



CAPITAL REGION[™]

WATER

SEPTEMBER 2023

SEMI-ANNUAL REPORT ON CONSENT DECREE IMPLEMENTATION

JANUARY 1, 2023 TO JUNE 30, 2023

&

ANNUAL MS4 STATUS REPORT

AUGUST 1, 2022 TO JULY 31, 2023

FOR

CAPITAL REGION WATER

3003 NORTH FRONT STREET

HARRISBURG, PA 17101



Executive Summary

This report fulfills the requirements of two separate regulatory reporting documents for Capital Region Water, which are listed below:

- Semi-Annual Report on Consent Decree Implementation for January 1, 2023 to June 30, 2023
- Annual MS4 Status Report for August 1, 2020 to July 31, 2023

For the Semi-Annual Report, the required information is covered in Sections 1, 2, and 3 on the operation and maintenance of the facilities. Section 4 provides a more comprehensive assessment of the status of the Wet Weather Program implementation of the partial Consent Decree requirements, which also includes the MS4 information. CRW utilizes a comprehensive and integrated approach for the operation and maintenance of combined sewers, sanitary sewers, and storm sewers within the CRW service area. The detailed Annual MS4 Status Report is included in **Appendix O**.

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Section 1

Wastewater Treatment Plant

1.A Introduction

CRW's Harrisburg Advanced Wastewater Treatment Facility (AWTF) is permitted to discharge to the Susquehanna River under NPDES Permit No. PA0027197 issued on January 1, 2010 and which expired on December 31, 2014. CRW submitted an NPDES permit renewal application to DEP in July 2014, which is currently under review. CRW owns, operates, and maintains the wastewater collection, conveyance, and treatment facilities within the City of Harrisburg.

1.B Hydraulic Loading

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT.

1.C Organic Loading

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT.

1.D Hydraulic & Organic Loading Projections

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT.

1.E Overload Reduction

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT.

1.F Maintenance & Construction

The maintenance division of the AWTF operates based on a proactive preventative maintenance program and a systematic replacement policy for inventory parts that has helped minimize downtime. The following key AWTF and pumping station projects were active during this reporting period with their status described below:

- Completion the mechanical and electrical equipment for Primary Clarifier #4

The following are anticipated projects at the AWTF and pumping stations for 2023:

- Hoffman Blowers located in Settled Sewage Pump Station replacement #1 & #2 for aeration of the Chlorine Contact Tank.
- Installation of an automated Cl₂ feed and monitoring system.
- Replacement of the sludge grinder for Belt Filter Press #2.

1.G Permit Exceedances

Partial CD Reference: V.G.29.a, Appendix A.c

Capital Region Water did not experience any NPDES permit exceedances during this reporting period.

1.H Secondary Bypass Events

Partial CD Reference: Appendix A.f

Table 1.1 summarizes the AWTF secondary bypass events during this reporting period, which includes the AWTF Influent Flow as well as the Secondary Treatment Influent Flow. The secondary bypass at the AWTF is utilized as necessary for flows in excess of 45 mgd in accordance with the NPDES Permit. The AWTF received a Notice of Violation for a secondary bypass event during a power failure in August 2022.

Table 1.1: Summary of AWTF Secondary Bypasses (January 2023 – June 2023)

Start	Stop	Duration	Ave. Influent	Ave. Secondary Influent	Bypassed Flow Rate	Bypassed Volume	Peak Influent Flow	Rain	Rain Peak Intensity	Rain Duration
(Date & Time)	(Date & Time)	(Hrs:Min)	(MGD)	(MGD)	(MGD)	(MG)	(MGD)	(in)	(in/hr)	(hr)
1/3/23 9:08 AM	1/3/23 1:26 PM	4:18	59.4	48.9	10.5	1.881	71.3	0.66	0.37	9.58
1/25/23 6:23 PM	1/25/23 10:35 PM	4:12	50.5	48.6	1.9	0.332	61.0	0.60	0.16	14.50
3/3/23 7:47 PM	3/4/23 6:48 AM	11:01	58.2	49.6	8.6	3.948	72.3	1.28	0.32	12.92
3/10/23 5:14 PM	3/10/23 6:19 PM	1:05	42.1	48.7	0.0	0.000	56.4	0.24	0.11	6.42
3/23/23 9:18 PM	3/23/23 10:19 PM	1:01	40.8	49.2	0.0	0.000	61.9	0.60	0.27	20.50
4/15/23 1:38 PM	4/15/23 2:38 PM	1:00	43.4	49.9	0.0	0.000	57.1	0.04	0.04	0.75
4/22/23 3:27 PM	4/22/23 6:36 PM	0:1	57.3	49.7	7.6	0.997	71.7	0.67	0.33	8.50
4/28/23 8:45 PM	4/29/23 3:18 AM	6:33	51.9	49.7	2.2	0.600	72.4	1.06	0.20	21.58
4/30/23 3:00 AM	5/2/23 4:00 AM	1:00	62.9	47.6	15.3	31.237	80.0	2.78	0.72	26.58
5/2/23 8:37 AM	5/3/23 12:56 AM	16:19	49.2	49.6	0.0	0.000	60.0	0.05	0.02	7.83
6/3/23 9:26 PM	6/3/23 10:48 PM	1:22	51.6	40.9	10.7	0.609	67.3	0.61	0.61	0.67
6/23/23 8:41 AM	6/23/23 12:09 PM	3:28	55.3	49.8	5.5	0.794	61.0	0.71	0.29	8.92
	: Indicates bypass gate open but no flow was bypassed									

1.I Industrial Pretreatment Program

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT.

1.J Contract Waste Hauling Program

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT.

1.K Biosolids

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT.

Section 2

Conveyance System

2.A Condition of Pumping Stations

Partial CD Reference: V.B.10.a

There are four (4) sewage pumping stations in the City of Harrisburg maintained by CRW. The Front Street and Spring Creek Pump Stations, owned and maintained by CRW, convey flow to the AWTF. The other two pump stations are both located on City Island, owned by the City of Harrisburg, maintained by CRW, and convey flow to the Front Street Interceptor and eventually to the Front Street Pump Station. The service conditions for these pumps are provided in **Table 2.1**.

Table 2.1: Pump Station Service Conditions

Pump Station	Design		2021		2023 (Projected)	
	Average (MGD)	Peak (MGD)	Average (MGD)	Peak ⁽¹⁾ (MGD)	Average (MGD)	Peak ⁽¹⁾ (MGD)
Front Street	15	60	13.5	55.3	13.74	56.3
Spring Creek	10.0	28.9	5.30	13.3	5.33	13.4
City Island - North	-	0.432	0.006	0.014	0.006	0.014
City Island - South	-	0.432		Total		Total

- Notes:
1. Peak day flows.
 2. Projected peak based on 2-year growth and 2022 peaking factor.
 3. 2022 City Island flows based on 2007 reported flows. Actual flows are not available.
 4. There is no projected increase on City Island for 2023-2024.

There are three (3) influent flow streams to the AWTF: Spring Creek Pump Station, Front Street Pump Station, and the Borough of Steelton via the Trewick Street Pump Station.

The Front Street and Spring Creek Pump Stations are maintained by CRW operations staff. All pump stations are monitored by CRW operations staff on a routine basis. In addition, all pump stations are provided with remote sensing to monitor pump operation.

The Spring Creek Pump Station is nearing the end of its useful life. Planning for the Spring Creek Pump Station will begin in the next several years.

2.B Condition of Interceptors

Partial CD Reference: Appendix B

Rehabilitation of the Paxton Creek Interceptor (PCI) started in May 2018. After installing a complete bypass pumping system (for peak dry weather flows) in the upstream 7,580 LF of the interceptor, the interceptor was cleaned and inspected with CCTV. Once the interceptor was dewatered and man entry inspections were performed in the 48-in by 59-in pipe, it was realized

that the pipe condition was significantly worse than the previous CCTV and sonar inspections revealed in 2016 and 2014, respectively. The existing concrete pipe has extensive voids, fractures (particularly in the invert), deteriorating concrete, and excessive infiltration. The condition of the pipe required much more infiltration control in order to install the centrifugally cast cementitious polymer liner than anticipated during design. From May 2018 through December 2018, 1,463 LF of the total 13,000 LF have been fully lined and another 608 LF have been lined above the springline. CRW was unable to complete the interceptor rehabilitation in 2018 in accordance with the Partial Consent Decree. Using the information gathered during the previous project, CRW has engaged consulting engineers to evaluate an appropriate rehabilitation method for the remainder of the PCI that will not be affected by the significant infiltration present in the pipe. CRW is working on incorporating construction of a new interceptor as part of the scope of a larger regional project. Due to the cost and complexity of this effort, requiring coordination with multiple municipal and private partners, the work is projected to be completed in 2030.

CRW completed the Front Street Interceptor (FSI) - Phase I rehabilitation project which includes CIPP lining of 1,900 of 30" terra cotta pipe. Construction did not start until late September of 2018 due to coordination with spring/summer activities in Riverfront Park. Then, in the initial phases of construction, the contractor uncovered unidentified utility conflicts that made the work more difficult to complete. This created contractual challenges that CRW and the contractor could not resolve, and the contract was terminated in February 2019. CRW reissued this work and construction occurred from September to November 2019. The project is complete.

For the Front Street Interceptor – Phase 2 rehabilitation, the findings of the initial assessment included approximately 11,000 LF of pipe rehabilitation. CRW added 3,600 LF in the middle of the Phase II project to provide continuity and rehabilitation of the entire stretch of pipe. This total length of pipe rehabilitation will be approximately 14,400 LF from Seneca St. to the Front St. Pumping Station. In 2020 CRW utilized a specialty contractor to temporarily take a section of the FSI out of service and perform CCTV inspections. Following review of the condition information obtained during the inspections, CRW and its consulting engineer has made a recommendation of rehabilitation using CIPP lining. Design of the FSI – Phase 2 project began in 2020 and was completed in 2021. The project was advertised for bids in February 2022. The project was awarded and Notice to Proceed was issued to the contractor in August 2022. The project was completed in July 2023.

2.C Condition of CSO Outfalls & Regulators

Partial CD Reference: V.B.10.b.i & iv, V.F.28.b

CRW operates and maintains 59 CSO regulator structures located along the Front Street, Paxton Creek, Paxton Creek Relief, and Hemlock Street interceptor sewers, which ultimately direct combined wastewater (sanitary wastewater and stormwater) to the AWTF. During dry weather conditions, the CSO regulator structures divert all of the combined wastewater from the trunk sewer lines to the interceptor sewers. During wet weather, the rate and volume of the sanitary and stormwater flow from the system of collector sewers increases significantly and can exceed the capacity of the downstream interceptor sewers and the treatment facility. When this occurs, the CSO regulator structures (sometimes called diversion structures) divert a controlled volume of flow to the interceptor, while untreated excess combined stormwater and wastewater is

discharged to receiving waters. The receiving waters are the Susquehanna River for regulator structures along the Front Street interceptor, and Paxton Creek (a tributary of the Susquehanna) for regulators along the Paxton Creek, Paxton Creek Relief, and Hemlock Street interceptors. In addition to the 59 CSO regulator structures and outfalls, there are two additional CSO outfalls at the Front Street pumping station and the Spring Creek pumping station. These are permitted emergency outfalls (CSO-002 and CSO-003) that only activate during a mechanical failure of the pump stations or if the station capacities are exceeded during extreme storms. Each regulator has a dedicated outfall, with one exception in which two regulators serve a common outfall. Therefore, there are a total of 60 outfalls (including those from the pumping stations).

2.C.1 Operational Status of Major Overflow Points

There was no change in the operational status of the combined sewer overflows during this reporting period. The regulators and diversion chambers were inspected in 2013. They are also inspected on a daily basis by CRW field crews to ensure proper operation.

During the manhole inspections in Fall 2015, zoom cameras were utilized to inspect each flood chamber, gates, and outfall pipe. This information was analyzed for structural integrity as well as for operation and maintenance issues. The condition assessment findings and proposed plan for addressing critical structural deterioration and river intrusion are summarized in the February 10, 2016 *CSO Outfall Repair Early Action Project Schedule* submittal, with additional details provided in the June 2, 2016 response to EPA comments. According to this plan, recommendations for early action projects to address severe structural deterioration and chronic river intrusion were developed during the first half of 2017, provided to EPA in April 2017, and integrated into CRW's City Beautiful H₂O Program Plan (CBH2OPP), submitted April 2018.

CRW identified the following outfalls for early action flap gate repair or replacement: 006, 008, 021, 022, 024, 032, and 051. CRW's field staff determined that repairs were not feasible, and the flap gate replacements will be significant projects that will be incorporated as part of a future capital projects or as a separate IDIQ contract. The flap gate at outfall 022 is partially operable and currently utilized.

CRW has addressed the structural issues at 010, 034, 053, and 062. CRW also repaired and rebuilt two weirs as part of their ongoing monitoring and maintenance work.

CRW developed a phased approach for regulator modifications following the Front Street Pump Station Upgrade. The Phase 1A regulator modifications involved chaining open selected B&B gates and raising weirs for Hemlock Street Interceptor (HSI) CSO regulators and select CSO regulators prone to Paxton Creek backflow. The regulator modifications completed during the previous reporting period are summarized below. The weir at CSO-022 was raised by 1-ft, which is partly preventing river intrusion.

Table 2.2. Summary of Phase 1A CSO Regulator Modifications

CSO Regulator	Disconnect B&B Gates	Increase Weir Elevation	Expand Orifice Opening
CSO-060	✓	NA	NA
CSO-061	✓	1 ft	24" Diam. (or equivalent)
CSO-062	✓	1 ft	8" Diam. (or equivalent)
CSO-063	✓	1 ft	12" Diam. (or equivalent)
CSO-064	✓	1 ft	8" Diam. (or equivalent)
CSO-021	NA	2 ft (ongoing)	NA
CSO-022	NA	2 ft (ongoing)	NA
CSO-024	NA	2.5 ft	NA
CSO-032	NA	2.5 ft	NA

2.C.2 Regulator Inspections

Partial CD Reference: V.B.10.g.i

CRW continues to perform daily regulator inspections at each regulator in the system to check operational status and identify any overflow events that may have occurred during the previous 24 hours. Each of the 59 regulator structures were inspected once per day during the six-month reporting period. **Appendix K-3A** provides the Combined Sewer Overflow Report by Outfalls based on *FIELD OBSERVATIONS*.

2.D CSO Discharges & Dry Weather Overflows

Partial CD Reference: V.V.10.g.i, V.G.30, Appendix A.e

2.D.1 Wet Weather CSO Discharges

CRW applied its calibrated Hydrologic and Hydraulic (H&H) model to evaluate the performance of the combined sewer system during the first half of 2023 (2023 H1). The response of the combined sewer collection system to wet weather events is characterized in terms of the volume of wet weather flow captured. The evaluation includes an assessment of the frequency of overflow events and a comparison of the model simulation results to CRW daily visual observation of CSO occurrence. **Appendix K-3B** provides the Combined Sewer Overflow Report by Outfall based on *H&H MODEL SIMULATION*.

Figure 2.1 compares the 2023 H1 precipitation record to the 2016 through 2022 precipitation records as well as the Typical Year monthly precipitation volumes with +/- 1 standard deviation values from the historic median for the respective monthly volumes. The precipitation volumes are shown as the average of all gauges within the CRW service area. During the first half of 2023 (2023 H1), monthly precipitation volumes were comparable to the Typical Year precipitation volumes and were generally within +/- 1 standard deviation of the historic median precipitation, except April 2023 was somewhat higher and May 2023 was somewhat lower than the Typical

Year. In total, there was an average of 15.5 inches of precipitation (rainfall and snowfall) over the CRW service area during 2023 H1, compared to 15.9 inches during Typical Year precipitation.

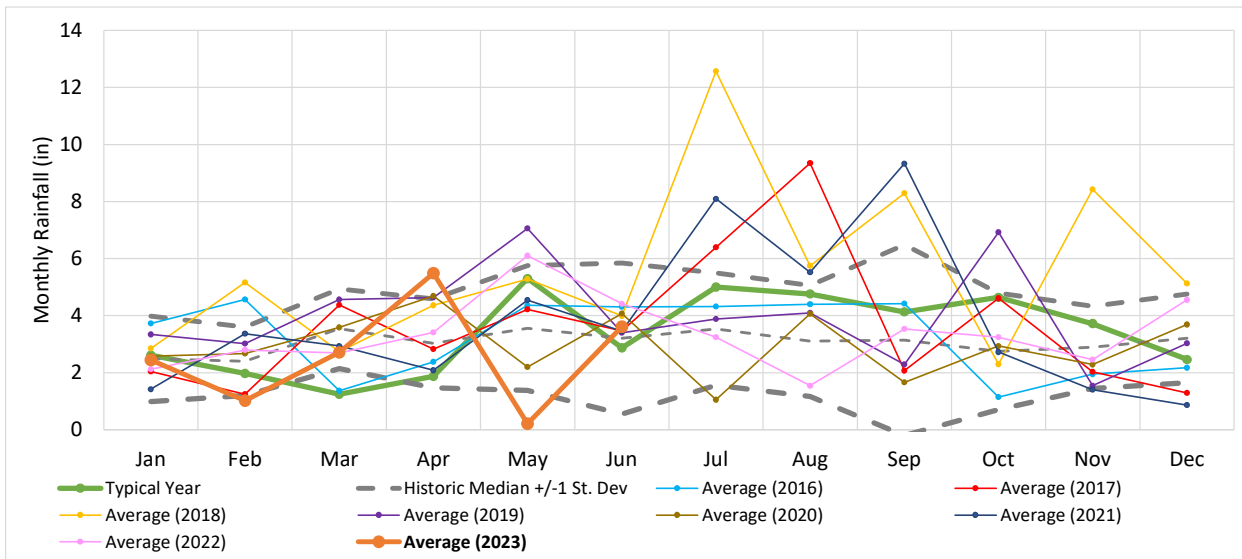


Figure 2.1: Rainfall Comparison between 2016 through 2023 H1 and the Typical Year

Figure 2.2 shows the cumulative distribution of precipitation by event for 2016 through 2023 H1 and the Typical Year, which shows that the 2023 H1 precipitation had a comparable size distribution of individual storms relative to the Typical Year. **Figure 2.3** shows the distribution of individual storms with respect to intensity and volume during 2016 through 2023 H1 and the Typical Year. Generally, the storm events for 2023 H1 fit within the Typical Year range of distribution of individual storms. In total, there were 42 storm events during 2023 H1, compared to 44 storm events during the first half of the Typical Year.

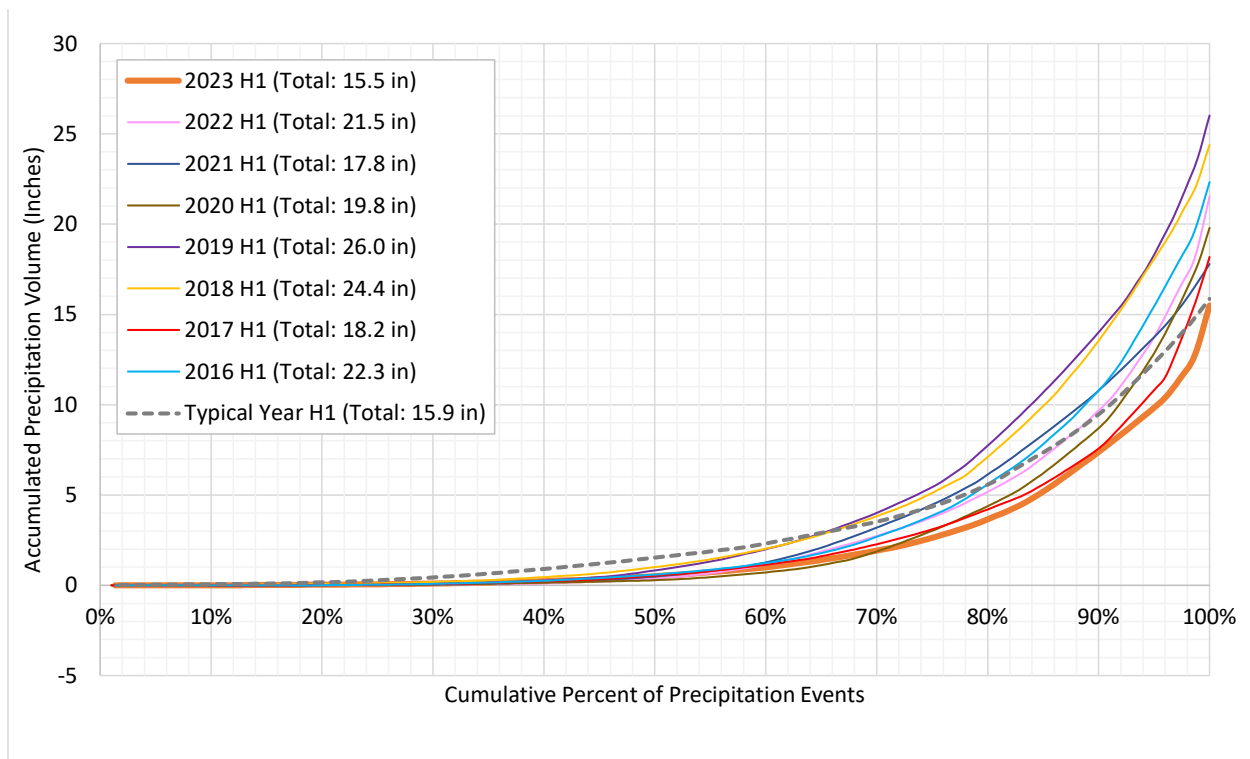


Figure 2.2: Cumulative Percent of Precipitation Events versus Accumulated Precipitation Volume for 2016 through 2023 H1 and the Typical Year

Figure 2.4 compares H&H model simulations with the daily CSO observations (performed by CRW crews) during 2023 H1, indicating that model projections of overflow occurrence correspond well with those observed during visual inspections. In general, the model performs well in simulating CSO overflows for small and/or short duration storms that may not be apparent by visual inspections alone. This is a limitation of observing weir block movement, which may not occur if the depth over the weir is too small, and/or the duration too short, to cause movement. Note that a few CSO diversion weirs along Paxton Creek have minimal freeboard with respect to the Paxton Creek water surface elevation; therefore, creek intrusion into the system may occur when Paxton Creek is elevated. Typically, this inflow is minimal, but it can be enough to move the overflow detection devices (tethered wooden blocks) CRW field crews use to monitor overflows which have occurred in the previous 24 hours prior to an inspection. When this occurs, it is not possible to distinguish whether an overflow that may have occurred in the previous 24 hours was the cause of the overflow detection device movement. Historically, CSOs 021, 024, 032, and 039 have been especially prone to creek intrusion (although volumes are low), and therefore the field observation data may be skewed. However, for these CSO regulators, the weirs have either been recently raised or are in the planning stages to be raised. Additionally, this uncertainty is offset by CRW continuously monitoring the flow depth of Paxton Creek at four critical locations and the water surface profile of the creek being input into the hydrologic/hydraulic (H/H) model used to calculate the CSO statistics. These CSOs, among others, are scheduled for flap gate replacement.

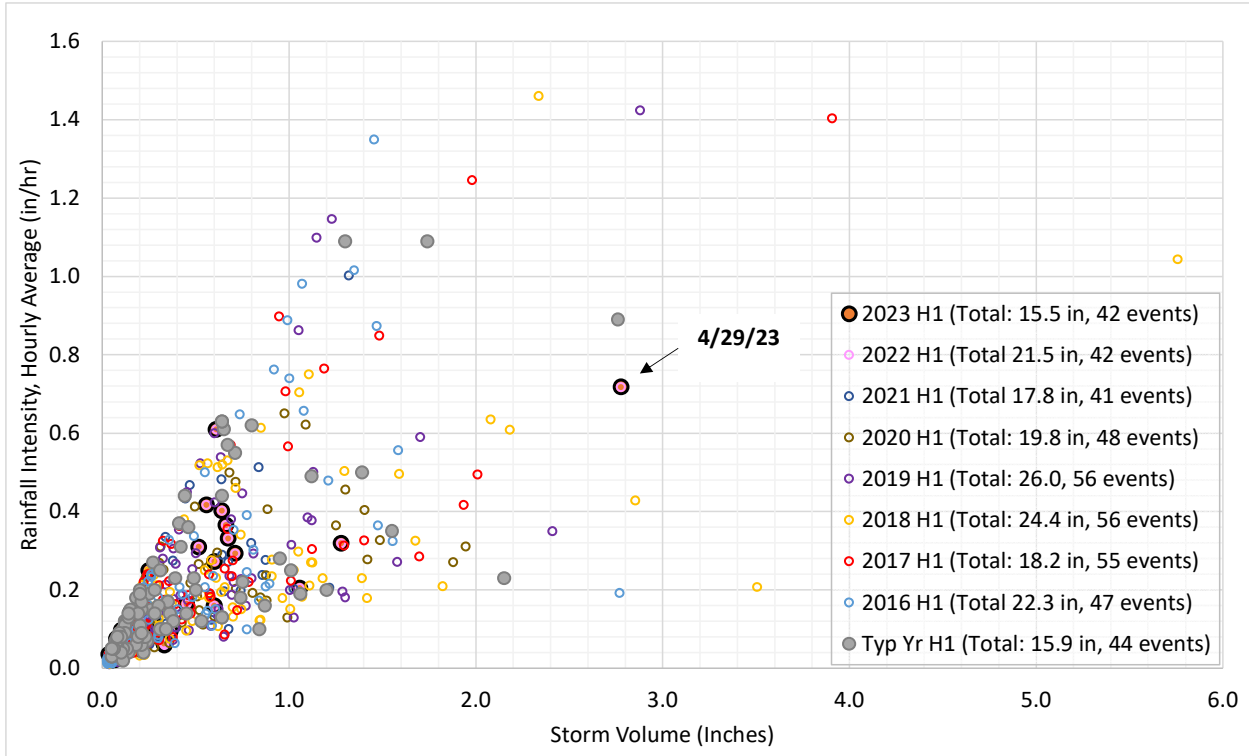


Figure 2.3: Total Rainfall Event Volume versus Peak 1-hour Precipitation Intensity for 2016 through 2023 H1 and the Typical Year

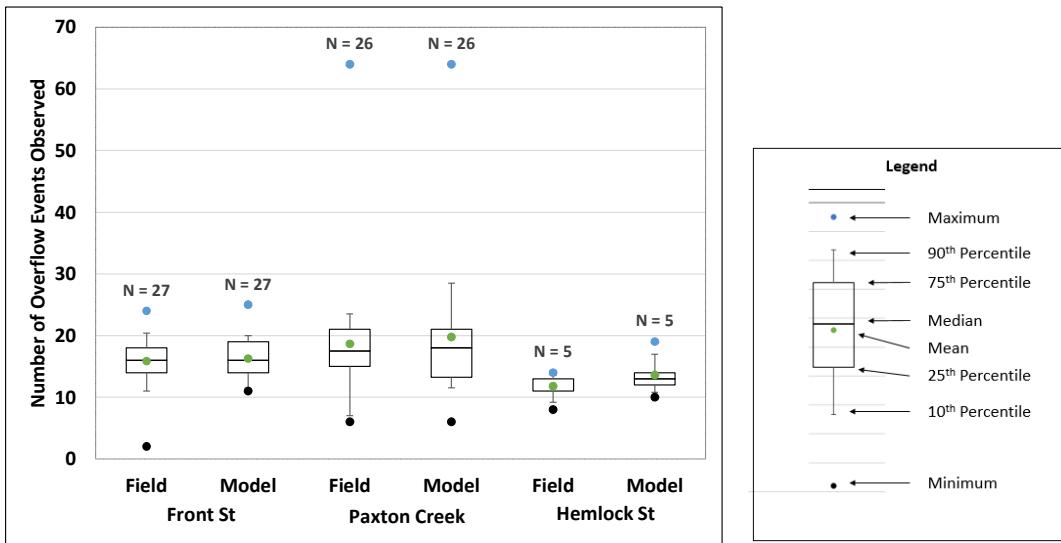


Figure 2.4: Comparison of Field and Model-Simulated Overflow Occurrences by Interceptor during 2023 H1.

Table 2.2 summarizes the CSO statistics for each outfall based on the H&H model simulation. The following conclusions can be drawn from an evaluation of the rainfall data and CSO capture/discharge statistics.

- Compared to Typical Year (first half of the year) precipitation of 15.9 inches, the total 2023 H1 rainfall volume of 15.5 inches was similar. Additionally, storm event frequency (44 events during first half of Typical Year, 42 events during 2023 H1) was similar.
- Approximately 370 million gallons (MG) of combined wastewater was captured during 2023 H1 (compared to 430 MG during the first half of the Typical Year precipitation), and approximately 270 MG was discharged during 2023 H1 (compared to 280 MG during the first half of the Typical Year precipitation). The CSO discharge corresponds to a systemwide percent capture of 59% **during wet weather periods** which is comparable to the Typical Year H1 percent capture of 62%.
- While there are numerous overflows for each outfall, many of those overflows have relatively small volumes and relatively short durations, thus reducing their potential impact on receiving waters.
- It is important to note that while the systemwide wet weather capture for 2023 H1 was 59% and the CSO discharge volume was 270 MG, the total wastewater volume that was captured and treated from the CRW service area during 2023 H1, including both dry and wet weather periods, was 3,130 MG. During the 2023 H1 reporting period, 92% of the wastewater generated within the CRW service area was successfully conveyed and treated.

Table 2.2 Combined Sewer System Wet Weather Characterization for 2023 H1 by CSO Regulator

Interceptor	CSO	Capture Volume (MG)	Overflow Volume (MG)	Capture %	Number of Hours Overflow	Number of Overflows	Drainage Area (acres)
Front Street Interceptor	CSO-04	2.4	2.8	49%	61	19	34
	CSO-05	4.2	3.8	52%	48	16	74
	CSO-06	2.6	1.3	66%	33	15	19
	CSO-07	2.6	1.6	55%	30	18	16
	CSO-08	4.3	5.9	47%	49	19	40
	CSO-09	8.2	8.9	49%	42	15	67
	CSO-10	13	5.7	70%	81	20	42
	CSO-11	3.7	4.5	44%	45	18	31
	CSO-12	2.4	2.6	47%	43	18	25
	CSO-13	2.3	1.1	69%	12	11	16
	CSO-14	10	3	77%	36	17	30
	CSO-15	3.3	2.2	60%	40	14	20
	CSO-16	0.67	0.79	47%	23	14	8
	CSO-17	1.2	0.26	82%	6	11	6
	CSO-18	3.9	3.5	56%	35	17	31
	CSO-19	2.8	2.2	56%	43	19	41
	CSO-20	0.29	0.033	89%	5	11	16
	CSO-49	5.4	2.2	71%	39	15	28
	CSO-50	9.2	2.5	79%	62	21	42
	CSO-51	20	7.6	72%	127	27	79
	CSO-52	4.4	3	60%	47	20	22
	CSO-53	1.9	0.75	71%	15	11	10
	CSO-54	1.4	1	57%	25	16	8
	CSO-55	2.4	1.6	60%	20	12	14
	CSO-56	2	1.4	58%	26	15	10
	CSO-57	1.4	1.8	41%	39	18	16
	CSO-58	1.1	0.22	83%	7	12	22
		Subtotal	120	72	66%		
Paxton Creek Interceptor	CSO-21	22	8.8	71%	280	24	149
	CSO-22	2	0.38	83%	17	6	20
	CSO-23	1.3	0.29	82%	12	12	16
	CSO-24	14	3.1	82%	23	16	158
	CSO-25	1.6	0.62	65%	34	7	10
	CSO-26	3.8	4.3	47%	80	23	51
	CSO-27	2.3	0.91	71%	39	19	8
	CSO-28	7.2	4.1	63%	40	17	54
	CSO-29	3.8	4.2	50%	92	25	43

Table 2.2 Combined Sewer System Wet Weather Characterization for 2023 H1 by CSO Regulator

Interceptor	CSO	Capture Volume (MG)	Overflow Volume (MG)	Capture %	Number of Hours Overflow	Number of Overflows	Drainage Area (acres)
	CSO-30	4.9	0.69	87%	18	11	40
	CSO-31	32	16	67%	105	23	220
	CSO-32	0.036	4.2	0%	897	41	14
	CSO-33	2.2	2	57%	47	12	20
	CSO-34	9.6	7.9	55%	98	28	62
	CSO-37	8.5	9.1	48%	72	23	77
	CSO-38	2.6	2.6	48%	39	14	19
	CSO-39	1.6	3	28%	66	20	21
	CSO-40	0.84	1.3	40%	53	18	12
	CSO-41	1.7	0.9	66%	32	18	12
	CSO-42	17	11	61%	229	31	6
	CSO-43	1	0.66	61%	25	14	6
	CSO-44	7.8	2.8	74%	30	18	47
	CSO-45	1.3	0.73	65%	14	13	10
	CSO-46	2	0.56	79%	14	13	9
	CSO-48	61	89	41%	104	22	766
	CSO-59	18	11	64%	54	15	154
	Subtotal	230	190	55%			2,004
	Hemlock Creek Interceptor	CSO-60	1.1	0.82	57%	21	13
CSO-61		9.2	1.3	88%	10	10	56
CSO-62		3.3	1	77%	19	12	10
CSO-63		3.9	1.8	69%	24	11	40
CSO-64		1.6	0.14	92%	3	7	11
Subtotal		19	5	79%			133
System Total (H1)	2023 H1	370	270	59%			2,904
	2022 H1	420	390	54%			
	2021 H1	380	300	58%			
	2020 H1	410	350	56%			
	2019 H1	530	440	57%			
	2018 H1	540	410	57%			
	2017 H1	420	260	62%			
	Typical Year H1	430	280	62%			

Table 2.2 Combined Sewer System Wet Weather Characterization for 2023 H1 by CSO Regulator

Interceptor	CSO	Capture Volume (MG)	Overflow Volume (MG)	Capture %	Number of Hours Overflow	Number of Overflows	Drainage Area (acres)
System Total (Full Year)	2021	800	1,100	43%			2,904
	2020	790	580	59%			
	2019	990	900	54%			
	2018	1,200	1,400	49%			
	2017	830	900	49%			
	2016	990	790	56%			
	Typical Year	860	800	53%			

2.D.2 Dry Weather CSO Discharges

There were eight dry weather overflows observed during this six-month reporting period, which resulted from silt/debris/grease accumulation creating blockages or construction. Further details for each DWO are provided in **Appendix K-5**. CRW has a proactive daily regulator inspection program to ensure that DWOs are prevented where possible and detected when they occur as soon as possible. CRW promptly resolves DWOs upon detection and removes accumulated material from the banks of the receiving waters. The total estimated discharge volume from the twelve events was about 4,153 gallons, which is a minimal quantity presenting insignificant impacts to the receiving water.

Section 3

Collection System

3.A Sewer System Extensions

THIS SECTION WILL BE UPDATED FOR THE COMPLETE 2023 CALENDAR YEAR IN THE CHAPTER 94 REPORT

3.B Condition of Collection System

Partial CD Reference: V.B.10.a

There are approximately 160 miles of collection system sewers in the City of Harrisburg, which include combined sewers, separate sanitary sewers, and separate storm sewers. The combined collection system conveys wastewater and stormwater runoff during wet weather periods. During wet weather events when the combined flow exceeds the dry weather peak flow capacity, there are regulators and diversion chambers which intercept a portion of the wet weather flow for treatment at the AWTF and divert remaining flow to either Paxton Creek or the Susquehanna River. Approximately 80% of the collection system was installed prior to 1940.

3.B.1 Remedial Collection System Maintenance Activities

CRW is required to address long-standing deferred maintenance of its collection system according to the requirements of the partial CD and as further defined under CRW's NMC Plan and OMM. CRW also responds to customer service requests for maintenance, including flushing and cleaning of manholes, collection and conveyance lines as necessary. CRW responds to emergency sewer issues and repairs sewer mains as necessary. CRW also vacuumed, repaired, and/or rebuilt stormwater inlets. **Appendix J** provides the Collection System Activity Report. The comprehensive inlet cleaning and repair progress over the last several years is summarized in **Table 3.1**. During this reporting period CRW's significant maintenance efforts within the collection system resulted in the following accomplishments:

- Cleaned 992 inlets.
- Repaired 113 inlets.
- Replaced 3 inlets.

Table 3.1: Remedial Inlet/Catch Basin Maintenance Progress

Progress Report Period	Cleaned Inlets	Repaired Inlets
2014 (Jan) to 2015 (Jun)	292	150
2015 (Jul-Dec)	165	100
2016 (Jan-Jun)	131	82
2016 (Jul-Dec)	277	39
2017 (Jan-Jun)	404	154
2017 (Jul-Dec)	692	130
2018 (Jan-Jun)	758	76
2018 (Jul-Dec)	943	89
2019 (Jan-Jun)	738	123
2019 (Jul-Dec)	211	134
2020 (Jan-Jun)	85	94
2020 (Jul-Dec)	263	97
2021 (Jan-Jun)	383	63
2021 (Jul-Dec)	510	72
2022 (Jan-Jun)	797	83
2022 (Jul-Dec)	793	179
2023 (Jan-Jun)	992	113
Total Addressed	8,434	1,778
Percent Addressed (of Entire System)	>100%	47%

- Inspected 925 inlets.
- Investigated and/or repaired 26 sinkholes.

3.B.2 Collection System Inspection, Prioritization, and Mapping Activities

CRW previously completed a rapid assessment of its collection system by using zoom cameras to inspect every manhole and connected pipes. CRW is utilizing this data in the following ways:

- Update the GIS mapping and H&H model to provide a better understanding of the connectivity and sewershed / catchment boundaries.
- Applying their asset management program to develop a prioritized schedule for early-action maintenance and repair of collection system sewers and manholes.
- Schedule a comprehensive prioritized CCTV inspection of the collection system, which began in 2016 and is scheduled to be completed by mid-2025.

CRW continued to advance their Asset Management Program, which determines the core risk, failure modes, and mitigation factors for asset. The Program is utilized to prioritize inspection, repair, replacement, and rehabilitation needs in the collection system.

CRW completed CCTV inspections of 8.69 miles of collection system sewer during this reporting period.

3.B.3 Collection System Rehabilitation and Repair Activities

During the reporting period, CRW advanced the following collection system rehabilitation and repair projects:

- In December 2015, CRW completed a CCTV inspection and evaluation of approximately 5,000 LF of 10-in to 24-in sanitary sewer in the vicinity of Arsenal Blvd. Based on the findings of the evaluation, CRW continued with further evaluation of alternatives, including topographical survey and additional CCTV investigation of tributary storm (2,412 LF) and sanitary (2,289 LF) sewers in the area in June 2016. During 2019 and 2020 CRW continued design work, which will include rerouting portions of the sewer that are within the stream and areas of severe slopes. Design was completed in 2020, and the project was bid in early 2021. Based on the bid results, CRW is planning to rebid the project following a redesign.
- CRW publicly bid its current sewer replacement and rehabilitation project in June 2021 and portions of the project, including point repairs and manhole/inlet replacements were completed under the initial contract. The remaining work was rebid as two separate contracts in September 2022, as summarized below. Construction is ongoing.
 - Open Cut Excavation: approximately 858 linear feet of 10-inch through 36-inch sewer pipe installation; replacement of nine (9) sewer manholes; installation of three (3) sewer manholes; abandonment of five (5) sewer manholes; replacement of 21 storm sewer inlets; removal of two (2) storm water inlets; replacement of three (3) storm sewer inlet tops; repainting of three (3) existing brick storm sewer inlets.

- Trenchless Rehabilitation: approximately 9,866 linear feet of cured-in-place (CIPP) lining of 8-inch through 36-inch diameter sewer main; removal of 71 intruding laterals; CIPP lining lateral reinstatement of 258 sewer laterals; 70 linear feet of geopolymer lining of 36-inch diameter sewer main; rehabilitation of 29 sewer manholes.

3.C Sanitary Sewer Overflows & Combined Sewer Unauthorized Discharges

Partial CD Reference: Appendix A.d

Table 3.2 summarizes the sanitary sewer overflows (SSO) and combined sewer unauthorized discharges (UD) that occurred during this reporting period, as well as the previous reporting period. These events were reported to PADEP in accordance with the partial CD requirements. These SSOs and UD are the result of unexpected blockages or construction rather than hydraulic capacity constraints.

