTHEAST DIVERSION	SCAPCREDIT		6,961
	12/30/2017	SC1082615	MAINTENANCE WORK FY18 JUL-DEC-SOUTHEAST DIVERSION	SCAPCREDIT		14,909
SE Diversion Total						1,054,155
Grand Total						14,594,358





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**APPENDIX E**

**IOAP PROJECT CROSSWALK**



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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
17TH ST FPS DWO ELIMINATION	IOAP	MSD0306-FP	L_OR_MF_190_S_03_A_A
27TH STREET FPS DWO ELIM	IOAP	MSD0307-FP	L_OR_MF_019_S_03_A_A
34TH ST FPS DWO ELIMINATION	IOAP	MSD0308-FP	L_OR_MF_019_S_03_A_B
4TH STREET FPS DWO ELIMINATION	IOAP	MSD0303-FP	L_OR_MF_022_M_03_A_A
ADAMS STREET SEWER SEPARATION (FORMERLY STORAGE BASIN)	IOAP	CSO172	L_OR_MF_172_S_09B_B_A_0
ANCHOR ESTATES PS ELIMINATIONS 1 - VANNAH PUMP STATION ELIMINATION	IOAP	01106	S_MI_MF_NB06_M_01_A_A-2
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	IOAP	00056-W	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	IOAP	0057-W	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	IOAP	00746	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	IOAP	00817	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	IOAP	MSD0057-LS	S_MI_MF_NB06_M_01_A_A - 1
ASHBURTON PS IMPROVEMENTS & DIVERSION	IOAP	MSD0165-PS	S_FF_FF_NB03_M_01_C_A
ASHBURTON PS IMPROVEMENTS & DIVERSION	IOAP	MSD0166-PS	S_FF_FF_NB03_M_01_C_A
AVANTI PS ELIMINATION	IOAP	21229	S_PO_WC_PC07_M_01_A
BARDSTOWN RD PS IMPROVEMENTS	IOAP	88545	S_CC_CC_MSD1025_S_03_B
BEARGRASS INTERCEPTOR REHABILITATION PH 2	IOAP	51594	S_SD_MF_NB06_S_13_C
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21061	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21089	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21089A	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21101	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21153	BEECHWOOD VILLAGE SEWER REPL
BEECHWOOD VILLAGE SEWER REPL	ISSDP	21156	BEECHWOOD VILLAGE SEWER REPL
BELLS LANE (FORMERLY PADDY'S RUN) WET WEATHER TREATMENT FACILITY	IOAP	CSO015	L_OR_MF_015_M_13_B_B_8
BELLS LANE (FORMERLY PADDY'S RUN) WET WEATHER TREATMENT FACILITY	IOAP	CSO191	L_OR_MF_015_M_13_B_B_8
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	08717	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	104223	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	104224	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	104231	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	13931	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	13943	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	13946	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	34093542	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	36763	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	44396	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	44397	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	51301	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	66349	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	99259	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	KK14815019	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	IOAP	KK14855239	S_SF_MF_30917_M_09_A
CAVEN AVENUE PS ELIMINATION	IOAP	17724	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	IOAP	27116	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	IOAP	61667	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	IOAP	61687	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	IOAP	70212	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	IOAP	MSD0133-PS	S_PO_WC_PC09_M_09B_C



