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January 30, 2021

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Subject: Quarterly Report 61
Civil Action No. 3:08-cv-00608-CRS

Attention Director and Chiefs:

Please find attached our Quarterly Report, prepared in accordance with Paragraph 29 of our Amended Consent Decree. This report is for the period October 1, 2020 – December 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 Strategy Officer for Business Transformation and Regulatory Compliance

cc: James A. Parrott
Jacquelyn Quarles
File

Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #61



Reporting Period:

October 1, 2020 through December 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:

January 30, 2021



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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 Sixty-first Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from October 1, 2020, through December 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.



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

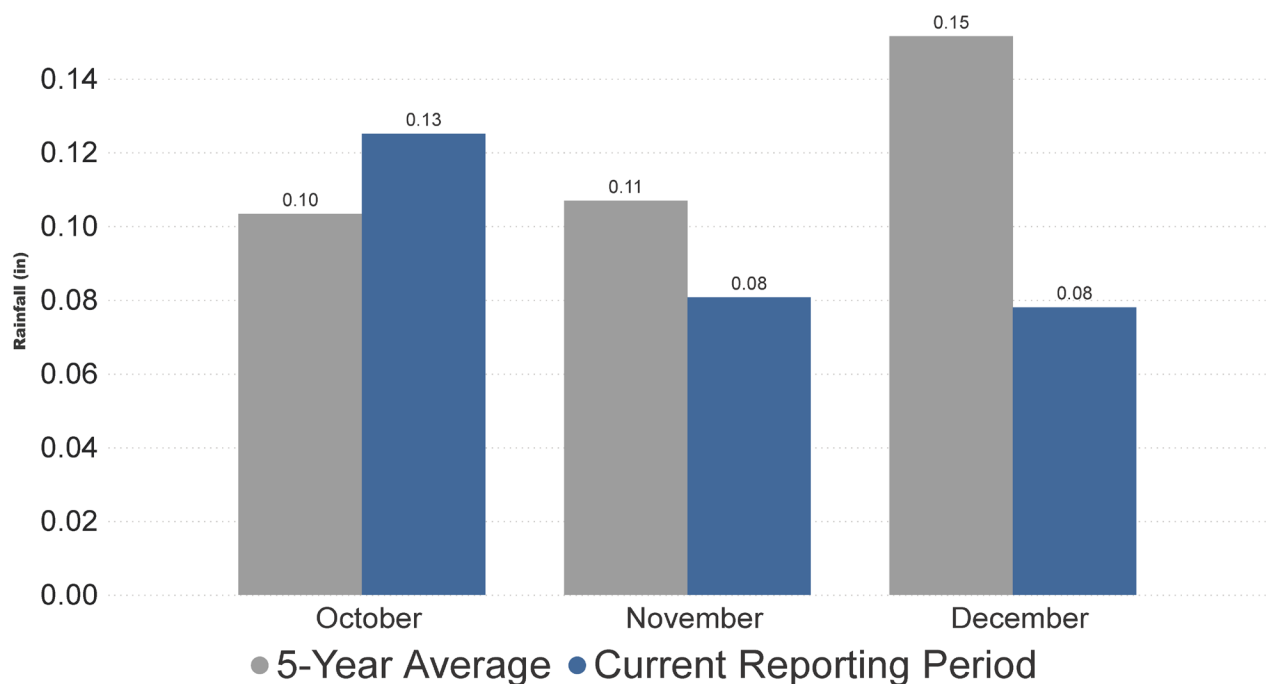
Refer to Section 4.4.2 for CSO LTCP project updates.

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 October and below average for November and December when compared with the previous 5-year average for these months.

Figure 1.1. Daily Average Rainfall by Month



1.3. WATER QUALITY TREATMENT CENTER PERFORMANCE

1.3.1. BYPASSES

There were zero bypass events 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.

1.5. 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, 30 unauthorized discharges to WUS were reported, as summarized in Table 1.1.

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

PROBLEM	DRY WEATHER	WET WEATHER
LACK OF SYSTEM CAPACITY	0	26
OBSTRUCTION-NOT GREASE / ROOTS	1	0
STRUCTURAL FAILURE	2	0
MECHANICAL FAILURE	1	0

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 improved 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 1.2 through Figure 1.4.

Targets, indicated by a blue line on the gauges in Figure 1.2 and Figure 1.3 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 1.4 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 1.2. Catch Basin Cleaning

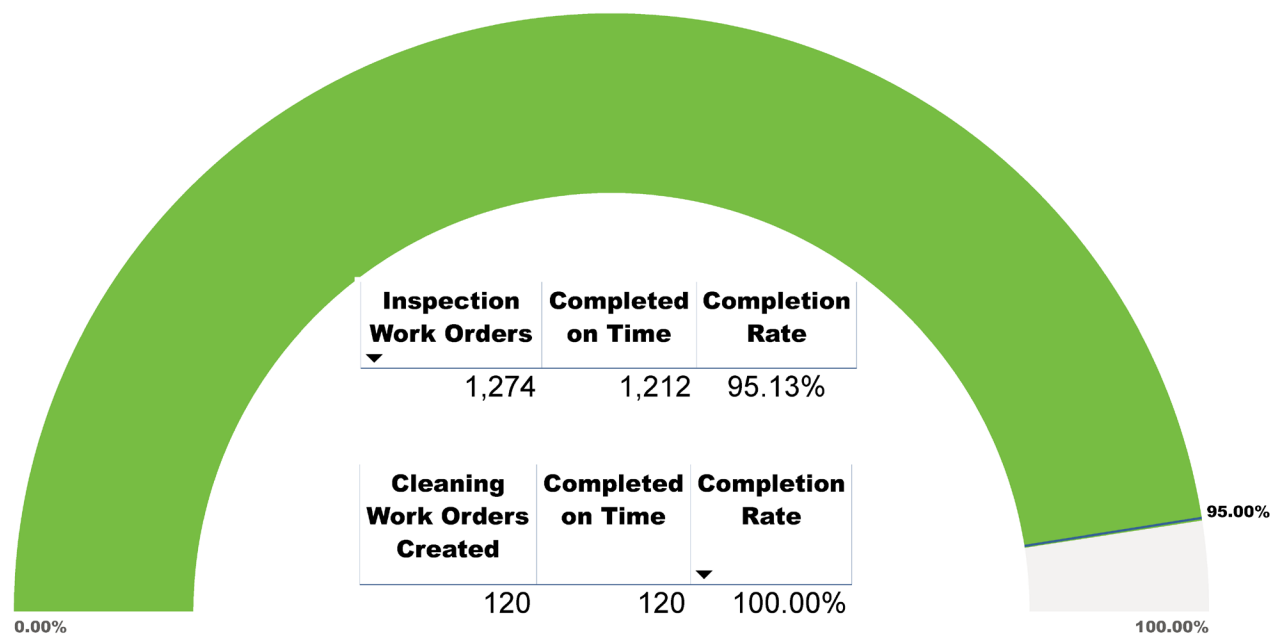


Figure 1.3. CSO Inspections and Cleaning

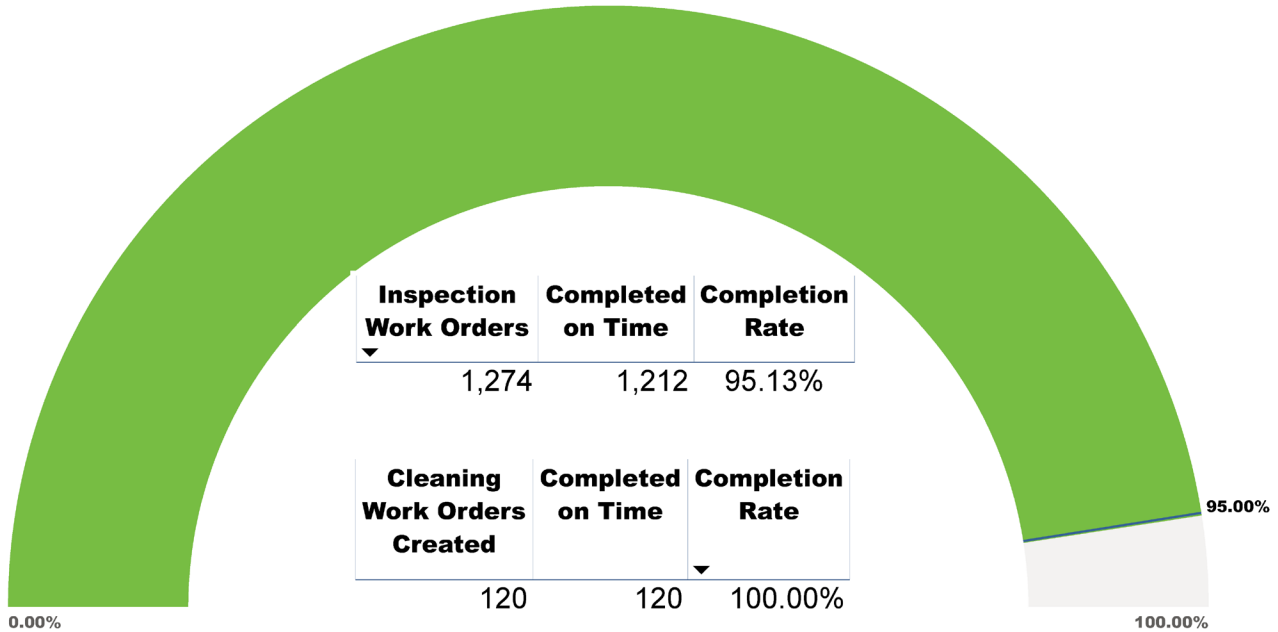
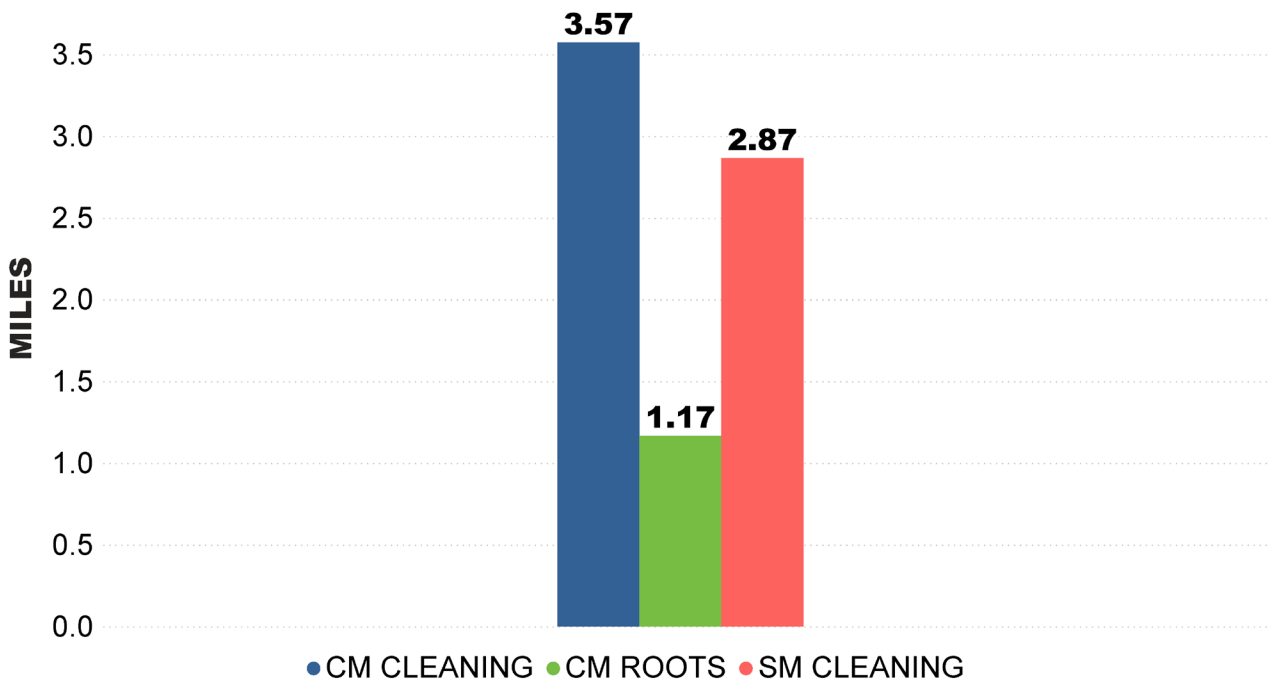


Figure 1.4. Gravity Main Cleaning



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. 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 916 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 at the end of this section for a detailed report.

The following identifies on-going activities; those completed during the current period; and those anticipated to be completed during the next period:

RTC Integration

- Continued 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.
- Continued 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.
- Continued 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.
- Began updates to the master RTC SOP manual based on comments received and continue preparation of the Rowan Pump Station SOP.
- Prepared a detailed RTC startup guide for the Portland CSO Basin and prepared Csoft 4 for the integration of the Portland CSO Basin. The RTC consultant worked remotely with MSD to implement the startup procedures to incorporate the basin into the RTC system.

During the next reporting period, MSD will:

- Continue implementing RTC SOPs and validating operations.
- Develop a plan to remotely integrate the Logan CSO Interceptor instrumentation into the RTC system and complete the startup and integration of the Portland CSO Basin into RTC.
- Continue preparing the Rowan Pump Station SOP in advance of integrating the facility into RTC.
- Continue developing the 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.
- Begin development of an RTC flood mode for facilities along the Ohio River influenced by high river levels.

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.

- Identified instances when the flush cycle at the Southwestern Parkway CSO Basin interfered with the filling process. MSD has initiated action to identify the cause and required adjustments to the programming.
- Revised the Csoft configuration for the Southern Outfall Retention Facility (SOR1) to maintain a constant downstream level at the MDS inflatable gate independent of other gate movements at the MDS facility, and increased the gate deadband to reduce gate movements and improve stability of downstream levels and flow to the Morris Forman WQTC.
- Revised tag transfer protocols for a portion of the RTC data to bypass iFix and directly gather data from MSD's Industrial Gateway Server OLE for Process Control server to improve reliability of the tag data transfer process.

During the next reporting period, 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.
- Continue to refine the local site tuning of RTC facilities as needed based on performance during varying rain events.
- Continue to improve and automate operations of the facilities integrated into the system.
- Continue development of the Hydroweb dashboard.

2.3. NMC 4: MAXIMIZATION OF FLOW AT THE MORRIS FORMAN WATER QUALITY TREATMENT CENTER

Plant Outage

The East and West Headworks were in service during the reporting period. Channels were taken out of service due to low flow as appropriate. The Final Effluent Pump Station (FEPS) was in service 6 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 wet weather. Flows are shown in Figure 2.1 through Figure 2.3.

Morris Forman WQTC Projects

- MFWQTC Biosolids Management Solutions – The Request for Proposals is expected to be released during the next reporting period.
- MFWQTC Primary Sludge Line Replacement Project – The project was completed during the last reporting period.
- MFWQTC Cake Pump, Phase II – Construction was completed during the reporting period except for demonstration testing and training and punch list items. Demonstration and training were postponed until the next reporting period due to operational problems with existing centrifuges. The project also impacted by COVID travel restrictions.
- MFWQTC Sedimentation Basin Rehabilitation – Design on the project is underway.

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

EVENT NUMBER	START DATE	END DATE	DURATION (H:MIN)	AVG TRFD (IN) 1	MAX TRFD (IN) 2	MAX RAIN GAUGE	TOTAL, (MG)	BELLS LANE (MG)	SWPS SG CHAMBER (14.25 MG)	SWOR2 (4.1 MG)	BL AND EI STORAGE (21.5 MG)	ASHLAND GATE (1.0 MG)	OHIO RIVER INTERCEPTOR (1.8 MG)	SOR1 (14.05 MG) 3	SOBA BASIN (20 MG)	SOBA WO (0.94 MG) 4	SOBA NWI (3.87 MG) 5	CLIFTON (6.9 MG)	LOGAN (17.0 MG)	SNEADS BRANCH (2.5 MG)	NGPS (8.0 MG)	NDDV (MG)	HIGH RIVER LEVELS	DESCRIPTION
2020-077	2020-10-18 11:35 PM	2020-10-21 11:35 AM	60:00	1.40	1.88	TR15	196.84	49.54	20.75	4.15	26.15	0.95	2.35	30.45	1.55	0.15	0.30	4.05	10.65	0.15	0.70	44.95	No	Very large wet weather event homogeneously distributed across the collection system. Problem with SOBA basin filling. Even if the SOBA basin was in GOP, gates controlling inflows to the basin junction structure (G4 and G87) remained closed and as a result did not fill the basin during the event.
2020-078	2020-10-21 11:35 AM	2020-10-23 01:25 PM	49:50	0.02	0.02	TR14	36.96	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	4.05	8.30	0.20	0.00	24.16	No	Small wet weather event heterogeneously distributed across the collection system.
2020-079	2020-10-23 01:25 PM	2020-10-29 02:50 AM	133:25	1.34	2.23	TR14	104.34	15.24	3.15	0.65	1.70	0.00	1.45	3.25	0.00	0.00	0.00	0.55	1.20	0.50	0.00	76.65	No	Moderate wet weather event homogeneously distributed across the collection system. Problem with SOBA basin filling. Even if the SOBA basin was in GOP, gates controlling inflows to the basin junction structure (G4 and G87) remained closed and as a result did not fill the basin during the event.
2020-080	2020-10-29 02:50 AM	2020-11-02 09:00 PM	115:10	1.79	3.96	TR04	393.43	103.89	17.50	5.85	25.35	1.20	1.50	15.35	19.95	0.00	1.55	8.50	17.20	1.05	1.05	173.49	No	Very large wet weather event heterogeneously distributed across the collection system. SOBA basin filled, as SG4 and SG87 opened during the event, although they did not open as soon as the control level at each diversion structures reached 431ft because the Basin_mode was = 4 (WW flush). Also, the site operating mode should have changed to 60 because both flowmeters FIT-820 and FIT-830 are invalid.
2020-083	2020-11-15 02:55 AM	2020-11-15 05:10 PM	14:15	0.51	0.72	TR11	38.57	12.79	2.40	0.75	3.80	0.00	1.10	3.15	3.25	0.60	0.65	0.45	2.45	0.15	0.05	6.98	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA : Same as noted for 2020-080 event, which is that at the beginning of the event, the basin_mode = 4 (WW flush) and it is preventing gates SG4 and SG87 to open and fill basin as soon as the control levels in diversion structures are reached. Also, the site operating mode should had changed to 60 because both flowmeters FIT-820 and FIT-830 are invalid. It also seems that because of the FIT-820 invalidity and constant measured value, SG3 is always opened to 100% and do not control and maintain the sent setpoint. Although, SG7 seems to control and maintain the sent setpoint despite the FIT-830 invalidity.
2020-085	2020-11-25 02:35 AM	2020-11-27 03:10 AM	48:35	0.84	1.00	TR04	87.58	20.18	1.45	1.10	2.95	0.00	1.40	15.20	9.10	1.25	0.00	2.05	8.50	0.10	0.20	24.10	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA : Same issue as during event 2020-083.

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

EVENT NUMBER	START DATE	END DATE	DURATION (H:MIN)	AVG TRFD (IN) 1	MAX TRFD (IN) 2	MAX RAIN GAUGE	TOTAL, (MG)	BELLS LANE (MG)	SWPS SG CHAMBER (14.25 MG)	SWOR2 (4.1 MG)	BL AND EI STORAGE (21.5 MG)	ASHLAND GATE (1.0 MG)	OHIO RIVER INTERCEPTOR (1.8 MG)	SOR1 (14.05 MG) 3	SOBA BASIN (20 MG)	SOBA WO (0.94 MG) 4	SOBA NWI (3.87 MG) 5	CLIFTON (6.9 MG)	LOGAN (17.0 MG)	SNEADS BRANCH (2.5 MG)	NGPS (8.0 MG)	NDDV (MG)	HIGH RIVER LEVELS	DESCRIPTION
2020-086	2020-11-29 09:20 PM	2020-11-30 09:30 PM	24:10	0.69	0.84	TR11	27.80	4.85	0.10	0.35	1.65	0.05	1.05	0.00	0.40	0.20	0.00	0.00	0.95	0.05	0.00	18.15	No	Moderate wet weather event homogeneously distributed across the collection system. SOBA : Same issue as during event 2020-083.
2020-089	2020-12-16 04:10 AM	2020-12-16 06:05 PM	13:55	0.30	0.36	TR14	11.71	0.00	0.00	0.40	0.20	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.21	No	Small wet weather event homogeneously distributed across the collection system.
2020-091	2020-12-23 09:15 PM	2020-12-24 10:00 AM	12:45	0.31	0.38	TR11	18.34	3.26	0.00	0.50	2.05	0.00	1.00	0.20	1.25	0.90	0.00	0.25	0.55	0.00	0.00	8.38	No	Small wet weather event homogeneously distributed across the collection system.
Total							915.57	209.75	45.35	13.75	63.85	2.20	11.00	67.60	35.50	3.10	2.50	19.90	49.80	2.20	2.00	387.07		9

- MFWQTC Groundwater Study – The study was underway during this reporting period.
- MFWQTC Hypochlorite Building Relocation – The project is currently in the design phase.
- MFWQTC Dryer Demolition - Installation of new equipment began during the reporting period.
- MFWQTC Chiller Replacement – Project was bid and awarded during the reporting period. Construction is anticipated to start in during the next reporting period.
- MFWQTC Headworks and Dumpster Building Structural and Blower Building Stairs – The project was bid and awarded during the reporting period. Construction is anticipated to start in during the next reporting period.
- MFWQTC Sewer and Manhole Condition Assessment – The project was bid and awarded during the reporting period. Construction is anticipated to start in during the next reporting period.
- MFWQTC Radio Repeater – Design is underway with specific details resolved as a result of workshop the reporting period. Design is anticipated to be completed next reporting period.