Table 3.2: Summary of Sanitary Sewer Overflows and Unauthorized Discharges

Date	Location	SSO or UD	Issue	Duration (Hrs)	Volume (Gallons)
1/24/23	2407 Kensington St.	UD	Basement backup, grease/wipes in main	1	
3/21/23	Front St. Interceptor at Chesnut St.	UD	Broken bypass pumping pipe	1	13,250
4/27/23	1512 Naudain St.	UD	Basement backup, grease/wipes in main	2	

Section 4

Wet Weather Control Program Progress Report

4.A Partial Consent Decree Requirements & Deadlines

Capital Region Water entered into a partial Consent Decree (CD) with the Department of Justice (DOJ), United States Environmental Protection Agency (EPA), and the Pennsylvania Department of Environmental Protection (DEP) for the management of their combined, sanitary, and storm sewer systems, as well as their pumping stations and Advanced Wastewater Treatment Facility. The Date of Lodging for the partial CD was February 13, 2023. The partial CD became effective when it was entered by the Court on August 25, 2023. These dates serve as the starting points for multiple deadlines within the partial CD, whereas other dates were independently established and in some cases precede the Date of Lodging.

CRW has fulfilled the partial CD requirements during this reporting period from January 1, 2023 to June 30, 2023, as summarized in **Table 4.1** and highlighted in green within the table. Additionally, CRW completed activities with completion deadlines prior to January 1, 2023, which are also summarized in Table 4.1 and highlighted in gray within the table. Table 4.1 also identifies compliance deadlines for the next reporting period, from July 1, 2023 to December 31, 2023, as stipulated by the partial CD. Compliance dates during this next reporting period that were met prior to this progress report are highlighted in blue within Table 4-1. Compliance dates that occur after the next reporting period are not color-coded within Table 4-1.

4.B Compliance Table

In order to document the relationship between the work that CRW has completed and each line item within the partial CD, **Table 4.2** outlines the following items:

- Partial CD Reference
- Description of Partial CD Requirement
- Deadline
- Progress to Date (1/1/23 to 6/30/23)
- Proposed Work (through 12/31/23)
- Compliance Status

The following color shading, similar to Table 4.1, has been applied to Table 4.2:

- Gray: completed in a previous reporting period
- Green: completed in the current reporting period
- Blue: already completed for the next reporting period
- Yellow: will be completed during the next reporting period

CRW has made significant progress in developing programs and projects in order to fulfill the future requirements of the partial CD.

Table 4.1: CRW Partial CD Deliverable Schedule and Tracking

Deliverable	CD Section	Deadline	Status
Date of Lodging of Consent Decree	IV(8)(p)	2/13/2023	Complete
Updated Water Quality Modeling Plan	V(D)(16)	6/10/2022	Complete
Table of Deliverables (List of Deadlines)	VII(A)(14)	9/4/2023	Complete
Public Notification Plan	V(B)(10)	9/24/2023	Complete
Updated Sensitive Areas / Priority Areas Report	V(D)(18)	9/24/2023	Complete
CSO Outfall Repair	V(F)(28)(b)	2/13/2024	
Annual Update of NMC Plan / O&M Manual	V(C)(11)(a) & V(C)(12)	3/31/2024	
Annual Update of NMC Plan / O&M Manual	V(C)(11)(a) & V(C)(12)	3/31/2025	
Annual Update of NMC Plan / O&M Manual	V(C)(11)(a) & V(C)(12)	3/31/2026	
Annual Update of NMC Plan / O&M Manual	V(C)(11)(a) & V(C)(12)	3/31/2027	
Financial Capability Assessment	V(D)(17)	2/25/2024	
Alternatives Analysis	V(D)(19)	3/31/2024	
Water Quality Model Report (Submit with Alternatives Analysis)	V(D)(17)	3/31/2024	
Revised Long Term Control Plan	V(D)(13)	12/31/2024	
Asset Inspection and Re-Inspection (Summary in Semi-Annual Reports)	V(F)(27)	3/31&9/30	
Technical Memorandum on Flow Monitoring (Annually with Chapter 94 Report)	V(D)(14)(a)	3/31/2024	
MS4 Permit - MCMs Compliance	V(C)(12)	7/31/2025	
Semi-Annual Report/ Annual MS4 Report & Meeting	VII(A)(40)	9/30/2023	Complete
Semi-Annual Report (with Chapter 94 Report) & Meeting	VII(A)(40)	3/31/2024	
Semi-Annual Report/ Annual MS4 Report & Meeting	VII(A)(40)	9/30/2024	
Semi-Annual Report (with Chapter 94 Report) & Meeting	VII(A)(40)	3/31/2025	
Semi-Annual Report/ Annual MS4 Report & Meeting	VII(A)(40)	9/30/2025	
Semi-Annual Report (with Chapter 94 Report) & Meeting	VII(A)(40)	3/31/2026	
Semi-Annual Report/ Annual MS4 Report & Meeting	VII(A)(40)	9/30/2026	
Semi-Annual Report (with Chapter 94 Report) & Meeting	VII(A)(40)	3/31/2027	
Semi-Annual Report/ Annual MS4 Report & Meeting	VII(A)(40)	9/30/2027	
CSO Control Projects (Appendix B)	V(F)(28)(c)	12/31/2032	
<i>Storm Sewer Diversion in CSO-048</i>	Appendix B	12/31/2032	
<i>Sewer Separation (S-027,032,041,060)</i>	Appendix B	12/31/2025	
<i>Modification of select CSO Regulators (FSP)</i>	Appendix B	6/30/2022	Complete
<i>Front Street Interceptor</i>	Appendix B	7/31/2023	Complete
<i>AWTF Primary Clarifier Improvements</i>	Appendix B	12/31/2024	
<i>AWTF Digester</i>	Appendix B	12/31/2022	Complete
<i>Cogeneration to RNG/WAS</i>	Appendix B	3/31/2024	
<i>Gravity Thickeners</i>	Appendix B	3/31/2025	

Deliverable	CD Section	Deadline	Status
<i>Secondary Digester Conversion</i>	Appendix B	12/31/2027	
<i>Dewatering Improvements</i>	Appendix B	12/31/2027	
<i>AWTF Renewal - Phase 1</i>	Appendix B	12/31/2025	
<i>AWTF Renewal - Phase 2</i>	Appendix B	12/30/2030	
<i>AWTF Renewal - Phase 3</i>	Appendix B	12/31/2032	
<i>Decentralized Green/Grey Controls - Phase 3</i>	Appendix B	12/31/2022	Complete
<i>Decentralized Green/Grey Controls - Phase 4</i>	Appendix B	6/30/2024	
<i>Decentralized Green/Grey Controls - Phase 5</i>	Appendix B	6/30/2025	
<i>Decentralized Green/Grey Controls - Phase 6</i>	Appendix B	12/31/2030	
<i>Decentralized Green/Grey Controls - Phase 7</i>	Appendix B	12/31/2032	
<i>Collection System Renewal - Phase 1</i>	Appendix B	12/31/2025	
<i>Collection System Renewal - Phase 2</i>	Appendix B	12/31/2030	
<i>Collection System Renewal - Phase 3</i>	Appendix B	12/31/2032	
<i>Paxton Creek Interceptor</i>	Appendix B	6/30/2030	
<i>CSO Regulator Structures - FSI</i>	Appendix B	6/30/2023	Ongoing
<i>CSO Regulator Structures - PCI</i>	Appendix B	9/30/2030	
<i>Spring Creek Pump Station and Interceptor</i>	Appendix B	12/31/2028	
<i>NMC 6 - Phase 1 Inspection</i>	Appendix B	12/31/2026	
<i>NMC 6 - Phase 2 Construction</i>	Appendix B	12/31/2030	

Table 4.2: General Description of Work Completed in Reporting Period and Planned for Next Reporting Period

Consent Decree Paragraph	Consent Decree Requirement	Deadline/Compliance Status	Progress to Date (1/1/23 to 6/30/23)	Proposed Work (7/1/23 to 12/31/23)
V.B	Nine Minimum Controls			
V.B.10	Implement the revised and updated NMC Plan.	Ongoing	CRW continues to implement the NMC Plan.	CRW will continue to implement the NMC Plan.
V.B.10.a	Implement an O&M Program with an OMM, including review and update at least once calendar year.	Annual updates on March 31.	CRW will collect information for the next OMM Update.	CRW will submit the next OMM Update.
V.B.10.b	Maximize use of storage in collection system.			
V.B.10.b.i	Investigate and document currently installed river intrusion prevention measures; perform repairs, replacements, and maintenance to prevent river intrusion.	Ongoing	CRW previously identified early-action improvements to CSO outfalls that address critical structural and/or chronic river intrusion. CRW will focus on CSO outfalls that are unlikely to be eliminated, consolidated, replaced, relocated, or separated under the CSO LTCP and/or related flood control projects. Four outfalls have been repaired. Phase 1A regulator and weir modifications were also completed. Two weirs were rebuilt during this period.	CRW will continue to advance early-action improvements to CSO outfalls that address critical structural and/or chronic river intrusion. CRW will focus on CSO outfalls that are unlikely to be eliminated, consolidated, replaced, relocated, or separated under the CSO LTCP and/or related flood control projects.
V.B.10.b.ii	Continue internal investigations and hydraulic modeling to identify priority remedial work to maximize in-pipe storage.	Ongoing	CRW continues to investigate and model the system to maximize in-pipe storage.	CRW will continue to investigate and model the system to maximize in-pipe storage.
V.B.10.b.iii	Identify portions of the combined sewer system that accumulate material and identify frequency for routine cleaning.	Ongoing	CRW continued to evaluate collection system data to establish priorities for remedial repairs and maintenance and continue advancing systemwide CCTV inspections.	CRW will continue to evaluate collection system data to establish priorities for remedial repairs and maintenance and continue advancing systemwide CCTV inspections.
V.B.10.b.iv	Repair areas identified where river intrusion occurs through cracked and damaged outfall pipes; develop a priority list and repair schedule for monitoring, repair, or replacement.	Ongoing	CRW previously identified early-action improvements to CSO outfalls that address critical structural and/or chronic river intrusion. CRW will focus on CSO outfalls that are unlikely to be eliminated, consolidated, replaced, relocated, or separated under the CSO LTCP and/or related flood control projects. Four outfalls have been repaired. Phase 1A regulator and weir modifications were also completed. Two weirs were rebuilt during this period.	CRW will continue to advance early-action improvements to CSO outfalls that address critical structural and/or chronic river intrusion. CRW will focus on CSO outfalls that are unlikely to be eliminated, consolidated, replaced, relocated, or separated under the CSO LTCP and/or related flood control projects.
V.B.10.c	Maximization of flow to POTW for treatment; take measures in NMC Plan	Ongoing	CRW continued to maximize flow to the POTW.	CRW will continue to maximize flow to the POTW.
V.B.10.d	Elimination of CSOs during dry weather; take measures in NMC Plan	Ongoing	CRW reported all dry weather overflows in accordance with the guidelines.	CRW will continue their current practices.
V.B.10.e	Control of solids and floatable material. Conduct annual evaluations and implement corrective actions.	Ongoing	CRW removed waste material that has accumulated on the stream banks, if applicable.	Options for floatables control will be evaluated in upcoming projects.
V.B.10.f	Implement public notification procedures and document implementation in semi-annual reports.	Ongoing	CRW updated CSO signage at multiple outfall locations as detailed in the NMC Plan v.8.0.	CRW will continue to update signage and notification procedures, as needed.
V.B.10.f.i	Submit a Public Notification Plan, which describes and specifies how and when CRW will notify the public about CSO events.	9/25/2023	CRW prepared the Public Notification Plan (refer to Appendix P).	CRW submitted the Public Notification Plan.
V.B.10.f.ii	Continuously maintain signs or placards at each CSO outfall.	Ongoing	CRW continued to maintain the signage.	CRW will continue to maintain the signage.
V.B.10.f.iii	Install warning signs at public stream access points.	Ongoing	Signs are installed at access points.	CRW will continue to maintain the signage.
V.B.10.f.iv	Install monitors that include real-time alert/notification systems at 10 locations.	3/23/2024	Included in the Public Notification Plan.	CRW will prepare for implementation.
V.B.10.f.v	Develop written procedures and provide the public and the City with information concerning CSO discharge occurrences and their impacts on water quality in the receiving waters.	Ongoing	Refer to Public Notification Plan.	CRW will continue to implement the requirements.
V.B.10.f.vi	Distribute CSO pamphlets for education of the general public.	Ongoing	CRW continued to distribute CSO information via multiple formats.	CRW will continue to distribute CSO information via multiple formats.
V.B.10.f.vii	Evaluate and document CSO public education programs and community response and develop follow-up plans.	Ongoing	CRW continued to implement their public outreach, education, and notification programs.	CRW will further advance their notification program. CRW will continue with public outreach events and communications.
V.B.10.f.viii	Investigate and document public involvement.	Ongoing	CRW continued to monitor and document public involvement.	CRW will continue to monitor and document public involvement.
V.B.10.f.ix	Consider implementing email and/or text message public notification systems.	Ongoing	CRW currently utilizes a text notification system.	CRW will continue to implement these notifications.
V.B.10.g	Monitoring to characterize CSO impact to receiving waters and efficacy of CSO controls.			

Table 4.2: General Description of Work Completed in Reporting Period and Planned for Next Reporting Period

Consent Decree Paragraph	Consent Decree Requirement	Deadline/Compliance Status	Progress to Date (1/1/23 to 6/30/23)	Proposed Work (7/1/23 to 12/31/23)
V.B.10.g.i	Utilize technology (including H&H model) to calculate the volume, duration, and start-stop time of CSO discharges. Conduct daily visual inspections to confirm CSO occurrence.	Ongoing	CRW inspects the regulator and outfalls daily. Each inspection is documented in Cityworks.	CRW will continue to conduct daily inspection of the regulators and outfalls.
V.B.10.g.ii	Implement the approved Post-Construction Monitoring Program.	To Be Determined	No activity during this period.	No activity anticipated this period.
V.B.10.g.iii	Total daily rainfall in at least 5 minute increments from rain gauges.	Ongoing	CRW continued to collect rainfall data	CRW will continue to collect rainfall data.
V.B.10.g.iv	Document procedures used to collect and summarize data concerning total number of CSO overflow events and frequency and duration of CSOs.	Ongoing	CRW documented all their procedures related to regulator and outfall inspections and the occurrence of CSOs in Cityworks. Rainfall is also recorded as noted above. The data is compiled in the Combined Sewer Overflow Report, which is included with the Semi-Annual Report.	CRW will continue to monitor and document each CSO event. CRW is also applying its H&H model to simulate GARR rainfall and estimate CSO volume and duration.
V.B.10.g.v	Utilize the calibrated H&H model and rainfall data to characterize CSO discharges and report them in the semi-annual report.	Ongoing	CRW applied its H&H model to simulate GARR rainfall and estimate CSO volume and duration.	CRW will apply its H&H model to simulate GARR rainfall and estimate CSO volume and duration.
V.B.11	Ongoing review of NMC Plan; annually evaluate the efficacy of the measures implemented under the NMC Plan.	Annual updated on March 31.	CRW prepared the next NMC Plan Update.	CRW submitted the NMC Plan on August 10, 2023 per the previous partial consent decree. In response too submitting the NMC Plan annually, CRW has elected to incorporate this requirement into the March Semi-Annual Reporting.
V.C	Minimum Control Measures - Stormwater Discharges			
V.C.12	Comply with the MS4 Individual Permit; stormwater management program shall set forth procedures and schedules for implementation of MCMs.	Ongoing	MCM implementation and MS4 permit compliance continued during this reporting period.	CRW will continue to implement the permit requirements and submit the annual MS4 report.
V.D	Long Term Control Plan			
V.D.13	Complete and submit a revised and updated LTCP			
V.D.13.a	Bring all CSO discharge points into compliance with technology-based and water quality-based requirements of CWA.	12/31/2024	CRW is preparing the LTCP.	CRW will continue to prepare the LTCP.
V.D.13.b	Minimize impacts of CSOs on water quality, aquatic biota, and human health.			
V.D.14	Flow Metering and Monitoring Program			
V.D.14.a	Prepare a tech memo with data calibrated to flow volumes documents the results and quality of the flow monitoring data.	Annually on March 31	This was included with the 2022 Semi-Annual / Chapter 94 Report.	CRW will include this in the Semi-Annual Report.
V.D.14.b	Utilize rainfall and flow monitoring data to revise, calibrate, and validate the H&H model using the EPA SWMM 5 modeling platform.			
V.D.15	LTCP Approach & Pollutants of Concern: submit any proposed modification to the pollutants of concern.	Complete	CRW will incorporate these requirements in the revised LTCP.	CRW will incorporate these requirements in the revised LTCP.
V.D.16	Water Quality Modeling Plan			
V.D.16.a	Water quality modeling software to be employed	6/10/2022; Complete	CRW is implementing the WQM Plan as part of the Alternatives Analysis.	CRW will continue to implement the WQM Plan as part of the Alternatives Analysis.
V.D.16.b	Model configuration, including reaches to be modeled and segmentation and boundary conditions			
V.D.16.c	Calibration and validation, including events and data to be employed, quantitative and qualitative calibration criteria, and utilization of H&H Model outputs			
V.D.16.d	Use of the Water Quality Model to evaluate Typical Year in-stream conditions for each identified pollutant of concern			
V.D.16.e	Schedule for model development and implementation, including integration into LTCP development consistent with other dates required pursuant to this Consent Decree			
V.D.17	Prepare a Financial Capability Analysis, including sewer rate setting, service population definition, and median household income.	2/25/2024	CRW is developing the FCA.	CRW will continue to develop the FCA.

Table 4.2: General Description of Work Completed in Reporting Period and Planned for Next Reporting Period

Consent Decree Paragraph	Consent Decree Requirement	Deadline/Compliance Status	Progress to Date (1/1/23 to 6/30/23)	Proposed Work (7/1/23 to 12/31/23)
V.D.18	Prepare a report that addresses sensitive and priority areas in the receiving waters with documentation of inquiries to state and federal agencies.	9/25/2024	CRW prepared the report (refer to Appendix Q).	CRW submitted the report (refer to Appenix Q).
V.D.19	Conduct an alternatives evaluation that consists of (1) identification of feasible CSO control technologies, (2) evaluation of a wide range of CSO control alternatives and sizes of each, (3) selection of a suite of proposed CSO controls to comply with the CWA. Focus on controls for outfalls with sensitive areas, priority areas, high frequency, or greatest volume.	3/31/2024	CRW is preparing the Alternatives Analysis.	CRW will continue to prepare the Alternatives Analysis.
V.D.19.a	Assess the technical feasibility of the following control technologies: source controls, collection system controls, storage technologies, and treatment technologies. Separation and deep tunnel storage shall be included.			
V.D.19.b	Identify a broad range of CSO controls for detailed evaluation; refer to CD for details.			
V.D.19.c	Consider GI alternatives as part of the control alternatives; refer to CD for details.			
V.D.20	Analyze the LTCP impact on environmental justice populations.	3/31/2024	CRW is preparing the LTCP.	CRW will continue to prepare the LTCP.
V.D.21	The LTCP shall include these specific elements; refer to CD for details.	3/31/2024	CRW is preparing the LTCP.	CRW will continue to prepare the LTCP.
V.D.22	Any proposal to modify the LTCP development schedule or the content of the deliverables shall follow the procedures in Section XIX.	To Be Determined	No activity required this period.	No activity anticipated this period.
V.D.23	After approval the LTCP shall be incorporated into and be an enforceable part of a modification to this CD or a second CD.	To Be Determined	No activity required this period.	No activity anticipated this period.
V.E	Separate Sanitary Sewer Compliance			
V.E.24	Sanitary sewer overflows are prohibited.	Ongoing	CRW minimized/prevented SSOs.	CRW will continue to minimize/prevent SSOs.
V.E.25	Report SSOs by phone to PADEP within 4 hours and writing within 5 days of becoming aware it.	Ongoing	CRW reported any SSOs.	CRW will continue to report SSOs.
V.E.26	Satisfy the following compliance requirements in the operation and maintenance of the separate sanitary sewer system:			
V.E.26.a	The OMM shall address the O&M of the separate sanitary sewer system	Ongoing	This is included in the OMM.	Updates will be incorporated as required.
V.E.26.b	H&H Model shall continue to include the separate sanitary sewer system.	Ongoing	This is included in the H&H model.	Updates will be incorporated as required.
V.E.26.c	H&H Model shall be calibrated and validated.	Ongoing	The H&H model has been calibrated.	Updates will be incorporated as required.
V.E.26.d	LTCP shall address the reduction of dry-weather and wet-weather SSOs.	Ongoing	CRW will include this in the LTCP.	Updates will be incorporated as required.
V.F	Ongoing Construction / Early Action Projects			
V.F.27	Asset Inspection & Re-Inspection; existing assets to be remediated shall be inspected not more than 3 years before asset remediation construction.	Report on in Semi-Annual Reports	No action required during this reporting period.	No activity anticipated this period.
V.F.28	Specific Projects			
V.F.28.a	Collection System Improvements - Refer to Appendix B	Refer to TABLE 4.1	Refer to TABLE 4.1	Refer to TABLE 4.1
V.F.28.b	CSO Outfall Repair; investigate each CSO outfall, define priority remedial work, and develop a schedule for completion	2/13/2024	No activity required this period.	CRW will prepare the report, incorporating field monitoring and maintenance updates.
V.F.28.c	CSO Control Projects - Refer to Appendix B	Refer to TABLE 1.1	Refer to TABLE 4.1	Refer to TABLE 4.1
V.G	General Compliance			
V.G.29	Effluent Limits for AWTF.			

Table 4.2: General Description of Work Completed in Reporting Period and Planned for Next Reporting Period

Consent Decree Paragraph	Consent Decree Requirement	Deadline/Compliance Status	Progress to Date (1/1/23 to 6/30/23)	Proposed Work (7/1/23 to 12/31/23)
V.G.29.a	Comply with the final effluent limits in the NPDES Permit.	Ongoing	CRW continued to comply with the permit.	CRW will continue to fulfill these reporting requirements.
V.G.30	Dry Weather Overflows			
V.G.30.a	DWOs are prohibited	Ongoing	CRW continued to minimize/prevent DWOs.	CRW will continue to minimize/prevent SSOs.
V.G.30.b	Report DWOs by phone to PADEP within 4 hours and writing within 5 days of becoming aware it.	Ongoing	CRW continued to perform these reporting requirements.	CRW will continue to fulfill these reporting requirements.
V.G.30.c	When a DWO occurs begin corrective action immediately upon notification or discovery	Ongoing	The DWOs were resolved.	CRW will continue to fulfill these reporting requirements.
V.G.30.d	Report all DWOs in the semi-annual report.	Ongoing	CRW continued to perform these reporting requirements.	CRW will continue to fulfill these reporting requirements.
V.G.31	Unauthorized releases from the combined sewer system are prohibited.	Ongoing	CRW continued to minimize/prevent unauthorized discharges.	CRW will continue to minimize/prevent unauthorized discharges.
V.G.32	Report unauthorized releases by phone to PADEP within 4 hours and writing within 5 days of becoming aware it.	Ongoing	CRW continued to track and report unauthorized discharges.	CRW will continue to track and report unauthorized discharges.
V.G.33	Reporting Planned Changes and Non-Compliance.			
V.G.33.a	Comply with the provisions of the NPDES permit requiring the reporting of anticipated and unanticipated non-compliance with the NPDES permit.	Ongoing	CRW continued to comply with the NPDES permit.	CRW will continue to fulfill these reporting requirements.
V.G.33.b	Written notice of non-compliance shall also be submitted to EPA	Ongoing	CRW continued to perform these reporting requirements.	CRW will continue to fulfill these reporting requirements.

4.C Progress & Projected Work

4.C.1 Legal Authority, Rules & Regulations, and Compliance

Partial CD References: V.B.10, V.D.13.a, V.D.13.b

Following the acquisition of portions of the sewer system that were previously owned and operated by the City of Harrisburg, it was necessary for CRW to acquire additional legal authority for the enforcement of activities within the City. In collaboration with the City, CRW entered into an intergovernmental cooperation agreement to facilitate and assist with environmental compliance. The Agreement provides CRW with the necessary enforcement authority to fulfill their permit and consent decree requirements, as well as outlines means for cooperation between the two entities.

CRW adopted new Wastewater and Stormwater Rules and Regulations on February 1, 2020, which were updated on October 1, 2020. CRW hired an Environmental Compliance Inspector in May 2019 that is tasked with enforcing compliance.

A Fats, Oils, and Grease (FOG) Program was also developed, which currently being implemented. Development of the program involved preparing the following draft documents: standard operating procedures, an ordinance for inclusion in the updated Wastewater and Stormwater Rules and Regulations, FOG permit documentation, a FOG registry, public education materials, an enforcement response plan, and an implementation plan. CRW has also been coordinating closely with the City of Harrisburg on FOG permitting and inspection requirements. The Environmental Compliance Inspector conducted 62 FOG discharger inspections during this reporting period. There were 50 FOG permits issued or renewed during this reporting period.

CRW advanced the Illicit Discharge, Detection, and Elimination (IDDE) Program by incorporating a standard operating procedure in the March 2021 Operations and Maintenance Manual (OMM) and incorporating IDDE workflows into Cityworks. These apply to both the combined sewer, sanitary sewer, and storm sewer systems in the CRW service area. The Environmental Compliance Officer conducted 15 investigations during this reporting period. A total of 34 notices of violation were issued, which includes FOG and IDDE violations.

4.C.2 NMC Plan & OMM

Partial CD References: V.B.10, V.B.11

CRW developed a detailed approach to achieve future compliance with each of the NMCs, which was submitted in the August 10, 2015 NMC Plan. In many cases the compliance measures are already implemented, such as daily CSO regulator inspections. In other areas, additional information is required to implement some of the NMCs and CRW has undertaken the efforts necessary to collect the data. Refer to Table 4.2 for additional details on the specific implementation of NMC requirements under the partial CD. In 2023, CRW incorporated recommended improvements in the August 2023 Annual Update. **Appendix L** presents the NMC Plan Summary Table that was included with the NMC Plan Update (submitted August 10, 2023) and provides details on the current level of implementation for each NMC, as well as the proposed future actions to achieve full compliance.

The NMC Plan includes the CRW's training program, which will be updated to include target audience groups each year with specific training topics.

CRW completed the new Operations and Maintenance Manual (OMM) on August 10, 2015. The OMM defines the critical equipment and facilities for the AWTF and collection/conveyance systems. The OMM also includes detailed procedures, complete with checklists, for the following system components: CSO regulators, outfalls and backflow prevention gates, pump stations, interceptors, force mains, collection system and manholes, and inlets and catch basins. The OMM also outlines emergency procedures, citizen complaint tracking, sinkhole remediation, and education programs. CRW reviewed the OMM to implement improvements in the 2022 Annual Update, which was submitted with the 2022 Chapter 94 report in accordance with the consent decree.

The OMM includes procedures for the combined sewer, sanitary sewer, and storm sewer systems in the CRW service area. A detailed OMM for Green Stormwater Infrastructure V.7.0 is incorporated as an Appendix to the OMM (Appendix F). A section on street sweeping has been incorporated, which is a key O&M activity in the MS4 portion of system. The existing inlet cleaning procedures also apply to the MS4 portion of the system.

4.C.3 GIS & Cityworks

Since the implementation of Cityworks on October 20, 2015, CRW continues to expand the development of the sewer maintenance management system. This software is the record keeping tool for maintenance activities and assist in reporting requirements of the partial CD. During this reporting period the following items have been documented in Cityworks for sewer system maintenance and inspection activities:

- 2,774 work orders completed, including pipe flushing, cleaning out manholes, repairing manholes
- 10,498 daily CSO inspections
- 967 hotspot inspections

CRW continues to review and assess the data captured with relation to workflow processes and reporting requirements. Training protocol for all Cityworks users has been established and continues according to new hires and individual needs. Training materials, such as 'User Guides', were developed and implemented. Integration and roll-out of updates and customization to the user interface were developed and implemented to improve efficiency and accuracy of data collection. CRW is incorporating additional reporting, related to maintenance and regulatory activities within the sewer system, from Cityworks data. Cityworks advancements included developing templates for MS4 outfall inspection, development review, and stormwater control measure O&M agreements.

CRW continues to update their GIS database, and recent additions include incorporating capital projects.

4.C.4 Public Notification & Outreach

Partial CD Reference: V.B.10.f

CRW installed three pilot CSO advisory signs in the spring of 2017 to receive public feedback and further coordinate their signage plan with the City requirements. CRW made modifications to its CSO advisory sign text in response to EPA comments.

In 2021, CRW staff inventoried and inspected signage at each CSO outfall location. Inspection and inventory information was catalogued in the maintenance management system. This information along with existing public feedback, including the community input gathered in 2016 and 2017, informed a CSO signage implementation strategy for 2022.

As of September 2023, the 27 CSO outfall locations along the Susquehanna River have both an outfall ID and a warning placard. An additional eight (8) 36"x36" warning signs are maintained at specific outfall locations. Larger 60"x36" access/interpretive signage is located nearby the Dock Street Boat Launch, just south of the Front Street Pump Station. CSO #2 serves as an emergency outfall at the Front Street Pump Station. The 31 CSO outfall locations along the Paxton Creek have an outfall ID number. There are 27 locations with warning placards and 22 locations with 18"x24" warning signs. One location has a 36"x36" warning sign. Signage is pending at the Spring Creek Pump Station, which serves as an emergency outfall (CSO #3). At a minimum, each of the 58 outfall locations includes an outfall or asset ID as well as a warning placard or sign with a QR code, a two-dimensional or matrix barcode, containing data that points a user to a website or application. In this case, the user is directed to Capital Region Water's website (<https://capitalregionwater.com/resources/cso/>) for further information on CSOs and related activity. Users can cross-reference the CSO asset ID with data on our interactive map to learn more about relevant CSO activity within a 48-hour period at any location throughout our system.

CRW utilizes the Everbridge Emergency Alert System to provide a daily update/alert on CSO activity. This includes active CSOs and activity within the last 24 hours. Customers and stakeholders can access a CSO Hotline at any time (24/7) by calling CRW at 888-510-0606 and listening for the prompt to hear the daily message.

CRW has continued to conduct numerous public outreach activities during this reporting period, including the following:

- Monthly Community Ambassador Meetings, a committee of Harrisburg residents that advise Capital Region Water on its projects and programs, were held.
- Participated in the Great Harrisburg Litter Cleanup. Convened and coordinated an additional six (6) community litter cleanups.
- Utilized multiple methods of public outreach, including bill inserts, door to door, local media coverage, website, email, and social media to engage the public. Monthly bill insert topics included green stormwater infrastructure, CSO signage, and combined sewer systems.
- Continued to utilize the Everbridge mass communication and alert system, which provides notifications regarding CSO activity and specific projects in the community.

- Additional public education and outreach activities are detailed in **Appendix O**.

This reporting period was also used to prepare a Public Notification Plan for submission as required per the Modification to the Partial Consent Decree (as lodged on February 13, 2023). This Public Notification Plan, which is included in **Appendix P**, was submitted on September 22, 2023, and serves to describe and specify how and when CRW will notify the public about CSO events. Subsequent implementation of this Public Notification Plan will be documented in the Semi-Annual Reports on Consent Decree Implementation.

4.C.5 MS4 & TMDL Strategy

Partial CD Reference: V.C.12

CRW prepared and submitted a new MS4 Individual Permit Application on September 15, 2017 based on the revised DEP MS4 permit requirements. This also involved developing Pollutant Reduction Plans and identifying key projects. CRW partnered with Lower Paxton Township and Susquehanna Township to prepare the Joint Pollutant Reduction Plan.

To solidify this partnership, an Intergovernmental Cooperation Agreement between CRW, Lower Paxton Township and Susquehanna Township for the implementation of the Joint Pollutant Reduction Plan to address the combined sediment waste load reduction obligations of signatory parties was executed. The costs associated with the development will be shared equally. The cost for implementation associated with each New BMP Project shall be shared pursuant to the allocation provided in the Task Order authorizing the New BMP Project. The Task Orders will be executed as sub-agreements under the Intergovernmental Cooperation Agreement.

Under this program, the Municipal Entities are also partnering with PennDOT to construct stormwater Best Management Practices (BMPs), specifically stream restoration projects, that reduce sediment pollution discharging to the watershed. Further details are provided in **Appendix O**.

CRW received their MS4 Individual Permit Application, which became effective on August 1, 2020. CRW continued to implement the requirements of the MS4 permit. From August 1, 2022 to July 31, 2023, CRW implemented the requirements under the second year of the MS4 permit, which are documented in the Annual MS4 Status Report that is included in **Appendix O**.

4.C.6 IFMMPP

Partial CD Reference: V.B.10.g, V.D.14

CRW continued to monitor eight precipitation gauging sites, as well as gauge adjusted radar rainfall, which is an ongoing program. CRW is maintaining the four flow meters monitoring flow from the satellite communities, as well as eight of the combined sewer interceptor flow meters at the current sites in order to support flow maximization and storage maximization evaluations.

4.C.7 LTCP Development

Partial CD Reference: V.D.13, V.D.19, V.D.21

CRW is developing the revised City Beautiful H2O Program Plan (CBH2OPP), which is due on December 31, 2024. CRW submitted the Sensitive Areas Report, which was due on September 24, 2023, and is included in **Appendix Q** for reference.

4.C.8 Green Stormwater Infrastructure Program

Through the end of June 2023, CRW has continued to make strides to further the development and implementation of its Green Stormwater Infrastructure (GSI) Program, now known as Stormwater Control Measures (SCMs)¹. SCMs systems are constructed, functioning, and maintained. These systems consist of:

- Camp Curtin YMCA Big Green Block – two (2) rain gardens, one (1) storage/infiltration, 11 stormwater trees, two (2) tree trenches, and three (3) stormwater green wall systems with planters SCMs (*Substantial Completed in 2022; Spring 2023 Landscape Plantings*);
- Bellevue Ponds Stormwater Retrofit – one (1) sediment control structure, two (2) storage ponds SCMs with OPTI Continuous Monitoring and Adaptive Management systems (*Substantial Completed in 2022; Spring 2023 Landscape Plantings*);
- 4th and Dauphin Park – two (2) rain gardens, one (1) storage/infiltration, one (1) tree trench SCMs;
- South Allison Hill Green Street – 7 rain gardens, 7 tree trenches, three (3) storage/infiltration trench SCMs;
- Cloverly Heights Park – one (1) rain garden, one (1) permeable pavement, two (2) storage/infiltration trench Stormwater Control Measures (SCMs);
- Penn & Sayford Park – two (2) rain garden SCMs;
- Royal Terrace Park – one (1) permeable pavement and one (1) storage/infiltration trench SCM;
- Summit Terrace Community Space – two (2) rain gardens and two storage/infiltration trench SCMs; and
- 3rd St - 29 rain gardens, 14 stormwater trees, and one (1) tree trench SCM.

CRW completed the implementation of the GSI Operation and Maintenance Program in 2019. The Plan defines programmatic items necessary to track and maintain GSI SCMs. The GSI Operation and Maintenance Manual provides guidance on vegetative care as well as the long-term maintenance of piping and underdrain systems (See Appendix F of the Updated Wastewater Operation & Maintenance Manual v.7.0). CRW implemented a Landscape Maintenance Program for the completion of monthly surface maintenance on constructed SCMs; implemented a training program to educate CRW employees and contractors on the function and maintenance of both surface and subsurface components of GSI systems; and developed an asset management system for GSI and integrate constructed SCMs into CRW's existing Cityworks system.

During the next reporting period, CRW intends to:

- Implement Programmatic and Site-Specific Recommendations, including comprehensive analyses from Cityworks inspection and work order data and recommendations aimed at remedying issues to individual SCMs.

2023 marks the final year of the program's five year pilot phase. CRW plans to revisit program goals originally set out in the 2019 Implementation Plan in coordination with the updated alternative analysis and consider updates as needed in preparation for the next phase of the SCM program.

4.D Wet Weather Program Management Schedule

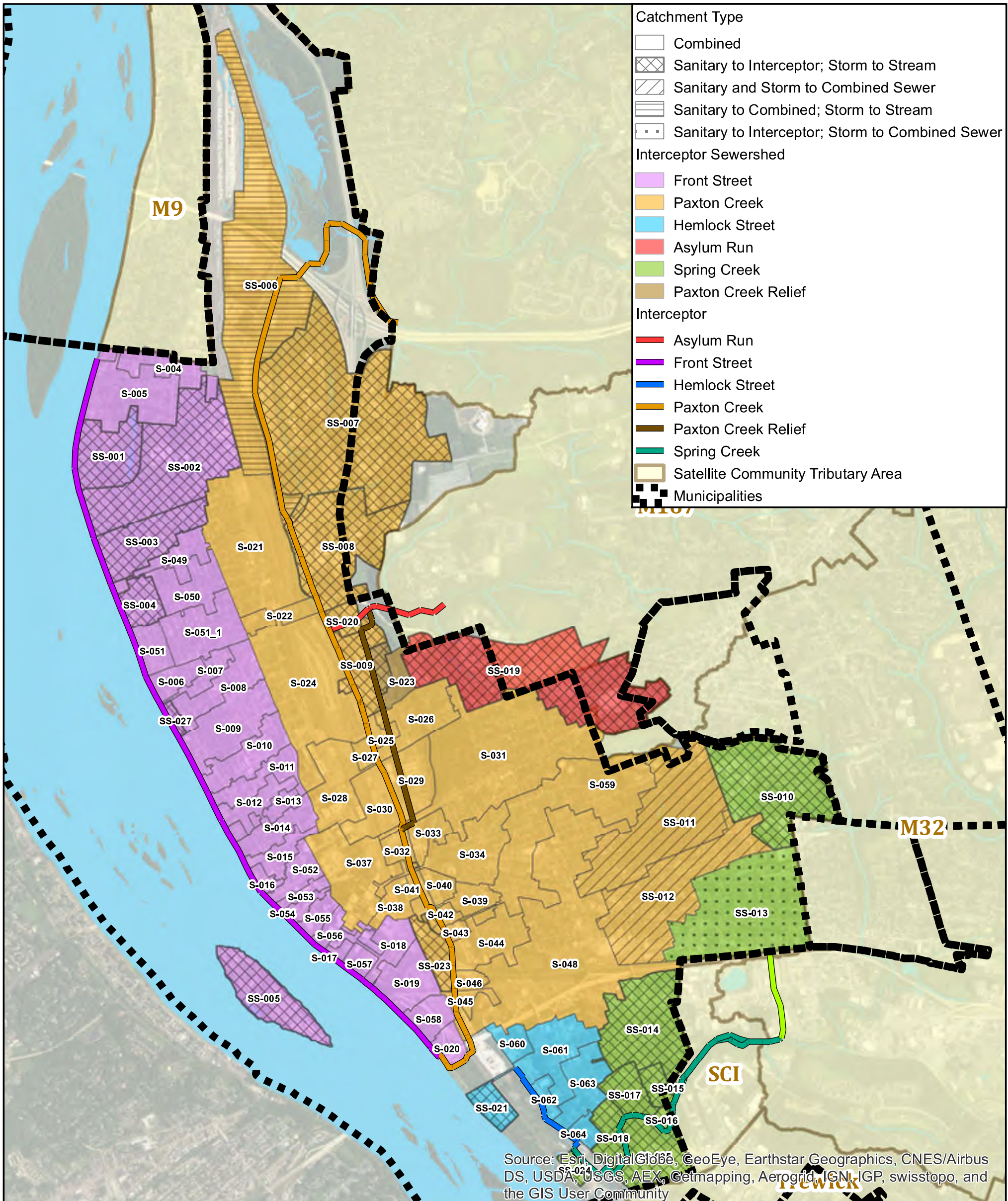
Table 4.1 provides an overall summary of the key partial CD deadlines around which CRW is formulating their overall program for wet weather management. The NMC Plan Summary Table, included in **Appendix L**, shows the detailed framework and schedule that CRW has developed to work towards NMC compliance. The key tasks for the next reporting period are as follows:

- Continue to develop the Alternatives Analysis.
- Continue activities/projects outlined in Appendix B of the Modification to the partial Consent Decree.