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CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO028	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO029	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO034	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO036	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO178	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO181	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO193	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO195	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO196	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO197	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO199	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO200X	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	IOAP	CSO202	L_OR_MF_155_M_09B_B_B_4-1
CHARLESWOOD INTERCEPTOR EXTENSION	IOAP	25477	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	IOAP	25479	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	IOAP	25480	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	IOAP	MSD0130-PS	S_PO_WC_PC03_M_01_C
CINDERELLA PS ELIMINATION	IOAP	102339	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	IOAP	35309	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	IOAP	60679	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	IOAP	MSD1013-PS	S_PO_WC_PC04_M_01_C
CLIFTON HEIGHTS STORAGE BASIN	IOAP	CSO083	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	IOAP	CSO088	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	IOAP	CSO131	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	IOAP	CSO132	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	IOAP	CSO154	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	IOAP	CSO167	L_MU_MF_154_M_09B_B_A_8
CSO058 IN-LINE STORAGE & GREEN INFRASTRUCTURE	IOAP	CSO058	L_OR_MF_058_S_08_A_A_0
CSO093 STRUCTURAL MODIFICATIONS & GREEN INFRASTRUCTURE	IOAP	CSO093	L_SO_MF_093_S_08_A_A_0
CSO108 DAM MODIFICATION	IOAP	CSO108	L_SO_MF_108_S_09A_B_A_4
CSO140 IN-LINE STORAGE & GREEN INFRASTRUCTURE	IOAP	CSO140	L_MI_MF_140_S_08_A_A_0
CSO160 SEWER SEPARATION	IOAP	CSO160	L_OR_MF_160_S_08_A_A_0
CSO190 GREEN INFRASTRUCTURE (FORMERLY 18TH & NORTHWESTERN PKWY STORAGE BASIN)	IOAP	CSO190	L_OR_MF_190_S_09B_B_A_8
CSO206 SEWER SEPARATION	IOAP	CSO206	L_MI_MF_206_S_08_A_A_0
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	104289	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28249	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28250	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28336	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28340	S_JT_JT_NB02_M_01_C

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DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28413	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28414	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28415	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28416	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28417	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28451	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28452	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28453	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	IOAP	28711	S_JT_JT_NB02_M_01_C
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22307	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22370	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	22385	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	32682	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	32688	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	59169	DEREK R GUTHRIE WQTC UPGRADES
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	MSD0277	DEREK R GUTHRIE WQTC UPGRADES
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	IOAP	20154-W	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	IOAP	20155	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	IOAP	MSD0095-PS	S_OR_MF_NB03_S_07_C
EAST ROCKFORD PS RELOCATION	IOAP	04699-W	S_MC_WC_NB02_S_03_C
EDEN CARE PS SSO INVESTIGATION	IOAP	MSD1105-PS	S_FF_FF_NB02_S_13_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	92098	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	92099	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	94009	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	IOAP	MSD1048-PS	S_PO_WC_PC11_M_07_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	64096	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	86052	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	92061	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD0196-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD0263	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD0263A-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	IOAP	MSD1043-PS	S_JT_JT_NB01A_M_03_C
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	116106	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	81316	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	97362	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	97363	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	IOAP	97365	S_FF_CC_81316_M_03_C_A
FAIRWAY VIEW PS IMPROVEMENTS	IOAP	MSD1065-PS	S_HC_HS_NB01_S_03_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108953	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108956	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108957	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	108958	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	90776	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	IOAP	MSD1086-PS	S_HC_HC_MSD1086_M_07_C_A



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FOX HARBOR IN-LINE STORAGE	IOAP	62769	S_HC_HN_NB03_S_09A_A_A
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	105936	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	117721	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	43472	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	46891	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	62418	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	62420	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	91629	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	91630	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	MSD0040-PS	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	IOAP	MSD1024-PS	S_MI_MF_NB04_M_03_B-1
GOVERNMENT CENTER PS ELIMINATION	IOAP	94541	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	IOAP	94542	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	IOAP	MSD0180-PS	S_PO_WC_PC06_M_01_C
GUNPOWDER PS IN-LINE STORAGE	IOAP	MSD1055-LS	S_HC_HN_NB02_S_09A_C_B
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	IOAP	55665	S_MC_MF_55665_S_07_C
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	IOAP	55667	S_MC_MF_55665_S_07_C
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	17571	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18134	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18297	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18298	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18299	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18302	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18318-W	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18370	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18434	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18471	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18483	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18505	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	18595	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	47960A	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	48885	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	48886	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	48888	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49224	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49236	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49672	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	49673	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	73111	HIKES LN INTER & HIGHGATE SPR
HIKES LANE-HIGHGATE SPRINGS PS	ISSDP	MSD0012-PS	HIKES LN INTER & HIGHGATE SPR
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	01793	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	47650	S_MI_MF_NB07_S_07_C