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. Graphical issues with the report this reporting period show instances with CSO activations and secondary bypass flow but no rainfall; however each of these instances has been confirmed to have been during wet weather, and MSD is working with the vendor to address the issue.

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.

2.4. 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.

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

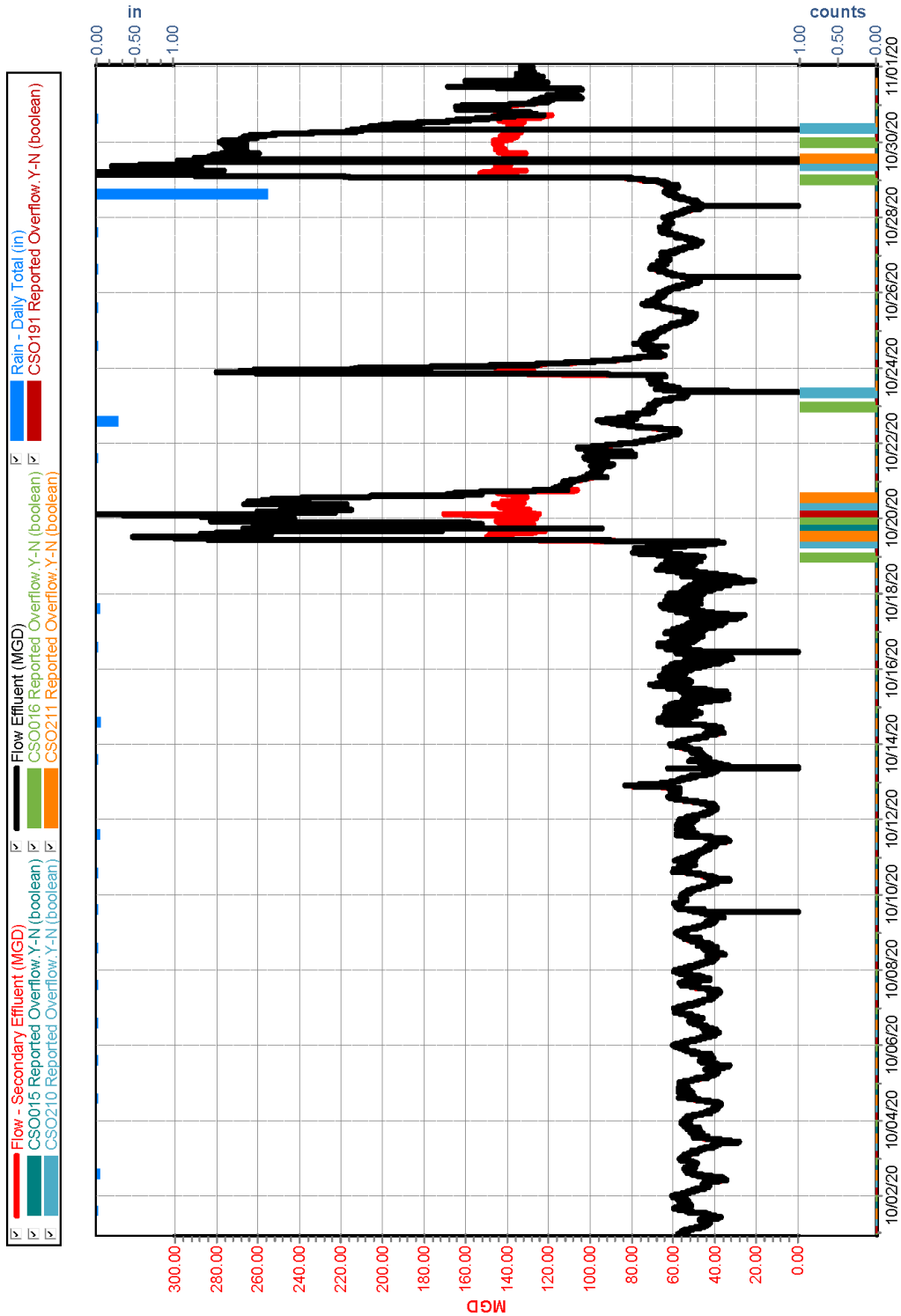


Figure 2.2. Morris Forman WQTC - Plant Flows and Associated CSO Activations - November

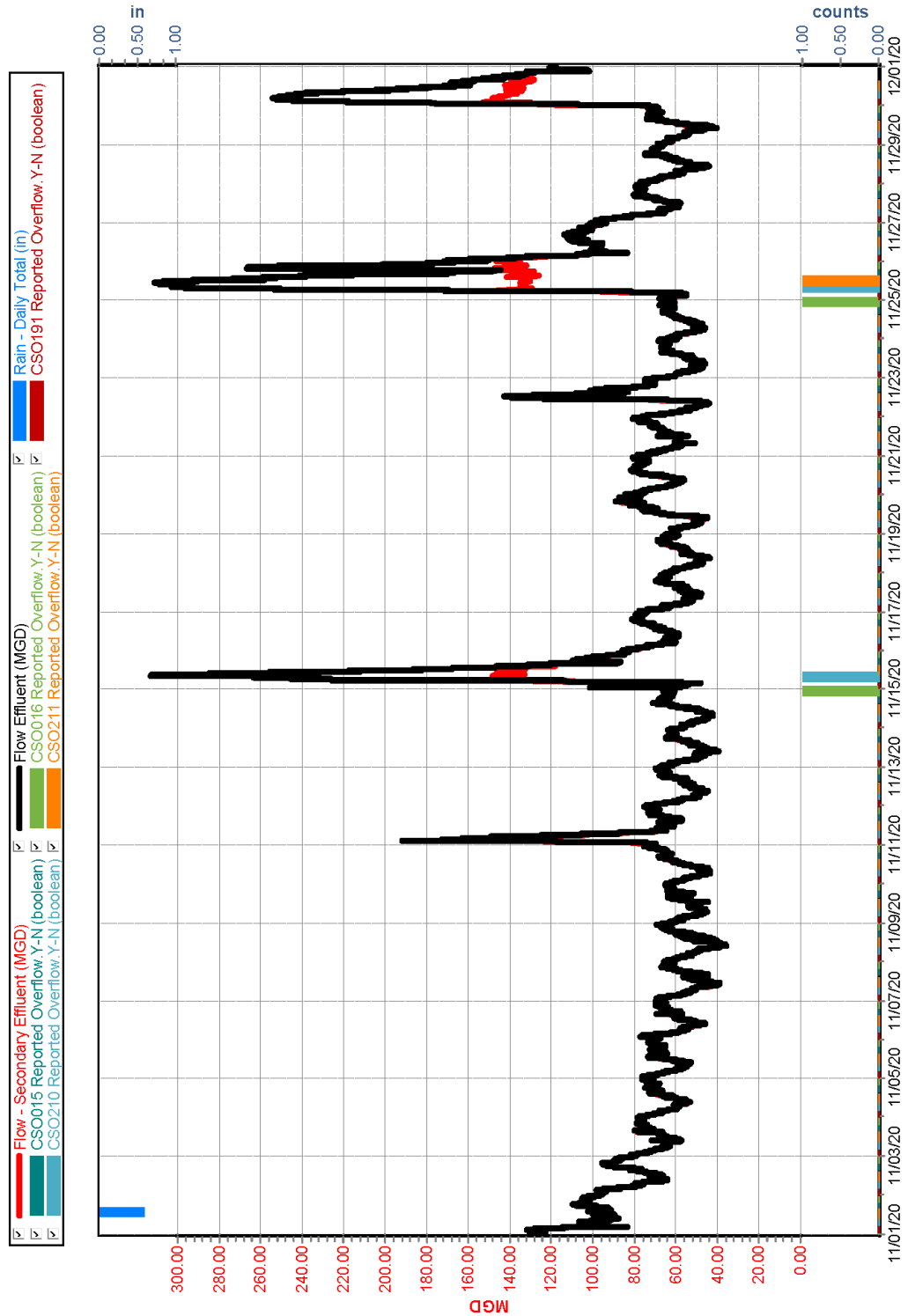


Figure 2.3. Morris Forman WQTC - Plant Flows and Associated CSO Activations - December

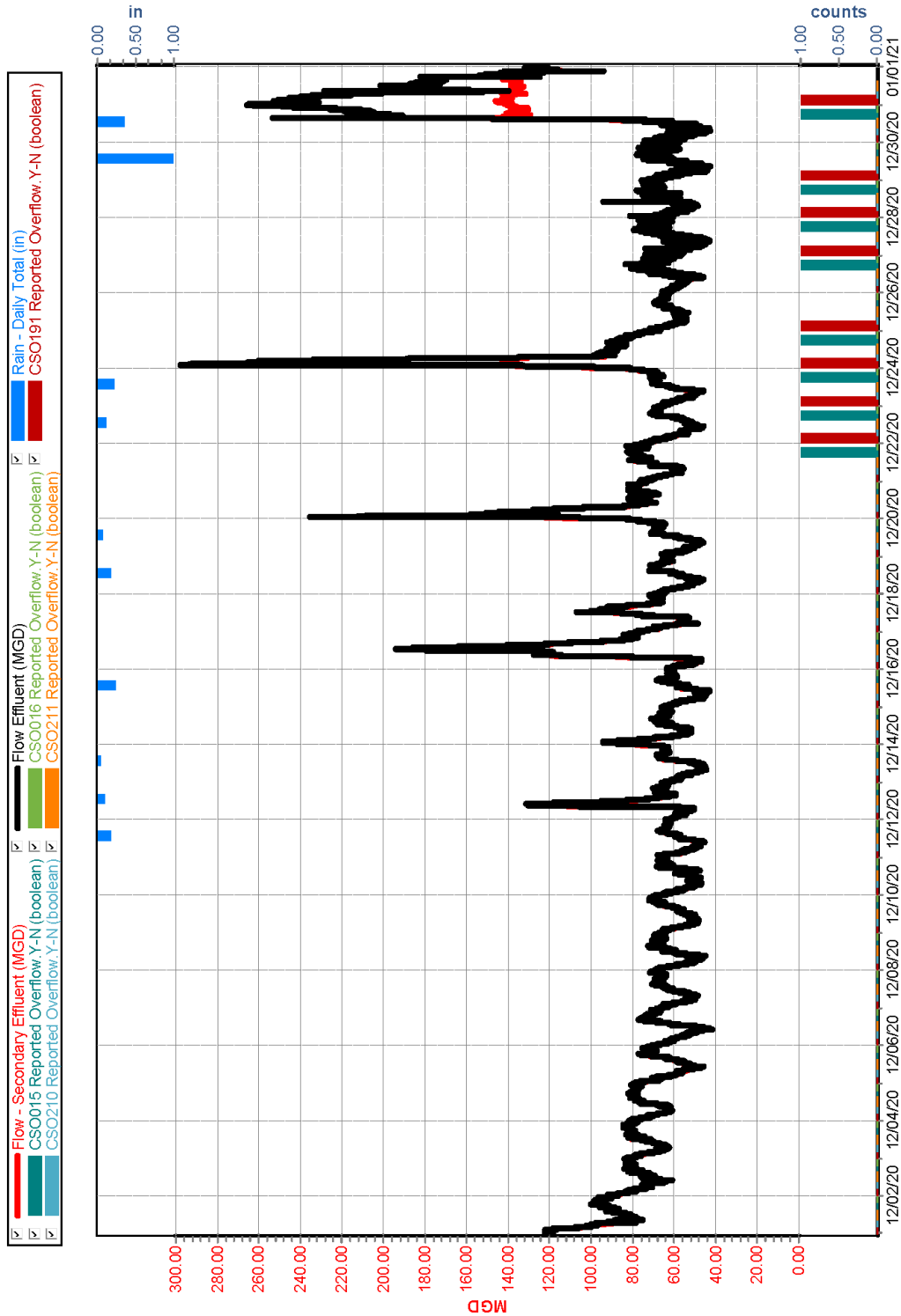


Table 2.2. Morris Forman WQTC Permit Compliance

PARAMETER	OCTOBER	NOVEMBER	DECEMBER
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	Ⓢ	Ⓢ	Ⓢ
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

Budget ID	Task Name	% Complete	Start	Finish	4th Quarter			1st Quarter			
					Oct	Nov	Dec	Jan	Feb	Mar	
	MSD NMC Annual Commitments Schedule										
A19208	Broadway Interceptor Infrastructure Rehabilitation	58%	Fri 8/15/14	Wed 5/26/27							
A19208	INITIATION & PROCUREMENT	12%	Fri 10/2/20	Tue 8/30/22							
A19208	CONSTRUCTION	100%	Fri 10/2/20	Fri 10/2/20							
A20244	Large Diameter Sewer Rehabilitation	33%	Fri 10/2/20	Wed 6/30/21							
A20244	DESIGN	11%	Mon 9/16/19	Thu 9/28/23							
D15020	MFWQTC Cake Pump Phase II	37%	Wed 8/19/20	Wed 8/18/21							
D15020	CONSTRUCTION	63%	Mon 3/12/18	Thu 3/31/22							
D15020	CLOSEOUT	94%	Fri 11/1/19	Fri 1/29/21							
D17042	MFWQTC Sedimentation Basin RR	0%	Sat 1/30/21	Thu 3/31/22							
D17042	DESIGN	19%	Tue 5/21/19	Tue 6/30/26							
D18116	MFWQTC Biosolids Facility Replacement FY21	55%	Fri 1/31/20	Wed 9/29/21							
D18116	INITIATION & PROCUREMENT	2%	Wed 9/2/20	Wed 5/26/27							
D18116	DESIGN	100%	Wed 9/2/20	Fri 10/2/20							
D18116	CONSTRUCTION	14%	Tue 12/1/20	Wed 6/30/21							
D18118	MFWQTC Truck Unloading Station Pavement Repair	76%	Fri 4/27/18	Tue 5/11/21							
D18118	CLOSEOUT	64%	Mon 5/11/20	Tue 5/11/21							
D18130	MFWQTC FEPS Loadcenter and MCC Replacement	14%	Wed 7/1/20	Thu 6/20/24							
D18130	INITIATION & PROCUREMENT	100%	Wed 7/1/20	Fri 10/30/20							
D18130	DESIGN	30%	Sat 10/17/20	Mon 6/14/21							
D18453	FY21 MFWQTC Equipment RR	50%	Wed 7/1/20	Wed 6/30/21							
D18453	INITIATION & PROCUREMENT	53%	Wed 7/1/20	Tue 6/15/21							
D19045	MFWQTC Sodium Hypochlorite Building Relocation	8%	Tue 6/4/19	Sun 12/31/23							
D19045	DESIGN	18%	Mon 2/17/20	Wed 9/29/21							
D19048	MFWQTC Radio Repeater Project	7%	Mon 7/2/18	Mon 3/13/23							
D19048	INITIATION & PROCUREMENT	100%	Mon 7/2/18	Thu 11/5/20							
D19048	DESIGN	29%	Thu 11/5/20	Tue 4/27/21							
D19227	MFWQTC Primary Sludge Line Replacement	84%	Sun 7/1/18	Mon 5/31/21							
D19227	CLOSEOUT	55%	Tue 6/30/20	Mon 5/31/21							
D19275	MDS Downstream Flow Meter	69%	Tue 1/1/19	Sat 9/4/21							
D19275	CLOSEOUT	33%	Fri 9/4/20	Sat 9/4/21							

Data Date: 12/31/20

NMC Project

Project Progress

Percent complete is calculated based on phase duration.