Appendix I

Conveyance System Summary Table

Interceptor	Type	Size (inches)	Length (miles)	Material	Number Of CSO Outfalls	CSO Discharge Receiving Water
Front Street (FSI)	Combined	39 x 36; 40; 42	3.95	Concrete, VCP	27	Susquehanna River
Paxton Creek (PCI)	Combined	59 x 48; 60 x 72	5.53	Concrete	25	Paxton Creek
Hemlock Street (HSI)	Combined	24	0.52	Concrete, VCP	5	Paxton Creek
Spring Creek (SCI)	Sanitary	24 - 36	2.03	Concrete, CMP, DIP	0	N/A
Paxton Creek Relief (PCRI)	Sanitary	48	1.15	Concrete	0	N/A
Asylum Run (ARI)	Sanitary	24	0.67	Concrete, VCP	0	N/A



0 1,250 2,500 5,000 Feet		
3/8/2017	PM: JAA	GIS: JWE
Mapping derived from data provided by Dauphin County, Capital Region Water, and the City of Harrisburg.		

Map of Conveyance System

Capital Region Water
Dauphin County, Pennsylvania



Appendix J

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
SEWER				
69024	CCTV Sewer Lateral	1/12/23 7:37	Verebeke	1
69130	CCTV Sewer Lateral	1/19/23 11:02	Fulton and Geiger	1
69273	CCTV Sewer Lateral	1/25/23 8:18	Forester and Green	1
68556	CCTV Sewer Lateral	1/26/23 9:55	Pine near Court st	1
64655	CCTV Sewer Lateral	1/26/23 10:20	Logan St	1
67766	CCTV Sewer Lateral	1/26/23 11:58	25th st	1
69474	CCTV Sewer Lateral	1/31/23 7:35	Cumberland St	1
69450	CCTV Sewer Lateral	1/31/23 12:00	Compass alley	1
69925	CCTV Sewer Lateral	2/28/23 12:00	James st	1
71023	CCTV Sewer Lateral	3/8/23 14:03	15th st	1
70495	CCTV Sewer Lateral	3/10/23 10:18	Reservoir st	1
71375	CCTV Sewer Lateral	3/14/23 13:29	1458 Market st	1
71554	CCTV Sewer Lateral	4/5/23 8:48	Market st	1
71518	CCTV Sewer Lateral	4/5/23 10:45	17 N. 17th St	1
72360	CCTV Sewer Lateral	4/10/23 12:55	4TH ST	1
73028	CCTV Sewer Lateral	4/26/23 12:00	seneca	1
74314	CCTV Sewer Lateral	5/14/23 12:05	Walnut st	1
73913	CCTV Sewer Lateral	5/30/23 8:45	349 South 15th st	1
74333	CCTV Sewer Lateral	5/30/23 14:00	Agate St	1
74373	CCTV Sewer Lateral	6/6/23 10:10	1527 Catherine st	1
74374	CCTV Sewer Lateral	6/6/23 10:45	1525 Catherine st	1
74594	CCTV Sewer Lateral	6/7/23 13:45	Seneca st	1
74982	CCTV Sewer Lateral	6/27/23 13:23	18th st	1
68824	CCTV Sewer Pipe	1/19/23 11:03	Fulton and Geiger	1
68960	CCTV Sewer Pipe	1/19/23 11:12	Geiger to Fulton Sylvan Terrace and	1
68927	CCTV Sewer Pipe	1/19/23 12:59	Christian	1
68958	CCTV Sewer Pipe	1/23/23 8:21	Myers alley to Peffer	1
68961	CCTV Sewer Pipe	1/23/23 8:25	Geiger to MaClay	1
68999	CCTV Sewer Pipe	1/25/23 7:29	22nd and Bellvue Green st Terminal run	1
69072	CCTV Sewer Pipe	1/25/23 7:47	towards Forester	1
69073	CCTV Sewer Pipe	1/25/23 8:19	Forester and Green	1
68382	CCTV Sewer Pipe	1/26/23 8:31	Chestnut St	1
68421	CCTV Sewer Pipe	1/26/23 8:47	Chestnut St	1
68469	CCTV Sewer Pipe	1/26/23 8:59	Chestnut St	1
68344	CCTV Sewer Pipe	1/26/23 9:20	Cameron Street	1
68347	CCTV Sewer Pipe	1/26/23 9:45	Cameron st	1
68553	CCTV Sewer Pipe	1/26/23 9:53	Pine near Court st	1
69048	CCTV Sewer Pipe	1/26/23 10:01	2nd st Rogele project	1
68593	CCTV Sewer Pipe	1/26/23 10:08	Sycamore and 18th	1
67753	CCTV Sewer Pipe	1/26/23 11:58	25th st	1
67710	CCTV Sewer Pipe	1/26/23 12:37	Front and Peffer	1
67173	CCTV Sewer Pipe	1/26/23 12:46	front & boas	1
62286	CCTV Sewer Pipe	1/26/23 12:57	Logan St	1
69245	CCTV Sewer Pipe	1/31/23 12:00	Cumberland St	1
69391	CCTV Sewer Pipe	1/31/23 12:00	4th st State St (Shiloh	1
69422	CCTV Sewer Pipe	1/31/23 12:00	excavation)	1
69337	CCTV Sewer Pipe	1/31/23 12:00	Compass alley	1
69799	CCTV Sewer Pipe	2/17/23 11:28	Verbeke St	1
69974	CCTV Sewer Pipe	2/23/23 7:57	Jefferon St	1
69765	CCTV Sewer Pipe	2/28/23 7:42	Market st	1
69768	CCTV Sewer Pipe	2/28/23 12:00	Market st	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
68931	CCTV Sewer Pipe	2/28/23 12:00	Christian and Summitt	1
70491	CCTV Sewer Pipe	2/28/23 12:00	South st	1
69766	CCTV Sewer Pipe	2/28/23 12:00	Market st	1
69929	CCTV Sewer Pipe	2/28/23 12:00	Conoy st	1
69767	CCTV Sewer Pipe	2/28/23 12:00	Market st	1
70492	CCTV Sewer Pipe	2/28/23 12:00	South st	1
70498	CCTV Sewer Pipe	2/28/23 12:00	McCleaster St	1
			Balm to Open ex (State	
69986	CCTV Sewer Pipe	2/28/23 12:00	st)	1
70803	CCTV Sewer Pipe	2/28/23 12:00	Emerald st	2
70509	CCTV Sewer Pipe	2/28/23 12:00	McCleaster St	1
70518	CCTV Sewer Pipe	2/28/23 12:00	McCleaster St	1
70563	CCTV Sewer Pipe	2/28/23 12:00	McCleaster St	1
70505	CCTV Sewer Pipe	2/28/23 12:00	McCleaster St	1
70558	CCTV Sewer Pipe	2/28/23 12:00	McCleaster St	1
70568	CCTV Sewer Pipe	2/28/23 12:00	25th st	1
70575	CCTV Sewer Pipe	2/28/23 12:00	McCleaster St	1
70782	CCTV Sewer Pipe	2/28/23 12:00	Schuykill st	1
71015	CCTV Sewer Pipe	3/7/23 12:00	Linn and York st	1
71076	CCTV Sewer Pipe	3/8/23 12:00	Market st	1
71077	CCTV Sewer Pipe	3/8/23 12:38	Market st	1
71078	CCTV Sewer Pipe	3/8/23 12:44	State st	1
71082	CCTV Sewer Pipe	3/8/23 13:09	Woodlawn st	1
71084	CCTV Sewer Pipe	3/8/23 13:14	Woodlawn st	1
71085	CCTV Sewer Pipe	3/8/23 13:18	Sycamore st	1
71086	CCTV Sewer Pipe	3/8/23 13:21	Sycamore st	1
71087	CCTV Sewer Pipe	3/8/23 13:25	Sycamore rd	1
71150	CCTV Sewer Pipe	3/8/23 13:53	Edgewood Rd	1
71152	CCTV Sewer Pipe	3/8/23 13:57	Edgewood Rd	1
71019	CCTV Sewer Pipe	3/8/23 14:00	15th st	1
70900	CCTV Sewer Pipe	3/8/23 14:13	2nd st	1
71157	CCTV Sewer Pipe	3/8/23 15:20	Oakwwod Rd	1
70892	CCTV Sewer Pipe	3/10/23 9:53	Commonwealth ave	1
70585	CCTV Sewer Pipe	3/10/23 10:25	22nd ST	1
70902	CCTV Sewer Pipe	3/14/23 8:26	Blackberry st	1
71365	CCTV Sewer Pipe	3/14/23 9:14	Chestnut st	1
71366	CCTV Sewer Pipe	3/14/23 9:18	Chestnut st	1
71367	CCTV Sewer Pipe	3/14/23 9:22	Chestnut st	1
71372	CCTV Sewer Pipe	3/14/23 9:52	Pine st	1
71373	CCTV Sewer Pipe	3/14/23 9:56	Boas st	1
71374	CCTV Sewer Pipe	3/14/23 9:59	Boas st	1
71371	CCTV Sewer Pipe	3/14/23 10:00	Blackberry	1
			Blackberry going west	
71370	CCTV Sewer Pipe	3/14/23 10:26	to 3rd st	1
71287	CCTV Sewer Pipe	3/14/23 10:31	Vineyard Rd	1
71283	CCTV Sewer Pipe	3/14/23 10:37	Vineyard Rd	1
71275	CCTV Sewer Pipe	3/14/23 10:42	Vineyard Rd	1
71273	CCTV Sewer Pipe	3/14/23 11:02	Hillside Rd	1
71272	CCTV Sewer Pipe	3/14/23 11:16	Hillside Rd	1
71187	CCTV Sewer Pipe	3/14/23 11:38	Vineyard Rd	1
71199	CCTV Sewer Pipe	3/14/23 11:39	Hillside Rd	1
71168	CCTV Sewer Pipe	3/14/23 12:00	Briarcliff Rd	1
71167	CCTV Sewer Pipe	3/14/23 12:04	Briarcliff Rd	1
71165	CCTV Sewer Pipe	3/14/23 12:33	Briarcliff Rd	1
71490	CCTV Sewer Pipe	3/14/23 13:28	1458 Market st	1
65873	CCTV Sewer Pipe	3/14/23 13:57	Balm to State	1
71644	CCTV Sewer Pipe	3/23/23 13:35	Market and 17th	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
71553	CCTV Sewer Pipe	4/5/23 8:38	Market and 17th	1
71539	CCTV Sewer Pipe	4/5/23 11:01	17th	1
71591	CCTV Sewer Pipe	4/5/23 11:18	Ellerslie St	1
72322	CCTV Sewer Pipe	4/10/23 9:25	SOUTH ST	1
71908	CCTV Sewer Pipe	4/10/23 10:37	Ralehigh st	1
71901	CCTV Sewer Pipe	4/10/23 12:55	4TH ST	1
72703	CCTV Sewer Pipe	4/25/23 14:03	N4th ST	1
72330	CCTV Sewer Pipe	4/25/23 14:07	2214 Jefferson St	1
71911	CCTV Sewer Pipe	4/25/23 14:11	27TH ST	1
72313	CCTV Sewer Pipe	4/28/23 8:39	Fulton St	1
72363	CCTV Sewer Pipe	4/28/23 8:41	Walnut st	1
72430	CCTV Sewer Pipe	4/28/23 9:35	PENN ST	1
72443	CCTV Sewer Pipe	4/28/23 10:31	PENN ST	1
72449	CCTV Sewer Pipe	4/28/23 11:12	GREEN & HARRIS ST	1
72473	CCTV Sewer Pipe	4/30/23 12:00	1851 Spencer st	1
72612	CCTV Sewer Pipe	4/30/23 12:00	Luce St	1
72493	CCTV Sewer Pipe	4/30/23 12:00	2nd st	1
72535	CCTV Sewer Pipe	4/30/23 12:00	2404 Reel	1
72523	CCTV Sewer Pipe	4/30/23 12:00	1015 S 16TH ST	1
72816	CCTV Sewer Pipe	4/30/23 12:00	4th ST	1
72609	CCTV Sewer Pipe	4/30/23 12:00	Benton St	1
72569	CCTV Sewer Pipe	4/30/23 12:00	GEIGER ST	1
72556	CCTV Sewer Pipe	4/30/23 12:00	Reily St	1
72574	CCTV Sewer Pipe	4/30/23 12:00	TURNER ALLKEY	1
72886	CCTV Sewer Pipe	4/30/23 12:00	83 Project	1
72610	CCTV Sewer Pipe	4/30/23 12:00	Lawn Alley	1
72570	CCTV Sewer Pipe	4/30/23 12:00	TURNER ALLEY	1
72878	CCTV Sewer Pipe	4/30/23 12:00	83 Project	1
72771	CCTV Sewer Pipe	4/30/23 12:00	seneca	1
72894	CCTV Sewer Pipe	4/30/23 12:00	83 Project	1
72891	CCTV Sewer Pipe	4/30/23 12:00	83 Prpject	1
72924	CCTV Sewer Pipe	4/30/23 12:00	Sayford st	1
72973	CCTV Sewer Pipe	5/3/23 9:15	1601 green st	1
72992	CCTV Sewer Pipe	5/3/23 13:34	83 Project	1
72993	CCTV Sewer Pipe	5/3/23 13:58	83 Project	1
72996	CCTV Sewer Pipe	5/3/23 14:08	83 Project	1
73147	CCTV Sewer Pipe	5/7/23 10:55	Court st	1
73151	CCTV Sewer Pipe	5/7/23 12:40	South st	1
73344	CCTV Sewer Pipe	5/14/23 23:15	Walnut st	2
72613	CCTV Sewer Pipe	5/15/23 7:51	Luce st	1
73407	CCTV Sewer Pipe	5/15/23 10:25	15th St	1
73416	CCTV Sewer Pipe	5/15/23 12:05	15th St	1
73006	CCTV Sewer Pipe	5/16/23 12:41	River Alley	1
73119	CCTV Sewer Pipe	5/18/23 12:33	Court st	1
73118	CCTV Sewer Pipe	5/18/23 12:42	Court st	1
71622	CCTV Sewer Pipe	5/22/23 7:25	GREENWOOD ST	1
71624	CCTV Sewer Pipe	5/22/23 7:30	GREENWOOD ST	1
73141	CCTV Sewer Pipe	5/26/23 8:42	2nd st	1
73945	CCTV Sewer Pipe	5/26/23 9:51	Berryhill St	1
73160	CCTV Sewer Pipe	5/28/23 12:00	4th st	2
73788	CCTV Sewer Pipe	5/28/23 12:00	Kensington St	1
73143	CCTV Sewer Pipe	5/29/23 12:00	2nd st	1
73153	CCTV Sewer Pipe	5/30/23 11:03	3rd st	1
73159	CCTV Sewer Pipe	5/30/23 11:44	4th st	1
73462	CCTV Sewer Pipe	5/30/23 12:00	walnut st	2
72911	CCTV Sewer Pipe	5/30/23 12:00	Penn st	1
73418	CCTV Sewer Pipe	5/30/23 12:00	15th St	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
73825	CCTV Sewer Pipe	5/30/23 12:56	McCleaster St	1
73819	CCTV Sewer Pipe	5/30/23 13:05	McCleaster St	1
73816	CCTV Sewer Pipe	5/30/23 13:22	Central St	1
73813	CCTV Sewer Pipe	5/30/23 13:29	21ST St	1
73807	CCTV Sewer Pipe	5/30/23 13:38	Kensington St	1
72796	CCTV Sewer Pipe	5/30/23 13:50	Agate St	1
74152	CCTV Sewer Pipe	6/1/23 12:05	13th and Sycamore	1
74156	CCTV Sewer Pipe	6/1/23 13:05	2229 Logan st	1
73421	CCTV Sewer Pipe	6/2/23 12:45	15th St	1
73330	CCTV Sewer Pipe	6/2/23 14:25	Muench 1931 SUSQ	1
74272	CCTV Sewer Pipe	6/4/23 9:50	Myers alley	1
74274	CCTV Sewer Pipe	6/4/23 9:55	Geiger st	1
74273	CCTV Sewer Pipe	6/4/23 10:00	Myers Alley	1
74275	CCTV Sewer Pipe	6/4/23 10:05	Fulton st	1
74277	CCTV Sewer Pipe	6/4/23 10:45	Fulton st	1
74279	CCTV Sewer Pipe	6/4/23 12:10	18th st	1
74425	CCTV Sewer Pipe	6/7/23 13:05	Seneca st	1
74461	CCTV Sewer Pipe	6/8/23 10:05	Market St	1
74462	CCTV Sewer Pipe	6/8/23 10:49	Market St	1
74464	CCTV Sewer Pipe	6/8/23 11:55	Market St	1
74463	CCTV Sewer Pipe	6/8/23 12:05	Market St	1
74506	CCTV Sewer Pipe	6/9/23 14:20	18th St	1
74281	CCTV Sewer Pipe	6/13/23 9:24	15th st	1
74282	CCTV Sewer Pipe	6/13/23 9:26	15th st	1
74283	CCTV Sewer Pipe	6/13/23 9:28	15th st	1
74284	CCTV Sewer Pipe	6/13/23 9:29	15th st	1
74523	CCTV Sewer Pipe	6/16/23 8:21	Market St	1
74526	CCTV Sewer Pipe	6/16/23 8:36	Market St	1
74527	CCTV Sewer Pipe	6/16/23 12:34	Market St	1
74528	CCTV Sewer Pipe	6/16/23 12:38	Market St	1
74529	CCTV Sewer Pipe	6/16/23 12:44	Market St	1
74530	CCTV Sewer Pipe	6/16/23 12:55	Market St	1
74531	CCTV Sewer Pipe	6/16/23 13:01	Market St	1
74532	CCTV Sewer Pipe	6/16/23 13:07	Market St	1
74733	CCTV Sewer Pipe	6/20/23 13:33	21st St	1
74647	CCTV Sewer Pipe	6/20/23 14:02	Commonwealth ave	1
74475	CCTV Sewer Pipe	6/23/23 8:56	Market St	1
74570	CCTV Sewer Pipe	6/23/23 9:01	Green & Herr St	1
74574	CCTV Sewer Pipe	6/23/23 9:16	Green & Herr St	1
74818	CCTV Sewer Pipe	6/23/23 10:09	Green St	1
74932	CCTV Sewer Pipe	6/26/23 8:43	Market st	1
74933	CCTV Sewer Pipe	6/26/23 8:48	Market st	1
74848	CCTV Sewer Pipe	6/26/23 12:00	2910 Parkside lane	1
74951	CCTV Sewer Pipe	6/27/23 12:15	18th & Regina St	1
74936	CCTV Sewer Pipe	6/27/23 12:25	18th st	1
74939	CCTV Sewer Pipe	6/27/23 12:29	18th st	1
74940	CCTV Sewer Pipe	6/27/23 12:32	18th st	1
74941	CCTV Sewer Pipe	6/27/23 12:45	18th st	1
74942	CCTV Sewer Pipe	6/27/23 13:00	18th st	1
74952	CCTV Sewer Pipe	6/27/23 13:11	18th & Regina St	2
74934	CCTV Sewer Pipe	6/27/23 13:24	18th st	1
74955	CCTV Sewer Pipe	6/27/23 13:31	18th & Whitehall St	1
74826	CCTV Sewer Pipe	6/27/23 13:39	Green St	1
74953	CCTV Sewer Pipe	6/27/23 13:48	18th & Whitehall St	1
74788	CCTV Sewer Pipe	6/28/23 8:25	Locust st	1
74794	CCTV Sewer Pipe	6/28/23 8:43	Locust St	1
74817	CCTV Sewer Pipe	6/28/23 9:10	Raleigh St	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
74533	CCTV Sewer Pipe	6/28/23 9:17	Market St	1
74534	CCTV Sewer Pipe	6/28/23 9:22	Market St	1
74478	CCTV Sewer Pipe	6/28/23 10:14	Market St	1
74822	CCTV Sewer Pipe	6/28/23 10:18	Green & Charles St	1
74504	CCTV Sewer Pipe	6/28/23 10:20	18th St	1
75047	CCTV Sewer Pipe	6/29/23 9:15	18th st	1
75056	CCTV Sewer Pipe	6/29/23 11:30	18th st	1
75075	CCTV Sewer Pipe	6/29/23 13:55	18th st	1
75085	CCTV Sewer Pipe	6/29/23 15:10	18th st	1
75090	CCTV Sewer Pipe	6/30/23 12:00	18th st	1
75087	CCTV Sewer Pipe	6/30/23 12:00	18th st	1
75097	CCTV Sewer Pipe	6/30/23 13:10	18th st	1
74917	Clean Pipe	6/23/23 12:00	1926 Manada St, Harrisburg, Pennsylvania, 17104	1
68758	Daily CSO Inspection Front Street	1/1/23 12:49		27
68760	Daily CSO Inspection Front Street	1/2/23 12:00		27
68767	Daily CSO Inspection Front Street	1/3/23 11:28		27
68781	Daily CSO Inspection Front Street	1/4/23 12:28		27
68839	Daily CSO Inspection Front Street	1/5/23 12:24		27
68877	Daily CSO Inspection Front Street	1/6/23 12:09		27
68903	Daily CSO Inspection Front Street	1/7/23 12:47		27
68918	Daily CSO Inspection Front Street	1/8/23 9:16		27
68922	Daily CSO Inspection Front Street	1/9/23 12:05		27
68937	Daily CSO Inspection Front Street	1/10/23 11:30		27
68976	Daily CSO Inspection Front Street	1/11/23 12:13		27
68997	Daily CSO Inspection Front Street	1/12/23 11:48		27
69034	Daily CSO Inspection Front Street	1/13/23 10:13		27
69055	Daily CSO Inspection Front Street	1/14/23 12:27		27
69074	Daily CSO Inspection Front Street	1/15/23 11:06		27
69076	Daily CSO Inspection Front Street	1/16/23 10:30		27
69078	Daily CSO Inspection Front Street	1/17/23 11:58		27
69087	Daily CSO Inspection Front Street	1/18/23 11:13		27
69113	Daily CSO Inspection Front Street	1/19/23 10:35		27
69128	Daily CSO Inspection Front Street	1/20/23 12:54		27
69158	Daily CSO Inspection Front Street	1/21/23 10:30		27
69183	Daily CSO Inspection Front Street	1/22/23 8:28		27
69188	Daily CSO Inspection Front Street	1/23/23 12:38		27
69230	Daily CSO Inspection Front Street	1/24/23 14:20		27
69264	Daily CSO Inspection Front Street	1/25/23 10:04		27
69281	Daily CSO Inspection Front Street	1/26/23 9:36		27
69309	Daily CSO Inspection Front Street	1/27/23 10:35		27
69328	Daily CSO Inspection Front Street	1/28/23 9:20		27
69349	Daily CSO Inspection Front Street	1/29/23 9:02		27
69376	Daily CSO Inspection Front Street	1/30/23 9:55		27
69416	Daily CSO Inspection Front Street	1/31/23 9:47		27
69449	Daily CSO Inspection Front Street	2/1/23 9:41		27
69499	Daily CSO Inspection Front Street	2/2/23 12:18		27
69617	Daily CSO Inspection Front Street	2/3/23 12:00		27
69693	Daily CSO Inspection Front Street	2/4/23 8:43		27
69745	Daily CSO Inspection Front Street	2/5/23 9:48		27
69756	Daily CSO Inspection Front Street	2/6/23 9:38		27
69800	Daily CSO Inspection Front Street	2/7/23 11:30		27
69910	Daily CSO Inspection Front Street	2/8/23 11:30		27
69944	Daily CSO Inspection Front Street	2/9/23 10:26		27

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
69962	Daily CSO Inspection Front Street	2/10/23 9:11		27
69981	Daily CSO Inspection Front Street	2/11/23 12:00		27
70472	Daily CSO Inspection Front Street	2/12/23 9:28		27
70478	Daily CSO Inspection Front Street	2/13/23 12:40		27
70517	Daily CSO Inspection Front Street	2/14/23 9:54		27
70546	Daily CSO Inspection Front Street	2/15/23 11:42		27
70570	Daily CSO Inspection Front Street	2/16/23 12:32		27
70625	Daily CSO Inspection Front Street	2/17/23 10:00		27
70642	Daily CSO Inspection Front Street	2/18/23 10:01		27
70651	Daily CSO Inspection Front Street	2/19/23 9:39		27
70660	Daily CSO Inspection Front Street	2/20/23 12:00		27
70674	Daily CSO Inspection Front Street	2/21/23 11:27		27
70690	Daily CSO Inspection Front Street	2/22/23 11:08		27
70729	Daily CSO Inspection Front Street	2/23/23 10:19		27
70788	Daily CSO Inspection Front Street	2/24/23 12:28		27
70863	Daily CSO Inspection Front Street	2/25/23 9:23		27
70882	Daily CSO Inspection Front Street	2/26/23 8:17		27
70887	Daily CSO Inspection Front Street	2/27/23 11:54		27
70929	Daily CSO Inspection Front Street	2/28/23 11:59		27
70955	Daily CSO Inspection Front Street	3/1/23 11:03		27
70991	Daily CSO Inspection Front Street	3/2/23 9:46		27
71025	Daily CSO Inspection Front Street	3/3/23 10:47		27
71064	Daily CSO Inspection Front Street	3/4/23 11:30		27
71072	Daily CSO Inspection Front Street	3/5/23 11:00		27
71081	Daily CSO Inspection Front Street	3/6/23 12:51		27
71114	Daily CSO Inspection Front Street	3/7/23 11:30		27
71171	Daily CSO Inspection Front Street	3/8/23 12:28		27
71247	Daily CSO Inspection Front Street	3/9/23 10:16		27
71278	Daily CSO Inspection Front Street	3/10/23 11:30		27
71329	Daily CSO Inspection Front Street	3/11/23 11:00		27
71363	Daily CSO Inspection Front Street	3/12/23 9:22		27
71369	Daily CSO Inspection Front Street	3/13/23 10:36		27
71392	Daily CSO Inspection Front Street	3/14/23 10:34		27
71473	Daily CSO Inspection Front Street	3/15/23 9:20		27
71496	Daily CSO Inspection Front Street	3/16/23 11:43		27
71517	Daily CSO Inspection Front Street	3/17/23 13:08		27
71545	Daily CSO Inspection Front Street	3/18/23 10:22		27
71552	Daily CSO Inspection Front Street	3/19/23 12:00		27
71562	Daily CSO Inspection Front Street	3/20/23 11:56		27
71568	Daily CSO Inspection Front Street	3/21/23 10:18		27
71600	Daily CSO Inspection Front Street	3/22/23 12:52		27
71646	Daily CSO Inspection Front Street	3/23/23 9:36		27
71651	Daily CSO Inspection Front Street	3/24/23 10:06		27
71664	Daily CSO Inspection Front Street	3/25/23 8:43		27
71681	Daily CSO Inspection Front Street	3/26/23 14:50		27
71685	Daily CSO Inspection Front Street	3/27/23 11:21		27
71704	Daily CSO Inspection Front Street	3/28/23 14:20		27
71739	Daily CSO Inspection Front Street	3/29/23 11:30		27
71748	Daily CSO Inspection Front Street	3/30/23 11:30		27
71810	Daily CSO Inspection Front Street	3/31/23 11:30		27
71840	Daily CSO Inspection Front Street	4/1/23 7:59		27
71852	Daily CSO Inspection Front Street	4/2/23 8:22		27
71853	Daily CSO Inspection Front Street	4/3/23 11:30		27
71864	Daily CSO Inspection Front Street	4/4/23 9:53		27
71906	Daily CSO Inspection Front Street	4/5/23 13:36		27
72303	Daily CSO Inspection Front Street	4/6/23 11:10		27
72318	Daily CSO Inspection Front Street	4/7/23 10:34		27

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
72333	Daily CSO Inspection Front Street	4/8/23 9:07		27
72337	Daily CSO Inspection Front Street	4/9/23 9:56		27
72343	Daily CSO Inspection Front Street	4/10/23 11:55		27
72358	Daily CSO Inspection Front Street	4/11/23 12:45		27
72374	Daily CSO Inspection Front Street	4/12/23 10:23		27
72391	Daily CSO Inspection Front Street	4/13/23 10:55		27
72435	Daily CSO Inspection Front Street	4/14/23 10:18		27
72457	Daily CSO Inspection Front Street	4/15/23 8:31		27
72486	Daily CSO Inspection Front Street	4/16/23 8:57		27
72492	Daily CSO Inspection Front Street	4/17/23 9:27		27
72514	Daily CSO Inspection Front Street	4/18/23 12:45		27
72582	Daily CSO Inspection Front Street	4/19/23 10:29		27
72616	Daily CSO Inspection Front Street	4/20/23 14:19		27
72648	Daily CSO Inspection Front Street	4/21/23 9:25		27
72693	Daily CSO Inspection Front Street	4/22/23 8:57		27
72760	Daily CSO Inspection Front Street	4/23/23 9:40		27
72769	Daily CSO Inspection Front Street	4/24/23 9:43		27
72795	Daily CSO Inspection Front Street	4/25/23 23:30		27
72829	Daily CSO Inspection Front Street	4/26/23 11:47		27
72887	Daily CSO Inspection Front Street	4/27/23 11:51		27
72917	Daily CSO Inspection Front Street	4/28/23 10:00		27
72948	Daily CSO Inspection Front Street	4/29/23 10:29		27
72960	Daily CSO Inspection Front Street	4/30/23 12:00		27
72965	Daily CSO Inspection Front Street	5/1/23 10:17		27
72968	Daily CSO Inspection Front Street	5/2/23 10:26		27
73001	Daily CSO Inspection Front Street	5/3/23 9:45		27
73037	Daily CSO Inspection Front Street	5/4/23 12:51		27
73084	Daily CSO Inspection Front Street	5/5/23 11:30		27
73124	Daily CSO Inspection Front Street	5/6/23 8:33		27
73131	Daily CSO Inspection Front Street	5/7/23 11:39		27
73152	Daily CSO Inspection Front Street	5/8/23 11:00		27
73189	Daily CSO Inspection Front Street	5/9/23 12:03		27
73238	Daily CSO Inspection Front Street	5/10/23 10:56		27
73264	Daily CSO Inspection Front Street	5/11/23 11:00		27
73303	Daily CSO Inspection Front Street	5/12/23 10:00		27
73320	Daily CSO Inspection Front Street	5/13/23 10:30		27
73335	Daily CSO Inspection Front Street	5/14/23 8:08		27
73339	Daily CSO Inspection Front Street	5/15/23 11:31		27
73415	Daily CSO Inspection Front Street	5/16/23 11:30		27
73439	Daily CSO Inspection Front Street	5/17/23 10:56		27
73459	Daily CSO Inspection Front Street	5/18/23 11:44		27
73734	Daily CSO Inspection Front Street	5/19/23 12:13		27
73768	Daily CSO Inspection Front Street	5/20/23 11:00		27
73776	Daily CSO Inspection Front Street	5/21/23 9:23		27
73777	Daily CSO Inspection Front Street	5/22/23 10:47		27
73808	Daily CSO Inspection Front Street	5/23/23 11:02		27
73879	Daily CSO Inspection Front Street	5/24/23 10:03		27
73915	Daily CSO Inspection Front Street	5/25/23 11:43		27
73954	Daily CSO Inspection Front Street	5/26/23 12:16		27
73978	Daily CSO Inspection Front Street	5/27/23 8:04		27
74002	Daily CSO Inspection Front Street	5/28/23 8:46		27
74012	Daily CSO Inspection Front Street	5/29/23 12:00		27
74015	Daily CSO Inspection Front Street	5/30/23 12:54		27
74043	Daily CSO Inspection Front Street	5/31/23 10:31		27
74081	Daily CSO Inspection Front Street	6/1/23 10:08		27
74143	Daily CSO Inspection Front Street	6/2/23 9:38		27
74203	Daily CSO Inspection Front Street	6/3/23 8:23		27

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
74269	Daily CSO Inspection Front Street	6/4/23 10:28		27
74278	Daily CSO Inspection Front Street	6/5/23 9:30		27
74317	Daily CSO Inspection Front Street	6/6/23 10:39		27
74386	Daily CSO Inspection Front Street	6/7/23 11:15		27
74423	Daily CSO Inspection Front Street	6/8/23 11:15		27
74469	Daily CSO Inspection Front Street	6/9/23 11:53		27
74509	Daily CSO Inspection Front Street	6/10/23 10:29		27
74521	Daily CSO Inspection Front Street	6/11/23 8:50		27
74524	Daily CSO Inspection Front Street	6/12/23 10:19		27
74577	Daily CSO Inspection Front Street	6/13/23 9:45		27
74629	Daily CSO Inspection Front Street	6/14/23 11:30		27
74655	Daily CSO Inspection Front Street	6/15/23 9:35		27
74721	Daily CSO Inspection Front Street	6/16/23 11:45		27
74762	Daily CSO Inspection Front Street	6/17/23 7:41		27
74768	Daily CSO Inspection Front Street	6/18/23 10:31		27
74771	Daily CSO Inspection Front Street	6/19/23 7:55		27
74774	Daily CSO Inspection Front Street	6/20/23 10:00		27
74801	Daily CSO Inspection Front Street	6/21/23 11:00		27
74824	Daily CSO Inspection Front Street	6/22/23 9:45		27
74851	Daily CSO Inspection Front Street	6/23/23 10:00		27
74919	Daily CSO Inspection Front Street	6/24/23 10:42		27
74928	Daily CSO Inspection Front Street	6/25/23 10:00		27
74937	Daily CSO Inspection Front Street	6/26/23 12:15		27
74963	Daily CSO Inspection Front Street	6/27/23 9:30		27
74972	Daily CSO Inspection Front Street	6/28/23 10:00		27
75030	Daily CSO Inspection Front Street	6/29/23 11:00		27
75069	Daily CSO Inspection Front Street	6/30/23 9:00		27
 				
68759	Daily CSO Inspection Paxton Creek	1/1/23 12:00		31
68764	Daily CSO Inspection Paxton Creek	1/2/23 12:00		31
68770	Daily CSO Inspection Paxton Creek	1/3/23 10:45		31
68776	Daily CSO Inspection Paxton Creek	1/4/23 12:23		31
68838	Daily CSO Inspection Paxton Creek	1/5/23 12:14		31
68874	Daily CSO Inspection Paxton Creek	1/6/23 12:18		31
68904	Daily CSO Inspection Paxton Creek	1/7/23 12:42		31
68917	Daily CSO Inspection Paxton Creek	1/8/23 9:10		31
68921	Daily CSO Inspection Paxton Creek	1/9/23 12:23		31
68938	Daily CSO Inspection Paxton Creek	1/10/23 9:30		31
68974	Daily CSO Inspection Paxton Creek	1/11/23 12:24		31
68998	Daily CSO Inspection Paxton Creek	1/12/23 11:56		31
69035	Daily CSO Inspection Paxton Creek	1/13/23 10:00		31
69054	Daily CSO Inspection Paxton Creek	1/14/23 12:32		31
69075	Daily CSO Inspection Paxton Creek	1/15/23 11:13		31
69077	Daily CSO Inspection Paxton Creek	1/16/23 8:30		31
69079	Daily CSO Inspection Paxton Creek	1/17/23 12:04		31
69088	Daily CSO Inspection Paxton Creek	1/18/23 11:08		31
69112	Daily CSO Inspection Paxton Creek	1/19/23 10:56		31
69132	Daily CSO Inspection Paxton Creek	1/20/23 13:09		31
69159	Daily CSO Inspection Paxton Creek	1/21/23 8:30		31
69184	Daily CSO Inspection Paxton Creek	1/22/23 12:00		31
69190	Daily CSO Inspection Paxton Creek	1/23/23 13:02		31
69232	Daily CSO Inspection Paxton Creek	1/24/23 14:25		31
69265	Daily CSO Inspection Paxton Creek	1/25/23 9:54		31
69280	Daily CSO Inspection Paxton Creek	1/26/23 9:47		31
69310	Daily CSO Inspection Paxton Creek	1/27/23 10:54		31
69329	Daily CSO Inspection Paxton Creek	1/28/23 9:16		31
69348	Daily CSO Inspection Paxton Creek	1/29/23 8:55		31

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
69375	Daily CSO Inspection Paxton Creek	1/30/23 14:51		31
69430	Daily CSO Inspection Paxton Creek	1/31/23 9:38		31
69447	Daily CSO Inspection Paxton Creek	2/1/23 9:49		31
69502	Daily CSO Inspection Paxton Creek	2/2/23 11:15		31
69603	Daily CSO Inspection Paxton Creek	2/3/23 10:48		31
69704	Daily CSO Inspection Paxton Creek	2/4/23 8:35		31
69744	Daily CSO Inspection Paxton Creek	2/5/23 9:38		31
69754	Daily CSO Inspection Paxton Creek	2/6/23 9:30		31
69809	Daily CSO Inspection Paxton Creek	2/7/23 11:44		31
69911	Daily CSO Inspection Paxton Creek	2/8/23 9:30		31
69943	Daily CSO Inspection Paxton Creek	2/9/23 9:40		31
69958	Daily CSO Inspection Paxton Creek	2/10/23 9:37		31
69983	Daily CSO Inspection Paxton Creek	2/11/23 9:36		31
70471	Daily CSO Inspection Paxton Creek	2/12/23 9:45		31
70481	Daily CSO Inspection Paxton Creek	2/13/23 12:33		31
70516	Daily CSO Inspection Paxton Creek	2/14/23 10:05		31
70547	Daily CSO Inspection Paxton Creek	2/15/23 11:53		31
70571	Daily CSO Inspection Paxton Creek	2/16/23 12:25		31
70624	Daily CSO Inspection Paxton Creek	2/17/23 10:41		31
70641	Daily CSO Inspection Paxton Creek	2/18/23 9:51		31
70650	Daily CSO Inspection Paxton Creek	2/19/23 9:44		31
70661	Daily CSO Inspection Paxton Creek	2/20/23 8:45		31
70673	Daily CSO Inspection Paxton Creek	2/21/23 11:34		31
70691	Daily CSO Inspection Paxton Creek	2/22/23 11:03		31
70726	Daily CSO Inspection Paxton Creek	2/23/23 10:00		31
70796	Daily CSO Inspection Paxton Creek	2/24/23 12:21		31
70862	Daily CSO Inspection Paxton Creek	2/25/23 9:18		31
70881	Daily CSO Inspection Paxton Creek	2/26/23 8:13		31
70885	Daily CSO Inspection Paxton Creek	2/27/23 11:59		31
70933	Daily CSO Inspection Paxton Creek	2/28/23 11:51		31
70954	Daily CSO Inspection Paxton Creek	3/1/23 11:09		31
70992	Daily CSO Inspection Paxton Creek	3/2/23 9:18		31
71020	Daily CSO Inspection Paxton Creek	3/3/23 10:43		31
71063	Daily CSO Inspection Paxton Creek	3/4/23 9:00		31
71071	Daily CSO Inspection Paxton Creek	3/5/23 9:00		31
71080	Daily CSO Inspection Paxton Creek	3/6/23 12:57		31
71115	Daily CSO Inspection Paxton Creek	3/7/23 9:30		31
71172	Daily CSO Inspection Paxton Creek	3/8/23 12:36		31
71249	Daily CSO Inspection Paxton Creek	3/9/23 10:24		31
71279	Daily CSO Inspection Paxton Creek	3/10/23 9:30		31
71330	Daily CSO Inspection Paxton Creek	3/11/23 9:00		31
71362	Daily CSO Inspection Paxton Creek	3/12/23 9:17		31
71368	Daily CSO Inspection Paxton Creek	3/13/23 10:42		31
71393	Daily CSO Inspection Paxton Creek	3/14/23 10:41		31
71478	Daily CSO Inspection Paxton Creek	3/15/23 10:40		31
71501	Daily CSO Inspection Paxton Creek	3/16/23 11:57		31
71519	Daily CSO Inspection Paxton Creek	3/17/23 12:59		31
71544	Daily CSO Inspection Paxton Creek	3/18/23 10:17		31
71551	Daily CSO Inspection Paxton Creek	3/19/23 12:00		31
71561	Daily CSO Inspection Paxton Creek	3/20/23 12:08		31
71570	Daily CSO Inspection Paxton Creek	3/21/23 9:43		31
71597	Daily CSO Inspection Paxton Creek	3/22/23 12:49		31
71645	Daily CSO Inspection Paxton Creek	3/23/23 9:30		31
71655	Daily CSO Inspection Paxton Creek	3/24/23 10:00		31
71663	Daily CSO Inspection Paxton Creek	3/25/23 8:46		31
71682	Daily CSO Inspection Paxton Creek	3/26/23 14:57		31
71686	Daily CSO Inspection Paxton Creek	3/27/23 11:24		31