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HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	47656	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	IOAP	67535	S_MI_MF_NB07_S_07_C
IDLEWOOD IN-LINE STORAGE	IOAP	28984	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	28985	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	28998	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	63094	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	63095	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	IOAP	70158	S_CC_CC_70158_M_09A_C
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28173	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28390	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28391	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28392	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28395	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	28551	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	31733	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	64505	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	IS028-SI	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	IOAP	MSD0255	S_JT_JT_NB01_M_01_C_A
KAVANAUGH RD PS IMPROVEMENTS	IOAP	MSD1085-PS	S_HC_HC_MSD1085_S_03_A
KLONDIKE INTERCEPTOR	IOAP	20644	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	25676	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	26650	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	26651	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	49513	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	IOAP	66232	S_SD_MF_NB04_S_01_B_A
LAKE FOREST PS SSO INVESTIGATION	IOAP	MSD1169-LS	S_FF_LF_NB01_S_13_C_A
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	IOAP	25484	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	IOAP	93719	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	IOAP	MSD0101-PS	S_PO_WC_PC05_M_07_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	19360	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	19369	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29933	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29943	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29948	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	29949	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31073	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31074	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31083	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	31084	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	57874	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	61266	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	79076	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	MSD1010-PS	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	IOAP	MSD1200-PS	S_PO_WC_PC08_M_01_C
LELAND RD SSO INVESTIGATION	IOAP	96020	S_OR_MF_NB02_S_13_C
LEVEN PS ELIMINATION	IOAP	36419	S_PO_WC_PC10_M_01_C
LEVEN PS ELIMINATION	IOAP	MSD1019-PS	S_PO_WC_PC10_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	67997	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	67999	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	86423	S_CC_CC_67997_M_01_C



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LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	86424	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	89196	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	IOAP	89197	S_CC_CC_67997_M_01_C
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO091	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO097	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO106	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO110	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO111	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO113	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO137	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO146	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO148	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO149	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO151	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	IOAP	CSO152	L_SO_MF_092_M_09B_B_D_8
LUCAS LN PS IN-LINE STORAGE	IOAP	MSD0199-LS	S_FF_BT_NB01_S_09A_C_A
MEADOW STREAM PS & FM UPGRADE	IOAP	91087	S_HC_HC_MSD1082_S_09A_C
MEADOW STREAM PS & FM UPGRADE	IOAP	MSD1082-PS	S_HC_HC_MSD1082_S_09A_C
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	24152-W	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	24472	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	26752	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	41374	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	41416	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0006-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0007-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0010-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0023-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	IOAP	MSD0024-PS	S_OR_MF_NB01_M_01_B-1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	02932	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	02933	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	02935	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	08537	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	08935-SM	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	115183	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	115184	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	115185	S_MISF_MF_NB01_M_01_C_A1



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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	15194	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	15195	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	17618	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	23211	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	23212	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	24553	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	27005	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	27007	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	30376	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	40471	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	40559	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	43726	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45796	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45829	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45835	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	45900	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47034	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47582	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47583	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47593	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47596	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47603	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	47604	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	48864	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51160	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51161	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51180	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	51221	S_MISF_MF_NB01_M_01_C_A1



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MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	72288	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	72289	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	74513	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	84155	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	90700	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	96672	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	96673	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	IOAP	IS021A-SI	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 2 - PS DIVERSION AND STORAGE	IOAP	27012	S_MISF_MF_NB01_M_01_C_A1-2
MONTICELLO PS ELIMINATION	IOAP	27969	S_JT_JT_NB04_M_01_A
MONTICELLO PS ELIMINATION	IOAP	MSD0151-PS	S_JT_JT_NB04_M_01_A
MORRIS FORMAN WQTC HEADWORKS (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	IOAP	CSO211	L_OR_MF_211_M_13_B_A_8
NIGHTINGALE PS REPLACEMENT & STORAGE	IOAP	CSO018	L_SO_MF_018_S_03_A_A
NORTHERN DITCH DIVERSION INTER	ISSDP	MSD0271	NORTHERN DITCH DIVERSION INTER
PARKVIEW ESTATES I&I INVESTIGATION	IOAP	47250	S_SD_MF_NB03_S_07_C
PORTLAND CSO STORAGE BASIN	IOAP	CSO019	L_OR_MF_019_S_13_B_A_8
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	16455	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	22436	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40870	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40871	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40872	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40879	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	40880	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	42675	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	42680	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	46621	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	46623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	46627	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65606	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65610	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65633	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	65635	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	89646	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	89791	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0123-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0183-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0186-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0192-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0193-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0291	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD0292	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD1044-PS	S_OR_MF_NB04_M_03_B_B-1