Figure 2.4. NMC Quarterly Commitments Schedule

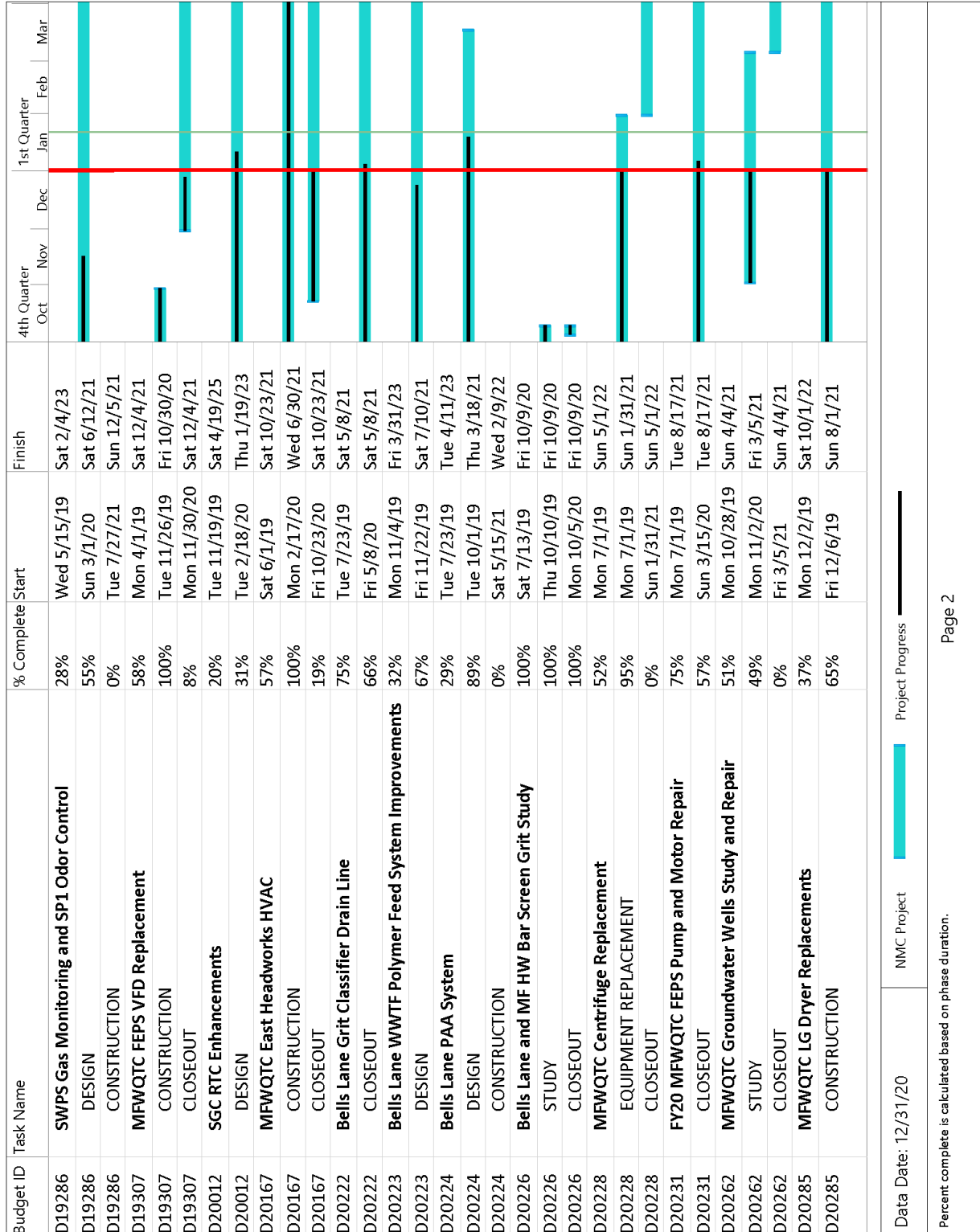


Figure 2.4. NMC Quarterly Commitments Schedule

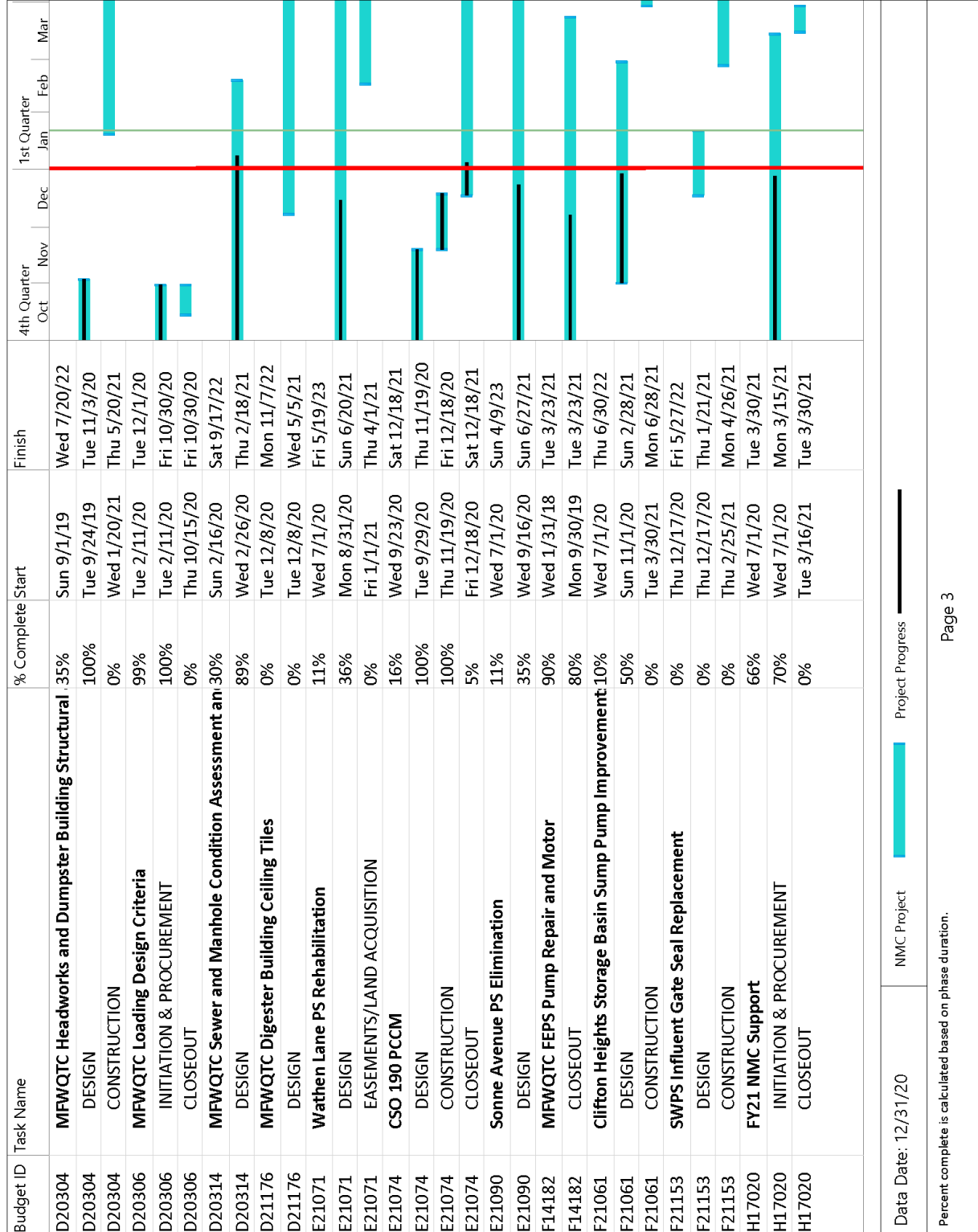


Figure 2.4. NMC Quarterly Commitments Schedule

Budget ID	Task Name	% Complete	Start	Finish	4th Quarter Oct	Nov	Dec	1st Quarter Jan	Feb	Mar
H18443	FY21 NMC_RTC	43%	Wed 7/1/20	Wed 6/30/21						
H18443	INITIATION & PROCUREMENT	53%	Wed 7/1/20	Tue 6/15/21						
H20048	FY21 NMC CSO Inspection Cameras	50%	Wed 7/1/20	Wed 6/30/21						
H20048	INITIATION & PROCUREMENT	53%	Wed 7/1/20	Tue 6/15/21						
H20153	SWPS Flood Repair	62%	Tue 6/4/19	Mon 11/1/21						
H20153	CLOSEOUT	33%	Wed 9/2/20	Mon 11/1/21						

Data Date: 12/31/20	NMC Project	Project Progress
Percent complete is calculated based on phase duration.		



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, resubmitted on May 12, 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. 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, 33 unauthorized discharges were identified through route reconnaissance. During this period, 9 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 235,220 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

PROBLEM	OCTOBER	NOVEMBER	DECEMBER
LACK OF SYSTEM CAPACITY	235,220	0	0
STRUCTURAL FAILURE	0	40,000	57,000

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.

Forth quarter training utilizes the online format, and included modules under Reporting & Follow-up:

- Reporting Basics
- IPS Reporting
- Regulatory Reporting & Data Quality
- Paper-Based & Contingency Reporting
- Updates

The quarterly training was delivered to 270 staff in Operations and Engineering.

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

- SORP Overview
- SORP Process
- Monitoring and Mobilization
- 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.

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.msdpjprojectwin.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.

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.

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. 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.

4.3.3. GREEN INFRASTRUCTURE PROGRAM

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, three CSO LTCP projects were due to be completed during the current reporting period as shown in Table 4.1. The Waterway Protection Tunnel project was due to be completed December 31, 2020. MSD is currently in negotiations with EPA and KDEP to extend the certified completion date of this project. There are no projects anticipated to be completed or certified during the next reporting period.

4.4.3. ACTIVITY PROGRESS CHART

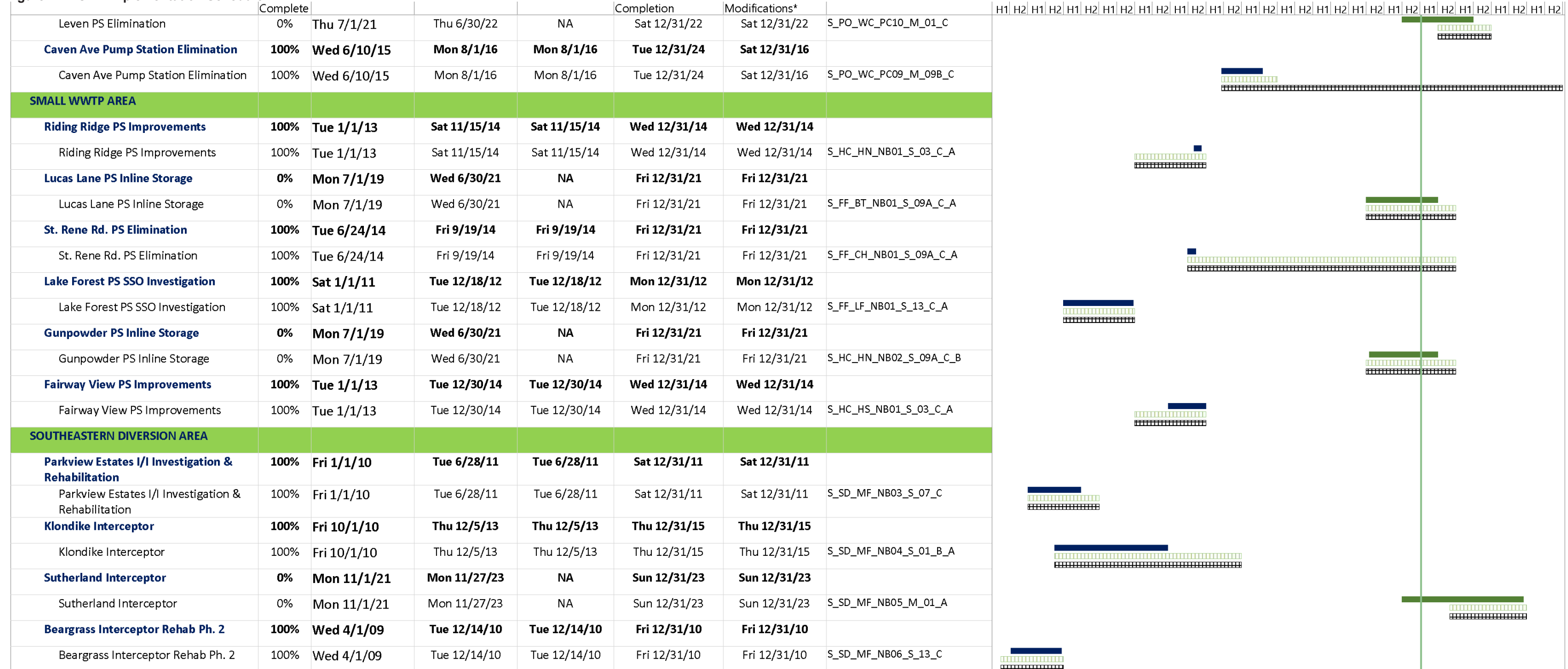
A Gantt chart showing the 2012 IOAP Modification project schedules and subsequent approved minor modifications for the entire program is provided in Figure 4.1. Refer to IOAP, Volume 1 – Figure 6.3.1 for the previous chart. MSD is currently in negotiations with EPA and KDEP to extend the certified completion date of multiple projects. A crosswalk of projects and associated overflows is provided in Appendix E.

Table 4.1. IOAP Project Required Completion Dates - CSO LTCP

PROJECT NAME	ACD PROJECT NUMBER	ACD DATE	CERTIFIED COMPLETION DATE
WATERWAY PROTECTION TUNNEL (FORMERLY STORY & MAIN ST STORAGE BASIN)	L_OR_MF_020_S_09B_B_A_8	December 31, 2020 ¹	Under Construction
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ ROWAN ST STORAGE BASIN)	L_OR_MF_155_M_09B_B_B_4	December 31, 2020 ¹	Under Construction
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	L_MI_MF_127_M_09B_B_A_8	December 31, 2020 ¹	Under Construction
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	L_SO_MF_083_M_09B_B_A_8	December 31, 2020 ¹	Under Construction
¹ MSD is currently in negotiations with EPA and KDEP to extend the certified completion date of this project to June 30, 2022.			



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.

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 MSD's vital services, initiatives, consent decree projects and more.

Paid advertising is utilized in local papers—Business First and the Courier Journal—to inform and educate the public about MSD's consent decree projects and MS4 initiatives. MSD 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. MSD also added a digital campaign to augment the print ads, reaching more than 831,000. The digital on-line 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 MSD's website — www.LouisvilleMSD.org — are important methods to reach and educate the public. MSD is 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.

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 www.msdpowerwin.org/public-input.

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

Table 5.1. Metro TV Broadcasts

DATE	PROGRAM TITLE	ORIGINAL MEETING DATE
10/5/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
10/12/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
10/14/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
10/15/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
10/19/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
10/20/2020	Portland CSO Basin: Conceptual Design Meeting	6/14/2016
10/26/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
10/30/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
11/4/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
11/7/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
11/9/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
11/14/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
11/16/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
11/21/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
11/23/2020	Southwestern Parkway CSO Basin: Construction Meeting	4/18/2017
11/25/2020	Ohio River Tunnel: Construction Meeting	1/10/2018
11/27/2020	Ohio River Tunnel: Construction Meeting	1/10/2018

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.

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.

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.

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 the 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. Startup of the dewatering system occurred this reporting period and is expected to be completed next reporting period.

6.3.2. FLOYDS FORK WATER QUALITY TREATMENT CENTER

No major project occurred during the reporting period.

6.3.3. DEREK R. GUTHRIE WATER QUALITY TREATMENT CENTER

The Dewatering Project is underway. Construction of the Phase 2 system is used for dewatering. Construction of the Phase 3 building is underway.

The Clarifier Grout Repair and Gate Replacement project continued in construction during this reporting period.

The Admin Building and RAS Building HVAC project was in construction during the reporting period.

The RAS Electrical Modifications project was in construction during the reporting period.

A Paving project was in construction during the reporting period.

A flow meter and isolation valve was added to the pipe header under the Return Activated Sludge Pump Station project.

6.3.4. CEDAR CREEK WATER QUALITY TREATMENT CENTER

The Sodium Aluminate Building project was awarded for construction this reporting period. Construction is anticipated to begin next reporting period.

The Effluent Parshall Flume Upgrades project was advertised for bidding this quarter.

The Influent PS MCC Upgrades project is under construction.

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 in Jefferson County 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