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
71705	Daily CSO Inspection Paxton Creek	3/28/23 9:23		31
71722	Daily CSO Inspection Paxton Creek	3/29/23 12:17		31
71752	Daily CSO Inspection Paxton Creek	3/30/23 9:30		31
71812	Daily CSO Inspection Paxton Creek	3/31/23 9:30		31
71839	Daily CSO Inspection Paxton Creek	4/1/23 7:50		31
71851	Daily CSO Inspection Paxton Creek	4/2/23 9:08		31
71854	Daily CSO Inspection Paxton Creek	4/3/23 9:30		31
71865	Daily CSO Inspection Paxton Creek	4/4/23 10:40		31
71910	Daily CSO Inspection Paxton Creek	4/5/23 13:50		31
72304	Daily CSO Inspection Paxton Creek	4/6/23 11:06		31
72317	Daily CSO Inspection Paxton Creek	4/7/23 10:25		31
72332	Daily CSO Inspection Paxton Creek	4/8/23 9:03		31
72336	Daily CSO Inspection Paxton Creek	4/9/23 10:01		31
72344	Daily CSO Inspection Paxton Creek	4/10/23 11:49		31
72357	Daily CSO Inspection Paxton Creek	4/11/23 12:19		31
72373	Daily CSO Inspection Paxton Creek	4/12/23 10:09		31
72390	Daily CSO Inspection Paxton Creek	4/13/23 10:52		31
72434	Daily CSO Inspection Paxton Creek	4/14/23 10:14		31
72455	Daily CSO Inspection Paxton Creek	4/15/23 8:22		31
72487	Daily CSO Inspection Paxton Creek	4/16/23 8:47		31
72490	Daily CSO Inspection Paxton Creek	4/17/23 10:28		31
72522	Daily CSO Inspection Paxton Creek	4/18/23 12:39		31
72580	Daily CSO Inspection Paxton Creek	4/19/23 10:47		31
72618	Daily CSO Inspection Paxton Creek	4/20/23 14:03		31
72646	Daily CSO Inspection Paxton Creek	4/21/23 8:44		31
72687	Daily CSO Inspection Paxton Creek	4/22/23 8:52		31
72759	Daily CSO Inspection Paxton Creek	4/23/23 9:34		31
72768	Daily CSO Inspection Paxton Creek	4/24/23 12:45		31
72799	Daily CSO Inspection Paxton Creek	4/25/23 9:30		31
72830	Daily CSO Inspection Paxton Creek	4/26/23 11:57		31
72888	Daily CSO Inspection Paxton Creek	4/27/23 11:58		31
72918	Daily CSO Inspection Paxton Creek	4/28/23 9:45		31
72947	Daily CSO Inspection Paxton Creek	4/29/23 10:24		31
72959	Daily CSO Inspection Paxton Creek	4/30/23 19:00		31
72966	Daily CSO Inspection Paxton Creek	5/1/23 10:57		31
72969	Daily CSO Inspection Paxton Creek	5/2/23 10:45		31
73003	Daily CSO Inspection Paxton Creek	5/3/23 10:10		31
73043	Daily CSO Inspection Paxton Creek	5/4/23 12:38		31
73079	Daily CSO Inspection Paxton Creek	5/5/23 9:30		31
73123	Daily CSO Inspection Paxton Creek	5/6/23 8:40		31
73132	Daily CSO Inspection Paxton Creek	5/7/23 8:42		31
73139	Daily CSO Inspection Paxton Creek	5/8/23 9:00		31
73190	Daily CSO Inspection Paxton Creek	5/9/23 11:51		31
73236	Daily CSO Inspection Paxton Creek	5/10/23 10:42		31
73260	Daily CSO Inspection Paxton Creek	5/11/23 9:00		31
73304	Daily CSO Inspection Paxton Creek	5/12/23 10:04		31
73321	Daily CSO Inspection Paxton Creek	5/13/23 8:30		31
73336	Daily CSO Inspection Paxton Creek	5/14/23 8:17		31
73340	Daily CSO Inspection Paxton Creek	5/15/23 11:19		31
73414	Daily CSO Inspection Paxton Creek	5/16/23 9:30		31
73440	Daily CSO Inspection Paxton Creek	5/17/23 10:00		31
73461	Daily CSO Inspection Paxton Creek	5/18/23 11:51		31
73735	Daily CSO Inspection Paxton Creek	5/19/23 12:05		31
73767	Daily CSO Inspection Paxton Creek	5/20/23 9:00		31
73775	Daily CSO Inspection Paxton Creek	5/21/23 9:35		31
73778	Daily CSO Inspection Paxton Creek	5/22/23 10:55		31
73809	Daily CSO Inspection Paxton Creek	5/23/23 11:13		31

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73880	Daily CSO Inspection Paxton Creek	5/24/23 10:11		31
73918	Daily CSO Inspection Paxton Creek	5/25/23 11:53		31
73955	Daily CSO Inspection Paxton Creek	5/26/23 12:28		31
73982	Daily CSO Inspection Paxton Creek	5/27/23 7:53		31
74001	Daily CSO Inspection Paxton Creek	5/28/23 8:56		31
74013	Daily CSO Inspection Paxton Creek	5/29/23 12:00		31
74016	Daily CSO Inspection Paxton Creek	5/30/23 12:47		31
74041	Daily CSO Inspection Paxton Creek	5/31/23 10:23		31
74079	Daily CSO Inspection Paxton Creek	6/1/23 9:59		31
74138	Daily CSO Inspection Paxton Creek	6/2/23 9:43		31
74205	Daily CSO Inspection Paxton Creek	6/3/23 8:08		31
74268	Daily CSO Inspection Paxton Creek	6/4/23 10:00		31
74280	Daily CSO Inspection Paxton Creek	6/5/23 11:12		31
74322	Daily CSO Inspection Paxton Creek	6/6/23 12:00		31
74387	Daily CSO Inspection Paxton Creek	6/7/23 9:15		31
74424	Daily CSO Inspection Paxton Creek	6/8/23 11:05		31
74468	Daily CSO Inspection Paxton Creek	6/9/23 12:08		31
74511	Daily CSO Inspection Paxton Creek	6/10/23 10:46		31
74522	Daily CSO Inspection Paxton Creek	6/11/23 20:50		31
74525	Daily CSO Inspection Paxton Creek	6/12/23 9:30		31
74578	Daily CSO Inspection Paxton Creek	6/13/23 9:30		31
74636	Daily CSO Inspection Paxton Creek	6/14/23 9:30		31
74654	Daily CSO Inspection Paxton Creek	6/15/23 9:55		31
74722	Daily CSO Inspection Paxton Creek	6/16/23 9:45		31
74760	Daily CSO Inspection Paxton Creek	6/17/23 7:36		31
74767	Daily CSO Inspection Paxton Creek	6/18/23 10:20		31
74770	Daily CSO Inspection Paxton Creek	6/19/23 7:47		31
74773	Daily CSO Inspection Paxton Creek	6/20/23 10:00		31
74802	Daily CSO Inspection Paxton Creek	6/21/23 9:00		31
74825	Daily CSO Inspection Paxton Creek	6/22/23 9:52		31
74852	Daily CSO Inspection Paxton Creek	6/23/23 9:30		31
74904	Daily CSO Inspection Paxton Creek	6/24/23 8:30		31
74929	Daily CSO Inspection Paxton Creek	6/25/23 8:00		31
74938	Daily CSO Inspection Paxton Creek	6/26/23 12:01		31
74962	Daily CSO Inspection Paxton Creek	6/27/23 9:30		31
74974	Daily CSO Inspection Paxton Creek	6/28/23 10:00		31
75029	Daily CSO Inspection Paxton Creek	6/29/23 9:00		31
75070	Daily CSO Inspection Paxton Creek	6/30/23 9:00		31
 				
70529	Daily FOG Inspection Rounds	1/12/23 12:00		5
70532	Daily FOG Inspection Rounds	1/19/23 12:00		6
70534	Daily FOG Inspection Rounds	1/24/23 12:00		5
70848	Daily FOG Inspection Rounds	2/23/23 12:00		3
71320	Daily FOG Inspection Rounds	3/10/23 9:11		2
 				
68911	Flush Sewer Pipe	1/5/23 11:00	South Cameron and Cun North Cameron and	1
68908	Flush Sewer Pipe	1/5/23 11:00	Cumberland 101 Verbeke St, Harrisburg, Dauphin County, Pennsylvania,	1
69066	Flush Sewer Pipe	1/13/23 14:20	17102, USA Sylvan Terrace and	1
69135	Flush Sewer Pipe	1/19/23 12:00	Christian	1
69292	Flush Sewer Pipe	1/24/23 2:38	2410 Berryhill St	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
69283	Flush Sewer Pipe	1/24/23 13:00	2407 Kensington St, Harrisburg, Pennsylvania, 17104	1
69295	Flush Sewer Pipe	1/24/23 14:00	North Cameron and Cun	1
69294	Flush Sewer Pipe	1/24/23 14:00	Hale Ave & Rudy Rd	1
69296	Flush Sewer Pipe	1/24/23 15:09	South Cameron and Cumberland street cso#26	1
69270	Flush Sewer Pipe	1/25/23 12:00	22nd and Bellvue	1
69271	Flush Sewer Pipe	1/25/23 12:00	Green st Terminal run towards Forester	1
69302	Flush Sewer Pipe	1/26/23 8:32	Chestnut St	1
69304	Flush Sewer Pipe	1/26/23 8:44	Chestnut St	1
69306	Flush Sewer Pipe	1/26/23 8:57	Chestnut St	1
69314	Flush Sewer Pipe	1/26/23 10:17	Logan St	1
69512	Flush Sewer Pipe	1/29/23 1:14	Rumson Dr.	1
69534	Flush Sewer Pipe	1/29/23 12:00	Wyatt	1
69533	Flush Sewer Pipe	1/29/23 12:00	Croyden	1
69522	Flush Sewer Pipe	1/29/23 12:00	Croyden	1
69515	Flush Sewer Pipe	1/29/23 12:00	Rumson	1
69509	Flush Sewer Pipe	1/29/23 12:00	Rumson Dr.	1
69535	Flush Sewer Pipe	1/29/23 12:00	Croyden Dr.	1
69523	Flush Sewer Pipe	1/29/23 12:00	Croyden	1
69529	Flush Sewer Pipe	1/29/23 12:00	Croyden	1
69516	Flush Sewer Pipe	1/29/23 12:00	Meadowlark Pl	1
69531	Flush Sewer Pipe	1/29/23 12:00	Wyatt	1
69532	Flush Sewer Pipe	1/29/23 12:00	Wyatt	1
69517	Flush Sewer Pipe	1/29/23 13:00	Meadowlark Pl	1
69520	Flush Sewer Pipe	1/29/23 14:00	Meadowlark Pl	1
69514	Flush Sewer Pipe	1/29/23 14:00	Rumson	1
69518	Flush Sewer Pipe	1/29/23 14:00	Meadowlark Pl.	1
69488	Flush Sewer Pipe	1/31/23 12:00	Compass Aly	1
69976	Flush Sewer Pipe	2/10/23 12:00	Woodland St.	1
70504	Flush Sewer Pipe	2/13/23 12:00	McCleaster	1
70519	Flush Sewer Pipe	2/13/23 12:00	McCleaster	1
70511	Flush Sewer Pipe	2/13/23 12:00	McCleaster	1
70503	Flush Sewer Pipe	2/13/23 12:00	McCleaster	1
70593	Flush Sewer Pipe	2/14/23 13:00	1426 Hunter St, Harrisburg, Pennsylvania, 17104	1
70586	Flush Sewer Pipe	2/15/23 7:39	McCleaster	1
70587	Flush Sewer Pipe	2/15/23 12:00	22nd	1
70560	Flush Sewer Pipe	2/15/23 12:00	McCleaster	1
70975	Flush Sewer Pipe	2/16/23 12:00	Conoy st	1
70583	Flush Sewer Pipe	2/17/23 12:00	McCleaster	1
70644	Flush Sewer Pipe	2/17/23 12:00	Verbeke St	1
71006	Flush Sewer Pipe	3/1/23 12:00	Heather place	1
71007	Flush Sewer Pipe	3/1/23 12:00	2972 Heather Pl, Harrisburg, Dauphin County, Pennsylvania, 17104, 1524, USA	1
71005	Flush Sewer Pipe	3/2/23 7:35	Heather Place	1
71259	Flush Sewer Pipe	3/5/23 12:00	Vineyard	1
71162	Flush Sewer Pipe	3/5/23 12:00	Oakwood	1
71154	Flush Sewer Pipe	3/5/23 12:00	Edgewood rd	1
71088	Flush Sewer Pipe	3/5/23 12:00	Sycamore rd	1
71484	Flush Sewer Pipe	3/8/23 12:00	Vineyard Rd	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
71476	Flush Sewer Pipe	3/8/23 12:00	Vineyard Rd	1
71475	Flush Sewer Pipe	3/8/23 12:00	Vineyard Rd	1
71472	Flush Sewer Pipe	3/8/23 12:00	Vineyard Rd	1
71481	Flush Sewer Pipe	3/8/23 12:00	Hillside Rd	1
71483	Flush Sewer Pipe	3/8/23 12:00	Hillside Rd	1
71625	Flush Sewer Pipe	3/16/23 12:00	Greenwood	1
71627	Flush Sewer Pipe	3/16/23 12:00	Greenwood	1
71661	Flush Sewer Pipe	3/20/23 12:00	Market and 17th	1
71736	Flush Sewer Pipe	3/28/23 12:00	2214 Jefferson	1
72288	Flush Sewer Pipe	4/5/23 10:43	17 N. 17th St	1
72424	Flush Sewer Pipe	4/12/23 1:03	2nd and Cranberry	1
72423	Flush Sewer Pipe	4/13/23 7:52	2nd and Locust	1
72425	Flush Sewer Pipe	4/13/23 8:14	2nd and Cranberry	1
72426	Flush Sewer Pipe	4/13/23 8:23	2nd and Cranberry	1
72427	Flush Sewer Pipe	4/13/23 8:30	2nd and Cranberry	1
73066	Flush Sewer Pipe	4/14/23 12:00	1851 Spencer st	1
72495	Flush Sewer Pipe	4/16/23 12:00	2nd st	1
72524	Flush Sewer Pipe	4/17/23 12:00	1015 S 16TH ST	1
73115	Flush Sewer Pipe	4/19/23 12:00	Luce St	1
72812	Flush Sewer Pipe	4/24/23 12:00	2347 kensington street 1512 Naudain St, Harrisburg,	1
73082	Flush Sewer Pipe	4/24/23 12:00	Pennsylvania, 17104	1
73046	Flush Sewer Pipe	4/26/23 12:00	83 Project	1
72896	Flush Sewer Pipe	4/26/23 12:00	17th & Ella Alley	1
73026	Flush Sewer Pipe	4/26/23 12:00	4th ST	1
73050	Flush Sewer Pipe	4/27/23 12:00	83 Project	1
73071	Flush Sewer Pipe	4/27/23 12:00	2nd st	1
73049	Flush Sewer Pipe	4/29/23 12:00	83 Prpject	1
73041	Flush Sewer Pipe	4/30/23 12:00	83 Project	1
73085	Flush Sewer Pipe	4/30/23 12:00	2404 Reel	1
73031	Flush Sewer Pipe	5/3/23 9:15	1601 green st	1
73055	Flush Sewer Pipe	5/3/23 13:30	83 Project	1
73057	Flush Sewer Pipe	5/3/23 13:50	83 Project	1
73059	Flush Sewer Pipe	5/3/23 14:08	83 Project	1
74226	Flush Sewer Pipe	5/12/23 12:00	Muench 1931 SUSQ	1
73404	Flush Sewer Pipe	5/15/23 7:50	Luce st	1
73736	Flush Sewer Pipe	5/18/23 12:32	Court st	1
73821	Flush Sewer Pipe	5/22/23 12:00	McCleaster St	1
74219	Flush Sewer Pipe	5/23/23 12:00	walnut st	1
74194	Flush Sewer Pipe	5/24/23 12:00	Kensington St	1
74055	Flush Sewer Pipe	5/30/23 12:00	21ST St	1
74058	Flush Sewer Pipe	5/30/23 12:00	Kensington St	1
74051	Flush Sewer Pipe	5/30/23 12:00	Central St	1
74613	Flush Sewer Pipe	6/11/23 12:00	Market St	1
74623	Flush Sewer Pipe	6/11/23 12:00	Market St	1
74619	Flush Sewer Pipe	6/11/23 12:00	Market St	1
74316	Flush Sewer Pipe	6/14/23 12:00	Walnut st	1
74984	Flush Sewer Pipe	6/21/23 12:00	Green St	1
74842	Flush Sewer Pipe	6/21/23 13:30	5th St.	1
74891	Flush Sewer Pipe	6/23/23 12:00	Green & Herr St	1
74893	Flush Sewer Pipe	6/23/23 12:00	Green & Herr St	1
74901	Flush Sewer Pipe	6/23/23 12:00	Green St	1
74980	Flush Sewer Pipe	6/26/23 12:00	18th & Regina St	1
74981	Flush Sewer Pipe	6/26/23 12:00	Market st	1
75028	Flush Sewer Pipe	6/28/23 12:00	Green & Charles St	1
75026	Flush Sewer Pipe	6/28/23 12:00	Market St	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
			Spring Creek Pump	
65145	Grounds Maintenance Pumping Station	4/14/23 10:00	Station	1
66543	Grounds Maintenance Pumping Station	4/14/23 11:00	Front St. Pump Station	1
			Spring Creek Pump	
72469	Grounds Maintenance Pumping Station	5/7/23 13:30	Station	1
72470	Grounds Maintenance Pumping Station	5/8/23 14:30	Front St. Pump Station	1
73198	Grounds Maintenance Pumping Station	5/25/23 14:30	Front St. Pump Station	1
			Spring Creek Pump	
73161	Grounds Maintenance Pumping Station	6/24/23 13:45	Station	1
49827	Inspect CSO Silt Basin	4/22/23 11:30	CAMERON & STATE	1
67764	Inspect Sewer Manhole Cover	2/28/23 13:30	19th St. East	30
67765	Inspect Sewer Manhole Cover	2/28/23 15:00	CAMERON ST & CAMERON PARK DR	24
			Walnut street (NRG	
70899	Inspect Sewer Valve	3/10/23 13:30	valve)	1
			2616 Agate St,	
			Harrisburg,	
72774	Plate Sinkhole or Pending Work	4/23/23 12:00	Pennsylvania, 17110	1
72831	Plate Sinkhole or Pending Work	4/25/23 12:00	4th ST	1
20860	Raise/Lower Sewer Manhole	6/20/23 13:47	Commonwealth	1
73888	Repair CSO Chamber	5/23/23 12:00	Front & Muench St	1
73979	Repair CSO Chamber	5/26/23 12:00	Front & Reily St.	1
68884	Repair Sewer Lateral	1/16/23 12:00	1934 Manada st	1
68561	Repair Sewer Lateral	1/26/23 12:00	1723 herr	1
			1723 Herr St,	
			Harrisburg,	
68315	Repair Sewer Lateral	1/26/23 12:00	Pennsylvania, 17103	1
69451	Repair Sewer Lateral	2/3/23 12:00	Compass alley	1
71579	Repair Sewer Lateral	3/9/23 12:00	1921 Caledonia st	1
71293	Repair Sewer Lateral	3/13/23 12:00	216 s 15th st	1
69774	Repair Sewer Manhole	2/6/23 12:00	1029 Mulberry St, Harris	1
			4th St & Walnut St,	
			Harrisburg,	
71566	Repair Sewer Manhole	3/20/23 11:04	Pennsylvania, 17120	1
			N 3rd St & Schuylkill St,	
			Harrisburg,	
72776	Repair Sewer Manhole	4/23/23 12:00	Pennsylvania, 17110	1
31331	Repair Sewer Pipe	4/25/23 12:00	27th and Raleigh	1
			N Cameron St & Maclay	
			St, Harrisburg,	
68950	Replace Sewer Manhole Cover	1/10/23 12:00	Pennsylvania, 17103	1
71559	Replace Sewer Manhole Cover	3/19/23 12:00	4th St & Walnut St, Harr	1
			S. KITTATINNY &	
66041	Semi-Annual PM; CSO Type A	3/26/23 10:00	CAMERON	1
65744	Semi-Annual PM; CSO Type A	3/26/23 12:00	9TH & HERR	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
66404	Semi-Annual PM; CSO Type A	3/27/23 11:00	FRONT & CALDER	1
66401	Semi-Annual PM; CSO Type A	3/27/23 12:00	E. CAMERON & NORTH	1
66402	Semi-Annual PM; CSO Type A	3/27/23 12:00	FRONT & REILY	1
66183	Semi-Annual PM; CSO Type A	3/27/23 12:00	FRONT & STATE	1
65818	Semi-Annual PM; CSO Type A	3/27/23 12:00	FRONT & VERBEKE	1
66181	Semi-Annual PM; CSO Type A	3/27/23 13:00	FRONT & LIBERTY	1
66370	Semi-Annual PM; CSO Type A	3/27/23 13:00	FRONT & Peffer	1
66521	Semi-Annual PM; CSO Type A	3/27/23 14:00	FRONT & CUMBERLAND	1
66345	Semi-Annual PM; CSO Type A	3/29/23 12:00	FRONT & PINE	1
66339	Semi-Annual PM; CSO Type A	3/29/23 12:00	FRONT & SOUTH	1
66182	Semi-Annual PM; CSO Type A	3/29/23 13:00	FRONT & LOCUST	1
66355	Semi-Annual PM; CSO Type A	4/2/23 12:00	FRONT & SCHUYLKILL	1
65816	Semi-Annual PM; CSO Type A	4/2/23 12:00	CHERRY & MULBERRY	1
66337	Semi-Annual PM; CSO Type A	4/2/23 12:00	FRONT & LEWIS	1
66520	Semi-Annual PM; CSO Type A	4/2/23 12:00	FRONT & MARKET	1
65969	Semi-Annual PM; CSO Type A	4/2/23 12:00	W. CAMERON & NORTH	1
66363	Semi-Annual PM; CSO Type A	4/3/23 9:00	FRONT & GEIGER	1
66545	Semi-Annual PM; CSO Type A	4/3/23 10:00	FRONT & HAMILTON	1
66376	Semi-Annual PM; CSO Type A	4/3/23 12:00	FRONT & WALNUT	1
65800	Semi-Annual PM; CSO Type A	4/3/23 13:00	10TH & CHESTNUT N. CAMERON &	1
65730	Semi-Annual PM; CSO Type A	4/3/23 13:00	CUMBERLAND	1
65808	Semi-Annual PM; CSO Type A	4/4/23 13:00	10TH & MARKET S. MULBERRY &	1
65810	Semi-Annual PM; CSO Type A	4/5/23 13:30	CAMERON N. KITTATINNY &	1
66038	Semi-Annual PM; CSO Type A	4/8/23 10:00	CAMERON	1
66519	Semi-Annual PM; CSO Type A	4/8/23 12:30	FRONT & FORSTER CAMERON &	1
66399	Semi-Annual PM; CSO Type A	4/13/23 11:30	SCHUYLKILL	1
65737	Semi-Annual PM; CSO Type A	4/22/23 11:30	CAMERON & STATE S. MARKET &	1
68555	Semi-Annual PM; CSO Type A	4/23/23 10:00	CAMERON SENECA &	1
66372	Semi-Annual PM; CSO Type A	5/11/23 12:30	SUSQUEHANNA	1
66374	Semi-Annual PM; CSO Type A	5/16/23 12:30	WOODBINE & GREEN	1
66544	Semi-Annual PM; CSO Type A	5/18/23 12:00	FRONT & MUENCH	1
65742	Semi-Annual PM; CSO Type B	3/26/23 12:00	9TH & CUMBERLAND W. CAMERON &	1
65739	Semi-Annual PM; CSO Type B	3/26/23 13:30	WALNUT	1
66335	Semi-Annual PM; CSO Type B	4/2/23 11:00	FRONT & VAUGHN E. CAMERON &	1
65762	Semi-Annual PM; CSO Type B	4/3/23 12:00	WALNUT S. CAMERON &	1
65733	Semi-Annual PM; CSO Type B	4/3/23 13:00	CUMBERLAND N.MULBERRY &	1
65815	Semi-Annual PM; CSO Type B	4/5/23 11:30	CAMERON W. MULBERRY &	1
65763	Semi-Annual PM; CSO Type B	4/5/23 12:00	CAMERON	1
66377	Semi-Annual PM; CSO Type B	4/12/23 14:30	FRONT & PAXTON	1
66472	Semi-Annual PM; CSO Type B	4/22/23 14:00	FRONT & HANNA	1
66471	Semi-Annual PM; CSO Type B	4/23/23 13:30	FRONT & TUSCARORA	1
65802	Semi-Annual PM; CSO Type C	3/26/23 13:00	SALMON STREET	1
65803	Semi-Annual PM; CSO Type C	3/26/23 13:00	SHANNOIS STREET	1
65804	Semi-Annual PM; CSO Type C	3/27/23 13:00	CAMERON & HANOVER	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
65758	Semi-Annual PM; CSO Type C	3/27/23 13:30	HILL CHAMBER T.R.W. CAMERON &	1
65805	Semi-Annual PM; CSO Type C	3/27/23 14:00	MAGNOLIA	1
65820	Semi-Annual PM; CSO Type C	3/27/23 14:30	FRONT & BOAS	1
65760	Semi-Annual PM; CSO Type C	3/28/23 12:30	CAMERON & CALDER	1
65807	Semi-Annual PM; CSO Type C	4/8/23 9:00	10TH & SYCAMORE	1
66440	Semi-Annual PM; CSO Type D	4/2/23 9:00	CAMERON & BERRYHILL E. KITTATINNY &	1
66468	Semi-Annual PM; CSO Type D	4/8/23 10:30	CAMERON	1
66042	Semi-Annual PM; CSO Type D	4/23/23 11:00	N. PAXTON STREET	1
66045	Semi-Annual PM; CSO Type D	4/23/23 12:00	S. PAXTON STREET	1
68899	Sinkhole Surface Repair	1/5/23 16:30	Barbara St & N River St, Harrisburg, Pennsylvania, 17101	1
68297	Street Restoration Sewer Lateral	1/6/23 14:23	3200 N 5th Street 706 and 708 South	1
67955	Street Restoration Sewer Lateral	1/10/23 14:31	25th Street	2
69269	Street Restoration Sewer Lateral	2/3/23 7:04	1829 Rudy Street	1
69471	Street Restoration Sewer Lateral	2/7/23 14:06	353 S 14Th Street	1
69653	Street Restoration Sewer Lateral	2/10/23 8:06	1934 Manada Street 2339 Derry St (cut on	1
70555	Street Restoration Sewer Lateral	2/23/23 12:26	Lawn Alley)	1
69530	Street Restoration Sewer Lateral	2/27/23 7:55	708s 25th st	1
69924	Street Restoration Sewer Lateral	2/28/23 14:19	144 N 13th Street	1
70648	Street Restoration Sewer Lateral	3/1/23 7:17	1266 Miller Street	1
70953	Street Restoration Sewer Lateral	3/8/23 13:00	1619 Swatara St	1
69299	Street Restoration Sewer Lateral	4/13/23 14:11	1214 South 20th Street	1
69527	Street Restoration Sewer Lateral	5/2/23 13:59	2229 LOGAN ST, HARRISBURG, PA 17110 Manada Street, 13th	1
60394	Street Restoration Sewer Lateral	5/5/23 10:14	Street, 17th Street	12
71527	Street Restoration Sewer Lateral	5/5/23 10:20	1458 Market st	1
71631	Street Restoration Sewer Lateral	5/5/23 10:26	216 s 15th st	1
73194	Street Restoration Sewer Lateral	5/10/23 13:22	16th & Paxton	1
72928	Street Restoration Sewer Lateral	5/11/23 13:59	698 Angenese St	1
72899	Street Restoration Sewer Lateral	5/17/23 12:58	609s 22nd St	1
68837	Street Restoration Sewer Lateral	6/1/23 13:03	359 S 18th Street	1
39195	Street Restoration Sewer Manhole	1/13/23 12:00	Cameron St	1
47613	Street Restoration Sewer Manhole	1/18/23 13:21	Penn and Sayford Wood St & Peffer St, Harrisburg,	2
65435	Street Restoration Sewer Manhole	1/18/23 13:31	Pennsylvania, 17102	1
61057	Street Restoration Sewer Manhole	2/6/23 8:40	Sycamore & Cameron Susquehanna St & Forster St, Harrisburg,	1
35217	Street Restoration Sewer Manhole	2/6/23 8:46	Pennsylvania, 17102 Forster St & N Front St, Harrisburg,	1
35444	Street Restoration Sewer Manhole	2/6/23 8:47	Pennsylvania, 17102 N 2nd St & Forster St, Harrisburg,	2
35445	Street Restoration Sewer Manhole	2/6/23 8:48	Pennsylvania, 17102	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
72775	Street Restoration Sewer Manhole	4/23/23 12:00	Raleigh St, Harrisburg, Pennsylvania, 17104	2
52394	Street Restoration Sewer Pipe	3/8/23 13:08	2nd and North	1
74864	Street Restoration Sewer Pipe	6/22/23 11:00	N 5th St & Muench St, Harrisburg, Pennsylvania, 17102	1
69428	Update GIS	1/30/23 15:57		49
69678	Update GIS	2/3/23 15:57		23
69813	Update GIS	2/6/23 15:10	2nd and Vine	17
69908	Update GIS	2/7/23 13:00	222 chestnut st	8
69937	Update GIS	2/8/23 16:37	222 chestnut st	13
69954	Update GIS	2/9/23 15:32	Cameron st	30
69988	Update GIS	2/10/23 16:06	Cameron st	4
70508	Update GIS	2/13/23 10:59	17th and market	2
70501	Update GIS	2/13/23 16:14	Market st	42
70566	Update GIS	2/15/23 16:41	Wood St, Harrisburg, Pennsylvania, 17102	26
70618	Update GIS	2/17/23 16:03	Woodbine St	23
70693	Update GIS	2/22/23 16:23	KITTATINNY ST	31
70767	Update GIS	2/24/23 16:08	15th & Boas	18
70979	Update GIS	3/1/23 9:00	James St, Harrisburg, Pe	3
70966	Update GIS	3/1/23 15:36	Regina & Chayne	31
71018	Update GIS	3/2/23 16:25	ELLA ALY	49
71055	Update GIS	3/3/23 15:48	BERRYHILL ST	45
71100	Update GIS	3/6/23 15:02	N 18th St & Forster St, Harrisburg, Pennsylvania, 17103	50
71161	Update GIS	3/7/23 14:31	20th st R/W	25
71263	Update GIS	3/8/23 15:47		2
71406	Update GIS	3/13/23 16:22	Alricks st	7
71638	Update GIS	3/22/23 16:13	Derry st	14
71665	Update GIS	3/24/23 16:17	20th to Mulberry	7
71734	Update GIS	3/29/23 8:13	S 16TH ST	2
71710	Update GIS	3/29/23 14:50	Market St, Harrisburg, Pennsylvania, 17101	6
71888	Update GIS	4/6/23 16:16	Melrose	21
73054	Update GIS	5/5/23 14:43		7
69286	Vactor Sewer Manhole	1/24/23 13:00	2407 Kensington St, Harrisburg, Pennsylvania, 17104	1
69285	Vactor Sewer Manhole	1/24/23 13:00	2407 Kensington St, Harrisburg, Pennsylvania, 17104	1
72421	Vactor Sewer Manhole	4/12/23 14:00		2
72682	Vactor Sewer Manhole	4/20/23 13:00	Front and liberty cso #16	1
73239	Vactor Sewer Manhole	5/9/23 11:30	front & pepper	1
73968	Vactor Sewer Manhole	5/24/23 12:00	South 17th and Sumner street	1
74157	Vactor Sewer Manhole	5/30/23 9:30	Cameron And State (Cso #31)	1
74158	Vactor Sewer Manhole	5/30/23 11:00	South Mulberry Bypass (cso#39)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
74159	Vactor Sewer Manhole	5/30/23 11:00	South mulberry and Cameron (Syphon Basin)	1
74164	Vactor Sewer Manhole	5/30/23 12:30	Cumberland and Cameron (Syphon Line)	1
74223	Vactor Sewer Manhole	5/30/23 14:00	Cameron and Hanover (cso#63)	1
74486	Vactor Sewer Manhole	6/8/23 14:48	East Cameron & Walnut st	1
74488	Vactor Sewer Manhole	6/8/23 14:55	South Cameron & Cumberland st	2
74489	Vactor Sewer Manhole	6/8/23 15:08	Front & Geiger st	1
74841	Vactor Sewer Manhole	6/21/23 14:00	5th and Antione street	1
74913	Vactor Sewer Manhole	6/23/23 12:00	1926 Manada St, Harrisburg, Pennsylvania, 17104	1
68648	Wkly Hotspot Manhole Inspections	1/4/23 10:59		3
68649	Wkly Hotspot Manhole Inspections	1/4/23 11:05		23
68739	Wkly Hotspot Manhole Inspections	1/4/23 11:09	2132 Kensington St.	3
68652	Wkly Hotspot Manhole Inspections	1/4/23 11:14		2
68835	Wkly Hotspot Manhole Inspections	1/6/23 12:22	2132 Kensington St.	4
68905	Wkly Hotspot Manhole Inspections	1/9/23 11:30	2132 Kensington St.	4
68836	Wkly Hotspot Manhole Inspections	1/11/23 0:42		2
68834	Wkly Hotspot Manhole Inspections	1/11/23 10:33		23
68833	Wkly Hotspot Manhole Inspections	1/11/23 12:04		3
68940	Wkly Hotspot Manhole Inspections	1/13/23 9:00	2132 Kensington St.	4
69056	Wkly Hotspot Manhole Inspections	1/17/23 12:10	2132 Kensington St.	4
68996	Wkly Hotspot Manhole Inspections	1/18/23 12:00		3
68992	Wkly Hotspot Manhole Inspections	1/18/23 12:04		23
69025	Wkly Hotspot Manhole Inspections	1/18/23 12:08		2
69090	Wkly Hotspot Manhole Inspections	1/20/23 12:00	2132 Kensington St.	4
69155	Wkly Hotspot Manhole Inspections	1/23/23 12:24	2132 Kensington St.	4
69116	Wkly Hotspot Manhole Inspections	1/24/23 14:00		23
69117	Wkly Hotspot Manhole Inspections	1/24/23 14:33		2
69114	Wkly Hotspot Manhole Inspections	1/24/23 14:36		3
69229	Wkly Hotspot Manhole Inspections	1/27/23 11:00	2132 Kensington St.	4
69268	Wkly Hotspot Manhole Inspections	2/1/23 10:26		3
69297	Wkly Hotspot Manhole Inspections	2/1/23 10:29		23
69332	Wkly Hotspot Manhole Inspections	2/1/23 10:43	2132 Kensington St.	5
69267	Wkly Hotspot Manhole Inspections	2/1/23 12:30		2
69508	Wkly Hotspot Manhole Inspections	2/3/23 11:30	2132 Kensington St.	5
69708	Wkly Hotspot Manhole Inspections	2/6/23 10:15	2132 Kensington St.	5
69737	Wkly Hotspot Manhole Inspections	2/7/23 14:00		2
69504	Wkly Hotspot Manhole Inspections	2/8/23 10:21		3
69505	Wkly Hotspot Manhole Inspections	2/8/23 10:26		23
69935	Wkly Hotspot Manhole Inspections	2/8/23 12:30		3
69810	Wkly Hotspot Manhole Inspections	2/10/23 9:45	2132 Kensington St.	5
69984	Wkly Hotspot Manhole Inspections	2/13/23 11:30	2132 Kensington St.	5
69919	Wkly Hotspot Manhole Inspections	2/14/23 14:15		2
69936	Wkly Hotspot Manhole Inspections	2/15/23 11:58		23
69942	Wkly Hotspot Manhole Inspections	2/15/23 12:01		3
70515	Wkly Hotspot Manhole Inspections	2/17/23 12:00	2132 Kensington St.	5
70640	Wkly Hotspot Manhole Inspections	2/21/23 11:47	2132 Kensington St.	5
70553	Wkly Hotspot Manhole Inspections	2/22/23 11:02		2
70572	Wkly Hotspot Manhole Inspections	2/22/23 11:06		23
70573	Wkly Hotspot Manhole Inspections	2/22/23 11:10		3

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
70692	Wkly Hotspot Manhole Inspections	2/24/23 12:38	2132 Kensington St.	5
70866	Wkly Hotspot Manhole Inspections	2/27/23 12:05	2132 Kensington St.	5
70725	Wkly Hotspot Manhole Inspections	3/1/23 10:09		2
70728	Wkly Hotspot Manhole Inspections	3/1/23 10:15		23
70730	Wkly Hotspot Manhole Inspections	3/1/23 10:18		3
70936	Wkly Hotspot Manhole Inspections	3/3/23 10:54	2132 Kensington St.	5
71065	Wkly Hotspot Manhole Inspections	3/6/23 12:00	2132 Kensington St.	5
70985	Wkly Hotspot Manhole Inspections	3/8/23 10:48		2
70986	Wkly Hotspot Manhole Inspections	3/8/23 10:53		23
70987	Wkly Hotspot Manhole Inspections	3/8/23 10:55		3
71113	Wkly Hotspot Manhole Inspections	3/10/23 12:00	2132 Kensington St.	5
71331	Wkly Hotspot Manhole Inspections	3/13/23 10:48	2132 Kensington St.	5
71223	Wkly Hotspot Manhole Inspections	3/15/23 10:44		23
71224	Wkly Hotspot Manhole Inspections	3/15/23 10:48		3
71222	Wkly Hotspot Manhole Inspections	3/15/23 10:56		2
71394	Wkly Hotspot Manhole Inspections	3/17/23 13:11	2132 Kensington St.	5
71546	Wkly Hotspot Manhole Inspections	3/20/23 12:12	2132 Kensington St.	5
71502	Wkly Hotspot Manhole Inspections	3/22/23 9:31		23
71504	Wkly Hotspot Manhole Inspections	3/22/23 9:37		2
71503	Wkly Hotspot Manhole Inspections	3/22/23 9:42		3
71571	Wkly Hotspot Manhole Inspections	3/24/23 11:05	2132 Kensington St.	5
71666	Wkly Hotspot Manhole Inspections	3/27/23 11:28	2132 Kensington St.	5
71640	Wkly Hotspot Manhole Inspections	3/29/23 11:35		23
71641	Wkly Hotspot Manhole Inspections	3/29/23 11:39		2
71642	Wkly Hotspot Manhole Inspections	3/29/23 11:42		3
71706	Wkly Hotspot Manhole Inspections	3/31/23 12:00	2132 Kensington St.	5
71837	Wkly Hotspot Manhole Inspections	4/3/23 12:30	2132 Kensington St.	5
71749	Wkly Hotspot Manhole Inspections	4/5/23 9:50		23
71750	Wkly Hotspot Manhole Inspections	4/5/23 9:56		2
71751	Wkly Hotspot Manhole Inspections	4/5/23 10:00		3
71867	Wkly Hotspot Manhole Inspections	4/7/23 10:37	2132 Kensington St.	5
72334	Wkly Hotspot Manhole Inspections	4/11/23 13:10	2132 Kensington St.	5
72284	Wkly Hotspot Manhole Inspections	4/12/23 11:07		23
72285	Wkly Hotspot Manhole Inspections	4/12/23 13:00		2
72286	Wkly Hotspot Manhole Inspections	4/12/23 13:00		3
72375	Wkly Hotspot Manhole Inspections	4/14/23 12:30	2132 Kensington St.	5
72474	Wkly Hotspot Manhole Inspections	4/18/23 12:51	2132 Kensington St.	5
72420	Wkly Hotspot Manhole Inspections	4/19/23 12:00		3
72412	Wkly Hotspot Manhole Inspections	4/19/23 12:03		2
72393	Wkly Hotspot Manhole Inspections	4/19/23 12:07		23
72584	Wkly Hotspot Manhole Inspections	4/24/23 12:53	2132 Kensington St.	5
72621	Wkly Hotspot Manhole Inspections	4/26/23 12:06		3
72622	Wkly Hotspot Manhole Inspections	4/26/23 12:11		2
72623	Wkly Hotspot Manhole Inspections	4/26/23 12:15		23
72800	Wkly Hotspot Manhole Inspections	4/28/23 10:30	2132 Kensington St.	5
72949	Wkly Hotspot Manhole Inspections	5/1/23 11:02	2132 Kensington St.	5
72889	Wkly Hotspot Manhole Inspections	5/3/23 10:20		3
72890	Wkly Hotspot Manhole Inspections	5/3/23 10:23		2
72892	Wkly Hotspot Manhole Inspections	5/3/23 10:27		23
72970	Wkly Hotspot Manhole Inspections	5/5/23 11:30	2132 Kensington St.	5
73122	Wkly Hotspot Manhole Inspections	5/8/23 11:30	2132 Kensington St.	5
73044	Wkly Hotspot Manhole Inspections	5/10/23 10:58		3
73045	Wkly Hotspot Manhole Inspections	5/10/23 11:18		2
73047	Wkly Hotspot Manhole Inspections	5/10/23 11:23		23
73187	Wkly Hotspot Manhole Inspections	5/12/23 10:30	2132 Kensington St.	5
73338	Wkly Hotspot Manhole Inspections	5/15/23 11:14	2132 Kensington St.	5
73266	Wkly Hotspot Manhole Inspections	5/17/23 10:41		3