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PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	IOAP	MSD1063-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	IOAP	89641	S_OR_MF_NB04_M_03_B_B-3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	IOAP	89790	S_OR_MF_NB04_M_03_B_B-3
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	IOAP	28729-W	S_JT_JT_NB03_M_01_C-1
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	IOAP	MSD0149-PS	S_JT_JT_NB03_M_01_C-1
RIDING RIDGE PS IMPROVEMENTS	IOAP	MSD1060-LS	S_HC_HN_NB01_S_03_C_A
RUNNING FOX PS ELIMINATION	IOAP	MSD1080-LS	S_CC_CC_MSD1080_S_01_C
SHAWNEE FPS DWO ELIMINATION	IOAP	MSD0309-FP	L_OR_MF_189_M_03_A_A
SHIVELY INTERCEPTOR	IOAP	04498	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	04542	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	81814-W	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0016-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0043-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0044-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0047-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0049-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	IOAP	MSD0050-PS	S_MC_WC_NB01_M_01_A
SINKING FORK INTERCEPTOR	IOAP	21103	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	IOAP	25012	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	IOAP	63319	SINKING FORK RELIEF SEWER
SONNE PS I&I INVESTIGATION & REHABILITATION	IOAP	MSD0042-PS	S_OR_MF_42007_S_07_C
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08426	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08427	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08430	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	08431	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	18654	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30680	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30681	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30701	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30702	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	30704	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	49647	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	63779	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	IOAP	72571-X	SOUTHEASTERN DIVERSION STRUCT
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	IOAP	CSO016	L_OR_MF_211_M_13_B_A_8__
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	IOAP	CSO210	L_OR_MF_211_M_13_B_A_8__
SOUTHWESTERN PKWY CSO BASIN	IOAP	CSO104	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	IOAP	CSO105	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	IOAP	CSO189X	L_OR_MF_105_M_13_B_A_0
ST RENE RD PS IN-LINE STORAGE	IOAP	94187	S_FF_CH_NB01_S_09A_C_A
SUTHERLAND INTERCEPTOR	IOAP	16649	S_SD_MF_NB05_M_01_A
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO022	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO023	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO050	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO051	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO052	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO053	L_OR_MF_155_M_09B_B_B_4



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WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO054	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO055	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO056	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO150	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	IOAP	CSO155	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO125	L_ML_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO126	L_ML_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO127	L_ML_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	IOAP	CSO166	L_ML_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO082	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO084	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO118	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO119	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO120	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO121	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO141	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	IOAP	CSO153	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY STORY & MAIN ST STORAGE BASIN)	IOAP	CSO020	L_OR_MF_020_S_09B_B_A_8
WOODLAND HILLS PS DIVERSION	IOAP	33003	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	IOAP	65516	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	IOAP	65531	S_FF_FF_NB01_S_01_C_A