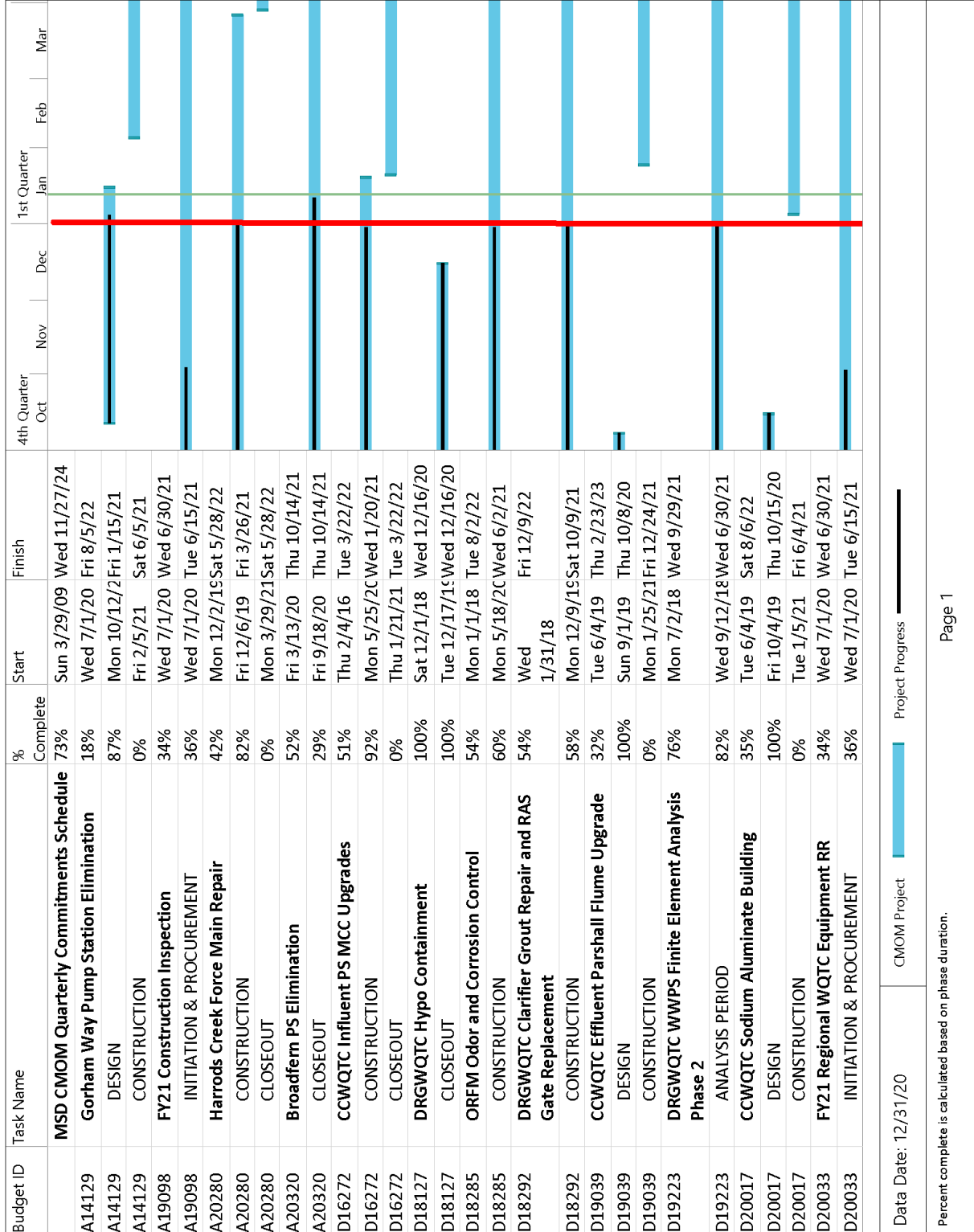


Figure 6.1. CMOM Quarterly Commitments Schedule

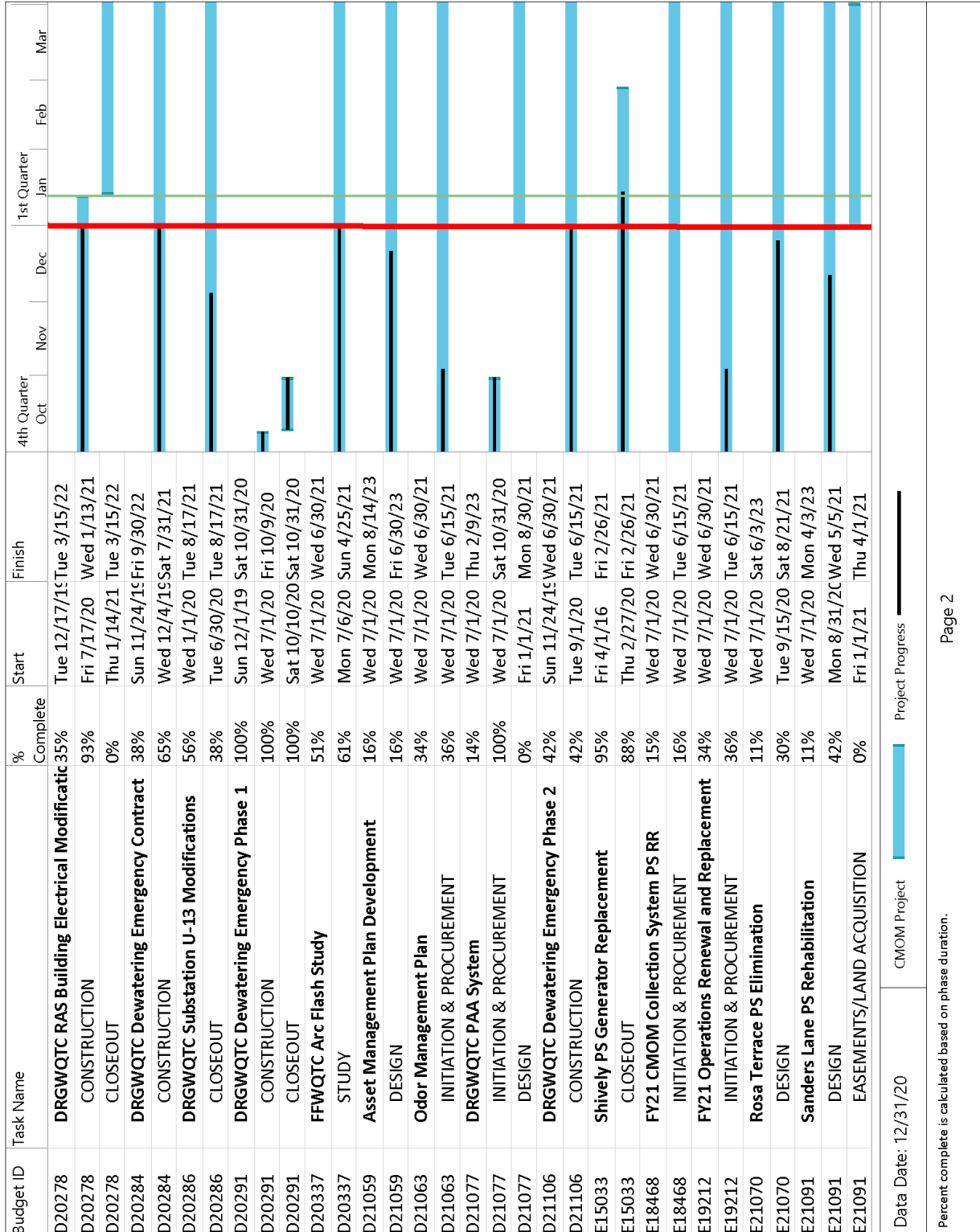


Figure 6.1. CMOM Quarterly Commitments Schedule

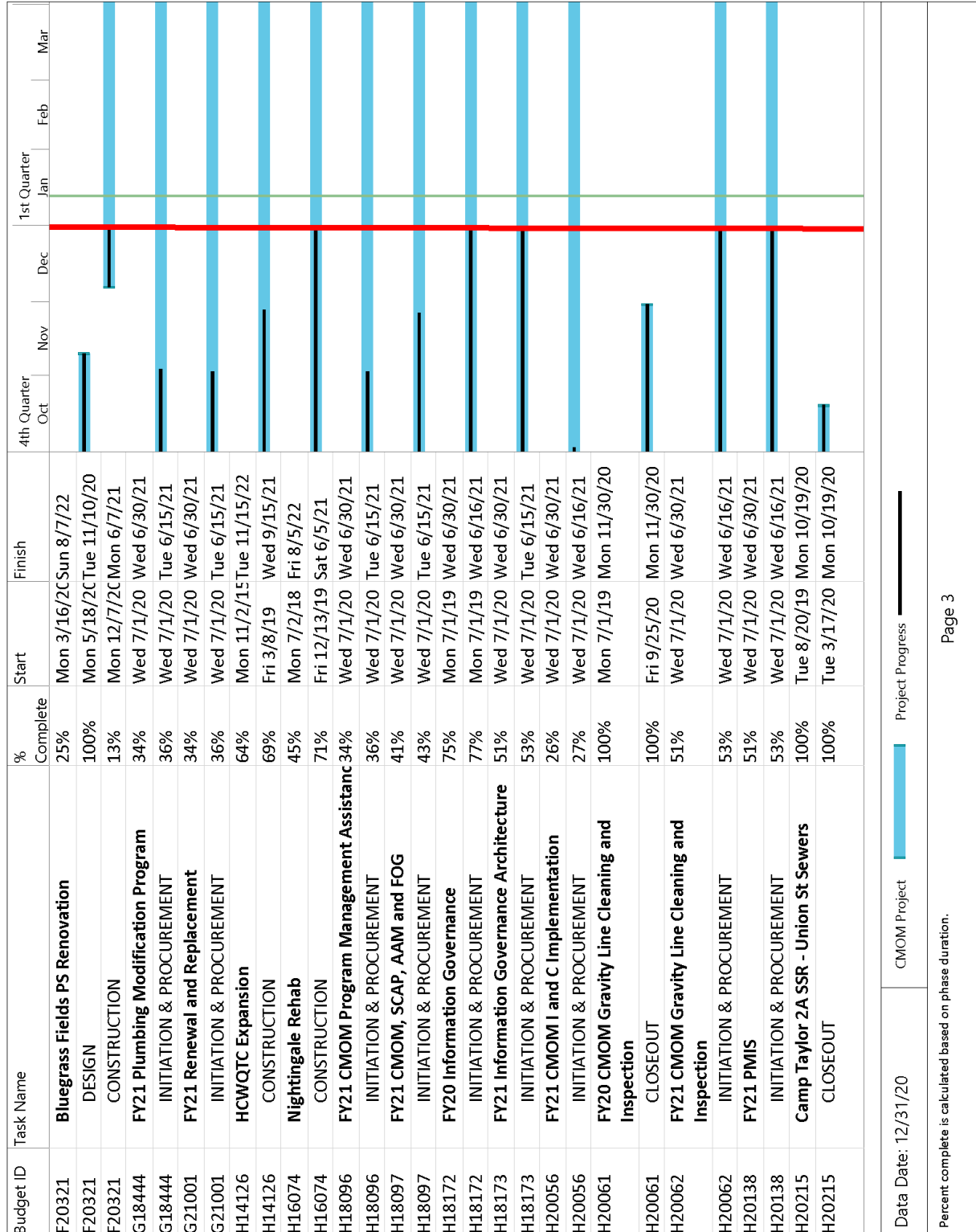
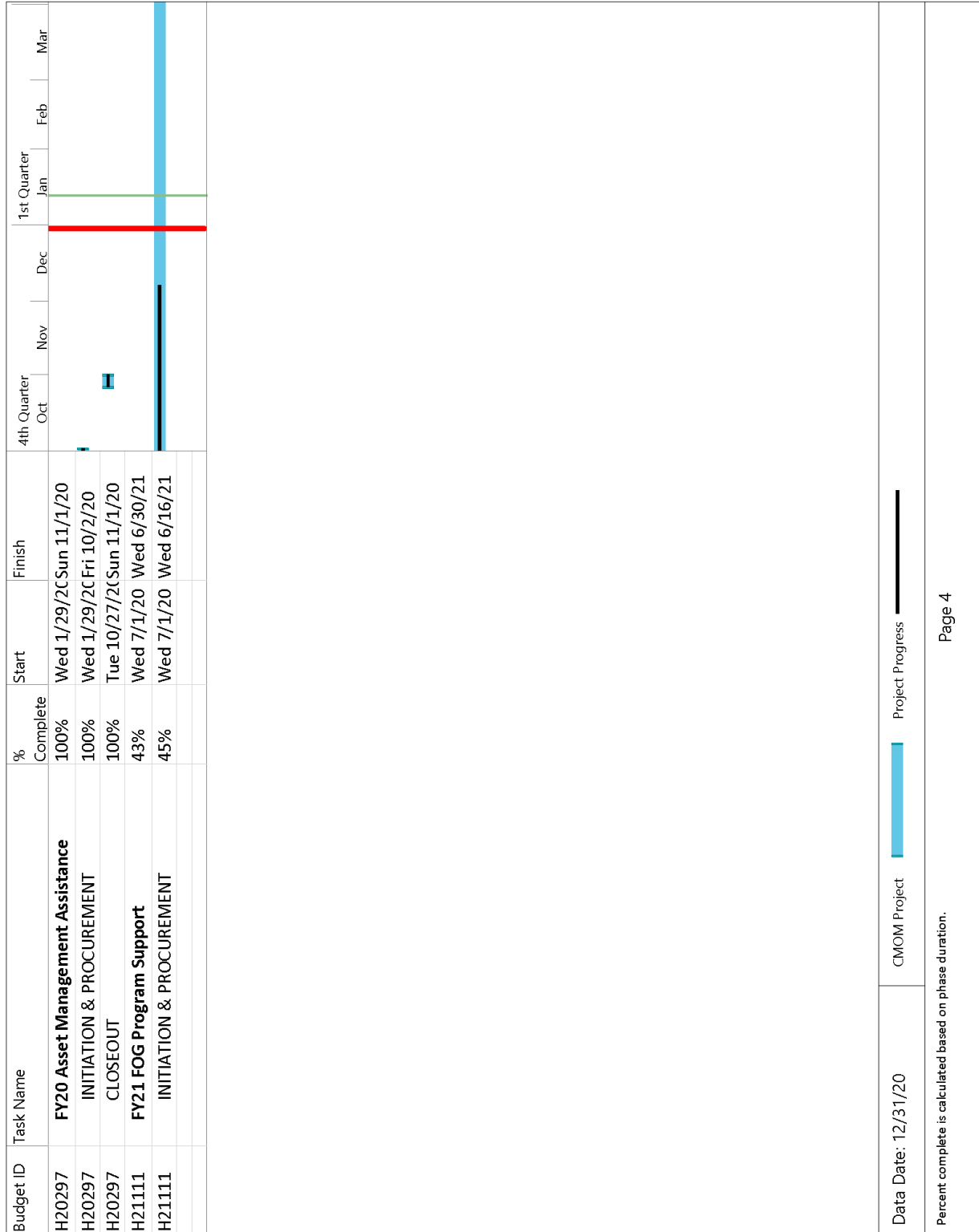


Figure 6.1. CMOM Quarterly Commitments Schedule



APPENDIX A

DISCHARGE WORK ORDERS



APPENDIX A-1

BYPASSES



**No Bypasses
Occurred during
the Reporting
Period**

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	2201 CROSS HILL RD	11/5/2020 23:45	11/6/2020 0:15	24792	Sewer Manhole	CSO166	STREAM	MIDDLE FORK BEARGRASS CREEK	WATER MAIN BREAK AT CANNONS LANE.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3313896	NONE REQUIRED. DISCHARGED INTO THE CREEK.	REPAIRS COMPLETED.

APPENDIX A-3

UNAUTHORIZED DISCHARGES



PROJECT WIN QUARTERLY REPORT #61
OCTOBER 1, 2020 - DECEMBER 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
FLOYDS FORK	KY0102784	2410 S POPE LICK RD	10/14/2020 23:57	10/19/2020 10:53	10000	Sewer Main	112307B-V	GROUND	POPE LICK	STRUCTURAL FAILURE OF MAIN SEWER.	STRUCTURAL FAILURE	DRY WEATHER DISCHARGE	3309911	NO CLEAN UP PERFORMED.	THE PUMPS WERE TURNED OFF.
HITE CREEK	KY0022420	6405 DEEP CREEK DR	10/16/2020 17:00	10/17/2020 9:45	15	Sewer Manhole	66918	GROUND	HARRODS CREEK	AN OBSTRUCTION IN MAIN SEWER.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3310160	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.	FLUSHED THE OBSTRUCTION FROM THE MAIN SEWER.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	10/20/2020 3:45	10/20/2020 16:45	41	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3311315	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO STREAM.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	10/20/2020 4:00	10/20/2020 7:00	200000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3311314	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO STREAM.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4010 BELLS LN	10/20/2020 15:30	10/20/2020 15:50	6000	Sewer Lift Station	MSD0080-PS	GROUND	PADDY RUN	THE EQ BASIN DRAIN LINE TO SOUTHWESTERN PUMP STATION HAS BEEN DAMAGED.	STRUCTURAL FAILURE	RAIN EVENT DISCHARGE	3311492	WE DISINFECTED THE AREA.	DRAIN PUMPS ARE LOCKED OUT UNTIL REPAIR CAN BE MADE.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	10/29/2020 4:30	10/30/2020 14:45	7500000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312739	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO STREAM.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	10/29/2020 5:30	10/30/2020 4:30	1700000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312738	NO CLEANUP REQUIRED, THE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY TO STREAM	LOCATION INCLUDED IN THE IOAP
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	10/29/2020 8:00	10/29/2020 14:05	9125	Sewer Manhole	108956	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312865	NO CLEANUP NEEDED, DISCHARGED DIRECTLY TO CREEK.	HAULED FLOYDSBURG PS UNTIL STATION WAS OUT OF HWW.
MORRIS FORMAN	KY0022411	2408 GRAY FOX RD	10/29/2020 8:10	10/30/2020 8:50	185000	Sewer Manhole	27012	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312812	WO#3313068	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1012 ALTA CIR	10/29/2020 8:30	10/30/2020 9:00	220500	Sewer Manhole	40559	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312814	WO#3313069	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	202 OXMOOR LN	10/29/2020 8:55	10/30/2020 11:07	235800	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312817	WO#3313070	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3317 DELL RD	10/29/2020 9:30	10/30/2020 8:17	34175	Sewer Manhole	28413	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312835	WO#3313054	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3400 DELL RD	10/29/2020 9:40	10/30/2020 8:22	34125	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312834	WO#3313055	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3406 DELL RD	10/29/2020 9:50	10/30/2020 8:27	33875	Sewer Manhole	28415	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312833	WO#3313056	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4313 PRUITT CT	10/29/2020 10:10	10/30/2020 10:05	215250	Sewer Manhole	08427	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312922	WO#3313060	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4912 DELAWARE DR	10/29/2020 10:10	10/30/2020 10:05	35025	Sewer Manhole	18654	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312926	WO#3313061	LOCATION INCLUDED IN THE IOAP.

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	3402 CHARLANE PKY	10/29/2020 10:10	10/30/2020 8:29	66950	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312837	WO#3313059	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1726 FRASER DR	10/29/2020 10:30	10/30/2020 14:30	23520	Sewer Manhole	16649	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312927	NO CLEANUP REQUIRED DISCHARGE, PIPE IS SUBMERGED.	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4332 PRUITT CT	10/29/2020 10:30	10/30/2020 10:05	70750	Sewer Service Line	085100290046A	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312928	WO#3313067	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3406 CHARLANE PKY	10/29/2020 11:00	10/30/2020 8:34	32350	Sewer Manhole	28451	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312838	WO#3313058	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3506 CHARLANE PKY	10/29/2020 11:10	10/30/2020 8:40	32250	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312839	WO#3313051	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	4315 PRUITT CT	10/29/2020 11:20	10/30/2020 10:05	68250	Sewer Manhole	49647	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312921	WO#3313066	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	9707 WILLOWWOOD WAY	10/29/2020 11:30	10/30/2020 8:55	96375	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312840	WO#3313052	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	3620 CHARLANE PKY	10/29/2020 11:42	10/30/2020 8:46	31600	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312842	WO#3313053	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1044 ALTA VISTA RD	10/29/2020 12:35	10/30/2020 8:15	236000	Sewer Manhole	27008	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312918	WO#3313065	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	1013 ALTA CIR	10/29/2020 12:40	10/30/2020 8:00	232000	Sewer Manhole	27007	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3312920	WO#3313063	LOCATION INCLUDED IN THE IOAP.
MORRIS FORMAN	KY0022411	9801 BUNSEN PKY	11/5/2020 9:22	11/5/2020 11:28	100	Sewer Manhole	46150	GROUND	CHENOWETH RUN	GREASE AND RAGS WERE IN THE SEWER.	OBSTRUCTION-NOT GREASE / ROOTS	DRY WEATHER DISCHARGE	3313765	MSD WILL CLEAN AREA.	CLEANED MAIN SEWERS PLACED ONE DISCLEAN AND LOCATES ON TWO BURIED MANHOLES.
CEDAR CREEK	KY0098540	8708 PITCH PINE WAY	11/10/2020 12:19	11/10/2020 12:26	35	Sewer Manhole	107823	GROUND	FLOYDS FORK	ELECTRICAL ISSUE. PUMP CONTROLLER FAULTED NOT ALLOWING PUMPS TO START OR HWW ALARM TO BE SENT OUT.	ELECTRICAL PROBLEMS AT MSD	DRY WEATHER DISCHARGE	3314277	MSD CREW WASHED DOWN IMPACTED AREA IN STREET.	MANUALLY STARTED PUMPS TO STOP DISCHARGE.
MORRIS FORMAN	KY0022411	11339 OLDE SAGE CT	12/22/2020 15:12	12/22/2020 16:42	200	Sewer Manhole	00885	GROUND	MIDDLE FORK BEARGRASS CREEK	ROOTS AND GREASE AND WIPES CREATING BLOCKAGE.	GREASE BLOCKAGE	DRY WEATHER DISCHARGE	3330634	MSD CLEANED THE AREA.	WE PLACED TVI.
MORRIS FORMAN	KY0022411	1201 OLD CANNONS LN	12/30/2020 23:15	1/2/2021 19:15	8500000	Sewer Manhole	IS021A-SI	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333637	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	12/31/2020 3:00	1/2/2021 2:00	2487000	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333636	NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK.	LOCATION INCLUDED IN IOAP.
MORRIS FORMAN	KY0022411	3402 CHARLANE PKY	12/31/2020 6:50	1/2/2021 7:30	54250	Sewer Manhole	28453	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333639	WO#3333936	LOCATION INCLUDED IN IOAP.

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	9707 WILLOWOOD WAY	12/31/2020 6:55	1/1/2021 16:45	20251	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY HEAVY RAIN.	LACK OF SYSTEM CAPACITY	RAIN EVENT DISCHARGE	3333640	WO#3333935	LOCATION INCLUDED IN IOAP.

APPENDIX B

CSO FLOW MONITORING DATA



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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO015	10/20/2020 0:15	10/20/2020 2:30	135	1	14629305	0	24	Atlas		17,847,752	1
CSO015 Total										17,847,752	1
CSO016	10/19/2020 9:30	10/20/2020 9:45	1455	1	12318695	5	24	Cloudburst		16,383,864	1
	10/23/2020 19:15	10/23/2020 22:15	180	0	16186325	0	3	Atlas		3,237,265	1
	10/29/2020 1:00	10/30/2020 3:15	1575	3	8565444	0	3	Atlas		28,437,273	1
	11/15/2020 7:45	11/15/2020 8:15	30	0	176395	0	6	Atlas		72,322	1
	11/25/2020 7:15	11/25/2020 11:45	270	2	374451	24	6	Cloudburst		595,377	1
CSO016 Total										48,726,101	5
CSO019	10/4/2020 12:15	10/4/2020 15:15	180	0	748200	0	1	Atlas		7,482	1
	10/10/2020 14:45	10/10/2020 14:45	0	0	365200	0	1	Atlas		3,652	1
	10/18/2020 23:00	10/20/2020 15:00	2400	1	5448337	0	24	Atlas		6,483,521	1
	10/23/2020 18:15	10/24/2020 2:45	510	0	516350	0	1	Atlas		196,213	1
	10/28/2020 21:15	10/30/2020 12:45	2370	3	4895408	2	24	Cloudburst		16,512,678	1
	11/11/2020 0:30	11/11/2020 4:00	210	0	390621	0	12	Atlas		54,687	1
	11/15/2020 4:15	11/15/2020 11:30	435	0	352839	0	6	Atlas		179,948	1
	11/21/2020 8:00	11/21/2020 9:45	105	0	2228400	0	1	Atlas		22,284	1
	11/21/2020 20:00	11/22/2020 0:00	240	0	679686	0	3	Atlas		47,578	1
	11/22/2020 9:30	11/22/2020 16:30	420	0	516265	0	3	Atlas		87,765	1
	11/25/2020 4:15	11/26/2020 2:00	1305	2	421759	0	6	Atlas		662,162	1
	12/12/2020 7:30	12/12/2020 9:30	120	0	308520	0	1	Atlas		30,852	1
	12/13/2020 23:00	12/14/2020 0:45	105	0	308014	0	3	Atlas		21,561	1
	12/16/2020 6:15	12/16/2020 14:30	495	0	537168	0	6	Atlas		102,062	1
	12/19/2020 21:15	12/20/2020 5:15	480	0	327732	0	3	Atlas		72,101	1
	12/24/2020 1:00	12/24/2020 4:15	195	0	156345	0	12	Atlas		31,269	1
	12/30/2020 13:45	12/31/2020 0:00	615	1	276485	0	24	Atlas		276,485	1
CSO019 Total										24,792,300	17
CSO022	10/20/2020 2:15	10/20/2020 2:30	15	1	218937	0	24	Atlas		249,588	1
CSO022 Total										249,588	1
CSO028	10/20/2020 1:15	10/20/2020 1:15	0	1	10886	0	0	1		12,410	1
CSO028 Total										12,410	1
CSO029	10/20/2020 1:00	10/20/2020 1:15	15	1	18698	0	0	1		21,316	1
CSO029 Total										21,316	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO031	10/20/2020 1:15	10/20/2020 1:30	15	1	792	0	0	1		903	1
CSO031 Total										903	1
CSO034	10/20/2020 1:15	10/20/2020 1:30	15	1	72487	0	0	1		82,635	1
CSO034 Total										82,635	1
CSO035	10/20/2020 1:15	10/20/2020 1:15	0	0	25463	1	24	Cloudburst		24,444	1
CSO035 Total										24,444	1
CSO036	10/20/2020 1:15	10/20/2020 1:15	0	0	10132	1	24	Cloudburst		9,727	1
CSO036 Total										9,727	1
CSO038	10/20/2020 1:30	10/20/2020 1:30	0	1	896	0	0	1		1,022	1
CSO038 Total										1,022	1
CSO050	10/19/2020 8:30	10/19/2020 11:15	165	1	228850	14	24	Atlas		290,640	1
	10/19/2020 19:45	10/20/2020 7:00	675	1	815173	14	24	Atlas		1,035,270	1
	10/23/2020 18:30	10/23/2020 19:15	45	0	582771	0	1	Atlas		180,659	1
	10/28/2020 23:45	10/29/2020 19:15	1170	3	779018	0	1	Atlas		2,251,362	1
	11/11/2020 1:45	11/11/2020 1:45	0	0	51050	0	12	Atlas		9,189	1
	11/15/2020 4:15	11/15/2020 7:45	210	0	310381	0	6	Atlas		133,464	1
	11/25/2020 4:00	11/25/2020 10:00	360	1	87975	98	6	Cloudburst		126,684	1
	11/25/2020 18:15	11/25/2020 18:30	15	1	46089	98	6	Cloudburst		66,368	1
	12/20/2020 0:00	12/20/2020 0:30	30	0	13065	0	1	Atlas		3,005	1
	12/24/2020 1:00	12/24/2020 1:30	30	0	244543	0	12	Atlas		51,354	1
	12/30/2020 13:30	12/31/2020 0:00	630	0	70336	14	24	Atlas		66,226	1
CSO050 Total										4,216,221	11
CSO051	10/19/2020 9:00	10/19/2020 9:00	0	1	5133	14	24	Atlas		6,519	1
	10/19/2020 19:45	10/20/2020 2:30	405	1	14176	14	24	Atlas		18,004	1
	10/23/2020 18:30	10/23/2020 18:45	15	0	23203	0	1	Atlas		7,193	1
	10/29/2020 1:30	10/29/2020 7:00	330	3	12738	0	1	Atlas		36,812	1
	12/24/2020 1:00	12/24/2020 1:00	0	0	21824	0	12	Atlas		4,583	1
CSO051 Total										73,111	5
CSO052	10/20/2020 1:15	10/20/2020 1:15	0	1	403	170	24	Cloudburst		463	1
CSO052 Total										463	1