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73274	Wkly Hotspot Manhole Inspections	5/17/23 10:45		2
73275	Wkly Hotspot Manhole Inspections	5/17/23 10:51		23
73413	Wkly Hotspot Manhole Inspections	5/19/23 11:30	2132 Kensington St.	5
73769	Wkly Hotspot Manhole Inspections	5/22/23 10:58	2132 Kensington St.	5
73456	Wkly Hotspot Manhole Inspections	5/24/23 9:59		3
73457	Wkly Hotspot Manhole Inspections	5/24/23 10:04		2
73458	Wkly Hotspot Manhole Inspections	5/24/23 10:10		23
73811	Wkly Hotspot Manhole Inspections	5/26/23 12:35	2132 Kensington St.	5
73983	Wkly Hotspot Manhole Inspections	5/30/23 12:00	2132 Kensington St.	5
73914	Wkly Hotspot Manhole Inspections	5/31/23 12:17		3
73916	Wkly Hotspot Manhole Inspections	5/31/23 12:20		2
73917	Wkly Hotspot Manhole Inspections	5/31/23 12:24		23
74089	Wkly Hotspot Manhole Inspections	6/7/23 12:00		3
74096	Wkly Hotspot Manhole Inspections	6/7/23 12:00		23
74093	Wkly Hotspot Manhole Inspections	6/7/23 14:54		2
74087	Wkly Hotspot Manhole Inspections	6/9/23 12:04	2132 Kensington St.	5
74510	Wkly Hotspot Manhole Inspections	6/12/23 10:15	2132 Kensington St.	5
74443	Wkly Hotspot Manhole Inspections	6/14/23 9:00		2
74456	Wkly Hotspot Manhole Inspections	6/14/23 9:45		23
74421	Wkly Hotspot Manhole Inspections	6/14/23 20:45		3
74579	Wkly Hotspot Manhole Inspections	6/16/23 11:45	2132 Kensington St.	5
74759	Wkly Hotspot Manhole Inspections	6/19/23 8:02	2132 Kensington St.	5
74650	Wkly Hotspot Manhole Inspections	6/21/23 10:00		23
74648	Wkly Hotspot Manhole Inspections	6/21/23 11:42		3
74649	Wkly Hotspot Manhole Inspections	6/21/23 11:46		2
74775	Wkly Hotspot Manhole Inspections	6/23/23 10:00	2132 Kensington St.	5
74902	Wkly Hotspot Manhole Inspections	6/26/23 11:00	2132 Kensington St.	5
74831	Wkly Hotspot Manhole Inspections	6/28/23 8:30		23
74829	Wkly Hotspot Manhole Inspections	6/28/23 9:00		3
74830	Wkly Hotspot Manhole Inspections	6/28/23 9:31		2
74964	Wkly Hotspot Manhole Inspections	6/30/23 9:30	2132 Kensington St.	5

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
STORM				
68942	CCTV Storm Sewer Pipe	1/12/23 7:47	Verbeke @ Broad sr Market	1
68920	CCTV Storm Sewer Pipe	1/12/23 7:58	Verbeke @ Broad st market	1
69209	CCTV Storm Sewer Pipe	1/23/23 7:28	Hoffman st	1
69208	CCTV Storm Sewer Pipe	1/23/23 7:33	6th	1
69207	CCTV Storm Sewer Pipe	1/23/23 7:35	6th	1
69206	CCTV Storm Sewer Pipe	1/23/23 7:40	6th st	1
69205	CCTV Storm Sewer Pipe	1/23/23 7:44	6th st	1
69185	CCTV Storm Sewer Pipe	1/23/23 7:47	Alricks St	1
69186	CCTV Storm Sewer Pipe	1/23/23 7:50	Alricks St	1
69189	CCTV Storm Sewer Pipe	1/23/23 7:54	Alricks St	1
69192	CCTV Storm Sewer Pipe	1/23/23 7:56	Alricks St	1
69200	CCTV Storm Sewer Pipe	1/23/23 8:01	Alricks St	1
69201	CCTV Storm Sewer Pipe	1/23/23 8:08	Kemp to Alricks	1
69059	CCTV Storm Sewer Pipe	1/23/23 8:34	jefferson and oxford	1
69100	CCTV Storm Sewer Pipe	1/23/23 8:38	Jefferson St	1
69101	CCTV Storm Sewer Pipe	1/23/23 8:47	Jefferson st	1
69102	CCTV Storm Sewer Pipe	1/23/23 8:53	Jefferson St	1
69103	CCTV Storm Sewer Pipe	1/23/23 9:11	jefferson and Camp	1
69204	CCTV Storm Sewer Pipe	1/23/23 10:28	Pennwood st	1
69203	CCTV Storm Sewer Pipe	1/23/23 10:31	Pennwood	1
69202	CCTV Storm Sewer Pipe	1/23/23 10:34	Pennwood	1
69199	CCTV Storm Sewer Pipe	1/23/23 10:37	Alricks and 6th	1
69198	CCTV Storm Sewer Pipe	1/23/23 10:41	Alricks R/W	1
69197	CCTV Storm Sewer Pipe	1/23/23 10:44	Alricks St	1
69196	CCTV Storm Sewer Pipe	1/23/23 10:48	Alricks St	1
69195	CCTV Storm Sewer Pipe	1/23/23 10:53	Alricks St	1
69194	CCTV Storm Sewer Pipe	1/23/23 10:56	Pennwood to Alricks	1
69193	CCTV Storm Sewer Pipe	1/23/23 10:59	Aricks St	1
69191	CCTV Storm Sewer Pipe	1/23/23 11:19	Alricks	1
69187	CCTV Storm Sewer Pipe	1/23/23 11:23	Alricks and Joseph	1
69167	CCTV Storm Sewer Pipe	1/23/23 11:27	7th St	1
69165	CCTV Storm Sewer Pipe	1/23/23 11:34	Graham St	1
69162	CCTV Storm Sewer Pipe	1/23/23 11:42	Graham St	1
69157	CCTV Storm Sewer Pipe	1/23/23 11:48	Graham St	1
69156	CCTV Storm Sewer Pipe	1/23/23 11:51	Graham st	1
69152	CCTV Storm Sewer Pipe	1/23/23 12:14	7th St	1
69061	CCTV Storm Sewer Pipe	1/25/23 7:34	Jefferson and oxford	1
69062	CCTV Storm Sewer Pipe	1/25/23 7:37	Jefferson and oxford	1
69107	CCTV Storm Sewer Pipe	1/25/23 8:25	jeffderson and camp	1
69108	CCTV Storm Sewer Pipe	1/25/23 8:33	Jefferson and Camp	1
69151	CCTV Storm Sewer Pipe	1/25/23 8:38	7th and Graham	1
69149	CCTV Storm Sewer Pipe	1/25/23 9:21	7th st	1
69148	CCTV Storm Sewer Pipe	1/25/23 9:24	7th St	1
69145	CCTV Storm Sewer Pipe	1/25/23 9:30	7th st	1
69120	CCTV Storm Sewer Pipe	1/25/23 9:44	Woodland & Marie St	1
69119	CCTV Storm Sewer Pipe	1/25/23 9:48	Woodland and Marie St	1
69115	CCTV Storm Sewer Pipe	1/25/23 10:15	Emerald St	1
69111	CCTV Storm Sewer Pipe	1/25/23 10:28	Curtain St	1
69110	CCTV Storm Sewer Pipe	1/25/23 10:32	Curtain St	1
68592	CCTV Storm Sewer Pipe	1/26/23 10:05	18th and sycamore	1
67719	CCTV Storm Sewer Pipe	1/26/23 12:19	JEFFERSON ST	1
67715	CCTV Storm Sewer Pipe	1/26/23 12:28	Jefferson and Columbia	1
65576	CCTV Storm Sewer Pipe	1/26/23 13:37	5th and Muench	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
69351	CCTV Storm Sewer Pipe	1/31/23 9:23	Hoffman st	1
69423	CCTV Storm Sewer Pipe	1/31/23 10:12	Vaughn st	1
69345	CCTV Storm Sewer Pipe	1/31/23 12:00	6th to Hoffman	1
69325	CCTV Storm Sewer Pipe	1/31/23 12:00	Jefferson st	1
69367	CCTV Storm Sewer Pipe	1/31/23 12:00	5th st	1
69322	CCTV Storm Sewer Pipe	1/31/23 12:00	Jefferson st	1
69346	CCTV Storm Sewer Pipe	1/31/23 12:00	Hoffman st	1
69327	CCTV Storm Sewer Pipe	1/31/23 12:00	Jefferson st	1
69374	CCTV Storm Sewer Pipe	1/31/23 12:00	Alricks st	1
69323	CCTV Storm Sewer Pipe	1/31/23 12:00	Jefferson st	1
69347	CCTV Storm Sewer Pipe	1/31/23 12:00	Hoffman st	1
69350	CCTV Storm Sewer Pipe	1/31/23 12:00	Hoffman st	1
69344	CCTV Storm Sewer Pipe	1/31/23 12:00	Hoffman and 6th	1
69355	CCTV Storm Sewer Pipe	1/31/23 12:00	Hoffman st	1
69363	CCTV Storm Sewer Pipe	1/31/23 12:00	Jefferson st	1
69377	CCTV Storm Sewer Pipe	1/31/23 12:00	Vaughn	1
69426	CCTV Storm Sewer Pipe	1/31/23 12:00	4th & Lewis	1
69371	CCTV Storm Sewer Pipe	1/31/23 12:00	5th st	1
69364	CCTV Storm Sewer Pipe	1/31/23 12:00	jefferson st	1
69382	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd and Lewis	1
69324	CCTV Storm Sewer Pipe	1/31/23 12:00	Jefferson st	1
69372	CCTV Storm Sewer Pipe	1/31/23 12:00	5th	1
69365	CCTV Storm Sewer Pipe	1/31/23 12:00	5th st	1
69384	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd st	1
69326	CCTV Storm Sewer Pipe	1/31/23 12:00	Jefferson st	1
69373	CCTV Storm Sewer Pipe	1/31/23 12:00	5th st	1
69378	CCTV Storm Sewer Pipe	1/31/23 12:00	Vaughn st	1
69425	CCTV Storm Sewer Pipe	1/31/23 12:00	4th and Lewis	1
69383	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd and Lewis	1
69386	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd	1
69379	CCTV Storm Sewer Pipe	1/31/23 12:00	Vaughn st	1
69427	CCTV Storm Sewer Pipe	1/31/23 12:00	4th and Lewis	1
69385	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd st	1
69387	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd st	1
69380	CCTV Storm Sewer Pipe	1/31/23 12:00	Vaughn st	1
69393	CCTV Storm Sewer Pipe	1/31/23 12:00	4th st	1
69392	CCTV Storm Sewer Pipe	1/31/23 12:00	4th st	1
69388	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd st	1
69381	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd st	1
69359	CCTV Storm Sewer Pipe	1/31/23 12:00	Hoffman & angenese	1
69394	CCTV Storm Sewer Pipe	1/31/23 12:00	4th st	1
69389	CCTV Storm Sewer Pipe	1/31/23 12:00	3rd	1
69395	CCTV Storm Sewer Pipe	1/31/23 12:00	4th st	1
69366	CCTV Storm Sewer Pipe	1/31/23 12:00	5th st	1
69399	CCTV Storm Sewer Pipe	1/31/23 12:00	Lewis st	1
69390	CCTV Storm Sewer Pipe	1/31/23 12:00	4th st	1
69396	CCTV Storm Sewer Pipe	1/31/23 12:00	4th st	1
69397	CCTV Storm Sewer Pipe	1/31/23 12:00	4th st	1
69398	CCTV Storm Sewer Pipe	1/31/23 12:00	Lewis st	1
69334	CCTV Storm Sewer Pipe	2/1/23 12:00	Woodland st	1
69333	CCTV Storm Sewer Pipe	2/1/23 12:00	Woodland st	1
69335	CCTV Storm Sewer Pipe	2/1/23 12:00	Marie st	1
70490	CCTV Storm Sewer Pipe	2/17/23 7:39	Forester st	1
70489	CCTV Storm Sewer Pipe	2/17/23 7:42	Forester st	1
70488	CCTV Storm Sewer Pipe	2/17/23 8:06	Forester st	1
70487	CCTV Storm Sewer Pipe	2/17/23 8:08	Forester st	1
70485	CCTV Storm Sewer Pipe	2/17/23 9:01	Forester st	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
70484	CCTV Storm Sewer Pipe	2/17/23 9:07	Forester st	1
70483	CCTV Storm Sewer Pipe	2/17/23 9:11	Forester st	1
70482	CCTV Storm Sewer Pipe	2/17/23 10:00	Forester st	1
70477	CCTV Storm Sewer Pipe	2/17/23 10:06	Forster st	1
70476	CCTV Storm Sewer Pipe	2/17/23 10:18	Forester st	1
69901	CCTV Storm Sewer Pipe	2/17/23 11:11	Verbeke	1
69747	CCTV Storm Sewer Pipe	2/22/23 12:47	Cameron and Walnut	1
69748	CCTV Storm Sewer Pipe	2/22/23 12:50	Cameron st	1
69749	CCTV Storm Sewer Pipe	2/22/23 12:59	Cameron st	1
69750	CCTV Storm Sewer Pipe	2/22/23 13:03	Cameron st	1
69751	CCTV Storm Sewer Pipe	2/22/23 13:10	Walnut st	1
69752	CCTV Storm Sewer Pipe	2/22/23 13:15	Walnut st	1
69753	CCTV Storm Sewer Pipe	2/22/23 13:18	Walnut st	1
69755	CCTV Storm Sewer Pipe	2/22/23 13:22	Walnut st	1
69757	CCTV Storm Sewer Pipe	2/22/23 13:26	Walnut to Cameron st	1
69758	CCTV Storm Sewer Pipe	2/22/23 13:43	Cameron st	1
69759	CCTV Storm Sewer Pipe	2/22/23 13:46	Market st	1
69760	CCTV Storm Sewer Pipe	2/22/23 14:00	Market st	1
69761	CCTV Storm Sewer Pipe	2/22/23 14:10	Market st	1
69762	CCTV Storm Sewer Pipe	2/22/23 14:13	Market st	1
69763	CCTV Storm Sewer Pipe	2/22/23 14:15	Market st	1
69764	CCTV Storm Sewer Pipe	2/22/23 14:33	Market st	1
			3rd st towards Italian	
69791	CCTV Storm Sewer Pipe	2/27/23 12:00	lake	1
69769	CCTV Storm Sewer Pipe	2/27/23 12:00	Market st	1
69795	CCTV Storm Sewer Pipe	2/27/23 12:00	Green and Parkside Ln	1
70784	CCTV Storm Sewer Pipe	2/27/23 12:00	Schuykill st	1
70543	CCTV Storm Sewer Pipe	2/27/23 12:00	14th St	1
70665	CCTV Storm Sewer Pipe	2/27/23 12:00	Forester st	1
70772	CCTV Storm Sewer Pipe	2/27/23 12:00	Division st	1
70658	CCTV Storm Sewer Pipe	2/27/23 12:00	Forester st	1
69176	CCTV Storm Sewer Pipe	2/28/23 12:00	Rumson & Wilson	1
70652	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70666	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70659	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70535	CCTV Storm Sewer Pipe	2/28/23 12:00	14th St	1
70654	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70667	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70657	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70537	CCTV Storm Sewer Pipe	2/28/23 12:00	14th St	1
70656	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70668	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70474	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70544	CCTV Storm Sewer Pipe	2/28/23 12:00	14th St	1
70663	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70765	CCTV Storm Sewer Pipe	2/28/23 12:00	Front and division	1
70475	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70480	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70670	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
70548	CCTV Storm Sewer Pipe	2/28/23 12:00	15th st	1
70793	CCTV Storm Sewer Pipe	2/28/23 12:00	Schuykill st	1
70771	CCTV Storm Sewer Pipe	2/28/23 12:00	Division st	1
70770	CCTV Storm Sewer Pipe	2/28/23 12:00	Division st	1
70533	CCTV Storm Sewer Pipe	2/28/23 12:00	14th St	1
69907	CCTV Storm Sewer Pipe	2/28/23 12:00	Broad st market	1
70778	CCTV Storm Sewer Pipe	2/28/23 12:00	Division st	1
70479	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
70799	CCTV Storm Sewer Pipe	2/28/23 12:00	Emerald st	1
70538	CCTV Storm Sewer Pipe	2/28/23 12:00	14th St	1
70789	CCTV Storm Sewer Pipe	2/28/23 12:00	Schuykill st	1
70545	CCTV Storm Sewer Pipe	2/28/23 12:00	14th st	1
70801	CCTV Storm Sewer Pipe	2/28/23 12:00	Emerald st	1
69352	CCTV Storm Sewer Pipe	2/28/23 12:00	Hoffman and Edward	1
70653	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
69357	CCTV Storm Sewer Pipe	2/28/23 12:00	Hoffman st	1
70802	CCTV Storm Sewer Pipe	2/28/23 12:00	Emerlad st	1
			Rumson dr. & Wilson	
69175	CCTV Storm Sewer Pipe	2/28/23 12:00	Parkway	1
70655	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
69182	CCTV Storm Sewer Pipe	2/28/23 12:00	Rumson & Meadowlark	1
70850	CCTV Storm Sewer Pipe	2/28/23 12:00	5th st	1
41567	CCTV Storm Sewer Pipe	2/28/23 12:00	front and Mary	1
70662	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
69361	CCTV Storm Sewer Pipe	2/28/23 12:00	hoffman & angenese	1
70664	CCTV Storm Sewer Pipe	2/28/23 12:00	Forester st	1
69362	CCTV Storm Sewer Pipe	2/28/23 12:00	Kemp Alley	1
70798	CCTV Storm Sewer Pipe	2/28/23 12:00	Emerald st	1
69178	CCTV Storm Sewer Pipe	2/28/23 12:00	Rumson & Wilson	1
70805	CCTV Storm Sewer Pipe	2/28/23 12:00	Emerald st	1
69179	CCTV Storm Sewer Pipe	2/28/23 12:00	Rumson & Meadowlark	1
69180	CCTV Storm Sewer Pipe	2/28/23 12:00	rumson & meadowlark	1
41566	CCTV Storm Sewer Pipe	2/28/23 12:53	Front and Mary	1
70530	CCTV Storm Sewer Pipe	2/28/23 14:00	14th St	1
71079	CCTV Storm Sewer Pipe	3/8/23 13:04	State st	1
71075	CCTV Storm Sewer Pipe	3/8/23 13:28	25th st	1
71074	CCTV Storm Sewer Pipe	3/8/23 13:44	25th st	1
71073	CCTV Storm Sewer Pipe	3/8/23 13:48	25th st	1
70901	CCTV Storm Sewer Pipe	3/8/23 14:08	2nd st	1
70852	CCTV Storm Sewer Pipe	3/8/23 14:20	Radnor st	1
70883	CCTV Storm Sewer Pipe	3/10/23 7:33	Commonwealth ave	1
70884	CCTV Storm Sewer Pipe	3/10/23 7:39	Commonwealth ave	1
70886	CCTV Storm Sewer Pipe	3/10/23 8:28	Commonwealth ave	1
70888	CCTV Storm Sewer Pipe	3/10/23 8:33	Commonwealth ave	1
70889	CCTV Storm Sewer Pipe	3/10/23 9:12	North	1
70890	CCTV Storm Sewer Pipe	3/10/23 9:15	Commonwealth ave	1
70891	CCTV Storm Sewer Pipe	3/10/23 9:46	Commonwealth ave	1
70851	CCTV Storm Sewer Pipe	3/10/23 10:42	5th st	1
70893	CCTV Storm Sewer Pipe	3/10/23 10:44	North dr	1
70894	CCTV Storm Sewer Pipe	3/10/23 10:53	Commonwealth ave	1
70895	CCTV Storm Sewer Pipe	3/10/23 13:01	Commonwealth ave	1
70486	CCTV Storm Sewer Pipe	3/10/23 13:56	Forester st	1
70896	CCTV Storm Sewer Pipe	3/14/23 8:08	Commonwealth ave	1
65573	CCTV Storm Sewer Pipe	3/14/23 13:34	Muench and 5th	1
71556	CCTV Storm Sewer Pipe	3/24/23 8:02	2nd st	1
71495	CCTV Storm Sewer Pipe	3/24/23 12:28	Ellerslie rd	1
71596	CCTV Storm Sewer Pipe	3/24/23 14:05	BROOKWOD ST	1
71602	CCTV Storm Sewer Pipe	3/24/23 14:10	BROOKWOOD ST	1
71290	CCTV Storm Sewer Pipe	3/31/23 13:23	SPENCER ST	1
71604	CCTV Storm Sewer Pipe	3/31/23 13:31	BROOKWOOD ST	1
71607	CCTV Storm Sewer Pipe	3/31/23 13:54	BROOKWOOD ST	1
71499	CCTV Storm Sewer Pipe	4/5/23 8:11	20th st	1
71500	CCTV Storm Sewer Pipe	4/5/23 8:19	20th st	1
71612	CCTV Storm Sewer Pipe	4/5/23 11:30	BROOKWOOD ST	1
72923	CCTV Storm Sewer Pipe	4/28/23 9:15	Green st	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
72394	CCTV Storm Sewer Pipe	4/28/23 9:21	catherine st	1
72395	CCTV Storm Sewer Pipe	4/28/23 9:41	16TH	1
72396	CCTV Storm Sewer Pipe	4/28/23 10:18	S 16TH	1
72399	CCTV Storm Sewer Pipe	4/28/23 10:25	CATHERINE ST	1
72400	CCTV Storm Sewer Pipe	4/28/23 10:27	CATHERINE ST	1
72444	CCTV Storm Sewer Pipe	4/28/23 10:49	HARRIS ST	1
72446	CCTV Storm Sewer Pipe	4/28/23 10:53	HARRIS ST	1
72447	CCTV Storm Sewer Pipe	4/28/23 11:00	GREEN AND HARRIS ST	1
72450	CCTV Storm Sewer Pipe	4/28/23 11:16	HARRIS & SUSQUEHANNA ST	1
72454	CCTV Storm Sewer Pipe	4/28/23 12:17	GREEN & SUSQUEHANNA ST	1
72458	CCTV Storm Sewer Pipe	4/28/23 12:23	SUSQUEHANNA & CLINTON ST	1
72460	CCTV Storm Sewer Pipe	4/28/23 12:53	SUSQUEHANNA & CLINTON ST	1
72516	CCTV Storm Sewer Pipe	4/30/23 11:52	4TH ST	1
72462	CCTV Storm Sewer Pipe	4/30/23 12:00	GREEN & CLINTON ST	1
72520	CCTV Storm Sewer Pipe	4/30/23 12:00	WYETH ST	1
72517	CCTV Storm Sewer Pipe	4/30/23 12:00	4TH ST	1
72568	CCTV Storm Sewer Pipe	4/30/23 12:00	GEIGER ST	1
72464	CCTV Storm Sewer Pipe	4/30/23 12:00	GREEN * CLINTON ST	1
72521	CCTV Storm Sewer Pipe	4/30/23 12:00	WYETH ST	1
72365	CCTV Storm Sewer Pipe	4/30/23 12:00	10TH ST	1
72491	CCTV Storm Sewer Pipe	4/30/23 12:00	13th and sycamore	1
72496	CCTV Storm Sewer Pipe	4/30/23 12:00	2nd st	1
72488	CCTV Storm Sewer Pipe	4/30/23 12:00	13th and sycamore	1
72367	CCTV Storm Sewer Pipe	4/30/23 12:00	10TH ST	1
72511	CCTV Storm Sewer Pipe	4/30/23 12:00	4th st	1
72498	CCTV Storm Sewer Pipe	4/30/23 12:00	2nd st	1
72489	CCTV Storm Sewer Pipe	4/30/23 12:00	13th and sycamore	1
72567	CCTV Storm Sewer Pipe	4/30/23 12:00	Geiger St	1
72920	CCTV Storm Sewer Pipe	4/30/23 12:00	Green st	1
72512	CCTV Storm Sewer Pipe	4/30/23 12:00	4TH ST	1
72921	CCTV Storm Sewer Pipe	4/30/23 12:00	Green	1
72919	CCTV Storm Sewer Pipe	4/30/23 12:00	Green st	1
72513	CCTV Storm Sewer Pipe	4/30/23 12:00	4TH ST	1
72562	CCTV Storm Sewer Pipe	4/30/23 12:00	Reily St	1
72565	CCTV Storm Sewer Pipe	4/30/23 12:00	Reily St	1
72913	CCTV Storm Sewer Pipe	4/30/23 12:00	Green	1
72914	CCTV Storm Sewer Pipe	4/30/23 12:00	Green st	1
72915	CCTV Storm Sewer Pipe	4/30/23 12:00	Green st	1
72916	CCTV Storm Sewer Pipe	4/30/23 12:00	Green st	1
73145	CCTV Storm Sewer Pipe	5/7/23 10:40	2nd st	1
73142	CCTV Storm Sewer Pipe	5/7/23 12:30	2nd st	1
73144	CCTV Storm Sewer Pipe	5/7/23 22:33	2nd st	1
73341	CCTV Storm Sewer Pipe	5/14/23 9:35	Walnut st	1
73800	CCTV Storm Sewer Pipe	5/22/23 22:40	Ruby St	1
73135	CCTV Storm Sewer Pipe	5/26/23 8:16	2nd st	1
73136	CCTV Storm Sewer Pipe	5/26/23 8:19	2nd st	1
73137	CCTV Storm Sewer Pipe	5/26/23 8:33	2nd st	1
73138	CCTV Storm Sewer Pipe	5/26/23 8:34	2nd st	1
73140	CCTV Storm Sewer Pipe	5/26/23 8:39	2nd st	1
73953	CCTV Storm Sewer Pipe	5/26/23 8:45	Berryhill St	1
73952	CCTV Storm Sewer Pipe	5/26/23 8:48	Berryhill St	1
73951	CCTV Storm Sewer Pipe	5/26/23 8:59	Beeryhill St	1
73949	CCTV Storm Sewer Pipe	5/26/23 9:45	Berryhill	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
73933	CCTV Storm Sewer Pipe	5/26/23 9:57	Bob st	1
73930	CCTV Storm Sewer Pipe	5/26/23 10:14	Berryhill	1
73929	CCTV Storm Sewer Pipe	5/26/23 10:24	Bob alley	1
73931	CCTV Storm Sewer Pipe	5/26/23 11:06	Bob alley	1
73928	CCTV Storm Sewer Pipe	5/26/23 11:10	Bob Alley	1
73932	CCTV Storm Sewer Pipe	5/26/23 12:48	Central alley	1
73926	CCTV Storm Sewer Pipe	5/26/23 12:57	24th St	1
73924	CCTV Storm Sewer Pipe	5/26/23 13:40	24th st	1
73923	CCTV Storm Sewer Pipe	5/26/23 13:44	24th st	1
73922	CCTV Storm Sewer Pipe	5/26/23 14:03	24th st	1
73921	CCTV Storm Sewer Pipe	5/26/23 14:07	Central alley	1
73919	CCTV Storm Sewer Pipe	5/26/23 14:10	24th St	1
73890	CCTV Storm Sewer Pipe	5/26/23 14:14	McCleaster St	1
73889	CCTV Storm Sewer Pipe	5/26/23 14:30	McCleaster St	1
74000	CCTV Storm Sewer Pipe	5/27/23 20:45	Mercer (rear)	1
74009	CCTV Storm Sewer Pipe	5/27/23 22:15	Mercer (rear)	1
74008	CCTV Storm Sewer Pipe	5/28/23 9:20	Mercer (rear)	1
72901	CCTV Storm Sewer Pipe	5/29/23 12:00	Verbeke st	1
73956	CCTV Storm Sewer Pipe	5/29/23 12:00	Mercer st (rear)	1
73419	CCTV Storm Sewer Pipe	5/29/23 12:00	15th St	1
74007	CCTV Storm Sewer Pipe	5/29/23 12:00	Mercer (rear)	1
73420	CCTV Storm Sewer Pipe	5/29/23 12:00	15th St	1
73790	CCTV Storm Sewer Pipe	5/29/23 12:00	Kensington St	2
73887	CCTV Storm Sewer Pipe	5/30/23 8:01	McCleaster St	1
73882	CCTV Storm Sewer Pipe	5/30/23 8:24	24th St	1
73934	CCTV Storm Sewer Pipe	5/30/23 8:42	22nd St	1
73870	CCTV Storm Sewer Pipe	5/30/23 8:52	McCleaster St	1
73868	CCTV Storm Sewer Pipe	5/30/23 9:01	McCleaster St	1
73867	CCTV Storm Sewer Pipe	5/30/23 9:12	McCleaster St	1
73864	CCTV Storm Sewer Pipe	5/30/23 9:49	Mc Cleaster St	1
73861	CCTV Storm Sewer Pipe	5/30/23 9:55	McCleaster St	1
74005	CCTV Storm Sewer Pipe	5/30/23 11:07	25th st	1
73325	CCTV Storm Sewer Pipe	5/30/23 11:51	Berryhill St	1
72910	CCTV Storm Sewer Pipe	5/30/23 12:00	Penn st	1
73327	CCTV Storm Sewer Pipe	5/30/23 12:00	Berryhill St	1
73324	CCTV Storm Sewer Pipe	5/30/23 12:00	18th St	1
72900	CCTV Storm Sewer Pipe	5/30/23 12:00	Verbeke st	1
73155	CCTV Storm Sewer Pipe	5/30/23 12:00	4th st	1
72902	CCTV Storm Sewer Pipe	5/30/23 12:00	2nd st	1
74010	CCTV Storm Sewer Pipe	5/30/23 12:00	Mercer (rear)	1
72904	CCTV Storm Sewer Pipe	5/30/23 12:00	2nd st	1
73157	CCTV Storm Sewer Pipe	5/30/23 12:15	4th st	1
73857	CCTV Storm Sewer Pipe	5/30/23 12:48	McCleaster St	1
73805	CCTV Storm Sewer Pipe	5/30/23 14:06	Kensington St	1
73793	CCTV Storm Sewer Pipe	5/31/23 12:00	Kensington St	1
74011	CCTV Storm Sewer Pipe	6/1/23 13:46	Mercer (rear)	1
73158	CCTV Storm Sewer Pipe	6/2/23 12:09	4th st	1
73796	CCTV Storm Sewer Pipe	6/2/23 22:30	Kensington St	1
74271	CCTV Storm Sewer Pipe	6/4/23 8:35	South st	1
74276	CCTV Storm Sewer Pipe	6/4/23 10:45	Fulton st	1
74285	CCTV Storm Sewer Pipe	6/13/23 9:31	15th st	1
74935	CCTV Storm Sewer Pipe	6/27/23 12:22	18th st	1
74190	Clean Storm Pipe	5/26/23 12:00	2444 Mercer Rear	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73051	Flood Inlet	4/11/23 12:00	417 Vaughn St, Harrisburg, Pennsylvania, 17110	1
72951	Flood Inlet	5/11/23 12:00	546 S 16th St, Harrisburg, Pennsylvania, 17104	6
69027	Flush Storm Pipe	1/12/23 12:00	Verbeke @ Broad st market	1
69226	Flush Storm Pipe	1/23/23 12:00	Graham St	1
69228	Flush Storm Pipe	1/23/23 12:00	7th St	1
69278	Flush Storm Pipe	1/25/23 12:00	7th st	1
69494	Flush Storm Pipe	1/31/23 12:00	Hoffman st	1
69495	Flush Storm Pipe	1/31/23 12:00	Hoffman st	1
70973	Flush Storm Pipe	2/12/23 12:00	Market St	1
71838	Flush Storm Pipe	3/31/23 13:23	SPENCER ST	1
72500	Flush Storm Pipe	4/16/23 12:00	2nd st	1
73146	Flush Storm Pipe	5/7/23 12:00	2nd st	1
74757	Grounds Maintenance	6/16/23 12:30	N Cameron St & Calder St, Harrisburg, Pennsylvania, 17103	1
70557	Inspect Inlet	2/15/23 12:00	546 S 16th St, Harrisburg, Pennsylvania, 17104	5
68858	Lagoon Hauling Operations	1/6/23 8:41		1
68860	Lagoon Hauling Operations	1/6/23 8:44		1
68862	Lagoon Hauling Operations	1/6/23 12:00		1
68863	Lagoon Hauling Operations	1/6/23 12:00		1
69417	Lagoon Hauling Operations	1/31/23 10:15		1
69418	Lagoon Hauling Operations	1/31/23 10:18		1
69419	Lagoon Hauling Operations	1/31/23 12:00		1
69420	Lagoon Hauling Operations	1/31/23 12:00		1
69930	Lagoon Hauling Operations	2/9/23 9:31		1
69931	Lagoon Hauling Operations	2/9/23 9:34		1
69934	Lagoon Hauling Operations	2/9/23 12:00		1
69933	Lagoon Hauling Operations	2/9/23 12:00		1
71102	Lagoon Hauling Operations	3/8/23 11:56		1
71103	Lagoon Hauling Operations	3/8/23 12:07		1
71104	Lagoon Hauling Operations	3/8/23 12:10		1
71105	Lagoon Hauling Operations	3/8/23 12:12		1
71737	Lagoon Hauling Operations	3/30/23 12:00		1
71738	Lagoon Hauling Operations	3/30/23 12:00		1
72628	Lagoon Hauling Operations	4/21/23 7:51		1
72629	Lagoon Hauling Operations	4/21/23 11:03		1
72822	Lagoon Hauling Operations	4/26/23 7:46		1
72823	Lagoon Hauling Operations	4/26/23 7:47		1
72820	Lagoon Hauling Operations	4/26/23 12:01		1
72821	Lagoon Hauling Operations	4/26/23 12:03		1
73849	Lagoon Hauling Operations	5/24/23 8:42		1
73850	Lagoon Hauling Operations	5/24/23 8:44		1
73851	Lagoon Hauling Operations	5/24/23 12:00		1
73852	Lagoon Hauling Operations	5/24/23 12:00		1
73854	Lagoon Hauling Operations	5/24/23 18:11		1
73855	Lagoon Hauling Operations	5/24/23 18:13		1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
74366	Lagoon Hauling Operations	6/7/23 9:03		1
74368	Lagoon Hauling Operations	6/7/23 9:06		1
74369	Lagoon Hauling Operations	6/7/23 12:00		1
74370	Lagoon Hauling Operations	6/7/23 12:00		1
68796	Lagoon Maintenance - St Sweeping	1/3/23 12:48		1
69018	Lagoon Maintenance - St Sweeping	1/11/23 14:37		1
70649	Lagoon Maintenance - St Sweeping	2/17/23 12:00		1
70797	Lagoon Maintenance - St Sweeping	2/23/23 11:00		1
71892	Lagoon Maintenance - St Sweeping	4/3/23 12:00		1
71903	Lagoon Maintenance - St Sweeping	4/4/23 9:33		1
57173	Plate Inlet	6/22/23 8:12	Harris Terrace & Hale Ave	1
63956	Raise Inlet to Grade	1/18/23 12:00	Bulton and brookwood Penn St & Basin St, Harrisburg,	1
72885	Raise Inlet to Grade	6/2/23 13:29	Pennsylvania, 17102	1
71376	Raise/Lower Storm Manhole	3/12/23 12:00	Forster St, Harrisburg, Dauphin County, Pennsylvania, 17102, USA	1
71466	Raise/Lower Storm Manhole	3/12/23 12:00	Forster St, Harrisburg, Dauphin County, Pennsylvania, 17102, USA	1
73342	Raise/Lower Storm Manhole	5/14/23 12:00	Walnut st	1
73883	Raise/Lower Storm Manhole	5/23/23 12:00	24th St	1
68953	Repair Storm Inlet	1/7/23 12:00	3101 N 7th St, Harrisburg, Pennsylvania, 17110	1
69011	Repair Storm Inlet	1/11/23 14:27	1242 Hunter St, Harrisburg, Dauphin County, Pennsylvania, 17104, USA	1
69013	Repair Storm Inlet	1/11/23 14:33	1236 Hunter St, Harrisburg, Dauphin County, Pennsylvania, 17104, USA	1
69094	Repair Storm Inlet	1/17/23 14:22	N 19th St & Market St, Harrisburg, Pennsylvania, 17103	1
69121	Repair Storm Inlet	1/18/23 12:00	23rd and brookwood	1
69660	Repair Storm Inlet	2/1/23 12:00	1925 State St, Harrisburg, Dauphin County, Pennsylvania, 17103, 1642, USA	1
69656	Repair Storm Inlet	2/2/23 12:00	230 Woodbine St, Harrisburg, Dauphin County, Pennsylvania, 17110, 1055, USA	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
69658	Repair Storm Inlet	2/3/23 12:00	1600 Naudain St, Harrisburg, Dauphin County, Pennsylvania, 17104, 2256, USA	1
69657	Repair Storm Inlet	2/3/23 12:00	523 S 16th St, Harrisburg, Dauphin County, Pennsylvania, 17104, 2216, USA	1
69772	Repair Storm Inlet	2/3/23 12:00	Whitehall and Taylor Blvd	1
69655	Repair Storm Inlet	2/3/23 13:32	231 Woodbine St, Harrisburg, Dauphin County, Pennsylvania, 17110, USA	1
69659	Repair Storm Inlet	2/3/23 13:40	476 Linn St, Harrisburg, Dauphin County, Pennsylvania, 17103, USA	1
69816	Repair Storm Inlet	2/6/23 11:26	Hummel and Hunter street	1
69818	Repair Storm Inlet	2/6/23 11:32	Hummel st and Hunter st.	1
69839	Repair Storm Inlet	2/6/23 14:13	18th street and Revere street	1
69844	Repair Storm Inlet	2/6/23 14:55	Boas street and Poplar St, Harrisburg, Pennsylvania, 17103	1
69918	Repair Storm Inlet	2/7/23 12:00	S 13th St & Hanover St, Harrisburg, Pennsylvania, 17104	1
69969	Repair Storm Inlet	2/7/23 12:00	1502 Bombaugh St, Harrisburg, Dauphin County, Pennsylvania, 17103, USA	1
69917	Repair Storm Inlet	2/7/23 14:18	Jefferson and Curtain	1
69920	Repair Storm Inlet	2/7/23 14:19	16th and North	1
69966	Repair Storm Inlet	2/8/23 12:00	3031 N 3rd St, Harrisburg, Dauphin County, Pennsylvania, 17110, 2103, USA	1
69951	Repair Storm Inlet	2/9/23 6:54	12th and Hanover	1
63640	Repair Storm Inlet	2/9/23 12:00	Susquehanna St & Unior	1
69975	Repair Storm Inlet	2/10/23 6:49	Kemp ally and Alrick st	1
70467	Repair Storm Inlet	2/10/23 12:00	Greenwood & Dunkle St.	1
63692	Repair Storm Inlet	2/10/23 14:57	Susquehanna and Cumberland	1
70497	Repair Storm Inlet	2/13/23 12:00	1925 Greenwood St, Harrisburg, Dauphin County, Pennsylvania, 17104, 2342, USA	1
70499	Repair Storm Inlet	2/13/23 12:00	642 S 20th St, Harrisburg, Dauphin County, Pennsylvania, 17104, USA	1
70521	Repair Storm Inlet	2/13/23 14:42	Woodland st and Jefferson st	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
70562	Repair Storm Inlet	2/15/23 8:45	26th and woodlawn Cumberland and	1
63693	Repair Storm Inlet	2/21/23 12:00	Susquehanna St	1
70696	Repair Storm Inlet	2/21/23 12:00	Dunkle St & Greenwood	1
70739	Repair Storm Inlet	2/22/23 12:49	397 hale street	1
70743	Repair Storm Inlet	2/22/23 13:20	Poplar St & Forster St, Harrisburg, Pennsylvania, 17103	1
70697	Repair Storm Inlet	2/23/23 12:00	2nd and Vine. S 2nd St & Vine St, Harrisburg,	1
70775	Repair Storm Inlet	2/23/23 14:10	Pennsylvania, 17104	1
70777	Repair Storm Inlet	2/23/23 14:18	S 18th St & Mulberry St, Harrisburg, Pennsylvania, 17104	1
70931	Repair Storm Inlet	2/27/23 12:03	S 2nd St & Vine St, Harrisburg, Pennsylvania, 17104	1
71083	Repair Storm Inlet	3/3/23 12:00	2415 McCleaster St, Harrisburg, Dauphin County, Pennsylvania, 17104, USA	1
70706	Repair Storm Inlet	3/5/23 12:00	S 18th St & Zarker St, Ha 421 Hummel St, Harrisburg,	1
68989	Repair Storm Inlet	3/9/23 12:00	Pennsylvania, 17104	1
70704	Repair Storm Inlet	3/9/23 12:00	18th and Mulberry street	1
71106	Repair Storm Inlet	3/9/23 12:00	S 18th St & Zarker St, Harrisburg, Pennsylvania, 17104	1
71479	Repair Storm Inlet	3/14/23 10:49	Pigeon St & Hanover St, Harrisburg, Pennsylvania, 17104	1
71107	Repair Storm Inlet	3/14/23 12:00	S 18th St & Market St, Harrisburg, Pennsylvania, 17104	1
63775	Repair Storm Inlet	3/14/23 12:00	Greenwood Street and Dunkle Street	1
69950	Repair Storm Inlet	3/14/23 12:00	S 13th St & Hanover St, Harrisburg, Pennsylvania, 17104	1
70941	Repair Storm Inlet	3/14/23 12:00	2415 McCleaster St, Harrisburg, Dauphin County, Pennsylvania, 17104, USA	1
58419	Repair Storm Inlet	3/14/23 12:00	20th and Darlington Ally	1
70675	Repair Storm Inlet	3/14/23 12:00	S 2nd St & Vine St, Harrisburg, Pennsylvania, 17104	1
61793	Repair Storm Inlet	3/14/23 12:00	5th and Dauphin 19th st and Kensington	1
50731	Repair Storm Inlet	3/14/23 12:00	st 18th and Mulberry	1
57900	Repair Storm Inlet	3/14/23 12:00	street.	1
71524	Repair Storm Inlet	3/16/23 13:58	Camp and Jefferson	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
46869	Repair Storm Inlet	3/20/23 12:00	Front street and Lewis Street	1
71589	Repair Storm Inlet	3/21/23 12:00	N 5th St & Muench St, Harrisburg, Pennsylvania, 17102	1
71628	Repair Storm Inlet	3/21/23 14:09	S 14th St & Hunter St, Harrisburg, Pennsylvania, 17104	1
71684	Repair Storm Inlet	3/26/23 12:00	286 Union St, Harrisburg, Dauphin County, Pennsylvania, 17102, USA	1
71769	Repair Storm Inlet	3/28/23 12:00	Greenwood and Dunkle 14th street between chestnut and howard street	1
61786	Repair Storm Inlet	3/29/23 12:00	South 22nd and Kensington Street	1
68982	Repair Storm Inlet	3/30/23 12:00	731 S 26th St, Harrisburg, Dauphin County, Pennsylvania, 17111, 1112, USA	1
70626	Repair Storm Inlet	3/30/23 12:00	N Front St & Pine St, Harrisburg, Pennsylvania, 17101	1
50948	Repair Storm Inlet	3/30/23 12:00	2439 Kensington St, Harrisburg, Dauphin County, Pennsylvania, 17104, 2018, USA	1
70465	Repair Storm Inlet	4/2/23 10:22	Jefferson and woodlawn	1
68524	Repair Storm Inlet	4/3/23 12:00	N 4th St & Muench St, Harrisburg, Pennsylvania, 17102	1
71824	Repair Storm Inlet	4/5/23 12:00	Greena and Cumberlandst	1
72502	Repair Storm Inlet	4/16/23 12:00	1201 Green St, Harrisburg, Dauphin County, Pennsylvania, 17102, 2714, USA	1
72633	Repair Storm Inlet	4/20/23 12:00	10th St, New Cumberland, Pennsylvania, 17070	1
70590	Repair Storm Inlet	4/27/23 12:00	223 Clinton St, Harrisburg, Dauphin County, Pennsylvania, 17102, USA	1
72957	Repair Storm Inlet	4/28/23 12:00	N 10th St, Harrisburg, Dauphin County, Pennsylvania, 17101, USA	1
72962	Repair Storm Inlet	4/30/23 12:00	2022 Briggs St, Harrisburg, Dauphin County, Pennsylvania, 17103, USA	2
72963	Repair Storm Inlet	4/30/23 12:00	68 Schuylkill street	1
72983	Repair Storm Inlet	5/1/23 12:00		