**APPENDIX F**

**CSO FLOW MONITORING QUALITY IMPROVEMENT**



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**Table F-1. Phase 1 CSOs**

<b>CSO</b>	<b>FINAL SOP COMPLETED</b>	<b>HISTORICAL VOLUME REVISED</b>	<b>PROGRAMMING CHANGES COMPLETED</b>	<b>EQUIPMENT CHANGES COMPLETED</b>	<b>TESTING / VERIFICATION COMPLETED</b>
015	6/30/2017	6/30/2017	UNDER CONSTRUCTION	43862	UNDER CONSTRUCTION
016	7/1/2019	42916	7/30/2018	N/A	9/10/2018
018	43647	42916	9/13/2017	N/A	3/11/2019
020	43647	42916	9/21/2017	N/A	10/10/2017
036	43647	42916	8/23/2017	N/A	9/14/2017
054	43647	42916	9/8/2017	N/A	9/12/2017
058	43647	42916	3/4/2019	N/A	2/16/2019
088	6/30/2017	42916	8/23/2017	43636	43518
093	7/1/2019	42916	11/19/2018	N/A	1/1/2018
104	43647	42916	N/A	N/A	N/A
105	43647	42916	43896	43680	UNDER CONSTRUCTION
106	43647	42916	N/A	N/A	N/A
108	43647	42916	11/21/2017	10/17/2017	12/1/2018
109	43647	42916	43060	10/13/2017	10/8/2018
110	6/30/2017	42916	11/19/2018	UNDER CONSTRUCTION	4/5/2019
118	7/1/2019	42916	N/A	9/1/2017	9/12/2017
121	43647	42916	9/12/2017	10/13/2017	12/21/2017
125	43647	42916	9/8/2017	8/7/2017	9/8/2017
126	43647	42916	9/14/2017	9/1/2017	12/21/2017
127	43647	42916	N/A	N/A	N/A
130	43647	42916	8/16/2017	N/A	3/11/2019
132	43647	42916	43788	43867	UNDER CONSTRUCTION
140	43647	42916	11/21/2017	10/13/2017	3/16/2019
146	6/30/2017	42916	11/19/2018	UNDER CONSTRUCTION	3/12/2019
149	42916	42916	43423	UNDER CONSTRUCTION	3/12/2019
154	7/1/2019	42916	43468	43468	UNDER CONSTRUCTION
160	43647	42916	8/23/2017	9/20/2017	12/22/2017
166	43647	42916	9/12/2017	10/9/2017	12/21/2017
167	43647	42916	43788	43867	UNDER CONSTRUCTION
189	43647	42916	43896	43680	UNDER CONSTRUCTION
190	43647	42916	1/26/2018	N/A	1/26/2018
191	6/30/2017	42916	UNDER CONSTRUCTION	43862	UNDER CONSTRUCTION
206	7/1/2019	42916	N/A	11/22/2017	12/6/2017
210	43647	42916	1/23/2019	N/A	1/23/2019
211	43647	42916	8/16/2017	N/A	3/1/2019