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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO054	10/20/2020 1:15	10/20/2020 2:15	60	1	123130	170	24	Cloudburst		141,600	1
	10/29/2020 3:00	10/29/2020 4:15	75	3	41809	0	3	Atlas		108,703	1
CSO054 Total										250,303	2
CSO055	10/19/2020 9:15	10/19/2020 9:15	0	1	211	170	24	Cloudburst		243	1
	10/20/2020 1:00	10/20/2020 1:30	30	1	126324	170	24	Cloudburst		145,273	1
	10/23/2020 18:45	10/23/2020 18:45	0	0	215	6	1	Atlas		58	1
	10/29/2020 0:30	10/29/2020 9:45	555	3	33283	0	3	Atlas		86,537	1
	11/25/2020 6:15	11/25/2020 6:15	0	1	178	0	1	Atlas		248	1
CSO055 Total										232,359	5
CSO056	10/20/2020 1:30	10/20/2020 2:15	45	1	92301	170	24	Cloudburst		106,146	1
	10/29/2020 3:00	10/29/2020 4:15	75	3	26287	0	3	Atlas		68,345	1
CSO056 Total										174,491	2
CSO062	10/19/2020 9:15	10/20/2020 22:15	2220	1	79464851	2	24	Cloudburst		91,384,579	1
	10/23/2020 19:15	10/23/2020 21:45	150	0	62635708	0	1	Atlas		7,516,285	1
	10/29/2020 0:15	10/30/2020 18:15	2520	2	67201924	43	24	Atlas		144,484,137	1
	11/15/2020 8:15	11/15/2020 8:45	30	0	5352588	0	6	Atlas		1,712,828	1
	11/25/2020 7:15	11/26/2020 16:30	1995	1	69497283	5	6	Cloudburst		79,921,875	1
	12/16/2020 12:00	12/16/2020 13:15	75	0	19097222	0	6	Atlas		5,156,250	1
	12/20/2020 0:45	12/20/2020 3:15	150	0	37812500	0	3	Atlas		9,453,125	1
	12/24/2020 1:30	12/24/2020 6:15	285	0	42968750	0	12	Atlas		8,593,750	1
	12/30/2020 15:30	12/31/2020 0:00	510	0	35940001	2	12	Cloudburst		29,470,801	1
CSO062 Total										377,693,630	9
CSO082	10/19/2020 9:45	10/20/2020 11:30	1545	1	23333359	14	24	Atlas		2,426,693	1
	10/23/2020 20:00	10/23/2020 20:30	30	0	239557	0	1	Atlas		33,538	1
	10/29/2020 0:45	10/30/2020 18:15	2490	2	2786068	0	1	Atlas		5,572,136	1
	11/15/2020 8:00	11/15/2020 8:45	45	0	149732	0	6	Atlas		41,925	1
	11/25/2020 6:45	11/25/2020 21:45	900	1	979220	80	6	Cloudburst		1,155,480	1
	12/24/2020 2:15	12/24/2020 4:15	120	0	844900	0	6	Atlas		168,980	1
	12/30/2020 15:15	12/31/2020 0:00	525	0	1309039	22	12	Atlas		1,086,502	1
CSO082 Total										10,485,254	7
CSO083	10/20/2020 1:45	10/20/2020 1:45	0	0	11639	8	24	Cloudburst		10,708	1
	10/29/2020 3:15	10/29/2020 3:15	0	2	1128	0	1	Atlas		2,335	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO083 Total										13,043	2
CSO092	10/19/2020 8:45	10/19/2020 9:30	45	1	581	14	24	Atlas		587	1
	10/20/2020 0:45	10/20/2020 5:45	300	1	8347	14	24	Atlas		8,430	1
	10/23/2020 18:45	10/23/2020 18:45	0	0	1229	0	1	Atlas		209	1
	10/29/2020 0:15	10/29/2020 8:30	495	2	771	0	1	Atlas		1,558	1
	11/15/2020 4:15	11/15/2020 4:15	0	0	120	0	6	Atlas		30	1
	11/25/2020 6:15	11/25/2020 7:30	75	1	532	75	6	Cloudburst		623	1
	12/24/2020 1:00	12/24/2020 1:00	0	0	800	0	12	Atlas		184	1
CSO092 Total										11,621	7
CSO093	10/20/2020 1:00	10/20/2020 1:15	15	1	1507	8	24	Cloudburst		1,703	1
CSO093 Total										1,703	1
CSO097	10/19/2020 9:00	10/19/2020 11:15	135	1	77999	8	24	Cloudburst		85,799	1
	10/19/2020 20:00	10/20/2020 3:00	420	1	363929	8	24	Cloudburst		400,322	1
	10/23/2020 19:00	10/23/2020 19:00	0	0	4493	0	1	Atlas		674	1
	10/29/2020 0:15	10/29/2020 22:00	1305	2	375141	435	12	Cloudburst		862,825	1
	11/15/2020 7:30	11/15/2020 8:00	30	0	24862	0	6	Atlas		7,210	1
	11/25/2020 7:30	11/25/2020 10:00	150	1	12388	34	6	Cloudburst		14,866	1
	12/30/2020 20:15	12/31/2020 0:00	225	0	58828	11	12	Atlas		51,769	1
CSO097 Total										1,423,465	7
CSO105	10/29/2020 2:45	10/29/2020 2:45	0	3	44752	0	12	Atlas		152,156	1
CSO105 Total										152,156	1
CSO109	10/20/2020 1:30	10/20/2020 1:45	15	1	67734	0	24	Atlas		75,862	1
	10/29/2020 3:15	10/29/2020 3:15	0	3	13323	17	12	Atlas		34,373	1
CSO109 Total										110,235	2
CSO111	10/20/2020 1:00	10/20/2020 1:00	0	0	16341	0	24	Atlas		16,014	1
CSO111 Total										16,014	1
CSO113	10/19/2020 9:30	10/19/2020 9:30	0	1	3007	14	24	Atlas		3,037	1
	10/20/2020 1:30	10/20/2020 7:15	345	1	458333	14	24	Atlas		462,916	1
	10/29/2020 3:00	10/29/2020 4:00	60	2	24342	0	1	Atlas		49,170	1
	11/25/2020 7:45	11/25/2020 7:45	0	1	5161	75	6	Cloudburst		6,038	1
	11/25/2020 18:30	11/25/2020 18:30	0	1	9104	75	6	Cloudburst		10,652	1

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CSO113 Total										531,813	5
CSO117	10/20/2020 1:15	10/20/2020 3:00	105	0	2970378	0	24	Atlas		2,821,859	1
	10/29/2020 3:15	10/29/2020 21:15	1080	2	3061927	0	24	Atlas		6,613,763	1
CSO117 Total										9,435,622	2
CSO118	10/19/2020 9:00	10/20/2020 7:15	1335	0	7322679	8	24	Cloudburst		6,736,865	1
	10/23/2020 19:00	10/23/2020 19:30	30	0	2843585	0	1	Atlas		369,666	1
	10/29/2020 0:15	10/29/2020 22:45	1350	2	5476268	0	1	Atlas		11,335,874	1
	11/15/2020 5:00	11/15/2020 8:15	195	0	1033308	0	6	Atlas		247,994	1
	11/25/2020 6:15	11/25/2020 11:30	315	1	1514213	51	6	Cloudburst		1,635,350	1
	12/24/2020 1:30	12/24/2020 3:00	90	0	669691	0	12	Atlas		147,332	1
	12/30/2020 15:15	12/31/2020 0:00	525	0	1894899	24	12	Atlas		1,591,715	1
CSO118 Total										22,064,796	7
CSO119	10/19/2020 9:00	10/19/2020 11:15	135	0	393936	8	24	Cloudburst		362,421	1
	10/19/2020 19:45	10/20/2020 2:45	420	0	885118	8	24	Cloudburst		814,309	1
	10/23/2020 18:45	10/23/2020 19:15	30	0	832331	0	1	Atlas		108,203	1
	10/29/2020 0:15	10/29/2020 21:15	1260	2	1041656	0	1	Atlas		2,156,228	1
	11/15/2020 4:45	11/15/2020 7:45	180	0	328738	0	6	Atlas		78,897	1
	11/25/2020 6:15	11/25/2020 10:15	240	1	411448	51	6	Cloudburst		444,364	1
	11/25/2020 18:30	11/25/2020 18:30	0	1	13906	51	6	Cloudburst		15,018	1
	12/24/2020 1:15	12/24/2020 1:30	15	0	296191	0	12	Atlas		65,162	1
	12/30/2020 18:00	12/31/2020 0:00	360	0	578737	24	12	Atlas		486,139	1
CSO119 Total										4,530,741	9
CSO120	10/19/2020 8:45	10/19/2020 8:45	0	1	11922	14	24	Atlas		12,399	1
	10/19/2020 19:45	10/19/2020 23:15	210	1	163165	14	24	Atlas		169,692	1
	10/29/2020 0:00	10/29/2020 0:15	15	2	2508	0	1	Atlas		5,015	1
	10/29/2020 9:00	10/29/2020 22:15	795	2	71750	0	1	Atlas		143,499	1
	11/12/2020 7:45	11/12/2020 7:45	0	1	1531	0	12	Atlas		1,531	1
	11/15/2020 4:30	11/15/2020 13:00	510	0	587432	0	6	Atlas		164,481	1
	11/25/2020 4:15	11/25/2020 19:30	915	1	289303	80	6	Cloudburst		341,377	1
	12/25/2020 0:30	12/26/2020 0:45	1455	0	4350	0	6	Atlas		87	1
	12/30/2020 18:30	12/30/2020 23:00	270	0	18683	22	12	Atlas		15,507	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO120 Total										853,588	9
CSO125	10/19/2020 20:15	10/20/2020 3:15	420	1	76616	1	24	Cloudburst		103,432	1
	10/23/2020 19:15	10/23/2020 19:15	0	0	250385	0	1	Atlas		50,077	1
	10/29/2020 0:30	10/29/2020 21:45	1275	2	1089516	8	24	Cloudburst		2,451,411	1
	11/15/2020 4:45	11/15/2020 11:45	420	0	304158	0	6	Atlas		72,998	1
	11/25/2020 6:30	11/25/2020 9:00	150	1	53102	2	6	Cloudburst		69,564	1
	11/25/2020 18:45	11/25/2020 18:45	0	1	21	2	6	Cloudburst		28	1
	12/24/2020 1:45	12/24/2020 6:45	300	0	58670	0	12	Atlas		13,494	1
	12/25/2020 1:45	12/25/2020 1:45	0	0	112150	0	6	Atlas		2,243	1
	12/25/2020 10:15	12/25/2020 11:15	60	0	86250	0	6	Atlas		1,725	1
CSO125 Total										2,764,972	9
CSO126	12/30/2020 21:15	12/30/2020 23:45	150	0	34736	0	12	Atlas		30,568	1
CSO126 Total										30,568	1
CSO127	10/19/2020 9:00	10/19/2020 11:15	135	1	22465	28	24	Atlas		32,125	1
	10/19/2020 20:15	10/20/2020 3:15	420	1	54659	28	24	Atlas		78,163	1
	10/23/2020 19:00	10/23/2020 19:30	30	0	27583	0	3	Atlas		7,999	1
	10/29/2020 0:00	10/29/2020 21:30	1290	2	74154	0	3	Atlas		182,420	1
	11/15/2020 4:30	11/15/2020 8:00	210	0	68541	0	6	Atlas		18,506	1
	11/25/2020 6:30	11/25/2020 10:15	225	2	14011	90	6	Cloudburst		21,997	1
	11/25/2020 19:00	11/25/2020 19:00	0	2	85	90	6	Cloudburst		134	1
	12/24/2020 1:30	12/24/2020 2:00	30	0	21385	0	12	Atlas		5,560	1
	12/30/2020 14:00	12/31/2020 0:00	600	0	44123	17	12	Atlas		41,917	1
CSO127 Total										388,821	9
CSO130	10/20/2020 1:30	10/20/2020 1:30	0	1	19924	62	24	Cloudburst		22,713	1
CSO130 Total										22,713	1
CSO131	10/20/2020 1:45	10/20/2020 1:45	0	1	68308	62	24	Cloudburst		77,871	1
	10/23/2020 19:15	10/23/2020 19:15	0	0	82744	0	1	Atlas		14,894	1
	10/29/2020 3:30	10/29/2020 4:15	45	2	26290	0	3	Atlas		53,895	1
CSO131 Total										146,660	3
CSO132	10/19/2020 19:45	10/20/2020 23:00	1635	1	908374	3	24	Cloudburst		1,071,881	1
	10/23/2020 18:45	10/23/2020 23:00	255	0	15547	0	1	Atlas		2,954	1
	10/29/2020 1:30	10/31/2020 23:00	4170	2	9554554	34	24	Atlas		19,300,200	1

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	11/25/2020 7:30	11/25/2020 23:00	930	1	4140	5	6	Cloudburst		4,430	1
CSO132 Total										20,379,465	4
CSO140	10/20/2020 1:00	10/20/2020 2:45	105	1	455134	8	24	Cloudburst		514,301	1
	10/29/2020 2:15	10/29/2020 17:45	930	2	603126	208	24	Cloudburst		1,218,314	1
CSO140 Total										1,732,615	2
CSO141	10/20/2020 1:30	10/20/2020 2:15	45	1	1622	14	24	Atlas		1,667	1
	10/29/2020 0:30	10/29/2020 3:30	180	2	176	0	1	Atlas		352	1
	11/25/2020 9:15	11/25/2020 9:15	0	1	229	80	6	Cloudburst		270	1
	12/20/2020 0:00	12/20/2020 0:30	30	0	633	0	3	Atlas		152	1
	12/30/2020 18:15	12/30/2020 18:30	15	0	30	22	12	Atlas		25	1
CSO141 Total										2,486	5
CSO142	10/19/2020 9:15	10/19/2020 9:15	0	0	239	496	24	Cloudburst		229	1
	10/20/2020 1:30	10/20/2020 1:45	15	0	22678	496	24	Cloudburst		21,771	1
	10/23/2020 19:00	10/23/2020 19:00	0	0	18007	1	1	Atlas		2,701	1
	10/29/2020 3:15	10/29/2020 3:15	0	2	1301	0	3	Atlas		2,745	1
	11/25/2020 7:45	11/25/2020 7:45	0	1	2248	0	1	Atlas		2,495	1
CSO142 Total										29,941	5
CSO144	10/20/2020 1:30	10/20/2020 1:30	0	1	23986	0	24	Atlas		31,422	1
CSO144 Total										31,422	1
CSO146	10/20/2020 1:30	10/20/2020 2:30	60	0	22922	496	24	Cloudburst		22,005	1
	10/29/2020 3:45	10/29/2020 4:15	30	2	23125	0	3	Atlas		48,793	1
CSO146 Total										70,798	2
CSO148	10/12/2020 17:30	10/12/2020 17:30	0	0	91900	0	1	Atlas		919	1
	10/19/2020 9:00	10/19/2020 9:45	45	1	21922	8	24	Cloudburst		24,114	1
	10/19/2020 20:00	10/20/2020 2:30	390	1	107372	8	24	Cloudburst		118,109	1
	10/23/2020 19:00	10/23/2020 19:00	0	0	58627	0	1	Atlas		8,794	1
	10/29/2020 0:00	10/29/2020 8:45	525	2	33400	435	12	Cloudburst		76,821	1
	11/15/2020 4:30	11/15/2020 4:30	0	0	27348	0	6	Atlas		7,931	1
	11/25/2020 7:45	11/25/2020 7:45	0	1	3290	34	6	Cloudburst		3,948	1
	11/25/2020 18:30	11/25/2020 18:30	0	1	833	34	6	Cloudburst		999	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO148	12/30/2020 23:00	12/30/2020 23:00	0	0	1006	11	12	Alias		885	1
CSO148 Total										242,520	9
CSO149	10/20/2020 1:45	10/20/2020 3:15	90	0	2069890	496	24	Cloudburst		1,987,094	1
CSO149	10/29/2020 3:45	10/29/2020 10:45	420	2	4814643	0	3	Alias		10,158,896	1
CSO149 Total										12,145,990	2
CSO151	10/19/2020 9:30	10/19/2020 12:00	150	1	225903	0	24	Alias		255,270	1
CSO151	10/19/2020 20:15	10/20/2020 8:15	720	1	1223531	0	24	Alias		1,382,590	1
CSO151	10/23/2020 19:30	10/23/2020 20:00	30	0	242121	0	3	Alias		33,897	1
CSO151	10/29/2020 0:30	10/30/2020 0:30	1440	2	3365384	0	24	Alias		6,999,999	1
CSO151	11/15/2020 4:45	11/15/2020 8:45	240	0	357769	0	6	Alias		93,020	1
CSO151	11/25/2020 6:45	11/25/2020 10:45	240	1	164285	0	6	Alias		216,856	1
CSO151	11/25/2020 19:00	11/25/2020 19:15	15	1	22821	0	6	Alias		30,124	1
CSO151	12/24/2020 1:45	12/24/2020 2:15	30	0	106025	0	12	Alias		25,446	1
CSO151	12/30/2020 15:30	12/31/2020 0:00	510	0	418221	0	12	Alias		363,852	1
CSO151 Total										9,401,054	9
CSO153	10/19/2020 8:45	10/20/2020 10:45	1560	1	1180884	14	24	Alias		1,228,119	1
CSO153	10/23/2020 19:00	10/23/2020 20:30	90	0	515671	0	1	Alias		72,194	1
CSO153	10/28/2020 23:45	10/30/2020 0:30	1485	2	849313	0	1	Alias		1,698,625	1
CSO153	11/11/2020 2:00	11/11/2020 2:00	0	0	43730	0	12	Alias		8,746	1
CSO153	11/15/2020 4:30	11/15/2020 8:30	240	0	189289	0	6	Alias		53,001	1
CSO153	11/25/2020 5:45	11/25/2020 21:00	915	1	438645	80	6	Cloudburst		517,601	1
CSO153	12/20/2020 0:00	12/20/2020 0:30	30	0	10029	0	3	Alias		2,407	1
CSO153	12/24/2020 1:00	12/24/2020 3:30	150	0	487165	0	6	Alias		97,433	1
CSO153	12/30/2020 13:30	12/31/2020 0:00	630	0	818536	22	12	Alias		679,385	1
CSO153 Total										4,357,511	9
CSO161	10/20/2020 1:15	10/20/2020 1:30	15	1	292	6	24	Cloudburst		315	1
CSO161 Total										315	1
CSO166	10/19/2020 9:15	10/19/2020 10:30	75	1	269573	28	24	Alias		385,489	1
CSO166	10/19/2020 20:15	10/20/2020 4:00	465	1	1092303	28	24	Alias		1,561,994	1
CSO166	10/23/2020 19:15	10/23/2020 19:45	30	0	429741	0	3	Alias		124,625	1
CSO166	10/29/2020 0:30	10/29/2020 22:45	1335	2	1509141	0	3	Alias		3,712,488	1

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	11/5/2020 23:45	11/6/2020 0:00	15	Discharge	0					24,784	1
	11/15/2020 4:45	11/15/2020 8:15	210	0	105367	0	6	Atlas		28,449	1
	11/25/2020 6:45	11/25/2020 8:30	105	2	67459	90	6	Cloudburst		105,910	1
	11/25/2020 18:45	11/25/2020 19:15	30	2	70604	90	6	Cloudburst		110,849	1
	12/30/2020 20:45	12/31/2020 0:00	195	0	482000	17	12	Atlas		457,900	1
CSO166 Total										6,512,488	9
CSO167	10/19/2020 19:45	10/20/2020 23:00	1635	1	14770	3	24	Cloudburst		17,429	1
	10/23/2020 18:45	10/23/2020 23:00	255	0	253	0	1	Atlas		48	1
	10/29/2020 1:30	10/31/2020 23:00	4170	2	155358	34	24	Atlas		313,824	1
	11/25/2020 7:30	11/25/2020 23:00	930	1	67	5	6	Cloudburst		72	1
CSO167 Total										331,373	4
CSO174	10/19/2020 9:15	10/19/2020 10:00	45	0	204893	496	24	Cloudburst		196,697	1
	10/19/2020 20:00	10/20/2020 2:30	390	0	713249	496	24	Cloudburst		684,719	1
	10/23/2020 19:00	10/23/2020 19:00	0	0	145253	1	1	Atlas		21,788	1
	10/29/2020 0:30	10/29/2020 9:00	510	2	350382	0	3	Atlas		739,306	1
	11/15/2020 4:45	11/15/2020 4:45	0	0	47275	3	6	Cloudburst		11,346	1
	11/25/2020 7:45	11/25/2020 8:00	15	1	52451	0	1	Atlas		58,221	1
	11/25/2020 18:30	11/25/2020 18:30	0	1	11791	0	1	Atlas		13,088	1
CSO174 Total										1,725,165	7
CSO180	10/20/2020 1:15	10/20/2020 1:15	0	0	50553	496	24	Cloudburst		48,531	1
	10/29/2020 0:30	10/29/2020 4:00	210	2	170691	0	3	Atlas		360,157	1
CSO180 Total										408,688	2
CSO183	10/20/2020 1:30	10/20/2020 1:30	0	0	1141	1	24	Cloudburst		1,095	1
	12/20/2020 1:00	12/20/2020 1:00	0	0	1112	0	1	Atlas		189	1
CSO183 Total										1,284	2
CSO184	10/20/2020 0:45	10/20/2020 1:45	60	0	2917	1	24	Cloudburst		2,800	1
	10/29/2020 3:15	10/29/2020 3:15	0	2	73	42	24	Atlas		155	1
CSO184 Total										2,955	2
CSO185	10/19/2020 9:15	10/19/2020 9:45	30	0	10998	1	24	Cloudburst		10,558	1

CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
	10/20/2020 0:45	10/20/2020 1:15	30	0	23525	1	24	Cloudburst		22,584	1
	10/23/2020 19:00	10/23/2020 19:00	0	0	9378	0	1	Atlas		1,688	1
	10/29/2020 0:30	10/29/2020 4:00	210	2	26956	42	24	Atlas		57,416	1
	11/15/2020 4:30	11/15/2020 4:30	0	0	2407	0	6	Atlas		698	1
	11/25/2020 7:45	11/25/2020 7:45	0	1	3040	5	6	Cloudburst		3,861	1
	11/25/2020 18:30	11/25/2020 18:30	0	1	3044	5	6	Cloudburst		3,866	1
CSO185 Total										100,671	7
CSO187	10/20/2020 1:00	10/20/2020 1:00	0	0	2167	496	24	Cloudburst		2,080	1
CSO187 Total										2,080	1
CSO189	10/26/2020 11:15	10/26/2020 11:30	15	0	4702943	0	1	Atlas		1,410,883	1
	10/29/2020 2:45	10/29/2020 11:00	495	3	7702386	0	12	Atlas		26,188,114	1
CSO189 Total										27,598,997	2
CSO190	10/20/2020 0:45	10/20/2020 2:00	75	1	234639	14	24	Atlas		297,991	1
	10/29/2020 1:30	10/29/2020 7:15	345	3	71211	0	12	Atlas		205,799	1
CSO190 Total										503,790	2
CSO191	10/20/2020 0:15	10/20/2020 2:30	135	1	657325	0	24	Atlas		801,937	1
CSO191 Total										801,937	1
CSO193	10/20/2020 0:45	10/20/2020 1:15	30	1	5399	0	1	Atlas		6,155	1
	10/29/2020 7:00	10/29/2020 7:00	0	2	1	0	3	Atlas		3	1
CSO193 Total										6,158	2
CSO195	10/20/2020 1:30	10/20/2020 1:30	0	1	234	0	1	Atlas		255	1
CSO195 Total										255	1
CSO197	10/20/2020 1:00	10/20/2020 1:15	15	1	1980	0	1	Atlas		2,158	1
CSO197 Total										2,158	1
CSO198	10/20/2020 1:00	10/20/2020 1:15	15	1	8237	0	1	Atlas		8,978	1
CSO198 Total										8,978	1
CSO199	10/20/2020 1:15	10/20/2020 1:45	30	1	29842	0	1	Atlas		32,528	1
	10/23/2020 19:00	10/23/2020 19:00	0	0	325	0	1	Atlas		39	1
	10/29/2020 3:15	10/29/2020 4:00	45	2	3	0	3	Atlas		7	1
	11/25/2020 7:45	11/25/2020 7:45	0	1	155	0	1	Atlas		169	1

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CSO	START DATE	END DATE	DURATION (MIN)	RAIN TOTAL (INCH)	DISCHARGE PER RAIN	FREQUENCY (YR)	PERIOD (HR)	STANDARD	COMMENT	DISCHARGE VOLUME (GAL)	COUNT OF CSO
CSO199 Total										32,743	4
CSO201	10/20/2020 1:30	10/20/2020 1:45	15	1	32288	0	1	Atlas		36,785	1
CSO201 Total										36,785	1
CSO202	10/19/2020 9:45	10/20/2020 12:00	1575	1	10633	0	1	Atlas		11,590	1
	11/25/2020 7:45	11/25/2020 7:45	0	1	27	0	1	Atlas		29	1
	12/1/2020 9:45	12/1/2020 9:45	0	0	0	0	1	Atlas		0	1
CSO202 Total										11,619	3
CSO203	10/20/2020 1:30	10/20/2020 1:30	0	1	3890	0	1	Atlas		4,240	1
CSO203 Total										4,240	1
CSO205	10/19/2020 9:00	10/20/2020 2:30	1050	0	6181	0	24	Atlas		5,872	1
	10/23/2020 19:00	10/23/2020 19:00	0	0	1835	0	3	Atlas		367	1
	10/29/2020 0:00	10/29/2020 10:15	615	2	2659	5	24	Cloudburst		5,531	1
	11/15/2020 4:45	11/15/2020 7:00	135	0	93	0	6	Atlas		27	1
	11/25/2020 6:15	11/25/2020 6:30	15	1	19	1	6	Cloudburst		25	1
	11/25/2020 18:30	11/25/2020 18:30	0	1	36	1	6	Cloudburst		47	1
CSO205 Total										11,869	6
CSO210	10/19/2020 9:15	10/20/2020 8:45	1410	1	671158	5	24	Cloudburst		892,640	1
	10/23/2020 19:30	10/23/2020 22:15	165	0	230845	0	3	Atlas		46,169	1
	10/29/2020 1:00	10/30/2020 2:15	1515	3	260666	0	3	Atlas		865,410	1
	11/15/2020 8:15	11/15/2020 8:15	0	0	24	0	6	Atlas		10	1
	11/25/2020 7:15	11/25/2020 11:15	240	2	39372	24	6	Cloudburst		62,602	1
CSO210 Total										1,866,831	5
CSO211	10/19/2020 11:00	10/19/2020 12:15	75	1	1294280	5	24	Cloudburst		1,721,992	1
	10/20/2020 1:00	10/20/2020 4:15	195	1	36706102	5	24	Cloudburst		48,819,115	1
	10/29/2020 1:45	10/29/2020 11:15	570	3	29259460	0	3	Atlas		97,141,406	1
	11/25/2020 12:45	11/25/2020 13:00	15	2	3556	24	6	Cloudburst		5,654	1
CSO211 Total										147,687,567	4
Grand Total										763,445,309	266



APPENDIX C

ACRONYMS





ACRONYM	DEFINITION
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

ACRONYM	DEFINITION
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	9,000	-19,575
	12/5/2012	196927	SONIC SPRINGS	LAT EXT	3,600	-7,830
	1/29/2013	350057	FMC EAST LOUISVILLE #1673-3	LAT EXT	3,400	-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	18,000	-39,150
	5/26/2015	13LE1003	Bardstown Woods Sec 6	LAT EXT	5,200	-11,310
	6/30/2015	SC1082496	MAINTENANCE WORK FY15 JAN-JUN-CEDAR CREEK	SCAPCREDIT		21
	9/14/2015	LE916330	Altawood Development	LAT EXT	1,600	-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	4,400	-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	12,000	-26,100
	10/24/2017	LE971176	Cedar Ridge	LAT EXT	18,800	-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	17,600	-38,280
	9/12/2019	LE1015579	Glenmary Commons	LAT EXT	8,800	-19,140
		LE1049657	Little Spring Farm, Section 4B	LAT EXT	14,000	-30,450



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	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
	9/10/2020	LE1099947	Cedar Creek Subdivision - Section 1	LAT EXT	16000	-34,800
Cedar Creek Total						447,663
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	3,770	-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	2,880	-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	5,740	-12,485
	6/30/2012	362678	MAINTENANCE WORK FY12B - FLOYDS FORK	SCAPCREDIT		338
	10/26/2012	315945	BROOKFIELD SEC 3	LAT EXT	12,800	-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	14,400	-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	2,000	-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	12,000	-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	17,200	-37,410
	1/6/2017	LE983784	Catalpa Farms Subdivision	LAT EXT	16,000	-34,800
	2/27/2017	LE971261	Notting Hills Section 4 and Clubhouse	LAT EXT	10,400	-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	16,400	-35,670
	10/21/2019	LE1050932	Courtyard at Curry Farms Section 1	LAT EXT	17,000	-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	12,400	-26,970
	12/1/2012	304536	MAGNOLIA SPRINGS EAST PRIV P/S	LAT EXT	9,500	-20,663
	12/7/2012	335610	ROCK SPRINGS FARM SEC 4B	LAT EXT	6,400	-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	6,800	-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
Hite Creek Total						2,815,919
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



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	8/10/2010	254871	LAKESIDE BAPT CHURCH PRIV PS	LAT EXT	2,500	-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	2200	-4,785
	2/1/2016	14LE1149	Grand Lakes Section 3	LAT EXT	5,600	-12,180
	3/10/2016	LE924049	Blankenbaker Road S/S	LAT EXT	9,010	-19,597
	5/4/2016	326360	WATTERSON TRAIL CENTER	LAT EXT	2,745	-5,970
	6/21/2016	LE930127	Vantage Point Sec 3B	LAT EXT	7,200	-15,660
	7/28/2016	13LE1158	GOODWILL INDUSTRIES OF KENTUCKY	LAT EXT	400	-870
	11/8/2016	14LE1148	Grand Lakes Section 2	LAT EXT	4,400	-9,570
	3/23/2017	LE926081	Monticello Manors Sec 2	LAT EXT	7,600	-16,530
	3/31/2017	LE967619	Louis F. Zoeller, Jr Minor Plat	LAT EXT	400	-870
J'Town Total						919,386
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	2,100	-4,568
	6/30/2010	362658	MAINTENANCE WORK FY10B - MILL CREEK	SCAPCREDIT		6,216
	7/2/2010	259408	FAMILY DOLLAR 5105 DIXIE	LAT EXT	1,200	-2,610
	7/23/2010	264294	SAINT PETER THE APOSTLE CATHOL	LAT EXT	2,000	-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	1,134	-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	6,000	-13,050
	3/16/2012	SC1005678	CONTRACTED WORK FY12 - MILL CREEK	SCAPCREDIT		22
	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

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	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	11,200	-24,360
	9/18/2012	237457	WAVERLY HILLS	LAT EXT	400	-870
	10/19/2012	341883	NHK SPRING PRECISION	LAT EXT	17,800	-38,715
	12/5/2012	334997	BEECHLAND BAPTIST CHURCH	LAT EXT	2,715	-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	6,000	-13,050
	3/20/2013	224875	ASHBY GREEN APARTMENT HOMES	LAT EXT	36,400	-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	1,200	-2,610
	9/26/2013	13LE1014	LOUISVILLE FREE PUBLIC LIBRARY SOUTHWEST	LAT EXT	2400	-5,220
	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/II 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	10,300	-22,403
	10/31/2019	LE1039415	Delcour Multi-Family Apartments	LAT EXT	60,400	-131,370
Mill Creek Total						533,958
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
		SC1011290	MAINTENANCE WORK FY10A - MIDDLE FORK	SCAPCREDIT		50
	3/16/2010	197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3,700	-8,048



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	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	1,763	-3,835
	6/30/2010	SC1011292	MAINTENANCE WORK FY10B - MIDDLE FORK	SCAPCREDIT		1,113
	7/2/2010	265723	Z-XPRESS CAR WASH	LAT EXT	5,449	-11,852
	7/14/2010	255792	HERR LANE APARTMENTS - 8 PLEX	LAT EXT	2,400	-5,220
		255793	HERR LANE APARTMENTS - 4 PLEX	LAT EXT	1,200	-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	6,600	-14,355
	1/27/2011	313465	DORSEY POINTE/CODOMINIUMS 8-13	LAT EXT	2,400	-5,220
	4/14/2011	291263	BROWNS LANE BUILDING	LAT EXT	400	-870
	6/14/2011	293400	FOUR PLEX APARTMENTS	LAT EXT	1,200	-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	3,100	-6,743
	11/29/2011	314591	CHOCOLATE MARTINI BAR/REST	LAT EXT	3,275	-7,123
	12/27/2011	320983	HURSTBOURNE I/ 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	1,900	-4,133
	8/23/2012	320923	ST MATTHEWS I/ 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	1,500	-3,263
	1/16/2013	340778	PANDA RESTAURANT	LAT EXT	1,725	-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	7,500	-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
	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

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	9/10/2013	355162	PROPOSED RESTAURANT	LAT EXT	7,540	-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	71,600	-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	1,500	-3,263
	12/11/2013	13LE1099	NICKLIES - ST MATTHEWS	LAT EXT	1,920	-4,176
	12/18/2013	353963	DORSEY COMMONS TRACTS 1,2,3	LAT EXT	1960	-4,263
	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/II 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	62,800	-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	2,652	-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	99,800	-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	400	-870
	7/26/2019	LE1020250	LFPL - Northeast Regional Library	LAT EXT	800	-1,740
		LE1024084	Morat Avenue Apartments	LAT EXT	62250	-135,394
	11/4/2019	LE1083952	1700 Cold Spring Rd & 12004 Osage Rd	LAT EXT	800	-1,740
	4/24/2020	LE1059259	904 Browns Lane	LAT EXT	1600	-3,480
	8/28/2020	LE1010450	Ormsby Lane Senior Apartments	LAT EXT	11900	-25,883
	10/5/2020	LE1090567	4229 Taylorsville Road	LAT EXT	11200	-24,360
	11/9/2020	LE1105277	Partridge Meadows New Maintenance and Laundry Bldg	LAT EXT	3200	-6,960



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Middle Fork Total						2,258,547
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	2,825	-6,144
	6/30/2010	SC1011343	MAINTENANCE WORK FY10B - NORTHERN DITCH	SCAPCREDIT		2,532
	12/21/2010	284728	SUBWAY - NEW CUT RD	LAT EXT	1,314	-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	6,000	-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	2,100	-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	10,000	-21,750
	6/30/2010	362660	MAINTENANCE WORK FY10B - ORFM	SCAPCREDIT		6,773
	8/30/2010	254919	TRILOGY HEALTH SERVICES, LLC	LAT EXT	8,200	-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	4,400	-9,570
		213450	GLENVIEW PARK SUB, SEC 2	LAT EXT	5,600	-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	3,440	-7,482
	12/11/2012	323821	TIRE DISCOUNTERS WESTPORT RD	LAT EXT	400	-870
	12/18/2012	341319	RAISING CANES RETAIL CENTER	LAT EXT	1,225	-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	3,500	-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	3,600	-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	5,600	-12,180
	3/11/2014	199896	SPRINGDALE OFFICE BUILDING	LAT EXT	4,210	-9,157
	5/16/2014	225863	SPRING FARM LAKES SEC 1	LAT EXT	4,800	-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	32,000	-69,600
	11/10/2014	14LE1121	Riverside Sewer Extension	LAT EXT	1,200	-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	6,000	-13,050
	2/12/2015	352634	BAUER PROPERTY	LAT EXT	2,920	-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	18,000	-39,150
	11/19/2015	SC1006195	CONTRACTED WORK FY15 - ORFM	SCAPCREDIT		1
	12/14/2015	LE938166	Spring Farm Lake Section 3	LAT EXT	3,200	-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	13,000	-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	66,700	-145,073
	6/16/2020	LE937450	Poplar Hill Place	LAT EXT	4000	-8,700
ORFM Total						1,339,007
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	4,400	-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	4,300	-9,353
	3/21/2011	277777	TIRE DISCOUNTERS - BOERSTE WAY	LAT EXT	2,960	-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	2,250	-4,894

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	9/27/2011	320918	EDSEL I/I REHABILITATION - FY1	SCAPCREDIT		106,700
	11/4/2011	313444	PLANET FITNESS - JEFF BLVD	LAT EXT	1,600	-3,480
	11/29/2011	312391	LONGHORN STEAKHOUSE RESTAURANT	LAT EXT	4,840	-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	3,750	-8,156
	3/13/2012	255044	ISA-RECYCLING CENTER	LAT EXT	400	-870
	3/19/2012	312814	MILLER TRANSPORTATION	LAT EXT	1,800	-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	7,050	-15,334
	6/21/2012	322367	SHEPHERDS CARE MEMORY HOME	LAT EXT	2,000	-4,350
	6/30/2012	SC1011313	MAINTENANCE WORK FY12B - POND CREEK	SCAPCREDIT		3,877
	8/6/2012	307332	LOUISVILLE INDUSTRIAL BLDG B	LAT EXT	2,520	-5,481
	8/10/2012	279860	BANNON CROSSINGS SEC 3B-2	LAT EXT	9,600	-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	41,200	-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	2,065	-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	1,600	-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	57,200	-124,410
		341439	PRESTON GARDENS APTS	LAT EXT	22,200	-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	6,400	-13,920
	4/10/2014	13LE1035	RENAISSANCE SOUTH BUSINESS PARK TRACT 4	LAT EXT	5,415	-11,778
	4/24/2014	348014	ASHTON PARK TOWN HOMES	LAT EXT	9,000	-19,575
	5/16/2014	280180	LOUISVILLE INDUSTRIAL CTR F	LAT EXT	2,480	-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	9,600	-20,880
	8/25/2014	344230	AUSTIN PARK APARTMENTS PH6	LAT EXT	27,600	-60,030



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	11/13/2014	13LE1105	JEFFERSON COMMONS	LAT EXT	17,075	-37,138
	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	84,400	-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	12,400	-26,970
		354209	COOPER FARMS SEC 11A	LAT EXT	13,200	-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	1,000	-2,175
	10/2/2015	13LE1140	JEFFERSON POST APARTMENTS	LAT EXT	28,800	-62,640
	12/30/2015	14LE1116	CATALPA SPRINGS	LAT EXT	2,800	-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	13,000	-28,275
	2/12/2016	358356	WOODS OF PENN RUN Section 1	LAT EXT	18,800	-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	5,250	-11,419
	6/21/2016	14LE1170	Austin Park Phase 7 & 8	LAT EXT	26,400	-57,420
		LE918484	AUSTIN PARK SS PHASE 8	LAT EXT	16,800	-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	46,400	-100,920
	2/2/2017	LE954229	Jefferson Commerce Center Bldg.2	LAT EXT	3,150	-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	21,200	-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	10,400	-22,620
	7/10/2019	LE1053368	Ferndale Place Subdivision	LAT EXT	9,600	-20,880
	1/13/2020	LE1092680	Hidden Forest Section 2	LAT EXT	10000	-21,750
	12/10/2020	LE1104752	Carwash USA	LAT EXT	9000	-19,575
Pond Creek Total						4,940,126
SE Diversion	12/31/2007	359355	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDIT		8,000

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		359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDIT		128,000
	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	1,225	-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	2,400	-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	10,800	-23,490
	5/6/2011	276378	TIRE DISCOUNTERS - BARDSTOWN	LAT EXT	1,500	-3,263
	5/30/2011	287888	BEVERAGE WAREHOUSE	LAT EXT	1,180	-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	16,800	-36,540
	6/14/2013	232601	RAINTREE/MARIAN CT P/S ELIM	LAT EXT	105,800	-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



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	2/11/2015	SC1006185	CONTRACTED WORK FY14 - SOUTHEAST DIVERSION	SCAPCREDIT		187,478
	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	4,830	-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 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	8,000	-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						14,678,339