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73010	Repair Storm Inlet	5/2/23 12:00	227 Clinton St, Harrisburg, Dauphin County, Pennsylvania, 17102, USA	1
73098	Repair Storm Inlet	5/2/23 12:00	26th and woodlawn	1
73099	Repair Storm Inlet	5/2/23 12:00	Hudson and sycamore	1
73104	Repair Storm Inlet	5/3/23 12:00	S 17th St & Albert Aly, Harrisburg, Pennsylvania, 17104	1
73101	Repair Storm Inlet	5/3/23 12:00	Albert and 17th street	1
73106	Repair Storm Inlet	5/3/23 12:00	S 15th St & Argyle St, Harrisburg, Pennsylvania, 17104	1
58909	Repair Storm Inlet	5/4/23 12:00	4th and Emerald Street	1
73107	Repair Storm Inlet	5/4/23 14:49	Marion St & Reily St, Harrisburg, Pennsylvania, 17102	1
73154	Repair Storm Inlet	5/7/23 12:00	321 N 2nd St, Harrisburg, Dauphin County, Pennsylvania, 17101, 1305, USA	1
73193	Repair Storm Inlet	5/8/23 12:00	321 N 2nd St, Harrisburg, Dauphin County, Pennsylvania, 17101, 1305, USA	1
69134	Repair Storm Inlet	5/11/23 12:00	N 4th St & Woodbine St, Harrisburg, Pennsylvania, 17110	1
73302	Repair Storm Inlet	5/11/23 12:00	238 Geiger St, Harrisburg, Dauphin County, Pennsylvania, 17102, USA	1
73307	Repair Storm Inlet	5/11/23 13:45	Calder St & Williams St, Harrisburg, Pennsylvania, 17102	1
68909	Repair Storm Inlet	5/11/23 14:13	25th st and Greenwood st	1
70556	Repair Storm Inlet	5/12/23 11:36	2470 Rudy Rd, Harrisburg, Dauphin County, Pennsylvania, 17104, 2134, USA	1
69093	Repair Storm Inlet	5/12/23 11:39	2492 Rudy Rd, Harrisburg, Pennsylvania, 17104	1
73333	Repair Storm Inlet	5/12/23 14:09	S 13th St & Lowell St, Harrisburg, Pennsylvania, 17104	1
73229	Repair Storm Inlet	5/15/23 12:00	Delaware St & Susquehanna St, Harrisburg, Pennsylvania, 17102	1
73719	Repair Storm Inlet	5/17/23 12:00	750 S 29th St, Harrisburg, Dauphin County, Pennsylvania, 17111, 1606, USA	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73720	Repair Storm Inlet	5/17/23 12:00	2600 Derry St, Harrisburg, Dauphin County, Pennsylvania, 17111, 1146, USA	1
73731	Repair Storm Inlet	5/17/23 12:00	S 20th St & Derry St, Harrisburg, Pennsylvania, 17104	1
73766	Repair Storm Inlet	5/18/23 12:00	S 23rd St & Derry St, Harrisburg, Pennsylvania, 17104	1
73733	Repair Storm Inlet	5/18/23 12:00	2429 Derry St, Harrisburg, Dauphin County, Pennsylvania, 17111, 1142, USA	1
73760	Repair Storm Inlet	5/19/23 11:12	S 25th St & Derry St, Harrisburg, Pennsylvania, 17111	1
73841	Repair Storm Inlet	5/22/23 12:00	N 15th St & State St, Harrisburg, Pennsylvania, 17103	1
73941	Repair Storm Inlet	5/24/23 12:00	15th and Juniper N 2nd St & Briggs St, Harrisburg, Pennsylvania, 17102	1
73227	Repair Storm Inlet	5/25/23 12:00	Hummel St & Reese St, Harrisburg, Pennsylvania, 17104	1
74032	Repair Storm Inlet	5/30/23 12:00	Reese & Hummel	1
74020	Repair Storm Inlet	6/2/23 13:00	S 20th St & Rudy St, Harrisburg, Pennsylvania, 17104	1
74249	Repair Storm Inlet	6/2/23 13:45	S 17th St & Manada St, Harrisburg, Pennsylvania, 17104	1
59029	Repair Storm Inlet	6/2/23 14:00	Dauphin & Wallace	1
66579	Repair Storm Inlet	6/5/23 12:00	1224 S 19th St, Harrisburg, Pennsylvania, 17104	1
73231	Repair Storm Inlet	6/5/23 13:45	N 2nd St & Barbara St, Harrisburg, Pennsylvania, 17101	1
74457	Repair Storm Inlet	6/6/23 13:00	5th & woodbine	1
74455	Repair Storm Inlet	6/7/23 13:00	N 2nd St & Barbara St, Harrisburg, Pennsylvania, 17101	1
74458	Repair Storm Inlet	6/7/23 14:00	2531 N 5th St, Harrisburg, Dauphin County, Pennsylvania, 17110, USA	1
74507	Repair Storm Inlet	6/9/23 13:45	Wyatt Rd & Croyden Rd, Harrisburg, Pennsylvania, 17104	1
74520	Repair Storm Inlet	6/9/23 14:47	N 18th St & Briggs St, Harrisburg, Pennsylvania, 17103	1
74871	Repair Storm Inlet	6/22/23 10:00		1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
75178	Repair Storm Inlet	6/29/23 12:00	N 18th St & State St, Harrisburg, Pennsylvania, 17103	1
45330	Repair Storm Inlet	6/29/23 13:45	Division St, Harrisburg, Pennsylvania, 17110	1
45396	Repair Storm Inlet	6/30/23 13:45	Division St, Harrisburg, Pennsylvania, 17110	1
71557	Repair Storm Manhole	3/19/23 12:00	Forster St, Harrisburg, Dauphin County, Pennsylvania, 17102, USA	1
67106	Repair Storm Pipe	1/18/23 11:42	4th and Calder	1
66470	Repair Storm Pipe	1/25/23 12:00	N 2nd St & Lewis St, Harrisburg, Pennsylvania, 17110	1
66469	Repair Storm Pipe	1/31/23 12:00	N 2nd St & Lewis St, Harrisburg, Pennsylvania, 17110	1
69837	Repair Storm Pipe	2/6/23 12:00	2309 N 4th St, Harrisburg, Dauphin County, Pennsylvania, 17110, USA	1
70466	Repair Storm Pipe	2/10/23 12:00	2310 N 4th St.	1
70875	Repair Storm Pipe	2/23/23 12:00	Camp St & Jefferson St, Harrisburg, Pennsylvania, 17110	1
69213	Repair Storm Pipe	3/29/23 15:01	Kemp to Alricks	1
72349	Repair Storm Pipe	5/9/23 12:00	South St & N Court St, Harrisburg, Pennsylvania, 17101	1
73025	Repair Storm Pipe	5/10/23 12:00	4th ST	1
73034	Repair Storm Pipe	5/16/23 12:00	Green St, Harrisburg, Pennsylvania, 17110	1
64112	Repair Storm Pipe	6/28/23 12:00	Woodlawn st	1
70740	Replace Storm Inlet	3/3/23 12:00	Central st and bob st	1
70993	Replace Storm Inlet	3/8/23 11:38	Mccleaster street	1
67017	Replace Storm Manhole	3/9/23 12:00	S 18th St & Bellevue Rd, Harrisburg, Pennsylvania, 17104	1
68808	Replace Storm Manhole Cover	1/3/23 14:07	10th St & Market St, New Cumberland, Pennsylvania, 17070	1
69873	SC - Surface Maintenance	2/7/23 10:28	3rd St @ Emerald and 3rd (NW on 3rd -Far SCM from Emerald)	1
69874	SC - Surface Maintenance	2/7/23 10:30	3rd St @ Emerald and 3rd (NW on 3rd -middle SCM from Emerald)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
69875	SC - Surface Maintenance	2/7/23 10:31	3rd St @ Emerald and 3rd (NW on 3rd -inside SCM from Emerald)	1
69876	SC - Surface Maintenance	2/7/23 10:33	3rd St @ Emerald and 3rd (NW on Emerald - Inside SCM from 3rd)	1
69877	SC - Surface Maintenance	2/7/23 10:34	3rd St @ Emerald and 3rd (NW on Emerald - Far SCM from 3rd)	1
69867	SC - Surface Maintenance	2/7/23 15:07	3rd St @ Woodbine and 3rd (SW on Woodbine)	1
69866	SC - Surface Maintenance	2/7/23 15:09	3rd St @ Woodbine and 3rd (NW on Woodbine)	1
69886	SC - Surface Maintenance	2/7/23 15:14	3rd St @ McClay and 3rd (SW on 3rd -far SCM from McClay)	1
69883	SC - Surface Maintenance	2/7/23 15:15	3rd St @ McClay and 3rd (NW on 3rd -inside SCM from McClay)	1
69885	SC - Surface Maintenance	2/7/23 15:16	3rd St @ McClay and 3rd (NW on McClay - inside SCM from 3rd)	1
69884	SC - Surface Maintenance	2/7/23 15:18	3rd St @ McClay and 3rd (NW on McClay -far SCM from 3rd)	1
69887	SC - Surface Maintenance	2/7/23 15:19	3rd St @ McClay and 3rd (SW on McClay -far SCM from 3rd)	1
69888	SC - Surface Maintenance	2/7/23 15:21	3rd St @ McClay and 3rd (SW on McClay - inside SCM from 3rd)	1
69882	SC - Surface Maintenance	2/7/23 15:23	3rd St @ McClay and 3rd (NE on 3rd)	1
69858	SC - Surface Maintenance	2/7/23 15:50	3rd St @ Muench and 3rd (NE on Muench)	1
69860	SC - Surface Maintenance	2/7/23 15:52	3rd St @ Muench and 3rd (SE on Muench)	1
69859	SC - Surface Maintenance	2/7/23 15:54	3rd St @ Muench and 3rd (SE on 3rd)	1
69717	SC - Surface Maintenance	2/8/23 11:02	Cloverly Heights @ Pemberton and 18th (SE)	1
69719	SC - Surface Maintenance	2/8/23 13:20	Cloverly Heights @ Lowell and Rolleston (SCM on Lowell)	1
69855	SC - Surface Maintenance	2/8/23 13:25	Royal Ter. Playground @ (N of King -inside SCM from SCM-3)	1
69849	SC - Surface Maintenance	2/8/23 13:29	4th and Dauphin Park @ across 4th St and North of Dauphin St (large pavement)	1
69851	SC - Surface Maintenance	2/8/23 13:32	4th and Dauphin Park @ Fulton St towards Kelker St	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
69880	SC - Surface Maintenance	2/8/23 15:48	3rd St @ Kelker and 3rd (SW on Kelker -far SCM from 3rd)	1
69881	SC - Surface Maintenance	2/8/23 15:50	3rd St @ Kelker and 3rd	1
69879	SC - Surface Maintenance	2/8/23 15:54	3rd St @ Kelker and 3rd (SW on 3rd)	1
69850	SC - Surface Maintenance	2/8/23 16:01	4th and Dauphin Park @ 3rd St @ Kelker and 3rd	1
69878	SC - Surface Maintenance	2/8/23 16:09	(NE on 3rd)	1
69847	SC - Surface Maintenance	2/8/23 16:14	4th and Dauphin Park @ 4th St (south of the 4th St rain garden SCM-000052)	1
69846	SC - Surface Maintenance	2/8/23 16:23	4th and Dauphin Park @ 4th St (NW corner of playground)	1
69861	SC - Surface Maintenance	2/8/23 16:56	3rd St @ Hamilton and 3rd (NE on Hamilton)	1
69900	SC - Surface Maintenance	2/8/23 18:22	3rd St @ Harris and 3rd (NE on Harris)	1
69853	SC - Surface Maintenance	2/10/23 9:45	3rd St @ Basin and 3rd (West Mid-block on 3rd)	1
69862	SC - Surface Maintenance	2/10/23 9:46	3rd St @ Calder and 3rd (NE Corner on Calder)	1
69863	SC - Surface Maintenance	2/10/23 9:49	3rd St @ Calder and 3rd (NW Corner on Calder)	1
69864	SC - Surface Maintenance	2/10/23 9:50	3rd St @ Calder and 3rd (SW Corner on 3rd)	1
69865	SC - Surface Maintenance	2/10/23 9:55	3rd St @ Sayford and 3rd (SE on 3rd)	1
69889	SC - Surface Maintenance	2/10/23 10:11	3rd St @ Verbeke and 3rd (SE on Verbeke)	1
69890	SC - Surface Maintenance	2/10/23 10:15	3rd St @ Verbeke and 3rd	1
69869	SC - Surface Maintenance	2/10/23 10:18	3rd St @ Boas and 3rd (SW Corner on Boas)	1
69868	SC - Surface Maintenance	2/10/23 10:20	3rd St @ Boas and 3rd (NE Corner on Boas)	1
69870	SC - Surface Maintenance	2/10/23 10:22	3rd St @ Boas and 3rd (S	1
69871	SC - Surface Maintenance	2/10/23 10:24	3rd St @ Union and 3rd (NE Midblock)	1
69872	SC - Surface Maintenance	2/10/23 10:27	3rd St @ Union and 3rd	1
69854	SC - Surface Maintenance	2/10/23 10:29	3rd St @ Blackberry and 3rd (NW)	1
69856	SC - Surface Maintenance	2/10/23 15:41	Penn and Sayford @ Sou	1
69857	SC - Surface Maintenance	2/10/23 15:45	Penn and Sayford @ North SCM on Penn	1
69896	SC - Surface Maintenance	2/15/23 11:12	So Allison Hill Business Dist @ S 14th and Derry - SCM SE on 14th	1
69892	SC - Surface Maintenance	2/15/23 11:14	So Allison Hill Business Dist @ 14th and Derry - SCM NW on 14th	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
69891	SC - Surface Maintenance	2/15/23 11:16	So Allison Hill Business Dist @ 14th and Derry - SCM NE on 14th	1
69894	SC - Surface Maintenance	2/15/23 11:34	So Allison Hill Business Dist @ Kittatinny and Derry - SCM East of Kittatinny	1
69893	SC - Surface Maintenance	2/15/23 11:40	So Allison Hill Business Dist @ 15th and Derry - SCM north side of Derry West of 15th	1
69897	SC - Surface Maintenance	2/15/23 11:44	So Allison Hill Business Dist @ S 15th and Derry - SCM NW on 15th	1
69895	SC - Surface Maintenance	2/15/23 11:49	So Allison Hill Business Dist @ Kittatinny and Derry - SCM West of Kittatinny	1
69899	SC - Surface Maintenance	2/16/23 15:52	Summit Terrace @ Bailey and Smith (S-SW of Smith)	1
69898	SC - Surface Maintenance	2/16/23 16:07	Summit Terrace @ Bailey and 13th (SCM on 13th)	1
71204	SC - Surface Maintenance	3/15/23 14:14	3rd St @ Emerald and 3rd (NW on 3rd -Far SCM from Emerald)	1
71206	SC - Surface Maintenance	3/15/23 14:17	3rd St @ Emerald and 3rd (NW on 3rd -middle SCM from Emerald)	1
71205	SC - Surface Maintenance	3/15/23 14:22	3rd St @ Emerald and 3rd (NW on 3rd -inside SCM from Emerald)	1
71208	SC - Surface Maintenance	3/15/23 14:25	3rd St @ Emerald and 3rd (NW on Emerald - Inside SCM from 3rd)	1
71207	SC - Surface Maintenance	3/15/23 14:28	3rd St @ Emerald and 3rd (NW on Emerald - Far SCM from 3rd)	1
71194	SC - Surface Maintenance	3/15/23 14:36	3rd St @ McClay and 3rd (SW on 3rd -far SCM from McClay)	1
71191	SC - Surface Maintenance	3/15/23 14:38	3rd St @ McClay and 3rd (NW on 3rd -inside SCM from McClay)	1
71193	SC - Surface Maintenance	3/15/23 14:40	3rd St @ McClay and 3rd (NW on McClay - inside SCM from 3rd)	1
71192	SC - Surface Maintenance	3/15/23 14:45	3rd St @ McClay and 3rd (NW on McClay -far SCM from 3rd)	1
71195	SC - Surface Maintenance	3/15/23 14:47	3rd St @ McClay and 3rd (SW on McClay -far SCM from 3rd)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
71198	SC - Surface Maintenance	3/15/23 14:49	3rd St @ McClay and 3rd (SW on McClay - inside SCM from 3rd)	1
71190	SC - Surface Maintenance	3/15/23 14:52	3rd St @ McClay and 3rd (NE on 3rd)	1
71230	SC - Surface Maintenance	3/15/23 15:02	3rd St @ Kelker and 3rd (NE on 3rd)	1
71233	SC - Surface Maintenance	3/15/23 15:04	3rd St @ Kelker and 3rd (SW on Kelker -inside SCM from 3rd)	1
71232	SC - Surface Maintenance	3/15/23 15:08	3rd St @ Kelker and 3rd (SW on Kelker -far SCM from 3rd)	1
71237	SC - Surface Maintenance	3/15/23 15:09	3rd St @ Kelker and 3rd (SW on 3rd)	1
71239	SC - Surface Maintenance	3/16/23 9:28	3rd St @ Sayford and 3rd (SE on 3rd)	1
71209	SC - Surface Maintenance	3/16/23 12:00	3rd St @ Basin and 3rd (West Mid-block on 3rd)	1
71126	SC - Surface Maintenance	3/16/23 14:00	4th and Dauphin Park @ Fulton St towards Kelker St	1
71124	SC - Surface Maintenance	3/16/23 14:04	4th and Dauphin Park @ across 4th St and North of Dauphin St (large pavement)	1
71122	SC - Surface Maintenance	3/16/23 14:09	4th and Dauphin Park @ 4th St (south of the 4th St rain garden SCM-000052)	1
71125	SC - Surface Maintenance	3/16/23 14:12	4th and Dauphin Park @ Dauphin and Fulton (SE Corner above SCM 50)	1
71123	SC - Surface Maintenance	3/16/23 14:15	4th and Dauphin Park @ 4th St (NW corner of playground)	1
71214	SC - Surface Maintenance	3/16/23 14:17	3rd St @ Harris and 3rd (NE on Harris)	1
71238	SC - Surface Maintenance	3/16/23 14:22	3rd St @ Verbeke and 3rd (SW on Verbeke)	1
71240	SC - Surface Maintenance	3/16/23 14:24	3rd St @ Verbeke and 3rd (SE on Verbeke)	1
71215	SC - Surface Maintenance	3/17/23 16:56	So Allison Hill Business Dist @ S 15th and Derry - SCM NW on 15th	1
71109	SC - Surface Maintenance	3/17/23 16:59	So Allison Hill Business Dist @ Kittatinny and Derry - SCM East of Kittatinny	1
71216	SC - Surface Maintenance	3/17/23 17:02	So Allison Hill Business Dist @ 15th and Derry - SCM north side of Derry West of 15th	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
71225	SC - Surface Maintenance	3/17/23 17:06	So Allison Hill Business Dist @ Kittatinny and Derry - SCM West of Kittatinny	1
71218	SC - Surface Maintenance	3/17/23 17:09	So Allison Hill Business Dist @ S 14th and Derry - SCM SE on 14th	1
71220	SC - Surface Maintenance	3/17/23 17:15	So Allison Hill Business Dist @ 14th and Derry - SCM NE on 14th	1
71219	SC - Surface Maintenance	3/17/23 17:18	So Allison Hill Business Dist @ 14th and Derry - SCM NW on 14th	1
71226	SC - Surface Maintenance	3/17/23 17:27	Summit Terrace @ Bailey and 13th (SCM on 13th)	1
71227	SC - Surface Maintenance	3/17/23 17:30	Summit Terrace @ Bailey and Smith (S-SW of Smith)	1
71110	SC - Surface Maintenance	3/21/23 12:59	Penn and Sayford @ South SCM on Penn	1
71242	SC - Surface Maintenance	3/22/23 6:53	3rd St @ Woodbine and 3rd (NW on Woodbine)	1
71121	SC - Surface Maintenance	3/22/23 6:53	3rd St @ Woodbine and 3rd (SW on Woodbine)	1
71235	SC - Surface Maintenance	3/22/23 6:54	3rd St @ Muench and 3rd (NE on Muench)	1
71236	SC - Surface Maintenance	3/22/23 6:55	3rd St @ Muench and 3rd (SE on Muench)	1
71234	SC - Surface Maintenance	3/22/23 6:57	3rd St @ Muench and 3rd (SE on 3rd)	1
71231	SC - Surface Maintenance	3/22/23 6:58	3rd St @ Hamilton and 3rd (NE on Hamilton)	1
71211	SC - Surface Maintenance	3/22/23 7:04	3rd St @ Calder and 3rd (NE Corner on Calder)	1
71212	SC - Surface Maintenance	3/22/23 7:05	3rd St @ Calder and 3rd (SW Corner on 3rd)	1
71213	SC - Surface Maintenance	3/22/23 7:06	3rd St @ Calder and 3rd (NW Corner on Calder)	1
71141	SC - Surface Maintenance	3/22/23 7:09	Penn and Sayford @ North SCM on Penn	1
71174	SC - Surface Maintenance	3/22/23 7:18	3rd St @ Boas and 3rd (NE Corner on Boas)	1
71201	SC - Surface Maintenance	3/22/23 7:20	3rd St @ Boas and 3rd (SE Corner on Boas)	1
71203	SC - Surface Maintenance	3/22/23 7:23	3rd St @ Boas and 3rd (SE Corner on Boas)	1
71202	SC - Surface Maintenance	3/22/23 7:24	3rd St @ Boas and 3rd (SW Corner on Boas)	1
71196	SC - Surface Maintenance	3/22/23 7:26	3rd St @ Union and 3rd (NE Midblock)	1
71197	SC - Surface Maintenance	3/22/23 7:28	3rd St @ Union and 3rd (SE midblock)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
71229	SC - Surface Maintenance	3/22/23 7:31	3rd St @ Blackberry and 3rd (NW)	1
71536	SC - Surface Maintenance	3/22/23 7:34	Royal Ter. Playground @ (N of King -inside SCM from SCM-3)	1
71112	SC - Surface Maintenance	3/22/23 7:40	Cloverly Heights @ Pemberton and 18th (SE)	1
71111	SC - Surface Maintenance	3/22/23 7:43	Cloverly Heights @ Lowell and Rolleston (SCM on Lowell)	1
72727	SC - Surface Maintenance	4/24/23 11:32	3rd St @ Emerald and 3rd (NW on 3rd -middle SCM from Emerald)	1
72726	SC - Surface Maintenance	4/24/23 11:37	3rd St @ Emerald and 3rd (NW on 3rd -inside SCM from Emerald)	1
72729	SC - Surface Maintenance	4/24/23 11:40	3rd St @ Emerald and 3rd (NW on Emerald - Inside SCM from 3rd)	1
72728	SC - Surface Maintenance	4/24/23 11:42	3rd St @ Emerald and 3rd (NW on Emerald - Far SCM from 3rd)	1
72744	SC - Surface Maintenance	4/24/23 13:30	3rd St @ McClay and 3rd (SW on 3rd -far SCM from McClay)	1
72741	SC - Surface Maintenance	4/24/23 13:37	3rd St @ McClay and 3rd (NW on 3rd -inside SCM from McClay)	1
72743	SC - Surface Maintenance	4/24/23 13:39	3rd St @ McClay and 3rd (NW on McClay - inside SCM from 3rd)	1
72742	SC - Surface Maintenance	4/24/23 13:46	3rd St @ McClay and 3rd (NW on McClay -far SCM from 3rd)	1
72745	SC - Surface Maintenance	4/24/23 13:48	3rd St @ McClay and 3rd (SW on McClay -far SCM from 3rd)	1
72746	SC - Surface Maintenance	4/24/23 13:49	3rd St @ McClay and 3rd (SW on McClay - inside SCM from 3rd)	1
72740	SC - Surface Maintenance	4/24/23 13:51	3rd St @ McClay and 3rd (NE on 3rd)	1
72736	SC - Surface Maintenance	4/24/23 16:31	3rd St @ Kelker and 3rd (NE on 3rd)	1
72737	SC - Surface Maintenance	4/24/23 16:38	3rd St @ Kelker and 3rd (SW on 3rd)	1
72739	SC - Surface Maintenance	4/24/23 16:43	3rd St @ Kelker and 3rd (SW on Kelker -inside SCM from 3rd)	1
72738	SC - Surface Maintenance	4/24/23 16:47	3rd St @ Kelker and 3rd (SW on Kelker -far SCM from 3rd)	1
72671	SC - Surface Maintenance	4/24/23 19:03	3rd St @ Emerald and 3rd (NW on 3rd -Far SCM from Emerald)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
72734	SC - Surface Maintenance	4/25/23 11:23	4th and Dauphin Park @ Fulton St towards Kelker St	1
72732	SC - Surface Maintenance	4/25/23 11:26	4th and Dauphin Park @ across 4th St and North of Dauphin St (large pavement)	1
72733	SC - Surface Maintenance	4/25/23 11:29	4th and Dauphin Park @ Dauphin and Fulton (SE Corner above SCM 50)	1
72731	SC - Surface Maintenance	4/25/23 11:31	4th and Dauphin Park @ 4th St (NW corner of playground)	1
72730	SC - Surface Maintenance	4/25/23 11:33	4th and Dauphin Park @ 4th St (south of the 4th St rain garden SCM-000052)	1
72735	SC - Surface Maintenance	4/25/23 13:30	3rd St @ Harris and 3rd (NE on Harris)	1
72666	SC - Surface Maintenance	4/25/23 14:44	Cloverly Heights @ Pemberton and 18th (SE)	1
72663	SC - Surface Maintenance	4/25/23 14:52	Cloverly Heights @ Lowell and Rolleston (SCM on Lowell)	1
72670	SC - Surface Maintenance	4/25/23 14:58	Royal Ter. Playground @ (N of King -inside SCM from SCM-3)	1
72651	SC - Surface Maintenance	4/25/23 15:03	3rd St @ Blackberry and 3rd (NW)	1
72668	SC - Surface Maintenance	4/25/23 15:08	3rd St @ Union and 3rd (SE midblock)	1
72669	SC - Surface Maintenance	4/25/23 15:11	3rd St @ Union and 3rd (NE Midblock)	1
72649	SC - Surface Maintenance	4/25/23 15:17	3rd St @ Boas and 3rd (NE Corner on Boas)	1
72652	SC - Surface Maintenance	4/25/23 15:22	3rd St @ Boas and 3rd (SE Corner on Boas)	1
72653	SC - Surface Maintenance	4/25/23 15:25	3rd St @ Boas and 3rd (SW Corner on Boas)	1
72673	SC - Surface Maintenance	4/25/23 15:30	3rd St @ Sayford and 3rd (SE on 3rd)	1
72650	SC - Surface Maintenance	4/25/23 15:36	3rd St @ Basin and 3rd (West Mid-block on 3rd)	1
72754	SC - Surface Maintenance	4/25/23 17:25	3rd St @ Verbeke and 3rd (SW on Verbeke)	1
72755	SC - Surface Maintenance	4/25/23 17:28	3rd St @ Verbeke and 3rd (SE on Verbeke)	1
72658	SC - Surface Maintenance	4/25/23 18:50	3rd St @ Hamilton and 3rd (NE on Hamilton)	1
72748	SC - Surface Maintenance	4/26/23 11:41	So Allison Hill Business Dist @ S 15th and Derry - SCM NW on 15th	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
72749	SC - Surface Maintenance	4/26/23 11:44	So Allison Hill Business Dist @ 15th and Derry - SCM north side of Derry West of 15th	1
72747	SC - Surface Maintenance	4/26/23 11:46	So Allison Hill Business Dist @ Kittatinny and Derry - SCM East of Kittatinny	1
72753	SC - Surface Maintenance	4/26/23 11:51	So Allison Hill Business Dist @ Kittatinny and Derry - SCM West of Kittatinny	1
72752	SC - Surface Maintenance	4/26/23 11:53	So Allison Hill Business Dist @ S 14th and Derry - SCM SE on 14th	1
72750	SC - Surface Maintenance	4/26/23 11:55	So Allison Hill Business Dist @ 14th and Derry - SCM NE on 14th	1
72751	SC - Surface Maintenance	4/26/23 11:56	So Allison Hill Business Dist @ 14th and Derry - SCM NW on 14th	1
72724	SC - Surface Maintenance	4/26/23 15:35	Penn and Sayford @ North SCM on Penn	1
72725	SC - Surface Maintenance	4/26/23 15:38	Penn and Sayford @ South SCM on Penn	1
72661	SC - Surface Maintenance	4/26/23 16:40	Summit Terrace @ Bailey and 13th (SCM on 13th)	1
72665	SC - Surface Maintenance	4/26/23 16:42	Summit Terrace @ Bailey and Smith (S-SW of Smith)	1
72660	SC - Surface Maintenance	4/27/23 14:52	3rd St @ Muench and 3rd (SE on 3rd)	1
72672	SC - Surface Maintenance	4/27/23 14:56	3rd St @ Muench and 3rd (SE on Muench)	1
72657	SC - Surface Maintenance	4/27/23 18:35	3rd St @ Calder and 3rd (SW Corner on 3rd)	1
72655	SC - Surface Maintenance	4/27/23 18:39	3rd St @ Calder and 3rd (NW Corner on Calder)	1
72654	SC - Surface Maintenance	4/27/23 18:43	3rd St @ Calder and 3rd (NE Corner on Calder)	1
72659	SC - Surface Maintenance	4/28/23 11:31	3rd St @ Muench and 3rd (NE on Muench)	1
72675	SC - Surface Maintenance	4/28/23 11:35	3rd St @ Woodbine and 3rd (SW on Woodbine)	1
72674	SC - Surface Maintenance	4/28/23 11:37	3rd St @ Woodbine and 3rd (NW on Woodbine)	1
73367	SC - Surface Maintenance	5/17/23 18:06	S 3rd St & Blackberry St, Harrisburg, Pennsylvania, 17101	1
73359	SC - Surface Maintenance	5/17/23 18:10	3rd St @ Union and 3rd (SE midblock)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73358	SC - Surface Maintenance	5/17/23 18:17	3rd St @ Union and 3rd (NE Midblock)	1
73349	SC - Surface Maintenance	5/17/23 18:22	3rd St @ Boas and 3rd (SW Corner on Boas)	1
73347	SC - Surface Maintenance	5/17/23 18:26	3rd St @ Boas and 3rd (NE Corner on Boas)	1
73348	SC - Surface Maintenance	5/17/23 18:28	3rd St @ Boas and 3rd (SE Corner on Boas)	1
73353	SC - Surface Maintenance	5/17/23 18:31	3rd St @ Hamilton and 3rd (NE on Hamilton)	1
73362	SC - Surface Maintenance	5/19/23 8:02	Cloverly Heights @ Lowell and Rolleston (SCM on Lowell)	1
73363	SC - Surface Maintenance	5/19/23 8:05	Cloverly Heights @ Pemberton and 18th (SE)	1
73366	SC - Surface Maintenance	5/19/23 8:09	Royal Ter. Playground @ (N of King -inside SCM from SCM-3)	1
73355	SC - Surface Maintenance	5/19/23 8:14	3rd St @ Muench and 3rd (SE on 3rd)	1
73356	SC - Surface Maintenance	5/19/23 8:16	3rd St @ Muench and 3rd (SE on Muench)	1
73354	SC - Surface Maintenance	5/19/23 8:20	3rd St @ Muench and 3rd (NE on Muench)	1
73360	SC - Surface Maintenance	5/19/23 8:24	3rd St @ Woodbine and 3rd (NW on Woodbine)	1
73361	SC - Surface Maintenance	5/19/23 8:27	3rd St @ Woodbine and 3rd (SW on Woodbine)	1
73364	SC - Surface Maintenance	5/19/23 8:30	Penn and Sayford @ North SCM on Penn	1
73365	SC - Surface Maintenance	5/19/23 8:32	Penn and Sayford @ South SCM on Penn	1
73357	SC - Surface Maintenance	5/19/23 8:36	3rd St @ Sayford and 3rd (SE on 3rd)	1
73346	SC - Surface Maintenance	5/19/23 8:39	3rd St @ Basin and 3rd (West Mid-block on 3rd)	1
73351	SC - Surface Maintenance	5/19/23 12:21	3rd St @ Calder and 3rd (NW Corner on Calder)	1
73352	SC - Surface Maintenance	5/19/23 12:23	3rd St @ Calder and 3rd (SW Corner on 3rd)	1
73350	SC - Surface Maintenance	5/19/23 12:26	3rd St @ Calder and 3rd (NE Corner on Calder)	1
73389	SC - Surface Maintenance	5/19/23 13:14	So Allison Hill Business Dist @ S 15th and Derry - SCM NW on 15th	1
73388	SC - Surface Maintenance	5/19/23 16:36	So Allison Hill Business Dist @ Kittatinny and Derry - SCM East of Kittatinny	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73390	SC - Surface Maintenance	5/19/23 16:50	So Allison Hill Business Dist @ 15th and Derry - SCM north side of Derry West of 15th	1
73394	SC - Surface Maintenance	5/19/23 17:06	So Allison Hill Business Dist @ Kittatinny and Derry - SCM West of Kittatinny	1
73393	SC - Surface Maintenance	5/19/23 17:13	So Allison Hill Business Dist @ S 14th and Derry - SCM SE on 14th	1
73391	SC - Surface Maintenance	5/19/23 17:37	So Allison Hill Business Dist @ 14th and Derry - SCM NE on 14th	1
73392	SC - Surface Maintenance	5/19/23 17:49	So Allison Hill Business Dist @ 14th and Derry - SCM NW on 14th	1
73395	SC - Surface Maintenance	5/22/23 9:22	Summit Terrace @ Bailey and 13th (SCM on 13th)	1
73396	SC - Surface Maintenance	5/22/23 9:25	Summit Terrace @ Bailey and Smith (S-SW of Smith)	1
73400	SC - Surface Maintenance	5/23/23 12:13	4th and Dauphin Park @ Fulton St towards Kelker St	1
73398	SC - Surface Maintenance	5/23/23 12:20	4th and Dauphin Park @ across 4th St and North of Dauphin St (large pavement)	1
73397	SC - Surface Maintenance	5/23/23 12:23	4th and Dauphin Park @ 4th St (south of the 4th St rain garden SCM-000052)	1
73399	SC - Surface Maintenance	5/23/23 12:28	4th and Dauphin Park @ Dauphin and Fulton (SE Corner above SCM 50)	1
73387	SC - Surface Maintenance	5/23/23 12:31	4th and Dauphin Park @ 4th St (NW corner of playground)	1
73374	SC - Surface Maintenance	5/23/23 12:34	3rd St @ Kelker and 3rd (NE on 3rd)	1
73375	SC - Surface Maintenance	5/23/23 12:36	3rd St @ Kelker and 3rd (SW on 3rd)	1
73377	SC - Surface Maintenance	5/23/23 12:39	3rd St @ Kelker and 3rd (SW on Kelker -inside SCM from 3rd)	1