**Table F-2. Phase 2 CSOs**

<b>CSO</b>	<b>FINAL SOP COMPLETED</b>	<b>HISTORICAL VOLUME REVISED</b>	<b>PROGRAMMING CHANGES COMPLETED</b>	<b>EQUIPMENT CHANGES COMPLETED</b>	<b>TESTING / VERIFICATION COMPLETED</b>
019	6/28/2019	COMPLETED	43770	43770	STARTED
022	43644	COMPLETED	12/17/2018	N/A	COMPLETED
023	43644	COMPLETED	43451	N/A	COMPLETED
027	43644	COMPLETED	1/14/2019	6/6/2019	COMPLETED
028	43644	COMPLETED	5/3/2019	2/4/2019	COMPLETED
029	43644	COMPLETED	43588	3/22/2019	COMPLETED
031	43644	COMPLETED	3/11/2019	2/24/2019	COMPLETED
034	43644	COMPLETED	5/3/2019	2/5/2019	COMPLETED
035	43644	N/A	4/12/2019	4/12/2019	STARTED
038	43644	COMPLETED	4/22/2019	N/A	COMPLETED
050	43644	COMPLETED	6/12/2018	N/A	COMPLETED
051	43644	N/A	43263	N/A	COMPLETED
052	43644	COMPLETED	3/25/2019	3/22/2019	COMPLETED
053	43644	COMPLETED	6/20/2018	N/A	COMPLETED
055	43644	COMPLETED	6/18/2018	N/A	COMPLETED
056	43644	N/A	10/24/2017	10/24/2017	COMPLETED
057	43644	N/A	6/12/2018	N/A	COMPLETED
062	43644	N/A	4/17/2019	3/16/2019	COMPLETED
082	43644	COMPLETED	6/26/2018	N/A	COMPLETED
083	43644	COMPLETED	43277	N/A	COMPLETED
084	43644	COMPLETED	6/27/2018	4/9/2019	COMPLETED
091	STARTED	COMPLETED	12/21/2018	11/19/2018	STARTED
092	6/28/2019	COMPLETED	6/20/2018	N/A	COMPLETED
097	STARTED	COMPLETED	1/7/2019	1/1/2018	STARTED
111	STARTED	COMPLETED	3/12/2019	43101	STARTED
113	STARTED	COMPLETED	12/21/2018	11/19/2018	STARTED
117	STARTED	COMPLETED	43455	43423	STARTED
119	6/28/2019	COMPLETED	6/26/2018	N/A	COMPLETED
120	43644	COMPLETED	43277	N/A	COMPLETED
131	43644	N/A	10/2/2018	10/2/2018	COMPLETED
137	STARTED	COMPLETED	12/21/2018	(blank)	COMPLETED
141	6/28/2019	N/A	5/30/2018	5/30/2018	COMPLETED
144	43644	COMPLETED	6/26/2018	8/6/2018	COMPLETED
148	STARTED	COMPLETED	3/12/2019	1/1/2018	STARTED
150	6/28/2019	N/A	6/12/2018	N/A	COMPLETED
151	STARTED	COMPLETED	3/12/2019	1/1/2018	STARTED
152	STARTED	COMPLETED	43536	43101	STARTED
153	6/28/2019	COMPLETED	6/26/2018	N/A	COMPLETED
155	43644	COMPLETED	6/12/2018	N/A	COMPLETED
161	43644	N/A	43263	N/A	COMPLETED
172	43644	N/A	1/1/2018	1/1/2018	COMPLETED
178	43644	COMPLETED	4/17/2019	3/16/2019	COMPLETED
179	STARTED	COMPLETED	UNDER CONSTRUCTION	1/1/2018	STARTED
181	6/28/2019	COMPLETED	4/17/2019	3/16/2019	COMPLETED
193	43644	COMPLETED	6/20/2018	N/A	COMPLETED
195	43644	COMPLETED	6/22/2018	N/A	COMPLETED
196	43644	COMPLETED	43273	N/A	COMPLETED



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**Table F-2. Phase 2 CSOs**

<b>CSO</b>	<b>FINAL SOP COMPLETED</b>	<b>HISTORICAL VOLUME REVISED</b>	<b>PROGRAMMING CHANGES COMPLETED</b>	<b>EQUIPMENT CHANGES COMPLETED</b>	<b>TESTING / VERIFICATION COMPLETED</b>
197	43644	COMPLETED	4/9/2019	8/14/2019	COMPLETED
198	43644	COMPLETED	6/26/2018	10/4/2018	COMPLETED
199	43644	COMPLETED	6/18/2018	N/A	COMPLETED
200	43644	COMPLETED	12/12/2018	12/12/2018	COMPLETED
201	43644	COMPLETED	6/22/2018	5/31/2019	COMPLETED
202	43644	COMPLETED	6/15/2018	N/A	COMPLETED
203	43644	COMPLETED	43266	N/A	COMPLETED
207	43644	COMPLETED	6/22/2018	N/A	COMPLETED
208	43644	COMPLETED	6/25/2018	5/22/2019	COMPLETED
SBR 142	43644	COMPLETED	6/8/2018	N/A	COMPLETED
SBR 174	43644	COMPLETED	43259	N/A	COMPLETED
SBR 180	43644	COMPLETED	43259	12/7/2018	COMPLETED
SBR 182	43644	COMPLETED	43259	N/A	COMPLETED
SBR 183	43644	COMPLETED	6/4/2018	N/A	COMPLETED
SBR 184	43644	COMPLETED	43255	N/A	COMPLETED
SBR 185	43644	COMPLETED	43255	N/A	COMPLETED
SBR 186	43644	COMPLETED	6/8/2018	N/A	COMPLETED
SBR 187	43644	COMPLETED	43259	N/A	COMPLETED
SBR 188	43644	COMPLETED	43259	12/7/2018	COMPLETED
SBR 205	43644	COMPLETED	43259	N/A	COMPLETED