APPENDIX E

IOAP PROJECT CROSSWALK



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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
17TH ST FPS DWO ELIMINATION	LTCP	MSD0306-FP	L_OR_MF_190_S_03_A_A
27TH STREET FPS DWO ELIM	LTCP	MSD0307-FP	L_OR_MF_019_S_03_A_A
34TH ST FPS DWO ELIMINATION	LTCP	MSD0308-FP	L_OR_MF_019_S_03_A_B
4TH STREET FPS DWO ELIMINATION	LTCP	MSD0303-FP	L_OR_MF_022_M_03_A_A
ADAMS STREET SEWER SEPARATION (FORMERLY STORAGE BASIN)	LTCP	CSO172	L_OR_MF_172_S_09B_B_A_0
ANCHOR ESTATES PS ELIMINATIONS 1 - VANNAH PUMP STATION ELIMINATION	SSDP	01106	S_MI_MF_NB06_M_01_A_A-2
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	00056-W	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	0057-W	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	00746	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	00817	S_MI_MF_NB06_M_01_A_A - 1
ANCHOR ESTATES PS ELIMINATIONS 2 - ANCHOR ESTATES #1 AND #2 PUMP STATION ELIMINATION	SSDP	MSD0057-LS	S_MI_MF_NB06_M_01_A_A - 1
ASHBURTON PS IMPROVEMENTS & DIVERSION	SSDP	MSD0165-PS	S_FF_FF_NB03_M_01_C_A
ASHBURTON PS IMPROVEMENTS & DIVERSION	SSDP	MSD0166-PS	S_FF_FF_NB03_M_01_C_A
AVANTI PS ELIMINATION	SSDP	21229	S_PO_WC_PC07_M_01_A
BARDSTOWN RD PS IMPROVEMENTS	SSDP	88545	S_CC_CC_MSD1025_S_03_B
BEARGRASS INTERCEPTOR REHABILITATION PH 2	SSDP	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	LTCP	CSO015	L_OR_MF_015_M_13_B_B_8
BELLS LANE (FORMERLY PADDY'S RUN) WET WEATHER TREATMENT FACILITY	LTCP	CSO191	L_OR_MF_015_M_13_B_B_8
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	08717	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	104223	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	104224	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	104231	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	13931	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	13943	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	13946	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	34093542	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	36763	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	44396	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	44397	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	51301	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	66349	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	99259	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	KK14815019	S_SF_MF_30917_M_09_A
CAMP TAYLOR SYSTEM IMPROVEMENT PHASE 1 - SSES	SSDP	KK14855239	S_SF_MF_30917_M_09_A
CAVEN AVENUE PS ELIMINATION	SSDP	17724	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	27116	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	61667	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	61687	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	70212	S_PO_WC_PC09_M_09B_C
CAVEN AVENUE PS ELIMINATION	SSDP	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	LTCP	CSO028	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO029	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO034	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO036	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO178	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO181	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO193	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO195	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO196	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO197	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO199	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO200X	L_OR_MF_155_M_09B_B_B_4-1
CENTRAL RELIEF DRAIN CSO IN-LINE STORAGE, GREEN INFRASTRUCTURE, AND DISTRIBUTED STORAGE	LTCP	CSO202	L_OR_MF_155_M_09B_B_B_4-1
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	25477	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	25479	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	25480	S_PO_WC_PC03_M_01_C
CHARLESWOOD INTERCEPTOR EXTENSION	SSDP	MSD0130-PS	S_PO_WC_PC03_M_01_C
CINDERELLA PS ELIMINATION	SSDP	102339	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP	35309	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP	60679	S_PO_WC_PC04_M_01_C
CINDERELLA PS ELIMINATION	SSDP	MSD1013-PS	S_PO_WC_PC04_M_01_C
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO083	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO088	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO131	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO132	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO154	L_MU_MF_154_M_09B_B_A_8
CLIFTON HEIGHTS STORAGE BASIN	LTCP	CSO167	L_MU_MF_154_M_09B_B_A_8
CSO058 IN-LINE STORAGE & GREEN INFRASTRUCTURE	LTCP	CSO058	L_OR_MF_058_S_08_A_A_0
CSO093 STRUCTURAL MODIFICATIONS & GREEN INFRASTRUCTURE	LTCP	CSO093	L_SO_MF_093_S_08_A_A_0
CSO108 DAM MODIFICATION	LTCP	CSO108	L_SO_MF_108_S_09A_B_A_4
CSO140 IN-LINE STORAGE & GREEN INFRASTRUCTURE	LTCP	CSO140	L_MI_MF_140_S_08_A_A_0
CSO160 SEWER SEPARATION	LTCP	CSO160	L_OR_MF_160_S_08_A_A_0
CSO190 GREEN INFRASTRUCTURE (FORMERLY 18TH & NORTHWESTERN PKWY STORAGE BASIN)	LTCP	CSO190	L_OR_MF_190_S_09B_B_A_8
CSO206 SEWER SEPARATION	LTCP	CSO206	L_MI_MF_206_S_08_A_A_0
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	104289	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28249	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28250	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28336	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28340	S_JT_JT_NB02_M_01_C

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DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28413	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28414	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28415	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28416	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28417	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28451	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28452	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28453	S_JT_JT_NB02_M_01_C
DELL RD/CHARLANE PKWY INTERCEPTOR IMPROVEMENTS	SSDP	28711	S_JT_JT_NB02_M_01_C
DEREK R GUTHRIE WQTC UPGRADES	ISSDP	1256312700A	DEREK R GUTHRIE WQTC UPGRADES
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	SSDP	20154-W	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP	20155	S_OR_MF_NB03_S_07_C
DERINGTON CT PS I&I INVESTIGATION & REHABILITATION	SSDP	MSD0095-PS	S_OR_MF_NB03_S_07_C
EAST ROCKFORD PS RELOCATION	SSDP	04699-W	S_MC_WC_NB02_S_03_C
EDEN CARE PS SSO INVESTIGATION	SSDP	MSD1105-PS	S_FF_FF_NB02_S_13_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	92098	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	92099	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	94009	S_PO_WC_PC11_M_07_C
EDSEL PS I&I INVESTIGATION & REHABILITATION	SSDP	MSD1048-PS	S_PO_WC_PC11_M_07_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	64096	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	86052	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	92061	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD0196-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD0263	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD0263A-PS	S_JT_JT_NB01A_M_03_C
ELIMINATION OF CHENOWETH HILLS WQTC, CHENOWETH RUN PUMP STATION, AND CHIPPEWA PUMP STATION	SSDP	MSD1043-PS	S_JT_JT_NB01A_M_03_C
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	116106	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	81316	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	97362	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	97363	S_FF_CC_81316_M_03_C_A
FAIRMOUNT RD PS IMPROVEMENTS	SSDP	97365	S_FF_CC_81316_M_03_C_A
FAIRWAY VIEW PS IMPROVEMENTS	SSDP	MSD1065-PS	S_HC_HS_NB01_S_03_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108953	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108956	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108957	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	108958	S_HC_HC_MSD1086_M_07_C_A
FLOYDSBURG RD I&I INVEST	SSDP	90776	S_HC_HC_MSD1086_M_07_C_A



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FLOYDSBURG RD I&I INVEST	SSDP	MSD1086-PS	S_HC_HC_MSD1086_M_07_C_A
FOX HARBOR IN-LINE STORAGE	SSDP	62769	S_HC_HN_NB03_S_09A_A_A
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	105936	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	117721	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	43472	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	46891	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	62418	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	62420	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	91629	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	91630	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	MSD0040-PS	S_MI_MF_NB04_M_03_B-1
GOOSE CREEK PS IMPROVEMENTS AND WET WEATHER STORAGE 1 - DEVONDALE WET WEATHER STORAGE	SSDP	MSD1024-PS	S_MI_MF_NB04_M_03_B-1
GOVERNMENT CENTER PS ELIMINATION	SSDP	94541	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	SSDP	94542	S_PO_WC_PC06_M_01_C
GOVERNMENT CENTER PS ELIMINATION	SSDP	MSD0180-PS	S_PO_WC_PC06_M_01_C
GUNPOWDER PS IN-LINE STORAGE	SSDP	MSD1055-LS	S_HC_HN_NB02_S_09A_C_B
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	SSDP	55665	S_MC_MF_55665_S_07_C
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	SSDP	55667	S_MC_MF_55665_S_07_C
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	17571	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18134	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18297	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18298	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18299	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18302	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18318-W	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18370	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18434	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18471	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18483	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18505	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	18595	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	47960A	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	48885	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	48886	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	48888	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49224	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49236	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49672	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	49673	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	73111	HIKES LN INTER & HIGHGATE SPR
HIKES LANE INTERCEPTOR & HIGHGATE SPRINGS PS	ISSDP	MSD0012-PS	HIKES LN INTER & HIGHGATE SPR
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	01793	S_MI_MF_NB07_S_07_C

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HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	47650	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	47656	S_MI_MF_NB07_S_07_C
HURSTBOURNE I/I INVESTIGATION & REHABILITATION	SSDP	67535	S_MI_MF_NB07_S_07_C
IDLEWOOD IN-LINE STORAGE	SSDP	28984	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	28985	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	28998	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	63094	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	63095	S_CC_CC_70158_M_09A_C
IDLEWOOD IN-LINE STORAGE	SSDP	70158	S_CC_CC_70158_M_09A_C
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28173	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28390	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28391	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28392	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28395	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	28551	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	31733	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	64505	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	IS028-SI	S_JT_JT_NB01_M_01_C_A
JEFFERSONTOWN WQTC ELIMINATION	SSDP	MSD0255	S_JT_JT_NB01_M_01_C_A
KAVANAUGH RD PS IMPROVEMENTS	SSDP	MSD1085-PS	S_HC_HC_MSD1085_S_03_A
KLONDIKE INTERCEPTOR	SSDP	20644	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	25676	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	26650	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	26651	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	49513	S_SD_MF_NB04_S_01_B_A
KLONDIKE INTERCEPTOR	SSDP	66232	S_SD_MF_NB04_S_01_B_A
LAKE FOREST PS SSO INVESTIGATION	SSDP	MSD1169-LS	S_FF_LF_NB01_S_13_C_A
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	SSDP	25484	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	SSDP	93719	S_PO_WC_PC05_M_07_C
LANTANA #1 PS I/I INVESTIGATION & REHABILITATION	SSDP	MSD0101-PS	S_PO_WC_PC05_M_07_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	19360	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	19369	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29933	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29943	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29948	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	29949	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31073	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31074	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31083	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	31084	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	57874	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	61266	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	79076	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	MSD1010-PS	S_PO_WC_PC08_M_01_C
LEA ANN WAY SYSTEM IMPROVEMENT	SSDP	MSD1200-PS	S_PO_WC_PC08_M_01_C
LELAND RD SSO INVESTIGATION	SSDP	96020	S_OR_MF_NB02_S_13_C
LEVEN PS ELIMINATION	SSDP	36419	S_PO_WC_PC10_M_01_C
LEVEN PS ELIMINATION	SSDP	MSD1019-PS	S_PO_WC_PC10_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	67997	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	67999	S_CC_CC_67997_M_01_C



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LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	86423	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	86424	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	89196	S_CC_CC_67997_M_01_C
LITTLE CEDAR CREEK INTERCEPTOR IMPROVEMENTS	SSDP	89197	S_CC_CC_67997_M_01_C
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO091	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO097	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO106	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO110	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO111	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO113	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO137	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO146	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO148	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO149	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO151	L_SO_MF_092_M_09B_B_D_8
LOGAN & BRECKINRIDGE ST STORAGE BASIN	LTCP	CSO152	L_SO_MF_092_M_09B_B_D_8
LUCAS LANE PS IN-LINE STORAGE	SSDP	MSD0199-LS	S_FF_BT_NB01_S_09A_C_A
MEADOW STREAM PS & FM UPGRADE	SSDP	91087	S_HC_HC_MSD1082_S_09A_C
MEADOW STREAM PS & FM UPGRADE	SSDP	MSD1082-PS	S_HC_HC_MSD1082_S_09A_C
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	24152-W	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	24472	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	26752	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	41374	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	41416	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0006-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0007-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0010-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0023-PS	S_OR_MF_NB01_M_01_B-1
MELLWOOD SYSTEM IMPROVEMENTS AND PS ELIMINATIONS 1 - MELLWOOD PS AND FM IMPROVEMENTS	SSDP	MSD0024-PS	S_OR_MF_NB01_M_01_B-1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	02932	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	02933	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	02935	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	08537	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	08935-SM	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	115183	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	115184	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	SSDP	115185	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	15194	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	15195	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	17618	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	23211	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	23212	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	24553	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	27005	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	27007	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	27008	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	30376	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	40471	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	40559	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	43726	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45796	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45829	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45835	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	45900	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47034	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47582	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47583	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47593	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47596	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47603	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	47604	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	48864	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	51160	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	51161	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	SSDP	51180	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	51221	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	65070	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	72288	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	72289	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	74512	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	74513	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	74520	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	84155	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	90700	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	96672	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	96673	S_MISF_MF_NB01_M_01_C_A1
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE AND UMFPS DIVERSION 1 - BUECHEL BASIN	SSDP	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	SSDP	27012	S_MISF_MF_NB01_M_01_C_A1-2
MONTICELLO PS ELIMINATION	SSDP	27969	S_JT_JT_NB04_M_01_A
MONTICELLO PS ELIMINATION	SSDP	MSD0151-PS	S_JT_JT_NB04_M_01_A
MORRIS FORMAN WQTC HEADWORKS (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP	CSO211	L_OR_MF_211_M_13_B_A_8_
NIGHTINGALE PS REPLACEMENT & STORAGE	LTCP	CSO018	L_SO_MF_018_S_03_A_A
NORTHERN DITCH DIVERSION INTERCEPTOR	ISSDP	MSD0271	NORTHERN DITCH DIVERSION INTER
PARKVIEW ESTATES I&I INVESTIGATION	SSDP	47250	S_SD_MF_NB03_S_07_C
PORTLAND CSO STORAGE BASIN	LTCP	CSO019	L_OR_MF_019_S_13_B_A_8
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	16455	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	22436	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40870	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40871	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40872	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40879	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	40880	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	42675	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	42680	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	46621	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	46623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	46627	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65606	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65610	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65623	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65633	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	65635	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	89646	S_OR_MF_NB04_M_03_B_B-1

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PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	89791	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0123-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0183-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0186-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0192-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0193-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0291	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD0292	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD1044-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 1 - WQTC ELIMINATIONS	SSDP	MSD1063-PS	S_OR_MF_NB04_M_03_B_B-1
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP	89641	S_OR_MF_NB04_M_03_B_B-3
PROSPECT SYSTEM IMPROVEMENTS 3 - ORFM SYSTEM IMPROVEMENTS	SSDP	89790	S_OR_MF_NB04_M_03_B_B-3
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	SSDP	28729-W	S_JT_JT_NB03_M_01_C-1
RAINTREE DRIVE AND MARIAN COURT SYSTEM IMPROVEMENTS PHASE 1 - PUMP STATION ELIMINATION	SSDP	MSD0149-PS	S_JT_JT_NB03_M_01_C-1
RIDING RIDGE PS IMPROVEMENTS	SSDP	MSD1060-LS	S_HC_HN_NB01_S_03_C_A
RUNNING FOX PS ELIMINATION	SSDP	MSD1080-LS	S_CC_CC_MSD1080_S_01_C
SHAWNEE FPS DWO ELIMINATION	LTCP	MSD0309-FP	L_OR_MF_189_M_03_A_A
SHIVELY INTERCEPTOR	SSDP	04498	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	04542	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	81814-W	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0016-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0043-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0044-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0047-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0049-PS	S_MC_WC_NB01_M_01_A
SHIVELY INTERCEPTOR	SSDP	MSD0050-PS	S_MC_WC_NB01_M_01_A
SINKING FORK INTERCEPTOR	SSDP	21103	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	SSDP	25012	SINKING FORK RELIEF SEWER
SINKING FORK INTERCEPTOR	SSDP	63319	SINKING FORK RELIEF SEWER
SONNE PS I&I INVESTIGATION & REHABILITATION	SSDP	MSD0042-PS	S_OR_MF_42007_S_07_C
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08426	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08427	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08429	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08430	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	08431	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	18654	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30680	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30681	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30701	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30702	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	30704	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	49647	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	63779	SOUTHEASTERN DIVERSION STRUCT
SOUTHEASTERN DIVERSION STRUCTURE & INTERCEPTOR	SSDP	72571-X	SOUTHEASTERN DIVERSION STRUCT
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP	CSO016	L_OR_MF_211_M_13_B_A_8__
SOUTHERN OUTFALL IN-LINE STORAGE AT 43RD STREET (SOR1) (FORMERLY ALGONQUIN PKWY STORAGE BASIN)	LTCP	CSO210	L_OR_MF_211_M_13_B_A_8__
SOUTHWESTERN PKWY CSO BASIN	LTCP	CSO104	L_OR_MF_105_M_13_B_A_0



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PROJECT NAME	PROGRAM	ASSET ID	PROJECT ID
SOUTHWESTERN PKWY CSO BASIN	LTCP	CSO105	L_OR_MF_105_M_13_B_A_0
SOUTHWESTERN PKWY CSO BASIN	LTCP	CSO189X	L_OR_MF_105_M_13_B_A_0
ST RENE RD PS IN-LINE STORAGE	SSDP	94187	S_FF_CH_NB01_S_09A_C_A
SUTHERLAND INTERCEPTOR	SSDP	16649	S_SD_MF_NB05_M_01_A
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO022	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO023	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO050	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO051	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO052	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO053	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO054	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO055	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO056	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO150	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY 13TH ST/ROWAN ST STORAGE BASIN)	LTCP	CSO155	L_OR_MF_155_M_09B_B_B_4
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO125	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO126	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO127	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY I-64 & GRINSTEAD DRIVE CSO BASIN)	LTCP	CSO166	L_MI_MF_127_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO082	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO084	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO118	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO119	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO120	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO121	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO141	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY LEXINGTON RD & PAYNE ST STORAGE BASIN)	LTCP	CSO153	L_SO_MF_083_M_09B_B_A_8
WATERWAY PROTECTION TUNNEL (FORMERLY STORY & MAIN ST STORAGE BASIN)	LTCP	CSO020	L_OR_MF_020_S_09B_B_A_8
WOODLAND HILLS PS DIVERSION	SSDP	33003	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	SSDP	65516	S_FF_FF_NB01_S_01_C_A
WOODLAND HILLS PS DIVERSION	SSDP	65531	S_FF_FF_NB01_S_01_C_A

APPENDIX F

CSO108 SEMI-ANNUAL REPORT





January 30, 2021

Josh Lillpop
Natural Areas Branch Manager
Office of Kentucky Nature Preserves
Kentucky Energy and Environment Cabinet
300 Sower Boulevard, 4th Floor
Frankfort, KY 40601

Subject: CSO108 Semi-Annual Report #25

Dear Mr. Lillpop,

As required in Paragraph #2 of the document titled "Memorandum of Understanding by and between the Commonwealth of Kentucky, Office of Kentucky Nature Preserves and the Louisville and Jefferson County Metropolitan Sewer District", MSD submits to you the MOU Semi-Annual Report #25. This report summarizes activities at the CSO108 CDS Site during the reporting period of July 1, 2020 to December 31, 2020.

Should you have any questions or comments, please feel free to contact me via email at heather.dodds@louisvillemsd.org or phone at (502) 540-6961.

Sincerely,



Heather Dodds, PE
Regulatory Compliance & Asset Management Administrator





**MOU SEMI-ANNUAL REPORT 25
JULY 1, 2020 - DECEMBER 31, 2020**



INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) has entered into a Memorandum of Understanding (MOU) with the Kentucky State Nature Preserve Commission (Commission). The MOU was signed by MSD on July 31, 2018, and by the Commission on August 10, 2018. This MOU is effective for the period starting August 1, 2018, and ending on August 1, 2028.

This is the 25th Semi-Annual Report submitted in accordance with Paragraph 2 of the MOU. This report covers the time period of July 1, 2020 to December 31, 2020.

This Semi-Annual Report will address only those requirements considered ongoing. The initial Semi-Annual Report, MOU Semi-Annual Report #1, was comprehensive and included a response to each requirement addressed within the MOU. Please refer to the initial Semi-Annual Report for additional information not found within this document.

Work and activities undertaken by MSD and relating to the MOU are outlined in the paragraphs below.

1. PARAGRAPH #2 OF THE MOU

MSD shall be diligent of this ten-year period in supplying the Commission with timely semi-annual reports on the efficacy of the CDS unit, water quality monitoring data, and any other such pertinent information. Said reports shall be provided to the Commission by January 30 and July 30 of each year.

2. MSD RESPONSE

This document is the 25th semi-annual report to the Commission since the completion of the Project. Appendix A shows photos of the area around the CDS unit and South Fork Beargrass Creek during the reporting period.

2.1. CLEANING & INSPECTION ACTIVITIES

The CSO108 CDS unit is inspected weekly and cleaned on an as-needed basis. During the reporting period, MSD cleaned the CDS Unit bar racks 7 times. The information, shown in Table 1, is generated from work orders initiated whenever the CDS Unit is inspected and needs to be cleaned. Cleaning consists of either washing debris off the bar racks or hauling the solids and floatables from the site. Both operations result in removing debris that would otherwise overflow into Beargrass Creek. When cleaning the bar racks, the debris is reintroduced into the sewer system, and as a result, is difficult to accurately estimate the amount removed during the maintenance process. The report often indicates the quantity removed as "unknown".

Table 1. CSO108 CDS Unit Debris Removal

ACTIVITY	QUANTITY	COMMENTS	COMPLETED DATE
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS OFF RACK BARS NORTHINGTON BRITTLE	7/21/2020
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS OFF RACK BARS NORTHINGTON BRITTLE	8/4/2020
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS FROM RACK BAR NORTHINGTON HOGUE	8/18/2020
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS FROM RACK BARS NORTHINGTON HOGUE	11/10/2020
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS FROM RACK BARS MARSH BRITTLE	11/21/2020
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS OFF RACK BARS NORTHINGTON KLEIN	12/1/2020
DEBRIS	UNKNOWN	CLEANED HEAVY DEBRIS OFF RACK BARS NORTHINGTON LAW	12/15/2020

2.2. MAINTENANCE ACTIVITIES

In addition to the weekly inspections, MSD has initiated a preventative maintenance program to insure that the CDS unit and respective pumps are performing optimally. During these quarterly preventative maintenance activities, MSD staff also cleans the CDS unit and rack bars, washing the debris into the interceptor. The CDS Unit's pumps are removed from the facility twice yearly to more closely inspect and to perform any needed maintenance.

2.3. CAPTURED FLOW

The CDS unit was placed along the Trevillian Way Twin Trunk Sewer to capture solids and floatables from a 485-acre drainage area. The unit uses a vortex action created by the hydraulic energy of incoming flow to separate solids and floatable from the flow. The treated flow is then discharged through the outlet pipe to Beargrass Creek and the debris that is captured is pumped to the Morris Forman Water Quality Treatment Center (WQTC).