73376	SC - Surface Maintenance	5/23/23 12:42	3rd St @ Kelker and 3rd (SW on Kelker -far SCM from 3rd)	1
73373	SC - Surface Maintenance	5/23/23 12:46	3rd St @ Harris and 3rd (NE on Harris)	1
73382	SC - Surface Maintenance	5/24/23 12:49	3rd St @ McClay and 3rd (SW on 3rd -far SCM from McClay)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73379	SC - Surface Maintenance	5/24/23 12:50	3rd St @ McClay and 3rd (NW on 3rd -inside SCM from McClay)	1
73381	SC - Surface Maintenance	5/24/23 12:51	3rd St @ McClay and 3rd (NW on McClay - inside SCM from 3rd)	1
73380	SC - Surface Maintenance	5/24/23 12:53	3rd St @ McClay and 3rd (NW on McClay -far SCM from 3rd)	1
73383	SC - Surface Maintenance	5/24/23 12:54	3rd St @ McClay and 3rd (SW on McClay -far SCM from 3rd)	1
73384	SC - Surface Maintenance	5/24/23 12:56	3rd St @ McClay and 3rd (SW on McClay - inside SCM from 3rd)	1
73378	SC - Surface Maintenance	5/24/23 13:00	3rd St @ McClay and 3rd (NE on 3rd)	1
73371	SC - Surface Maintenance	5/24/23 16:29	3rd St @ Emerald and 3rd (NW on Emerald - Far SCM from 3rd)	1
73372	SC - Surface Maintenance	5/24/23 16:30	3rd St @ Emerald and 3rd (NW on Emerald - Inside SCM from 3rd)	1
73369	SC - Surface Maintenance	5/24/23 16:42	3rd St @ Emerald and 3rd (NW on 3rd -inside SCM from Emerald)	1
73370	SC - Surface Maintenance	5/24/23 16:46	3rd St @ Emerald and 3rd (NW on 3rd -middle SCM from Emerald)	1
73368	SC - Surface Maintenance	5/24/23 16:48	3rd St @ Emerald and 3rd (NW on 3rd -Far SCM from Emerald)	1
73385	SC - Surface Maintenance	5/24/23 17:19	3rd St @ Verbeke and 3rd (SW on Verbeke)	1
73386	SC - Surface Maintenance	5/24/23 17:22	3rd St @ Verbeke and 3rd (SE on Verbeke)	1
74699	SC - Surface Maintenance	6/21/23 13:07	Cloverly Heights @ Lowell and Rolleston (SCM on Lowell)	1
74707	SC - Surface Maintenance	6/21/23 13:13	Royal Ter. Playground @ (N of King -inside SCM from SCM-3)	1
74664	SC - Surface Maintenance	6/21/23 13:15	3rd St @ Blackberry and 3rd (NW)	1
74690	SC - Surface Maintenance	6/21/23 13:49	3rd St @ Union and 3rd (SE midblock)	1
74691	SC - Surface Maintenance	6/21/23 13:52	3rd St @ Union and 3rd (NE Midblock)	1
74663	SC - Surface Maintenance	6/21/23 14:06	3rd St @ Boas and 3rd (NE Corner on Boas)	1
74665	SC - Surface Maintenance	6/21/23 14:08	3rd St @ Boas and 3rd (SE Corner on Boas)	1
74666	SC - Surface Maintenance	6/21/23 14:10	3rd St @ Boas and 3rd (SW Corner on Boas)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
74662	SC - Surface Maintenance	6/21/23 17:21	3rd St @ Basin and 3rd (West Mid-block on 3rd)	1
74675	SC - Surface Maintenance	6/21/23 17:24	3rd St @ Hamilton and 3rd (NE on Hamilton)	1
74689	SC - Surface Maintenance	6/21/23 17:28	3rd St @ Muench and 3rd (SE on 3rd)	1
74692	SC - Surface Maintenance	6/21/23 17:30	3rd St @ Muench and 3rd (SE on Muench)	1
74688	SC - Surface Maintenance	6/21/23 22:01	3rd St @ Muench and 3rd (NE on Muench)	1
74700	SC - Surface Maintenance	6/25/23 22:08	Cloverly Heights @ Pemberton and 18th (SE)	1
74693	SC - Surface Maintenance	6/25/23 22:11	3rd St @ Sayford and 3rd (SE on 3rd)	1
74667	SC - Surface Maintenance	6/25/23 22:16	3rd St @ Calder and 3rd (NE Corner on Calder)	1
74669	SC - Surface Maintenance	6/25/23 22:22	3rd St @ Calder and 3rd (SW Corner on 3rd)	1
74668	SC - Surface Maintenance	6/25/23 23:29	3rd St @ Calder and 3rd (NW Corner on Calder)	1
74705	SC - Surface Maintenance	6/25/23 23:31	Penn and Sayford @ North SCM on Penn	1
74716	SC - Surface Maintenance	6/25/23 23:34	Penn and Sayford @ South SCM on Penn	1
74697	SC - Surface Maintenance	6/25/23 23:41	3rd St @ Woodbine and 3rd (SW on Woodbine)	1
74696	SC - Surface Maintenance	6/26/23 9:17	3rd St @ Woodbine and 3rd (NW on Woodbine)	1
74673	SC - Surface Maintenance	6/26/23 15:53	3rd St @ Emerald and 3rd (NW on Emerald - Far SCM from 3rd)	1
74674	SC - Surface Maintenance	6/26/23 15:59	3rd St @ Emerald and 3rd (NW on Emerald - Inside SCM from 3rd)	1
74671	SC - Surface Maintenance	6/26/23 16:02	3rd St @ Emerald and 3rd (NW on 3rd -inside SCM from Emerald)	1
74672	SC - Surface Maintenance	6/26/23 16:06	3rd St @ Emerald and 3rd (NW on 3rd -middle SCM from Emerald)	1
74670	SC - Surface Maintenance	6/26/23 16:08	3rd St @ Emerald and 3rd (NW on 3rd -Far SCM from Emerald)	1
74685	SC - Surface Maintenance	6/26/23 16:10	3rd St @ McClay and 3rd (SW on 3rd -far SCM from McClay)	1
74682	SC - Surface Maintenance	6/26/23 16:13	3rd St @ McClay and 3rd (NW on 3rd -inside SCM from McClay)	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
74684	SC - Surface Maintenance	6/26/23 16:16	3rd St @ McClay and 3rd (NW on McClay - inside SCM from 3rd)	1
74683	SC - Surface Maintenance	6/26/23 16:18	3rd St @ McClay and 3rd (NW on McClay -far SCM from 3rd)	1
74686	SC - Surface Maintenance	6/26/23 16:20	3rd St @ McClay and 3rd (SW on McClay -far SCM from 3rd)	1
74687	SC - Surface Maintenance	6/26/23 16:24	3rd St @ McClay and 3rd (SW on McClay - inside SCM from 3rd)	1
74681	SC - Surface Maintenance	6/26/23 16:25	3rd St @ McClay and 3rd (NE on 3rd)	1
74677	SC - Surface Maintenance	6/26/23 16:30	3rd St @ Kelker and 3rd (NE on 3rd)	1
74679	SC - Surface Maintenance	6/26/23 16:32	3rd St @ Kelker and 3rd (SW on Kelker -far SCM from 3rd)	1
74680	SC - Surface Maintenance	6/26/23 16:35	3rd St @ Kelker and 3rd (SW on Kelker -inside SCM from 3rd)	1
74678	SC - Surface Maintenance	6/26/23 16:37	3rd St @ Kelker and 3rd (SW on 3rd)	1
74676	SC - Surface Maintenance	6/26/23 16:38	3rd St @ Harris and 3rd (NE on Harris)	1
74694	SC - Surface Maintenance	6/26/23 16:42	3rd St @ Verbeke and 3rd (SW on Verbeke)	1
74695	SC - Surface Maintenance	6/26/23 16:43	3rd St @ Verbeke and 3rd (SE on Verbeke)	1
74704	SC - Surface Maintenance	6/26/23 16:46	4th and Dauphin Park @ Fulton St towards Kelker St	1
74702	SC - Surface Maintenance	6/26/23 16:48	4th and Dauphin Park @ across 4th St and North of Dauphin St (large pavement)	1
74701	SC - Surface Maintenance	6/26/23 16:49	4th and Dauphin Park @ 4th St (south of the 4th St rain garden SCM-000052)	1
74698	SC - Surface Maintenance	6/26/23 16:51	4th and Dauphin Park @ 4th St (NW corner of playground)	1
74703	SC - Surface Maintenance	6/26/23 16:55	4th and Dauphin Park @ Dauphin and Fulton (SE Corner above SCM 50)	1
74708	SC - Surface Maintenance	6/27/23 13:03	So Allison Hill Business Dist @ S 15th and Derry - SCM NW on 15th	1
74709	SC - Surface Maintenance	6/27/23 13:10	So Allison Hill Business Dist @ 15th and Derry - SCM north side of Derry West of 15th	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
74706	SC - Surface Maintenance	6/27/23 13:15	So Allison Hill Business Dist @ Kittatinny and Derry - SCM East of Kittatinny	1
74713	SC - Surface Maintenance	6/27/23 13:17	So Allison Hill Business Dist @ Kittatinny and Derry - SCM West of Kittatinny	1
74712	SC - Surface Maintenance	6/27/23 13:24	So Allison Hill Business Dist @ S 14th and Derry - SCM SE on 14th	1
74710	SC - Surface Maintenance	6/27/23 13:27	So Allison Hill Business Dist @ 14th and Derry - SCM NE on 14th	1
74711	SC - Surface Maintenance	6/27/23 13:29	So Allison Hill Business Dist @ 14th and Derry - SCM NW on 14th	1
74714	SC - Surface Maintenance	6/27/23 13:34	Summit Terrace @ Bailey and 13th (SCM on 13th)	1
63720	SC - Vactor SC Structure	3/2/23 10:30	3rd St.	1
73261	SC - Vactor SC Structure	5/10/23 12:00	Rolleston	2
73254	SC - Vactor SC Structure	5/10/23 12:09	Rolleston	2
73262	SC - Vactor SC Structure	5/10/23 12:19	Lowell St.	2
73263	SC - Vactor SC Structure	5/10/23 12:37	Lowell St.	2
73265	SC - Vactor SC Structure	5/10/23 12:44	Eighteenth	1
73268	SC - Vactor SC Structure	5/10/23 12:49	Eighteenth	1
73269	SC - Vactor SC Structure	5/10/23 12:53	18th	2
73270	SC - Vactor SC Structure	5/10/23 12:57	18th	2
73271	SC - Vactor SC Structure	5/10/23 13:02	Pemberton	1
73272	SC - Vactor SC Structure	5/10/23 13:07	Pemberton	2
73273	SC - Vactor SC Structure	5/10/23 13:11	Pemberton	2
73276	SC - Vactor SC Structure	5/11/23 6:47	13th & Bailey	1
73277	SC - Vactor SC Structure	5/11/23 6:51	Bailey & Balm	2
73278	SC - Vactor SC Structure	5/11/23 6:58	Bailey	1
73279	SC - Vactor SC Structure	5/11/23 7:04	Bailey & Summit	2
70956	Street Restoration Storm Inlet	2/28/23 12:00	N 2nd St & Lewis St, Harrisburg, Pennsylvania, 17110	2
74867	Street Restoration Storm Pipe	6/22/23 13:00	4th ST	1
68895	Surface Clean Inlet	1/5/23 14:00	bar screen rail road	1
68925	Surface Clean Inlet	1/8/23 12:00	RR Bar Screen	1
69275	Surface Clean Inlet	1/24/23 8:53	rr barscreen	1
69979	Surface Clean Inlet	2/10/23 12:00	RR Bar Screen	1
70646	Surface Clean Inlet	2/17/23 12:00	RR Bar Screen	1
70988	Surface Clean Inlet	2/27/23 12:00	RR Bar Screen	1
70989	Surface Clean Inlet	2/28/23 12:00	RR Bar Screen	1
71099	Surface Clean Inlet	3/6/23 12:00	rr bar screen	1
71409	Surface Clean Inlet	3/13/23 13:21	rr barscreen	1
71735	Surface Clean Inlet	3/28/23 12:00	RR Bar Screen	1
71922	Surface Clean Inlet	4/2/23 12:00	RR Bar Screen	1
72941	Surface Clean Inlet	4/16/23 12:00	RR Bar Screen	1
72940	Surface Clean Inlet	4/23/23 12:00	RR Bar Screen	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73053	Surface Clean Inlet	5/1/23 12:00	RR Bar Screen South 16th And Paxton	1
73337	Surface Clean Inlet	5/13/23 12:30	Street	1
73772	Surface Clean Inlet	5/19/23 12:00	RR Bar Screen	1
74106	Surface Clean Inlet	5/26/23 12:00	RR Bar Screen	1
74336	Surface Clean Inlet	6/5/23 12:00	RR Bar Screen	1
74616	Surface Clean Inlet	6/13/23 12:00	RR Bar Screen	1
74761	Surface Clean Inlet	6/16/23 12:00	RR Bar Screen	1
74944	Surface Clean Inlet	6/25/23 12:00	RR Bar Screen	1
75114	Surface Clean Inlet	6/30/23 12:00	RR Bar Screen	1
68485	Update GIS	1/30/23 15:15	1800 HERR ST	1
68482	Update GIS	1/30/23 15:15	1802 HERR ST	1
70513	Update GIS	2/13/23 11:58	2134 N 2nd St	1
69288	Update GIS	2/13/23 12:37	1801 Pemberton St	1
62550	Update GIS	2/21/23 10:53	2033 Bellevue Rd	1
71498	Update GIS	3/15/23 12:23	S 19th St	6
72439	Update GIS	4/14/23 16:11	25th & ellerslie	26
72533	Update GIS	4/19/23 12:20	RUDY RD.	3
62071	Update GIS	6/26/23 12:09		5
66677	Vactor Inlet	1/5/23 9:46	Wilson Parkway	1
66668	Vactor Inlet	1/5/23 10:03	Wilson Parkway Rumson & Wilson	1
66687	Vactor Inlet	1/5/23 10:10	Parkway	1
66874	Vactor Inlet	1/5/23 10:39	Derry St.	1
66696	Vactor Inlet	1/5/23 10:49	Wilson Parkway	1
66871	Vactor Inlet	1/5/23 10:56	25th & Woodlawn	1
66854	Vactor Inlet	1/5/23 11:01	Woodlawn St.	1
66835	Vactor Inlet	1/5/23 11:09	25th St.	1
66811	Vactor Inlet	1/5/23 11:19	25th & Ellerslie	1
66885	Vactor Inlet	1/5/23 11:29	25th St.	1
66706	Vactor Inlet	1/5/23 11:37	Wilson Parkway	1
66723	Vactor Inlet	1/5/23 11:44	Wilson Parkway	1
66739	Vactor Inlet	1/5/23 11:44	Greenwood St.	1
66715	Vactor Inlet	1/5/23 11:56	Wilson Parkway	1
66903	Vactor Inlet	1/5/23 11:57	Greenwood	1
66644	Vactor Inlet	1/5/23 12:02	Wilson Parkway	1
66653	Vactor Inlet	1/5/23 12:08	Wilson Parkway	1
66817	Vactor Inlet	1/6/23 10:19	Greenwood	1
66755	Vactor Inlet	1/6/23 10:24	25th St.	1
66798	Vactor Inlet	1/6/23 10:36	25th & Duke	1
66778	Vactor Inlet	1/6/23 10:37	25th & Duke	1
66754	Vactor Inlet	1/6/23 10:52	25th & Duke	1
66840	Vactor Inlet	1/6/23 10:54	Duke & 25th	1
66810	Vactor Inlet	1/6/23 11:05	25th & Brookwood	1
66850	Vactor Inlet	1/6/23 11:06	25th & Brookwood	1
66831	Vactor Inlet	1/6/23 11:10	25th & Brookwood	1
66790	Vactor Inlet	1/6/23 11:12	25th & Brookwood	1
66767	Vactor Inlet	1/10/23 8:39	Benton St.	1
66757	Vactor Inlet	1/10/23 9:14	Ellerslie	1
66777	Vactor Inlet	1/10/23 9:15	Ellerslie	1
66792	Vactor Inlet	1/10/23 9:33	24th	1
66800	Vactor Inlet	1/10/23 9:53	Brookwood	1
66782	Vactor Inlet	1/10/23 10:02	Brookwood	1
66819	Vactor Inlet	1/10/23 10:12	Brookwood & Hatton	1
66761	Vactor Inlet	1/10/23 10:24	Brookwood	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
			Verbeke @ Broad st	
69028	Vactor Inlet	1/12/23 7:31	market	1
66912	Vactor Inlet	1/12/23 9:59	25th	1
66886	Vactor Inlet	1/12/23 10:11	25th & Mercer	1
66741	Vactor Inlet	1/12/23 10:18	25th & Mercer	1
66859	Vactor Inlet	1/12/23 10:32	Adrian & 25th	1
66924	Vactor Inlet	1/12/23 10:35	Brookwood	1
66756	Vactor Inlet	1/12/23 10:36	25th & Adrian	1
66882	Vactor Inlet	1/12/23 10:41	Burma St.	1
66862	Vactor Inlet	1/12/23 10:53	Aly behind Mercer	1
66864	Vactor Inlet	1/12/23 11:20	Brookwood	1
66794	Vactor Inlet	1/12/23 11:27	Brookwood	1
66809	Vactor Inlet	1/12/23 11:37	Brookwood	1
66866	Vactor Inlet	1/12/23 11:53	Brookwood	1
66806	Vactor Inlet	1/12/23 12:04	Brookwood	1
66895	Vactor Inlet	1/12/23 12:12	29th St.	1
66905	Vactor Inlet	1/12/23 12:18	29th	1
66907	Vactor Inlet	1/17/23 9:10	Rudy Rd.	1
66735	Vactor Inlet	1/17/23 9:13	Rudy & Yew	1
66891	Vactor Inlet	1/17/23 9:23	Rudy Rd.	1
66867	Vactor Inlet	1/17/23 9:42	Rudy Rd.	1
66893	Vactor Inlet	1/17/23 9:51	25th & Rudy Rd.	1
66863	Vactor Inlet	1/17/23 9:57	25th	1
66877	Vactor Inlet	1/17/23 10:05	Rudy Rd.	1
66824	Vactor Inlet	1/17/23 10:14	Rudy Rd.	1
66760	Vactor Inlet	1/17/23 10:34	Rudy Rd.	1
66921	Vactor Inlet	1/17/23 10:43	Rudy & Hale	1
66803	Vactor Inlet	1/17/23 10:57	Rudy Rd.	1
66916	Vactor Inlet	1/18/23 8:47	29th	1
66830	Vactor Inlet	1/18/23 8:51	29th	1
66879	Vactor Inlet	1/18/23 9:02	29th St.	1
66808	Vactor Inlet	1/18/23 9:13	29th	1
66849	Vactor Inlet	1/18/23 10:29	Rudy Rd.	1
66663	Vactor Inlet	1/18/23 10:50	Heather Place	1
66672	Vactor Inlet	1/18/23 10:51	Heather Place	1
66703	Vactor Inlet	1/20/23 8:58	Wilson Parkway	1
66678	Vactor Inlet	1/20/23 9:22	Wyatt	1
66699	Vactor Inlet	1/20/23 9:29	Croyden	1
66691	Vactor Inlet	1/20/23 9:36	Croyden	1
66708	Vactor Inlet	1/20/23 9:49	Croyden	1
66660	Vactor Inlet	1/20/23 10:03	Rumson Dr.	1
66725	Vactor Inlet	1/20/23 10:13	Rumson	1
66716	Vactor Inlet	1/20/23 10:22	Rumson Dr.	1
66647	Vactor Inlet	1/23/23 9:08	Wyatt	1
66688	Vactor Inlet	1/23/23 9:35	Wyatt	1
66704	Vactor Inlet	1/23/23 9:57	Wyatt Rd.	1
66720	Vactor Inlet	1/23/23 10:31	Wyatt	1
66712	Vactor Inlet	1/23/23 10:39	Wyatt	1
66695	Vactor Inlet	1/23/23 11:01	Rumson Dr.	1
66670	Vactor Inlet	1/23/23 11:02	Rumson	1
66645	Vactor Inlet	1/24/23 9:05	Rumson Dr..	1
66651	Vactor Inlet	1/24/23 9:13	Rumson	1
66685	Vactor Inlet	1/24/23 9:15	Meadowlark Place	1
66676	Vactor Inlet	1/24/23 9:43	Meadowlark	1
66646	Vactor Inlet	1/24/23 10:12	25th St.	1
66869	Vactor Inlet	1/24/23 10:34	Harris Terrace	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
			Harris Terrace & Hale	
66843	Vactor Inlet	1/24/23 10:36	Ave.	1
66873	Vactor Inlet	1/24/23 10:57	Aly behind Hale	1
66751	Vactor Inlet	1/24/23 11:01	Aly behind Hale	1
66922	Vactor Inlet	1/24/23 11:09	Aly behind Hale	1
66888	Vactor Inlet	1/24/23 11:14	Aly behind Hale	1
66910	Vactor Inlet	1/24/23 11:14	Aly behind Hale	1
66681	Vactor Inlet	1/27/23 12:36	Croyden	1
66697	Vactor Inlet	1/27/23 12:48	Wyatt Rd.	1
66851	Vactor Inlet	1/27/23 13:22	Emerald Ct.	1
66832	Vactor Inlet	1/27/23 13:29	Emerald Ct.	1
66812	Vactor Inlet	1/27/23 13:39	Emerald Ct.	1
66665	Vactor Inlet	1/30/23 13:21	Thornwood	1
66764	Vactor Inlet	1/30/23 13:42	Emerald Ct.	1
66791	Vactor Inlet	1/30/23 13:45	Emerald Ct.	1
66852	Vactor Inlet	1/31/23 10:19	Fillmore & Duke	1
66884	Vactor Inlet	1/31/23 10:27	Fillmore St.	1
66836	Vactor Inlet	1/31/23 11:13	Duke St.	1
66814	Vactor Inlet	1/31/23 11:19	Duke St.	1
66774	Vactor Inlet	2/1/23 13:18	Duke St.	1
66902	Vactor Inlet	2/1/23 13:27	Johnson	1
66872	Vactor Inlet	2/1/23 13:36	Hatton St.	1
66746	Vactor Inlet	2/2/23 11:42	26th	1
66771	Vactor Inlet	2/2/23 11:50	26th	1
66828	Vactor Inlet	2/2/23 12:05	Duke St.	1
66847	Vactor Inlet	2/2/23 12:13	Duke St.	1
66829	Vactor Inlet	2/2/23 12:18	Zenith St.	1
66846	Vactor Inlet	2/2/23 12:30	Zenith	1
66822	Vactor Inlet	2/7/23 9:50	Greewood	1
66770	Vactor Inlet	2/7/23 9:59	Greenwood	1
66801	Vactor Inlet	2/7/23 10:17	27th	1
66918	Vactor Inlet	2/7/23 10:21	27th	1
66747	Vactor Inlet	2/7/23 10:25	27th	1
66784	Vactor Inlet	2/7/23 10:51	Greenwood	1
66763	Vactor Inlet	2/7/23 10:54	Greenwood	1
66896	Vactor Inlet	2/9/23 13:01	24th & Berryhill	1
66738	Vactor Inlet	2/9/23 13:05	Berryhill	1
66880	Vactor Inlet	2/9/23 13:36	24th	1
66908	Vactor Inlet	2/9/23 13:40	24th	1
66779	Vactor Inlet	2/10/23 8:59	Central	1
66799	Vactor Inlet	2/10/23 9:04	Central	1
66818	Vactor Inlet	2/10/23 9:19	Central	1
66839	Vactor Inlet	2/10/23 9:36	Central	1
66759	Vactor Inlet	2/10/23 9:48	Central	1
66736	Vactor Inlet	2/10/23 10:22	Central	1
70394	Vactor Inlet	2/11/23 8:08	Walnut & Court	1
70296	Vactor Inlet	2/11/23 8:31	2nd St.	1
70429	Vactor Inlet	2/11/23 8:37	2nd St.	1
70381	Vactor Inlet	2/11/23 8:44	2nd St.	1
70240	Vactor Inlet	2/11/23 9:27	2nd St.	1
70287	Vactor Inlet	2/11/23 9:32	2nd St.	1
70106	Vactor Inlet	2/11/23 9:44	2nd St.	1
66889	Vactor Inlet	2/13/23 13:54	Alley behind Mercer	1
66805	Vactor Inlet	2/13/23 14:15	Barkley Lane	1
66827	Vactor Inlet	2/13/23 14:22	Barkley Lane	1
66786	Vactor Inlet	2/13/23 14:52	Barkley Lane	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
66749	Vactor Inlet	2/14/23 11:44	Alley between Harris Ter & Rudy Rd.	1
66765	Vactor Inlet	2/14/23 11:48	Alley between Harris Ter. & Rudy Rd.	1
66906	Vactor Inlet	2/14/23 11:59	Alley behind Rudy Alley behind Harris	1
66898	Vactor Inlet	2/14/23 12:13	Terrace	1
66883	Vactor Inlet	2/14/23 12:21	Alley behind Rudy Alley behind Harris	1
66870	Vactor Inlet	2/14/23 12:25	Terrace	1
70262	Vactor Inlet	2/15/23 12:52	Mulberry St	1
70181	Vactor Inlet	2/15/23 12:58	10th St.	1
70137	Vactor Inlet	2/15/23 12:59	10th St.	1
70024	Vactor Inlet	2/15/23 13:12	10th	1
70075	Vactor Inlet	2/15/23 13:41	Mulberry St.	1
70124	Vactor Inlet	2/15/23 13:56	Mulberry St.	1
70026	Vactor Inlet	2/15/23 14:47	10th	1
70402	Vactor Inlet	2/15/23 14:53	10th St.	1
70082	Vactor Inlet	2/15/23 15:02	10th St.	1
70442	Vactor Inlet	2/15/23 15:04	10th	1
70217	Vactor Inlet	2/16/23 8:48	Mulberry St.	1
66890	Vactor Inlet	2/16/23 11:31	Woodlawn	1
66865	Vactor Inlet	2/16/23 12:21	26th & Woodlawn	1
66748	Vactor Inlet	2/16/23 12:25	26th	1
70353	Vactor Inlet	2/18/23 9:07	Paxton St.	1
70398	Vactor Inlet	2/18/23 9:15	Paxton St.	1
70030	Vactor Inlet	2/18/23 9:39	Paxton St.	1
70085	Vactor Inlet	2/18/23 10:26	Paxton St.	1
70136	Vactor Inlet	2/18/23 10:41	2nd & Paxton	1
70183	Vactor Inlet	2/18/23 10:47	Paxton St.	1
70447	Vactor Inlet	2/18/23 11:23	2nd St.	1
70230	Vactor Inlet	2/18/23 11:35	2nd St.	1
70320	Vactor Inlet	2/18/23 11:42	2nd St.	1
70274	Vactor Inlet	2/18/23 11:50	2nd St.	1
70366	Vactor Inlet	2/18/23 12:05	2nd St.	1
70412	Vactor Inlet	2/18/23 12:13	2nd St.	1
70439	Vactor Inlet	2/19/23 9:10	Front St.	1
70231	Vactor Inlet	2/19/23 9:26	2nd St.	1
70272	Vactor Inlet	2/19/23 9:30	River & Vine	1
70160	Vactor Inlet	2/19/23 9:44	Vine St.	1
70208	Vactor Inlet	2/19/23 9:50	Vine St.	1
70254	Vactor Inlet	2/19/23 9:58	River	1
70182	Vactor Inlet	2/19/23 10:09	2nd St.	1
70390	Vactor Inlet	2/19/23 10:22	2nd & Washington	1
70135	Vactor Inlet	2/19/23 10:37	2nd & Mary	1
70294	Vactor Inlet	2/19/23 10:56	2nd St.	1
70158	Vactor Inlet	2/19/23 11:16	2nd St.	1
70250	Vactor Inlet	2/19/23 11:28	2nd St	1
70204	Vactor Inlet	2/19/23 11:47	2nd St.	1
66815	Vactor Inlet	2/21/23 9:42	Derry St.	1
66837	Vactor Inlet	2/21/23 10:02	Derry St.	1
66855	Vactor Inlet	2/21/23 10:08	Derry St.	1
66848	Vactor Inlet	2/21/23 10:17	26th & Derry	1
66787	Vactor Inlet	2/21/23 10:58	29th	1
66868	Vactor Inlet	2/21/23 11:09	29th	1
66920	Vactor Inlet	2/21/23 12:00	23rd	1
66904	Vactor Inlet	2/23/23 12:46	Hatton	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
66768	Vactor Inlet	2/23/23 12:58	Hatton	1
66894	Vactor Inlet	2/23/23 13:26	Alley off of Duke St.	1
66795	Vactor Inlet	2/23/23 13:40	Duke St.	1
66925	Vactor Inlet	2/23/23 13:45	Alley off Duke St.	1
66788	Vactor Inlet	2/24/23 9:13	Woodlawn	1
66841	Vactor Inlet	2/24/23 9:32	Woodlawn	1
66860	Vactor Inlet	2/24/23 9:41	Woodlawn	1
66881	Vactor Inlet	2/24/23 9:45	Woodlawn	1
66914	Vactor Inlet	2/24/23 9:52	Woodlawn	1
66897	Vactor Inlet	2/24/23 9:56	Woodlawn	1
66823	Vactor Inlet	2/24/23 10:40	Hatton	1
66845	Vactor Inlet	2/24/23 10:47	Hatton	1
66923	Vactor Inlet	2/24/23 11:13	Alley behind Adrian St.	1
66844	Vactor Inlet	2/24/23 11:41	Alley behind Mercer	1
70864	Vactor Inlet	2/24/23 14:02	Woodlawn & 26th	1
70865	Vactor Inlet	2/24/23 14:07	Woodlawn & 27th	1
70119	Vactor Inlet	2/26/23 9:06	Liberty & Buttonwood	1
70165	Vactor Inlet	2/26/23 9:12	Liberty & Buttonwood	1
70073	Vactor Inlet	2/26/23 9:24	2nd St.	1
70270	Vactor Inlet	2/26/23 9:35	Liberty & Church	1
70225	Vactor Inlet	2/26/23 9:42	Church & Liberty	1
70178	Vactor Inlet	2/26/23 9:52	Liberty & Willow	1
70132	Vactor Inlet	2/26/23 9:56	Liberty & Willow	1
70091	Vactor Inlet	2/26/23 10:05	Liberty & Willow	1
70405	Vactor Inlet	2/26/23 10:23	Liberty & Susquehanna	1
70360	Vactor Inlet	2/26/23 10:27	Liberty & Susquehanna	1
70001	Vactor Inlet	2/26/23 10:34	Liberty & Susquehanna	1
70414	Vactor Inlet	2/26/23 10:39	3rd & Liberty	1
70371	Vactor Inlet	2/26/23 10:45	3rd & Liberty	1
66901	Vactor Inlet	2/27/23 9:01	Fillmore	1
66743	Vactor Inlet	2/27/23 9:02	Fillmore	1
66775	Vactor Inlet	2/27/23 9:04	Alley between Duke & Brookwood	1
66793	Vactor Inlet	2/27/23 9:07	Aly off of Fillmore	1
66834	Vactor Inlet	2/27/23 9:08	Alley between Duke & Brookwood	1
66813	Vactor Inlet	2/27/23 9:10	Alley between Duke & Brookwood	1
66744	Vactor Inlet	2/27/23 9:22	Berryhill St.	1
66838	Vactor Inlet	2/27/23 9:40	Central St.	1
66892	Vactor Inlet	2/27/23 9:50	McCleaster	1
66766	Vactor Inlet	2/27/23 10:03	McCleaster	1
66666	Vactor Inlet	2/27/23 10:49	Briarcliff	1
66657	Vactor Inlet	2/27/23 11:01	25th St.	1
66711	Vactor Inlet	2/28/23 11:17	Pentwater	1
71004	Vactor Inlet	2/28/23 12:00	N 17th St & Miller St, Harrisburg, Pennsylvania, 17103	1
71016	Vactor Inlet	2/28/23 12:00	1626 Berryhill St, Harrisburg, Pennsylvania, 17104	1
70207	Vactor Inlet	2/28/23 12:00	Briggs	1
66713	Vactor Inlet	2/28/23 13:47	20th	1
66717	Vactor Inlet	3/1/23 13:17	Pentwater	1
53858	Vactor Inlet	3/2/23 11:03	Industrial Rd.	1
53862	Vactor Inlet	3/2/23 11:12	Industrial Rd.	1
53853	Vactor Inlet	3/2/23 11:24	Industrial Rd.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
53864	Vactor Inlet	3/2/23 11:40	Industrial Rd.	1
53850	Vactor Inlet	3/2/23 11:58	Industrial Rd.	1
53875	Vactor Inlet	3/2/23 12:18	Industrial Rd.	1
53870	Vactor Inlet	3/2/23 12:29	Industrial Rd.	1
66726	Vactor Inlet	3/2/23 12:55	Pentwater	1
70253	Vactor Inlet	3/3/23 8:23	Prince Aly	1
70279	Vactor Inlet	3/3/23 8:33	Briggs & Green	1
70130	Vactor Inlet	3/3/23 8:39	Briggs & Green	1
70040	Vactor Inlet	3/3/23 8:51	Briggs & Susquehanna	1
70088	Vactor Inlet	3/3/23 8:55	Briggs & Susquehanna	1
70401	Vactor Inlet	3/3/23 9:04	Briggs & Susquehanna	1
70000	Vactor Inlet	3/3/23 9:09	Briggs & Susquehanna	1
70409	Vactor Inlet	3/6/23 8:55	Market St.	1
70363	Vactor Inlet	3/6/23 9:04	10th & Market	1
70445	Vactor Inlet	3/6/23 9:06	Market St.	1
70228	Vactor Inlet	3/6/23 9:14	10th & Market	1
70317	Vactor Inlet	3/6/23 9:17	10th & Market	1
70273	Vactor Inlet	3/6/23 9:25	Market & 10th	1
70380	Vactor Inlet	3/6/23 9:38	10th St.	1
70424	Vactor Inlet	3/6/23 9:43	Walnut St.	1
70337	Vactor Inlet	3/6/23 9:43	10th St.	1
70021	Vactor Inlet	3/6/23 9:49	10th & Walnut St.	1
70071	Vactor Inlet	3/6/23 9:51	10th & Walnut	1
70167	Vactor Inlet	3/6/23 9:59	10th & Walnut	1
70120	Vactor Inlet	3/6/23 9:59	10th & Walnut	1
70338	Vactor Inlet	3/6/23 10:10	Walnut St.	1
70387	Vactor Inlet	3/6/23 10:16	Walnut St.	1
70443	Vactor Inlet	3/6/23 10:26	Walnut St.	1
70039	Vactor Inlet	3/6/23 10:30	Walnut	1
66655	Vactor Inlet	3/6/23 11:43	Vineyard	1
66745	Vactor Inlet	3/6/23 12:10	23rd	1
68208	Vactor Inlet	3/6/23 12:22	Greenwood	1
66769	Vactor Inlet	3/7/23 8:28	Aly behind Rudy Rd.	1
66789	Vactor Inlet	3/7/23 8:51	Ally off of Hale Ave.	1
66807	Vactor Inlet	3/7/23 9:03	Central St.	1
66826	Vactor Inlet	3/7/23 9:08	Central St.	1
66780	Vactor Inlet	3/7/23 9:25	Central	1
66804	Vactor Inlet	3/7/23 9:40	Central Alley	1
66796	Vactor Inlet	3/7/23 9:54	Central Alley	1
66857	Vactor Inlet	3/7/23 10:42	McCleaster	1
66878	Vactor Inlet	3/7/23 10:48	McCleaster	1
66785	Vactor Inlet	3/7/23 10:55	McCleaster	1
70251	Vactor Inlet	3/8/23 13:21	Commonwealth Ave	1
70213	Vactor Inlet	3/8/23 13:25	Commonwealth Ave.	1
70112	Vactor Inlet	3/8/23 13:29	North St.	1
			Commonwealth &	
70327	Vactor Inlet	3/8/23 13:32	North	1
70064	Vactor Inlet	3/8/23 13:49	Commonwealth Ave	1
66915	Vactor Inlet	3/9/23 7:59	McCleaster	1
66752	Vactor Inlet	3/9/23 7:59	McCleaster	1
66899	Vactor Inlet	3/9/23 8:28	Burma	1
66917	Vactor Inlet	3/9/23 8:50	Burma St.	1
66913	Vactor Inlet	3/9/23 9:25	Alley behind Adrian	1
66750	Vactor Inlet	3/9/23 9:42	Alley 25th	1
66753	Vactor Inlet	3/9/23 10:13	Johnson St.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
71091	Vactor Inlet	3/9/23 14:16	S 18th St & Zarker St, Harrisburg, Pennsylvania, 17104	1
69773	Vactor Inlet	3/9/23 14:18	Whitehall and Taylor Blvd	1
68716	Vactor Inlet	3/9/23 14:20	S 19th St & Kensington St, Harrisburg, Pennsylvania, 17104	1
70105	Vactor Inlet	3/10/23 8:52	State St.	1
70103	Vactor Inlet	3/10/23 8:58	State St.	1
70152	Vactor Inlet	3/10/23 8:59	State St.	1
70199	Vactor Inlet	3/10/23 9:03	State St.	1
70151	Vactor Inlet	3/10/23 9:07	State St.	1
70246	Vactor Inlet	3/10/23 9:11	State St.	1
70198	Vactor Inlet	3/10/23 9:16	State St.	1
70245	Vactor Inlet	3/10/23 9:22	State St.	1
70341	Vactor Inlet	3/10/23 9:35	State St.	1
70289	Vactor Inlet	3/10/23 9:37	State St	1
70384	Vactor Inlet	3/10/23 9:43	State St.	1
70288	Vactor Inlet	3/10/23 9:48	State St.	1
70334	Vactor Inlet	3/10/23 9:58	State St.	1
70383	Vactor Inlet	3/10/23 10:14	State St.	1
70427	Vactor Inlet	3/11/23 8:32	State St.	1
70431	Vactor Inlet	3/11/23 8:45	State St.	1
70458	Vactor Inlet	3/11/23 8:48	State St.	1
70052	Vactor Inlet	3/11/23 8:50	State St.	1
70098	Vactor Inlet	3/11/23 8:53	State St.	1
70145	Vactor Inlet	3/11/23 8:56	Mulberry	1
70459	Vactor Inlet	3/11/23 8:59	State St.	1
70192	Vactor Inlet	3/11/23 9:02	State St.	1
70147	Vactor Inlet	3/11/23 9:46	Mulberry	1
70216	Vactor Inlet	3/11/23 9:54	Mulberry & Chestnut	1
70170	Vactor Inlet	3/11/23 10:02	Mulberry	1
70123	Vactor Inlet	3/11/23 10:10	Chestnut St.	1
70077	Vactor Inlet	3/11/23 10:20	Chestnut	1
70236	Vactor Inlet	3/12/23 7:47	State St.	1