In an effort to estimate the volume of debris captured by the CDS unit and kept within the sewer system, a study of the efficiency of the unit was performed in the early 2002. The results of the study indicated that the concentration of solids kept within the sewer system was approximately 1 ml/l. Using pump run times and knowing the efficiency of the pumps, MSD was able to determine a volume of solids captured by the CDS technology. MSD estimates that the CDS unit captured 42.4 tons of solids during the reporting period. Appendix B lists the pump run times and Appendix C shows the calculations MSD used to determine the amount of debris captured by the CDS Unit and sent to the Morris Forman WQTC for treatment.

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APPENDIX A

**PHOTOS OF AREA ADJACENT TO CSO108 AND THE
CDS UNIT (DATED JANUARY 13, 2021)**

Figure 1. Entrance to CDS Unit



Figure 2. Entrance to CDS Unit



Figure 3. Area Adjacent to CDS Unit



Figure 4. Area Adjacent to CDS Unit



Figure 5. Area Adjacent to Creek



Figure 6. Area Adjacent to Creek





APPENDIX B CDS UNIT PUMP RUN TIMES

DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
July 1, 2020	0.48	0.35	1.00
July 2, 2020	0.00	0.00	0.22
July 3, 2020	0.00	0.00	0.12
July 4, 2020	0.00	0.00	0.10
July 5, 2020	0.00	0.00	0.00
July 6, 2020	0.00	0.00	0.03
July 7, 2020	0.00	0.00	0.05
July 8, 2020	0.00	0.00	0.07
July 9, 2020	0.00	0.00	0.08
July 10, 2020	0.00	0.00	0.00
July 11, 2020	0.00	0.00	0.05
July 12, 2020	0.00	0.00	0.00
July 13, 2020	0.00	0.00	0.00
July 14, 2020	0.00	0.00	0.08
July 15, 2020	0.00	0.00	0.18
July 16, 2020	0.00	0.00	0.00
July 17, 2020	0.00	0.00	0.00
July 18, 2020	0.00	0.00	0.00
July 19, 2020	0.00	0.00	0.00
July 20, 2020	0.00	0.00	0.00
July 21, 2020	0.00	0.00	0.00
July 22, 2020	0.00	0.00	0.08
July 23, 2020	0.00	0.00	0.00
July 24, 2020	0.00	0.00	0.05
July 25, 2020	0.00	0.00	0.08
July 26, 2020	0.00	0.00	0.08
July 27, 2020	0.68	0.80	1.00
July 28, 2020	0.00	0.00	0.22
July 29, 2020	0.00	0.00	0.08
July 30, 2020	0.00	0.00	0.03
July 31, 2020	0.00	0.00	0.05
August 1, 2020	2.15	1.28	2.65
August 2, 2020	0.00	0.00	0.43
August 3, 2020	0.00	0.00	0.27
August 4, 2020	0.00	0.00	0.30
August 5, 2020	0.00	0.00	0.22
August 6, 2020	0.00	0.00	0.22
August 7, 2020	0.00	0.00	0.12
August 8, 2020	0.00	0.00	0.13
August 9, 2020	0.00	0.00	0.08

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
August 10, 2020	0.00	0.00	0.08
August 11, 2020	0.00	0.00	0.05
August 12, 2020	0.00	0.00	0.03
August 13, 2020	0.00	0.00	0.00
August 14, 2020	0.00	0.00	0.05
August 15, 2020	0.00	0.00	0.05
August 16, 2020	0.00	0.00	0.20
August 17, 2020	0.00	0.00	0.13
August 18, 2020	0.00	0.00	0.08
August 19, 2020	0.00	0.00	0.05
August 20, 2020	0.00	0.00	0.03
August 21, 2020	0.00	0.00	0.00
August 22, 2020	0.00	0.00	0.05
August 23, 2020	0.18	0.32	0.43
August 24, 2020	0.35	0.52	0.98
August 25, 2020	0.00	0.00	0.13
August 26, 2020	0.00	0.00	0.08
August 27, 2020	0.00	0.00	0.05
August 28, 2020	0.00	0.00	0.00
August 29, 2020	0.00	0.00	0.03
August 30, 2020	0.00	0.00	0.05
August 31, 2020	0.00	0.00	0.03
September 1, 2020	0.00	0.00	0.05
September 2, 2020	0.00	0.00	0.03
September 3, 2020	0.00	0.00	0.00
September 4, 2020	0.00	0.00	0.08
September 5, 2020	1.47	0.70	1.43
September 6, 2020	0.00	0.00	0.25
September 7, 2020	0.00	0.00	0.18
September 8, 2020	0.00	0.00	0.08
September 9, 2020	0.00	0.00	0.12
September 10, 2020	0.00	0.00	0.05
September 11, 2020	0.00	0.00	0.03
September 12, 2020	0.00	0.00	0.00
September 13, 2020	0.00	0.00	0.00
September 14, 2020	0.00	0.00	0.05
September 15, 2020	0.00	0.00	0.00
September 16, 2020	0.00	0.00	0.17
September 17, 2020	0.00	0.00	0.00
September 18, 2020	0.00	0.00	0.00

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
September 19, 2020	0.00	0.00	0.00
September 20, 2020	0.00	0.00	0.00
September 21, 2020	0.00	0.00	0.00
September 22, 2020	0.00	0.00	0.00
September 23, 2020	0.00	0.00	0.00
September 24, 2020	0.00	0.00	0.00
September 25, 2020	0.00	0.00	0.00
September 26, 2020	0.00	0.00	0.00
September 27, 2020	0.00	0.00	0.00
September 28, 2020	0.00	0.00	0.03
September 29, 2020	0.00	0.00	0.00
September 30, 2020	0.00	0.00	0.00
October 1, 2020	0.00	0.00	0.00
October 2, 2020	0.00	0.00	0.05
October 3, 2020	0.00	0.00	0.00
October 4, 2020	0.00	0.00	0.00
October 5, 2020	0.00	0.00	0.03
October 6, 2020	0.00	0.00	0.00
October 7, 2020	0.00	0.00	0.00
October 8, 2020	0.00	0.00	0.00
October 9, 2020	0.00	0.00	0.05
October 10, 2020	0.00	0.00	0.00
October 11, 2020	0.00	0.00	0.00
October 12, 2020	0.00	0.00	0.05
October 13, 2020	0.00	0.00	0.00
October 14, 2020	0.00	0.00	0.00
October 15, 2020	0.00	0.00	0.00
October 16, 2020	0.00	0.00	0.03
October 17, 2020	0.00	0.00	0.00
October 18, 2020	0.00	0.00	0.00
October 19, 2020	0.00	0.00	0.00
October 20, 2020	0.00	0.00	0.05
October 21, 2020	0.00	0.00	0.08
October 22, 2020	0.00	0.00	1.18
October 23, 2020	0.00	0.00	0.03
October 24, 2020	0.00	0.00	0.00
October 25, 2020	0.00	0.00	0.05
October 26, 2020	0.00	0.00	0.00
October 27, 2020	0.00	0.00	0.00
October 28, 2020	0.00	0.00	0.05

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DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
October 29, 2020	0.00	0.00	0.00
October 30, 2020	0.00	0.00	0.18
October 31, 2020	0.00	0.00	0.00
November 1, 2020	0.00	0.00	0.52
November 2, 2020	0.00	0.00	0.18
November 3, 2020	0.00	0.00	0.12
November 4, 2020	0.00	0.00	0.10
November 5, 2020	0.00	0.00	0.03
November 6, 2020	0.00	0.00	0.05
November 7, 2020	0.00	0.00	0.00
November 8, 2020	0.00	0.00	0.00
November 9, 2020	0.00	0.00	0.03
November 10, 2020	0.00	0.00	0.00
November 11, 2020	0.00	0.00	0.05
November 12, 2020	0.00	0.00	0.00
November 13, 2020	0.00	0.00	0.00
November 14, 2020	0.00	0.00	0.03
November 15, 2020	0.00	0.00	0.00
November 16, 2020	0.00	0.00	0.05
November 17, 2020	0.00	0.00	0.08
November 18, 2020	0.00	0.00	0.05
November 19, 2020	0.00	0.00	0.00
November 20, 2020	0.00	0.00	0.03
November 21, 2020	0.00	0.00	0.00
November 22, 2020	0.00	0.00	0.00
November 23, 2020	0.00	0.00	0.22
November 24, 2020	0.00	0.00	0.00
November 25, 2020	0.00	0.00	0.00
November 26, 2020	0.00	0.00	0.00
November 27, 2020	0.00	0.00	0.00
November 28, 2020	0.00	0.00	0.00
November 29, 2020	0.00	0.00	0.00
November 30, 2020	0.00	0.00	0.00
December 1, 2020	0.00	0.00	0.00
December 2, 2020	0.08	0.22	0.28
December 3, 2020	0.00	0.00	0.18
December 4, 2020	0.00	0.00	0.08
December 5, 2020	0.00	0.00	0.08
December 6, 2020	0.00	0.00	0.05
December 7, 2020	0.00	0.00	0.03

DATE	PUMP 1 RUN HOURS	PUMP 2 RUN HOURS	PUMP 3 RUN HOURS
December 8, 2020	0.00	0.00	0.00
December 9, 2020	0.00	0.00	0.05
December 10, 2020	0.00	0.00	0.00
December 11, 2020	0.00	0.00	0.05
December 12, 2020	0.00	0.00	0.00
December 13, 2020	0.00	0.00	0.03
December 14, 2020	0.00	0.00	0.00
December 15, 2020	0.00	0.00	0.05
December 16, 2020	0.00	0.00	0.00
December 17, 2020	0.00	0.00	0.00
December 18, 2020	0.00	0.00	0.03
December 19, 2020	0.00	0.00	0.05
December 20, 2020	0.00	0.00	0.00
December 21, 2020	0.00	0.00	0.05
December 22, 2020	0.00	0.00	0.00
December 23, 2020	0.00	0.00	0.03
December 24, 2020	0.00	0.00	0.00
December 25, 2020	0.00	0.00	0.05
December 26, 2020	0.00	0.00	0.03
December 27, 2020	0.00	0.00	0.03
December 28, 2020	0.00	0.00	0.00
December 29, 2020	0.00	0.00	0.05
December 30, 2020	0.00	0.00	0.00
December 31, 2020	0.00	0.00	0.03



APPENDIX C

CSO108 UNDERFLOW PUMP FLOW METER DATA

DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
July 1, 2020	0.10	13,415.65	100,356.06
July 2, 2020	0.05	7,003.30	52,388.30
July 3, 2020	0.05	6,733.31	50,368.64
July 4, 2020	0.04	5,959.58	44,580.75
July 5, 2020	0.04	4,936.62	36,928.49
July 6, 2020	0.04	5,542.76	41,462.69
July 7, 2020	0.04	5,437.50	40,675.35
July 8, 2020	0.04	5,889.44	44,056.07
July 9, 2020	0.04	5,358.53	40,084.62
July 10, 2020	0.04	4,942.54	36,972.80
July 11, 2020	0.04	5,562.84	41,612.94
July 12, 2020	0.04	4,936.62	36,928.49
July 13, 2020	0.04	4,936.62	36,928.49
July 14, 2020	0.04	5,843.66	43,713.61
July 15, 2020	0.05	7,064.01	52,842.44
July 16, 2020	0.04	4,936.62	36,928.49
July 17, 2020	0.04	4,936.62	36,928.49
July 18, 2020	0.04	4,936.62	36,928.49
July 19, 2020	0.04	4,936.62	36,928.49
July 20, 2020	0.04	4,936.62	36,928.49
July 21, 2020	0.04	4,936.62	36,928.49
July 22, 2020	0.04	5,707.23	42,693.03
July 23, 2020	0.04	4,936.62	36,928.49
July 24, 2020	0.04	5,198.08	38,884.34
July 25, 2020	0.05	6,139.90	45,929.63
July 26, 2020	0.04	5,942.28	44,451.31
July 27, 2020	0.06	8,408.37	62,898.99
July 28, 2020	0.05	7,221.69	54,022.00
July 29, 2020	0.04	5,788.99	43,304.68
July 30, 2020	0.04	5,247.03	39,250.52
July 31, 2020	0.04	5,466.10	40,889.29
August 1, 2020	0.08	10,818.91	80,931.07
August 2, 2020	0.07	9,172.30	68,613.57
August 3, 2020	0.06	8,203.92	61,369.62
August 4, 2020	0.06	8,314.29	62,195.22
August 5, 2020	0.06	7,571.18	56,636.34
August 6, 2020	0.05	6,871.70	51,403.90
August 7, 2020	0.05	6,740.76	50,424.36
August 8, 2020	0.05	6,558.69	49,062.41
August 9, 2020	0.05	6,136.10	45,901.24

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
August 10, 2020	0.05	6,121.38	45,791.09
August 11, 2020	0.04	5,551.86	41,530.83
August 12, 2020	0.04	5,560.60	41,596.15
August 13, 2020	0.04	4,936.62	36,928.49
August 14, 2020	0.04	5,528.56	41,356.51
August 15, 2020	0.04	5,511.04	41,225.46
August 16, 2020	0.06	7,512.95	56,200.77
August 17, 2020	0.05	6,461.12	48,332.52
August 18, 2020	0.05	6,200.30	46,381.47
August 19, 2020	0.04	5,305.16	39,685.36
August 20, 2020	0.04	5,321.92	39,810.73
August 21, 2020	0.04	4,933.16	36,902.61
August 22, 2020	0.04	5,468.03	40,903.72
August 23, 2020	0.05	7,037.12	52,641.33
August 24, 2020	0.06	8,317.94	62,222.53
August 25, 2020	0.05	6,365.37	47,616.25
August 26, 2020	0.04	5,560.94	41,598.70
August 27, 2020	0.04	5,529.12	41,360.72
August 28, 2020	0.04	4,936.62	36,928.49
August 29, 2020	0.04	5,547.74	41,500.01
August 30, 2020	0.04	5,281.37	39,507.43
August 31, 2020	0.04	5,485.55	41,034.75
September 1, 2020	0.04	5,422.96	40,566.53
September 2, 2020	0.04	5,543.52	41,468.43
September 3, 2020	0.04	4,936.62	36,928.49
September 4, 2020	0.04	5,587.26	41,795.64
September 5, 2020	0.09	11,900.33	89,020.62
September 6, 2020	0.06	8,104.38	60,624.95
September 7, 2020	0.05	6,970.81	52,145.25
September 8, 2020	0.04	5,667.72	42,397.52
September 9, 2020	0.05	6,354.33	47,533.68
September 10, 2020	0.04	5,232.80	39,144.03
September 11, 2020	0.04	5,486.98	41,045.49
September 12, 2020	0.04	4,936.62	36,928.49
September 13, 2020	0.04	4,936.62	36,928.49
September 14, 2020	0.04	5,535.13	41,405.67
September 15, 2020	0.04	4,936.62	36,928.49
September 16, 2020	0.05	6,961.70	52,077.10
September 17, 2020	0.04	4,936.96	36,931.03
September 18, 2020	0.04	4,942.44	36,972.03

DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
September 19, 2020	0.04	4,936.79	36,929.79
September 20, 2020	0.04	4,938.45	36,942.15
September 21, 2020	0.04	4,947.82	37,012.23
September 22, 2020	0.04	4,949.72	37,026.49
September 23, 2020	0.04	4,946.64	37,003.41
September 24, 2020	0.04	4,945.42	36,994.34
September 25, 2020	0.04	4,942.41	36,971.79
September 26, 2020	0.04	4,938.71	36,944.13
September 27, 2020	0.04	4,937.40	36,934.33
September 28, 2020	0.04	5,322.97	39,818.61
September 29, 2020	0.04	4,937.88	36,937.89
September 30, 2020	0.04	4,942.11	36,969.55
October 1, 2020	0.04	4,957.90	37,087.67
October 2, 2020	0.04	5,412.21	40,486.12
October 3, 2020	0.04	4,947.80	37,012.14
October 4, 2020	0.04	4,966.65	37,153.11
October 5, 2020	0.04	5,507.26	41,197.16
October 6, 2020	0.04	4,960.07	37,103.87
October 7, 2020	0.04	4,983.53	37,279.40
October 8, 2020	0.04	4,974.28	37,210.22
October 9, 2020	0.04	5,442.74	40,714.55
October 10, 2020	0.04	4,944.56	36,987.85
October 11, 2020	0.04	4,947.19	37,007.53
October 12, 2020	0.04	5,544.29	41,474.21
October 13, 2020	0.04	4,937.45	36,934.71
October 14, 2020	0.04	4,939.08	36,946.86
October 15, 2020	0.04	4,939.08	36,946.86
October 16, 2020	0.04	4,855.05	36,318.32
October 17, 2020	0.04	4,957.23	37,082.65
October 18, 2020	0.04	4,991.08	37,335.88
October 19, 2020	0.04	5,007.10	37,455.69
October 20, 2020	0.04	5,540.65	41,446.95
October 21, 2020	0.04	5,974.37	44,691.41
October 22, 2020	0.07	8,981.28	67,184.66
October 23, 2020	0.04	5,511.14	41,226.19
October 24, 2020	0.04	4,937.61	36,935.90
October 25, 2020	0.04	5,511.67	41,230.18
October 26, 2020	0.04	4,963.74	37,131.33
October 27, 2020	0.04	4,976.36	37,225.75
October 28, 2020	0.04	5,485.15	41,031.75

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DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
October 29, 2020	0.04	4,971.19	37,187.06
October 30, 2020	0.05	6,828.31	51,079.30
October 31, 2020	0.04	4,940.13	36,954.73
November 1, 2020	0.07	9,232.38	69,063.02
November 2, 2020	0.05	7,147.39	53,466.16
November 3, 2020	0.05	6,666.03	49,865.40
November 4, 2020	0.05	6,168.45	46,143.23
November 5, 2020	0.04	5,603.82	41,919.48
November 6, 2020	0.04	5,501.74	41,155.91
November 7, 2020	0.04	4,978.79	37,243.94
November 8, 2020	0.04	4,979.70	37,250.73
November 9, 2020	0.04	5,523.77	41,320.70
November 10, 2020	0.04	4,957.76	37,086.65
November 11, 2020	0.04	5,459.70	40,841.42
November 12, 2020	0.04	4,945.15	36,992.32
November 13, 2020	0.04	4,956.55	37,077.59
November 14, 2020	0.04	5,598.46	41,879.40
November 15, 2020	0.04	5,016.24	37,524.07
November 16, 2020	0.04	5,615.32	42,005.54
November 17, 2020	0.05	6,133.06	45,878.47
November 18, 2020	0.04	5,567.72	41,649.41
November 19, 2020	0.04	5,020.95	37,559.28
November 20, 2020	0.04	5,650.11	42,265.79
November 21, 2020	0.04	5,010.78	37,483.27
November 22, 2020	0.04	4,963.05	37,126.22
November 23, 2020	0.06	7,386.27	55,253.17
November 24, 2020	0.04	4,964.91	37,140.11
November 25, 2020	0.04	4,999.58	37,399.47
November 26, 2020	0.04	4,975.56	37,219.81
November 27, 2020	0.04	4,952.54	37,047.58
November 28, 2020	0.04	4,941.53	36,965.25
November 29, 2020	0.04	4,938.08	36,939.39
November 30, 2020	0.04	4,957.77	37,086.68
December 1, 2020	0.04	4,995.38	37,368.01
December 2, 2020	0.06	8,492.27	63,526.57
December 3, 2020	0.06	7,385.20	55,245.16
December 4, 2020	0.05	6,171.07	46,162.78
December 5, 2020	0.05	6,248.78	46,744.10
December 6, 2020	0.04	5,533.08	41,390.33
December 7, 2020	0.04	5,606.29	41,937.94

DATE	DAILY VOLUME (MG)	DAILY VOLUME (CF)	DAILY VOLUME (GAL)
December 8, 2020	0.04	5,075.98	37,970.96
December 9, 2020	0.04	5,581.26	41,750.73
December 10, 2020	0.04	5,072.92	37,948.10
December 11, 2020	0.04	5,521.45	41,303.31
December 12, 2020	0.04	5,032.95	37,649.11
December 13, 2020	0.04	5,604.06	41,921.27
December 14, 2020	0.04	4,965.36	37,143.47
December 15, 2020	0.04	5,618.68	42,030.68
December 16, 2020	0.04	5,088.57	38,065.14
December 17, 2020	0.04	5,130.53	38,379.05
December 18, 2020	0.04	5,631.28	42,124.89
December 19, 2020	0.04	5,674.06	42,444.95
December 20, 2020	0.04	5,124.87	38,336.67
December 21, 2020	0.04	5,625.58	42,082.29
December 22, 2020	0.04	5,039.16	37,695.57
December 23, 2020	0.04	5,608.66	41,955.72
December 24, 2020	0.04	5,045.61	37,743.75
December 25, 2020	0.04	5,621.86	42,054.44
December 26, 2020	0.04	5,652.56	42,284.10
December 27, 2020	0.04	5,652.56	42,284.10
December 28, 2020	0.04	5,208.54	38,962.57
December 29, 2020	0.04	5,563.98	41,621.49
December 30, 2020	0.04	5,041.28	37,711.39
December 31, 2020	0.04	5,577.54	41,722.88