70281	Vactor Inlet	3/12/23 7:51	State St.	1
70051	Vactor Inlet	3/12/23 7:54	State St.	1
70325	Vactor Inlet	3/12/23 7:57	State St.	1
70109	Vactor Inlet	3/12/23 8:27	2nd St.	1
70055	Vactor Inlet	3/12/23 9:02	3rd & Chestnut	1
70172	Vactor Inlet	3/12/23 9:13	Chestnut St.	1
70048	Vactor Inlet	3/12/23 9:25	3rd St.	1
70219	Vactor Inlet	3/12/23 10:26	Chestnut St.	1
59787	Vactor Inlet	3/13/23 8:54	7th	1
59680	Vactor Inlet	3/13/23 9:12	Forster St.	1
59780	Vactor Inlet	3/13/23 9:13	7th	1
59712	Vactor Inlet	3/13/23 9:23	Forster	1
59615	Vactor Inlet	3/13/23 9:32	Forster	1
59536	Vactor Inlet	3/13/23 9:39	Forster	1
59819	Vactor Inlet	3/13/23 9:53	7th	1
69998	Vactor Inlet	3/13/23 10:05	7h St.	1
70290	Vactor Inlet	3/13/23 10:06	7th St.	1
70101	Vactor Inlet	3/13/23 10:12	7th St.	1
70218	Vactor Inlet	3/13/23 10:18	7th St.	1
70206	Vactor Inlet	3/13/23 10:40	Commonwealth & Forster	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
59554	Vactor Inlet	3/13/23 10:42	Forster	1
70452	Vactor Inlet	3/13/23 10:51	Off Forster St.	1
70079	Vactor Inlet	3/13/23 10:51	off Forster St.	1
70017	Vactor Inlet	3/13/23 10:57	7th St.	1
70263	Vactor Inlet	3/13/23 11:30	Mulberry	1
70232	Vactor Inlet	3/14/23 9:08	Cameron St.	1
70185	Vactor Inlet	3/14/23 9:49	Cameron St.	1
70138	Vactor Inlet	3/14/23 9:57	Cameron St.	1
70404	Vactor Inlet	3/14/23 10:06	Cameron St.	1
70080	Vactor Inlet	3/14/23 10:32	Cameron & Walnut	1
70358	Vactor Inlet	3/14/23 10:40	Cameron St.	1
70312	Vactor Inlet	3/14/23 10:45	Market St.	1
70265	Vactor Inlet	3/14/23 10:50	Cameron St.	1
70276	Vactor Inlet	3/14/23 10:55	Cameron St.	1
70321	Vactor Inlet	3/14/23 11:06	Cameron St.	1
70415	Vactor Inlet	3/14/23 11:08	Cameron St.	1
70368	Vactor Inlet	3/14/23 11:15	Cameron St.	1
70421	Vactor Inlet	3/14/23 11:22	Off Cameron St.	1
70163	Vactor Inlet	3/14/23 11:45	Market St.	1
70393	Vactor Inlet	3/14/23 11:52	Market St.	1
70029	Vactor Inlet	3/14/23 11:56	Market & 5th	1
70437	Vactor Inlet	3/14/23 11:57	Market St.	1
70303	Vactor Inlet	3/14/23 12:05	Market St.	1
70347	Vactor Inlet	3/14/23 12:08	Market St.	1
70392	Vactor Inlet	3/14/23 12:14	Market St.	1
70116	Vactor Inlet	3/16/23 9:48	Market St.	1
70195	Vactor Inlet	3/16/23 10:08	Market St.	1
70241	Vactor Inlet	3/16/23 10:12	Market St.	1
70301	Vactor Inlet	3/16/23 10:21	Market St.	1
70256	Vactor Inlet	3/16/23 10:25	Market St.	1
70348	Vactor Inlet	3/16/23 10:40	Market St.	1
70210	Vactor Inlet	3/16/23 10:49	Market St.	1
69965	Vactor Inlet	3/17/23 7:32	S 13th St & Hanover St, Harrisburg, Pennsylvania, 17104	1
70468	Vactor Inlet	3/17/23 8:39	South 15th and Berryhill Street	1
70346	Vactor Inlet	3/17/23 9:27	State St.	1
70302	Vactor Inlet	3/17/23 10:36	State St.	1
70209	Vactor Inlet	3/17/23 10:53	State St.	1
70162	Vactor Inlet	3/17/23 11:26	State St.	1
70264	Vactor Inlet	3/17/23 11:56	7th St	1
70310	Vactor Inlet	3/17/23 12:16	7th St.	1
70356	Vactor Inlet	3/17/23 12:23	7th St.	1
70168	Vactor Inlet	3/17/23 12:34	7th	1
70060	Vactor Inlet	3/17/23 12:42	7th St.	1
59746	Vactor Inlet	3/17/23 12:47	Forster	1
70180	Vactor Inlet	3/18/23 9:31	Commonwealth Ave.	1
70400	Vactor Inlet	3/18/23 9:36	North Dr.	1
70023	Vactor Inlet	3/18/23 9:40	North Drive	1
70131	Vactor Inlet	3/18/23 9:48	North Drive	1
70315	Vactor Inlet	3/18/23 11:31	Walnut St.	1
70269	Vactor Inlet	3/18/23 11:32	Commonwealth Ave	1
70419	Vactor Inlet	3/18/23 11:45	North Dr.	1
70307	Vactor Inlet	3/18/23 11:48	Commonwealth Ave.	1
70227	Vactor Inlet	3/18/23 11:53	7th St.	1
70179	Vactor Inlet	3/18/23 11:55	North Dr.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
71746	Vactor Inlet	3/18/23 12:00	Commonwealth & North Drive	1
70118	Vactor Inlet	3/18/23 12:03	7th St.	1
70259	Vactor Inlet	3/18/23 12:05	Commonwealth Ave.	1
70193	Vactor Inlet	3/18/23 12:13	North St.	1
70243	Vactor Inlet	3/18/23 12:17	North St.	1
70133	Vactor Inlet	3/18/23 12:20	Commonwealth Ave	1
70291	Vactor Inlet	3/18/23 12:21	North St.	1
70339	Vactor Inlet	3/18/23 12:30	North St.	1
70226	Vactor Inlet	3/18/23 12:32	Commonwealth Ave.	1
70386	Vactor Inlet	3/18/23 12:37	North St.	1
69999	Vactor Inlet	3/19/23 9:01	North St.	1
70031	Vactor Inlet	3/19/23 9:09	North St.	1
70074	Vactor Inlet	3/19/23 9:18	North St.	1
70045	Vactor Inlet	3/19/23 9:37	5th & Walnut	1
70444	Vactor Inlet	3/19/23 9:46	5th & Walnut	1
70361	Vactor Inlet	3/19/23 9:59	Walnut	1
70407	Vactor Inlet	3/19/23 10:04	7th	1
70438	Vactor Inlet	3/19/23 10:12	7th St.	1
70022	Vactor Inlet	3/19/23 10:27	7thSt.	1
70333	Vactor Inlet	3/20/23 10:12	Dewberry	1
70286	Vactor Inlet	3/20/23 10:15	Dewberry	1
70242	Vactor Inlet	3/20/23 10:18	Mulberry Place	1
70196	Vactor Inlet	3/20/23 10:27	Mulberry Place	1
70104	Vactor Inlet	3/20/23 10:34	Mulberry Place	1
70148	Vactor Inlet	3/20/23 10:37	3rd St.	1
70057	Vactor Inlet	3/20/23 10:43	156 3rd St.	1
70435	Vactor Inlet	3/20/23 11:05	Chestnut St.	1
70460	Vactor Inlet	3/20/23 11:17	Mulberry St.	1
70282	Vactor Inlet	3/21/23 12:34	7th St.	1
70146	Vactor Inlet	3/21/23 13:25	7th St.	1
44084	Vactor Inlet	3/22/23 13:48	Brookwood	1
44350	Vactor Inlet	3/22/23 14:04	Brookwood	1
70235	Vactor Inlet	3/25/23 8:49	2nd & chestnut	1
70280	Vactor Inlet	3/25/23 8:55	Chestnut St.	1
70188	Vactor Inlet	3/25/23 9:11	2nd & Chestnut	1
70140	Vactor Inlet	3/25/23 9:17	2nd & Chestnut	1
70399	Vactor Inlet	3/25/23 9:25	Chestnut St.	1
70065	Vactor Inlet	3/25/23 9:37	River Aly	1
70440	Vactor Inlet	3/25/23 9:48	Chestnut St.	1
70025	Vactor Inlet	3/25/23 9:52	River Aly	1
70117	Vactor Inlet	3/25/23 10:16	Front & Chestnut	1
70114	Vactor Inlet	3/25/23 10:31	Front & Mary	1
70434	Vactor Inlet	3/25/23 10:33	Mary St.	1
70308	Vactor Inlet	3/31/23 8:15	Mulberry St.	1
70239	Vactor Inlet	3/31/23 8:32	4th St.	1
70285	Vactor Inlet	3/31/23 8:38	4th St.	1
70211	Vactor Inlet	4/1/23 8:54	5th & Strawberry	1
70257	Vactor Inlet	4/1/23 8:58	5th & Strawberry	1
70397	Vactor Inlet	4/1/23 9:21	Walnut St.	1
70011	Vactor Inlet	4/1/23 9:26	Aberdeen	1
70184	Vactor Inlet	4/1/23 9:35	Aberdeen & Strawberry	1
70378	Vactor Inlet	4/1/23 9:48	Aberdeen	1
70423	Vactor Inlet	4/1/23 9:57	Aberdeen	1
70050	Vactor Inlet	4/1/23 10:04	Market St.	1
70115	Vactor Inlet	4/1/23 10:14	Market St.	1
70067	Vactor Inlet	4/1/23 10:34	5th & Market	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
70164	Vactor Inlet	4/1/23 10:48	Market St.	1
70110	Vactor Inlet	4/2/23 8:56	Commonwealth Ave.	1
70053	Vactor Inlet	4/2/23 9:10	North St.	1
			Commonwealth &	
70205	Vactor Inlet	4/2/23 9:14	North	1
70159	Vactor Inlet	4/2/23 9:29	North St.	1
70292	Vactor Inlet	4/2/23 9:42	North St.	1
70252	Vactor Inlet	4/2/23 9:53	North St.	1
70298	Vactor Inlet	4/2/23 10:01	North St.	1
70244	Vactor Inlet	4/2/23 10:07	North St.	1
70197	Vactor Inlet	4/2/23 10:13	North St.	1
70175	Vactor Inlet	4/2/23 10:29	North & Willow	1
70313	Vactor Inlet	4/2/23 10:39	North	1
70221	Vactor Inlet	4/2/23 10:51	Green & North	1
70267	Vactor Inlet	4/2/23 10:54	Green & North	1
70299	Vactor Inlet	4/4/23 10:52	North & Church	1
70345	Vactor Inlet	4/4/23 11:02	North & Prince Aly	1
70004	Vactor Inlet	4/4/23 11:25	North & Cedar St.	1
70351	Vactor Inlet	4/4/23 11:52	Front & North	1
70305	Vactor Inlet	4/4/23 12:03	Front & North	1
72161	Vactor Inlet	4/6/23 9:18	Derry St.	1
72031	Vactor Inlet	4/6/23 9:47	Derry St.	1
72104	Vactor Inlet	4/6/23 9:52	18th	1
72057	Vactor Inlet	4/6/23 10:20	Derry St.	1
72244	Vactor Inlet	4/6/23 10:29	Derry	1
72269	Vactor Inlet	4/6/23 10:47	Swatara	1
72251	Vactor Inlet	4/6/23 10:55	Swatara	1
72271	Vactor Inlet	4/6/23 11:06	18th & Derry	1
72258	Vactor Inlet	4/6/23 11:09	18th & Derry	1
72208	Vactor Inlet	4/6/23 11:16	Derry	1
70097	Vactor Inlet	4/9/23 8:49	2nd & Chestnut	1
70155	Vactor Inlet	4/9/23 8:59	2nd St.	1
70202	Vactor Inlet	4/9/23 9:15	2nd St.	1
70111	Vactor Inlet	4/9/23 9:26	2nd St.	1
70249	Vactor Inlet	4/9/23 9:48	2nd & Market	1
70375	Vactor Inlet	4/9/23 10:02	Market St.	1
70295	Vactor Inlet	4/9/23 10:09	Market St.	1
70336	Vactor Inlet	4/9/23 10:18	2nd & Market	1
70382	Vactor Inlet	4/9/23 10:28	2nd St.	1
70436	Vactor Inlet	4/9/23 10:53	2nd St.	1
72033	Vactor Inlet	4/10/23 10:04	18th St.	1
72025	Vactor Inlet	4/10/23 10:10	18th & Rudy	1
72080	Vactor Inlet	4/10/23 10:18	18th & Rudy	1
72112	Vactor Inlet	4/10/23 10:23	18th & Rudy	1
71998	Vactor Inlet	4/10/23 10:25	18th & Rudy	1
72103	Vactor Inlet	4/10/23 10:35	Spencer & 18th	1
72146	Vactor Inlet	4/10/23 10:48	18th & Holly	1
72106	Vactor Inlet	4/10/23 10:54	18th & Holly	1
72247	Vactor Inlet	4/10/23 11:01	18th & Holly	1
72085	Vactor Inlet	4/10/23 11:14	18th & Mulberry	1
72034	Vactor Inlet	4/10/23 11:30	18th & Mulberry	1
72003	Vactor Inlet	4/10/23 11:47	18th & Mulberry	1
72265	Vactor Inlet	4/11/23 9:09	18th & Cathedral	1
72144	Vactor Inlet	4/11/23 9:22	18th & Bellevue	1
72236	Vactor Inlet	4/11/23 10:57	18th	1
72245	Vactor Inlet	4/11/23 11:01	18th & Bellevue	1
72210	Vactor Inlet	4/11/23 11:40	Chestnut	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
72162	Vactor Inlet	4/13/23 9:58	Mulberry St.	1
72228	Vactor Inlet	4/13/23 10:07	Mulberry St.	1
72084	Vactor Inlet	4/13/23 11:59	Mulberry St.	1
72159	Vactor Inlet	4/13/23 12:10	Mulberry St.	1
71999	Vactor Inlet	4/13/23 12:29	Chestnut St.	1
72158	Vactor Inlet	4/13/23 12:41	18th St.	1
70385	Vactor Inlet	4/15/23 8:11	Blackberry St.	1
70016	Vactor Inlet	4/15/23 8:20	Market St.	1
70063	Vactor Inlet	4/15/23 8:25	2nd & Market	1
70166	Vactor Inlet	4/15/23 8:36	2nd & Strawberry	1
70153	Vactor Inlet	4/15/23 8:53	2nd St.	1
70100	Vactor Inlet	4/15/23 8:59	2nd St.	1
70342	Vactor Inlet	4/15/23 9:10	2nd St.	1
70200	Vactor Inlet	4/15/23 9:19	2nd St.	1
70121	Vactor Inlet	4/15/23 9:26	Walnut	1
70247	Vactor Inlet	4/15/23 9:35	2nd St.	1
70013	Vactor Inlet	4/15/23 9:51	2nd & Locust	1
72108	Vactor Inlet	4/17/23 12:25	Chestnut	1
72145	Vactor Inlet	4/17/23 12:41	Chestnut	1
72120	Vactor Inlet	4/17/23 13:26	Chestnut	1
72538	Vactor Inlet	4/17/23 14:31	2nd St.	1
72141	Vactor Inlet	4/18/23 10:11	Chestnut	1
72148	Vactor Inlet	4/18/23 10:30	Chestnut	1
72092	Vactor Inlet	4/18/23 10:42	Chestnut	1
72082	Vactor Inlet	4/18/23 11:05	19th & Bellevue	1
72205	Vactor Inlet	4/18/23 11:15	19th	1
72022	Vactor Inlet	4/18/23 11:20	Bellevue Rd.	1
72183	Vactor Inlet	4/18/23 11:37	Bellevue & 19th	1
72571	Vactor Inlet	4/18/23 12:00	DAISY ST & REESE ST, HARRISBURG, PENNSYLVANIA, 17104	1
72242	Vactor Inlet	4/24/23 13:50	Mulberry & 19th	1
72224	Vactor Inlet	4/24/23 13:57	Derry & 19th	1
72001	Vactor Inlet	4/25/23 9:02	19th	1
72257	Vactor Inlet	4/25/23 9:08	19th & Kelly	1
72211	Vactor Inlet	4/25/23 9:25	19th & Holly	1
72233	Vactor Inlet	4/25/23 9:32	19th & Holly	1
72239	Vactor Inlet	4/25/23 9:39	Holly St.	1
72121	Vactor Inlet	4/25/23 10:15	19th & Darlington Aly	1
72100	Vactor Inlet	4/25/23 10:24	19th & Darlington	1
72122	Vactor Inlet	4/25/23 10:28	19th & Darlington Aly	1
72154	Vactor Inlet	4/25/23 10:40	19th & Spencer	1
72184	Vactor Inlet	4/25/23 11:00	19th & Spencer	1
72206	Vactor Inlet	4/25/23 11:24	19th & Rudy	1
72223	Vactor Inlet	4/25/23 11:39	19th & Rudy	1
71989	Vactor Inlet	4/27/23 9:10	20th	1
72048	Vactor Inlet	4/27/23 9:14	20th	1
72067	Vactor Inlet	4/27/23 9:39	Derry St.	1
72118	Vactor Inlet	4/27/23 9:57	Derry St.	1
72138	Vactor Inlet	4/27/23 10:26	20th	1
72189	Vactor Inlet	4/27/23 10:28	20th	1
72219	Vactor Inlet	4/27/23 11:55	20th & Beaver	1
72253	Vactor Inlet	4/27/23 12:08	20th	1
72095	Vactor Inlet	4/27/23 12:49	Derry St.	1
72143	Vactor Inlet	4/27/23 12:55	Derry St.	1
70054	Vactor Inlet	4/29/23 9:11	Walnut St.	1
70271	Vactor Inlet	4/29/23 9:23	4th St.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
70316	Vactor Inlet	4/29/23 9:26	4th St.	1
70408	Vactor Inlet	4/29/23 9:47	Walnut St.	1
70362	Vactor Inlet	4/29/23 9:59	Walnut St.	1
70238	Vactor Inlet	4/29/23 10:22	3rd St.	1
70187	Vactor Inlet	4/29/23 10:29	3rd St.	1
70376	Vactor Inlet	4/29/23 10:44	3rd St.	1
70422	Vactor Inlet	4/29/23 10:50	3rd St.	1
70330	Vactor Inlet	4/29/23 10:58	3rd St.	1
70448	Vactor Inlet	4/29/23 11:13	3rd St.	1
72041	Vactor Inlet	5/2/23 12:04	Yale & Holly	1
72083	Vactor Inlet	5/2/23 12:08	Darlington Aly	1
72065	Vactor Inlet	5/2/23 12:20	Burchfield & Spencer	1
72182	Vactor Inlet	5/2/23 12:26	Burchfield & Spencer	1
72259	Vactor Inlet	5/2/23 12:37	Rudy Rd.	1
72078	Vactor Inlet	5/2/23 12:40	Rudy Rd.	1
72262	Vactor Inlet	5/2/23 12:59	Swatara St.	1
72248	Vactor Inlet	5/2/23 13:05	Swatara St.	1
72037	Vactor Inlet	5/2/23 13:26	Swatara	1
71994	Vactor Inlet	5/2/23 13:32	Swatara	1
70278	Vactor Inlet	5/2/23 15:19	2nd & Barbara	1
70233	Vactor Inlet	5/2/23 15:24	2nd & Barbara	1
70186	Vactor Inlet	5/2/23 15:38	2nd & Barbara	1
70139	Vactor Inlet	5/2/23 15:47	2nd St.	1
70099	Vactor Inlet	5/2/23 15:56	2nd St.	1
70433	Vactor Inlet	5/2/23 16:09	South St.	1
70122	Vactor Inlet	5/2/23 16:16	South St.	1
70364	Vactor Inlet	5/2/23 16:40	3rd & South	1
72026	Vactor Inlet	5/4/23 9:42	Berryhill	1
72000	Vactor Inlet	5/4/23 9:52	Berryhill	1
72243	Vactor Inlet	5/4/23 10:05	Berryhill	1
72198	Vactor Inlet	5/4/23 10:07	21st	1
72222	Vactor Inlet	5/4/23 10:19	Berryhill	1
72267	Vactor Inlet	5/4/23 10:25	Berryhill	1
72264	Vactor Inlet	5/4/23 10:28	Kensington St.	1
72249	Vactor Inlet	5/4/23 10:36	Kensington	1
72261	Vactor Inlet	5/4/23 10:38	Ruby St.	1
72212	Vactor Inlet	5/4/23 10:53	Kensington & Ruby	1
72229	Vactor Inlet	5/4/23 10:54	Kensington & Ruby	1
72050	Vactor Inlet	5/4/23 13:36	Dunkle	1
72069	Vactor Inlet	5/4/23 13:53	Dunkle	1
70215	Vactor Inlet	5/4/23 15:36	Pine & 3rd	1
70455	Vactor Inlet	5/4/23 15:44	3rd & Pine	1
70261	Vactor Inlet	5/4/23 16:01	Court & Pine	1
70306	Vactor Inlet	5/4/23 16:01	Court & Pine	1
70149	Vactor Inlet	5/4/23 16:30	Pine St.	1
70058	Vactor Inlet	5/4/23 16:35	Pine & River Aly	1
70370	Vactor Inlet	5/4/23 16:43	Pine St.	1
70416	Vactor Inlet	5/4/23 16:48	Pine St.	1
71961	Vactor Inlet	5/5/23 9:35	Rudy Rd.	1
71942	Vactor Inlet	5/5/23 9:39	Rudy Rd.	1
71996	Vactor Inlet	5/5/23 9:52	22nd	1
72047	Vactor Inlet	5/5/23 9:59	22nd	1
71987	Vactor Inlet	5/5/23 10:06	McCleaster	1
72268	Vactor Inlet	5/5/23 10:13	22nd	1
72252	Vactor Inlet	5/5/23 10:23	22nd	1
72181	Vactor Inlet	5/5/23 10:27	22nd	1
72195	Vactor Inlet	5/5/23 10:31	22nd	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
72124	Vactor Inlet	5/5/23 11:07	Kensington	1
72116	Vactor Inlet	5/5/23 11:15	Kensington	1
69997	Vactor Inlet	5/5/23 15:35	Commonwealth Ave.	1
70020	Vactor Inlet	5/5/23 15:42	Commonwealth Ave.	1
70297	Vactor Inlet	5/5/23 15:56	Commonwealth Ave.	1
70081	Vactor Inlet	5/5/23 16:07	Commonwealth Ave.	1
70352	Vactor Inlet	5/5/23 16:18	Commonwealth Ave.	1
70127	Vactor Inlet	5/5/23 16:39	River Aly & Cranberry	1
70090	Vactor Inlet	5/5/23 16:54	Locust & River Aly	1
70047	Vactor Inlet	5/5/23 17:04	Locust & River Aly	1
70102	Vactor Inlet	5/6/23 9:00	2nd St.	1
70194	Vactor Inlet	5/6/23 9:21	2nd & Cranberry	1
70328	Vactor Inlet	5/6/23 9:35	2nd & Pine	1
70095	Vactor Inlet	5/6/23 9:50	2nd St.	1
70002	Vactor Inlet	5/6/23 10:02	State St.	1
70411	Vactor Inlet	5/6/23 10:11	State St.	1
70076	Vactor Inlet	5/6/23 10:20	State St.	1
70034	Vactor Inlet	5/6/23 10:26	State St.	1
70032	Vactor Inlet	5/6/23 10:38	2nd St.	1
70391	Vactor Inlet	5/6/23 10:48	2nd St.	1
70161	Vactor Inlet	5/6/23 11:00	2nd St.	1
70113	Vactor Inlet	5/6/23 11:12	2nd & Briggs	1
70062	Vactor Inlet	5/7/23 8:52	Market St.	1
70108	Vactor Inlet	5/7/23 9:07	Market St.	1
70018	Vactor Inlet	5/7/23 9:25	River Aly	1
70430	Vactor Inlet	5/7/23 9:29	River Aly	1
70008	Vactor Inlet	5/7/23 9:46	Court St.	1
70450	Vactor Inlet	5/7/23 10:16	Market St.	1
70417	Vactor Inlet	5/7/23 10:24	Market St.	1
72113	Vactor Inlet	5/8/23 8:56	20th	1
72132	Vactor Inlet	5/8/23 9:04	20th	1
72186	Vactor Inlet	5/8/23 9:41	Rudy Rd.	1
72266	Vactor Inlet	5/8/23 9:58	20th & Austin St.	1
72270	Vactor Inlet	5/8/23 10:21	20th & Austin St.	1
71990	Vactor Inlet	5/8/23 11:16	Swatara St.	1
72028	Vactor Inlet	5/8/23 11:24	Rowland School	1
72066	Vactor Inlet	5/8/23 11:29	19th St.	1
71997	Vactor Inlet	5/8/23 11:38	19th & Kensington	1
72238	Vactor Inlet	5/8/23 13:29	20th & Zarker	1
72256	Vactor Inlet	5/8/23 13:46	19th & Zarker	1
71988	Vactor Inlet	5/8/23 14:09	19th	1
72240	Vactor Inlet	5/8/23 14:27	Zarker	1
70126	Vactor Inlet	5/8/23 16:14	Court St.	1
70086	Vactor Inlet	5/8/23 16:21	Court St.	1
70037	Vactor Inlet	5/8/23 16:22	Blackberry	1
70340	Vactor Inlet	5/8/23 16:26	Blackberry	1
70222	Vactor Inlet	5/8/23 16:43	Blackberry	1
70268	Vactor Inlet	5/8/23 16:54	Blackberry	1
70314	Vactor Inlet	5/8/23 16:56	3rd St.	1
72998	Vactor Inlet	5/9/23 9:45	29th & Derry	1
72225	Vactor Inlet	5/9/23 10:04	Derry St.	1
72179	Vactor Inlet	5/9/23 10:14	Derry St.	1
72045	Vactor Inlet	5/9/23 10:35	Derry St.	1
72173	Vactor Inlet	5/12/23 11:01	18th & Zarker	1
72200	Vactor Inlet	5/12/23 11:21	18th & Zarker	1
72227	Vactor Inlet	5/12/23 11:42	18th & Zarker	1
72263	Vactor Inlet	5/12/23 12:24	Holly St.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
72272	Vactor Inlet	5/12/23 12:51	Holly St.	1
70234	Vactor Inlet	5/13/23 8:18	3rd & Locust	1
70283	Vactor Inlet	5/13/23 8:50	3rd St.	1
70173	Vactor Inlet	5/13/23 9:21	3rd St.	1
70355	Vactor Inlet	5/13/23 10:36	Commonwealth Ave.	1
70441	Vactor Inlet	5/13/23 10:49	Commonwealth Ave	1
73422	Vactor Inlet	5/15/23 15:03	Walnut St.	1
70319	Vactor Inlet	5/16/23 15:34	3rd & South	1
70012	Vactor Inlet	5/16/23 15:44	Pine & River Aly	1
70224	Vactor Inlet	5/16/23 16:01	3rd St.	1
			Susquehanna & Oliver	
70373	Vactor Inlet	5/16/23 16:18	Aly	1
			Susquehanna & Oliver	
70329	Vactor Inlet	5/16/23 16:22	Aly	1
70190	Vactor Inlet	5/16/23 16:31	Dubbs & Susquehanna	1
70143	Vactor Inlet	5/16/23 16:34	Dubbs & Susquehanna	1
70237	Vactor Inlet	5/16/23 16:38	Dubbs & Susquehanna	1
70453	Vactor Inlet	5/17/23 15:59	Forster	1
70005	Vactor Inlet	5/17/23 16:08	Forster	1
70125	Vactor Inlet	5/17/23 16:25	Forster	1
70003	Vactor Inlet	5/17/23 16:36	Forster & Susquehanna	1
70078	Vactor Inlet	5/17/23 16:40	Forster & Susquehanna	1
59773	Vactor Inlet	5/17/23 16:55	Forster	1
59648	Vactor Inlet	5/17/23 17:05	Forster	1
73653	Vactor Inlet	5/19/23 8:50	Derry & Kittatinny	1
			Kittatinny &	
73618	Vactor Inlet	5/19/23 9:18	Drummond	1
73612	Vactor Inlet	5/19/23 9:26	Drummond	1
73636	Vactor Inlet	5/19/23 9:37	Drummond	1
			Drummond &	
73631	Vactor Inlet	5/19/23 9:39	Kittatinny	1
73651	Vactor Inlet	5/19/23 10:00	14th & Kittatinny	1
73703	Vactor Inlet	5/19/23 10:06	14th & Kittatinny	1
73486	Vactor Inlet	5/19/23 10:19	14th & Kittatinny	1
73558	Vactor Inlet	5/19/23 11:01	14th St.	1
70177	Vactor Inlet	5/20/23 9:13	Market St.	1
70129	Vactor Inlet	5/20/23 9:16	Market St.	1
70087	Vactor Inlet	5/20/23 9:21	Market & Dewberry	1
70144	Vactor Inlet	5/20/23 9:30	Market St.	1
70191	Vactor Inlet	5/20/23 9:35	Market St.	1
70331	Vactor Inlet	5/20/23 9:44	Market St.	1
70377	Vactor Inlet	5/20/23 9:49	Market St.	1
70454	Vactor Inlet	5/20/23 9:58	Market St.	1
70096	Vactor Inlet	5/20/23 10:42	Chestnut St.	1
70028	Vactor Inlet	5/20/23 10:47	Chestnut St.	1
70388	Vactor Inlet	5/21/23 8:33	Walnut & River Aly	1
70432	Vactor Inlet	5/21/23 8:42	Walnut & River Aly	1
70284	Vactor Inlet	5/21/23 8:52	River Aly	1
70015	Vactor Inlet	5/21/23 9:07	Walnut St.	1
70072	Vactor Inlet	5/21/23 9:12	Walnut St.	1
70201	Vactor Inlet	5/21/23 9:30	River Aly	1
70154	Vactor Inlet	5/21/23 9:35	River Aly	1
70019	Vactor Inlet	5/21/23 9:49	River Aly	1
70061	Vactor Inlet	5/21/23 10:02	River Aly & Blackberry	1
70212	Vactor Inlet	5/21/23 10:26	Strawberry	1
70258	Vactor Inlet	5/21/23 10:33	Strawberry	1
70304	Vactor Inlet	5/21/23 10:44	3rd St.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
70349	Vactor Inlet	5/21/23 10:48	3rd St.	1
72072	Vactor Inlet	5/22/23 9:10	Fair St.	1
72142	Vactor Inlet	5/22/23 9:26	Girard St.	1
72096	Vactor Inlet	5/22/23 9:38	Girard St.	1
72207	Vactor Inlet	5/22/23 9:56	Brookwood & Melrose	1
72220	Vactor Inlet	5/22/23 10:13	Mercer St.	1
72135	Vactor Inlet	5/22/23 10:34	Burma	1
72246	Vactor Inlet	5/22/23 10:47	Melrose	1
72164	Vactor Inlet	5/22/23 11:20	Mercer & Melrose	1
72232	Vactor Inlet	5/22/23 11:45	22nd	1
71992	Vactor Inlet	5/22/23 12:16	Berryhill St.	1
70324	Vactor Inlet	5/22/23 15:42	3rd St.	1
70150	Vactor Inlet	5/22/23 15:51	3rd & Market	1
70372	Vactor Inlet	5/22/23 15:58	3rd St.	1
70006	Vactor Inlet	5/22/23 16:15	Dewberry St.	1
70456	Vactor Inlet	5/22/23 16:24	3rd St.	1
70042	Vactor Inlet	5/22/23 16:44	Dewberry St.	1
72059	Vactor Inlet	5/23/23 9:20	Swatara	1
72091	Vactor Inlet	5/23/23 9:25	Swatara	1
72255	Vactor Inlet	5/23/23 9:30	Swatara	1
72152	Vactor Inlet	5/23/23 9:57	McCleaster	1
72217	Vactor Inlet	5/23/23 10:54	McCleaster	1
72241	Vactor Inlet	5/23/23 11:06	McCleaster	1
72221	Vactor Inlet	5/23/23 11:17	Kensington	1
70418	Vactor Inlet	5/23/23 15:23	South Dr.	1
70379	Vactor Inlet	5/23/23 15:42	7th St.	1
70451	Vactor Inlet	5/23/23 16:01	7th	1
70374	Vactor Inlet	5/23/23 16:15	7th	1
70326	Vactor Inlet	5/23/23 16:19	7th	1
70070	Vactor Inlet	5/23/23 16:27	7th St.	1
70395	Vactor Inlet	5/24/23 16:06	Court & Cranberry	1
70350	Vactor Inlet	5/24/23 16:09	Court & Cranberry	1
73192	Vactor Inlet	5/24/23 16:21	Barbara St.	1
73195	Vactor Inlet	5/24/23 16:27	Barbara St.	1
70169	Vactor Inlet	5/24/23 16:36	South & Court	1
70359	Vactor Inlet	5/24/23 16:53	3rd St.	1
70406	Vactor Inlet	5/24/23 17:06	Blackberry St.	1
72275	Vactor Inlet	5/25/23 10:04	Home St.	1
72274	Vactor Inlet	5/25/23 10:13	Home St.	1
72002	Vactor Inlet	5/25/23 10:27	Central St.	1
72167	Vactor Inlet	5/25/23 10:44	Derry St.	1
72087	Vactor Inlet	5/25/23 11:10	Kensington St.	1
73969	Vactor Inlet	5/25/23 12:00	Getz St, Harrisburg, Pennsylvania, 17104 540 S 19th St, Harrisburg,	1
73971	Vactor Inlet	5/25/23 12:00	Pennsylvania, 17104	1
70322	Vactor Inlet	5/25/23 15:41	2nd St.	1
70277	Vactor Inlet	5/25/23 15:56	Forster	1
70083	Vactor Inlet	5/25/23 16:06	4th & Strawberry	1
70134	Vactor Inlet	5/25/23 16:10	4th & Strawberry	1
70229	Vactor Inlet	5/25/23 16:18	4th & Walnut	1
70038	Vactor Inlet	5/25/23 16:36	4th St.	1
70010	Vactor Inlet	5/25/23 16:39	4th St.	1
72166	Vactor Inlet	5/26/23 8:19	Central	1
72136	Vactor Inlet	5/26/23 8:24	Central	1
72117	Vactor Inlet	5/26/23 8:43	Central St.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
72060	Vactor Inlet	5/26/23 9:01	Central St.	1
72234	Vactor Inlet	5/26/23 9:28	Central	1
72040	Vactor Inlet	5/26/23 9:39	Central	1
72027	Vactor Inlet	5/26/23 9:53	Central	1
72226	Vactor Inlet	5/26/23 10:00	Central	1
74191	Vactor Inlet	5/26/23 12:00	2474 Mercer Rear	1
74185	Vactor Inlet	5/26/23 12:00	2444 Mercer Rear	1
70300	Vactor Inlet	5/26/23 15:51	River St.	1
70343	Vactor Inlet	5/26/23 15:53	River St.	1
70141	Vactor Inlet	5/26/23 16:18	South St.	1
70094	Vactor Inlet	5/26/23 16:38	State St.	1
70367	Vactor Inlet	5/26/23 17:50	2nd St.	1
70389	Vactor Inlet	5/27/23 8:28	North St.	1
71913	Vactor Inlet	5/27/23 8:38	North St	1
70420	Vactor Inlet	5/27/23 9:24	Forster	1
70156	Vactor Inlet	5/27/23 9:35	Commonwealth Ave	1
70426	Vactor Inlet	5/27/23 9:45	7th & State	1
70457	Vactor Inlet	5/27/23 10:03	7th & State	1
70335	Vactor Inlet	5/27/23 10:10	Cranberry St.	1
70049	Vactor Inlet	5/27/23 10:30	3rd St.	1
70189	Vactor Inlet	5/27/23 10:35	3rd St.	1
59525	Vactor Inlet	5/27/23 11:03	Forster	1
59369	Vactor Inlet	5/27/23 11:20	Forster St.	1
70142	Vactor Inlet	5/28/23 9:52	3rd St	1
70092	Vactor Inlet	5/28/23 10:01	3rd St.	1
72273	Vactor Inlet	5/28/23 11:35	Vista Aly	1
59877	Vactor Inlet	5/30/23 15:50	Vernon St.	1
70066	Vactor Inlet	5/30/23 16:18	Front St.	1
70260	Vactor Inlet	5/30/23 16:26	Front St.	1
70089	Vactor Inlet	5/30/23 16:33	Front St.	1
70043	Vactor Inlet	5/30/23 16:37	Front St.	1
70176	Vactor Inlet	5/30/23 16:44	Front St.	1
70275	Vactor Inlet	5/30/23 17:00	South St.	1
70323	Vactor Inlet	5/30/23 17:06	Front St.	1
73580	Vactor Inlet	5/31/23 12:42	16th	1
73559	Vactor Inlet	5/31/23 12:49	16th	1
73508	Vactor Inlet	5/31/23 13:02	16th	1
73527	Vactor Inlet	5/31/23 13:07	16th	1
73480	Vactor Inlet	5/31/23 13:35	Brookwood	1
70413	Vactor Inlet	5/31/23 15:22	Front & Barbara	1
70093	Vactor Inlet	5/31/23 15:26	Front & Barbara	1
70311	Vactor Inlet	5/31/23 15:30	Front St.	1
70220	Vactor Inlet	5/31/23 15:51	Front St.	1
70357	Vactor Inlet	5/31/23 15:54	Front St.	1
74211	Vactor Inlet	6/2/23 12:43	2469 Mercer St.	1
74208	Vactor Inlet	6/2/23 12:55	2419 Mercer St.	1
74207	Vactor Inlet	6/2/23 13:17	2468 Brookwood St.	1
74204	Vactor Inlet	6/2/23 14:04	2444 Brookwood St.	1
70214	Vactor Inlet	6/3/23 10:57	Front St.	1
70396	Vactor Inlet	6/3/23 10:58	Front St.	1
70009	Vactor Inlet	6/3/23 11:10	Front St.	1
70223	Vactor Inlet	6/3/23 11:15		1
70369	Vactor Inlet	6/3/23 11:26	Front St.	1
70007	Vactor Inlet	6/3/23 11:35	Front St.	1
70266	Vactor Inlet	6/3/23 11:53	Front St.	1
70174	Vactor Inlet	6/3/23 12:04	Front St.	1
73592	Vactor Inlet	6/3/23 12:07	Crescent St.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH		TOTAL ASSETS
		DATE	WOADDRESS	
70403	Vactor Inlet	6/3/23 12:18	Front St	1
70014	Vactor Inlet	6/3/23 12:24	Front St.	1
70036	Vactor Inlet	6/3/23 12:43	Front St.	1
74137	Vactor Inlet	6/4/23 11:20	7th St.	1
70059	Vactor Inlet	6/4/23 11:26	7th & State	1
74139	Vactor Inlet	6/4/23 12:01	7th St.	1
72052	Vactor Inlet	6/5/23 8:55	Holly St.	1
71995	Vactor Inlet	6/5/23 9:34	Holly St.	1
72081	Vactor Inlet	6/5/23 9:57	Holly St.	1
72231	Vactor Inlet	6/5/23 10:58	18th	1
73668	Vactor Inlet	6/5/23 12:31	Derry St.	1
73507	Vactor Inlet	6/5/23 12:39	Sylvan Ter	1
73510	Vactor Inlet	6/5/23 12:57	Sylvan Ter	1
73701	Vactor Inlet	6/5/23 13:00	Christian	1
70128	Vactor Inlet	6/5/23 15:34	State St.	1
70044	Vactor Inlet	6/5/23 15:53	Front St.	1
70248	Vactor Inlet	6/5/23 16:01	Front & Market	1
70446	Vactor Inlet	6/5/23 16:15	Front St.	1
70354	Vactor Inlet	6/5/23 16:15	Front & Chestnut	1
70318	Vactor Inlet	6/5/23 16:34	Front St.	1
73704	Vactor Inlet	6/8/23 12:00	Reese & Hummel	1
74484	Vactor Inlet	6/8/23 14:28	Market Dr. & Market St	1
73669	Vactor Inlet	6/9/23 8:17	Evergreen & Reese	1
73700	Vactor Inlet	6/9/23 8:45	Reese & Evergreen	1
73472	Vactor Inlet	6/9/23 8:54	Reese & Evergreen	1
73707	Vactor Inlet	6/9/23 9:15	Evergreen & Reese	1
73645	Vactor Inlet	6/9/23 9:44	13th	1
73688	Vactor Inlet	6/9/23 9:51	13th	1
73649	Vactor Inlet	6/9/23 10:16	13th & Reese	1
73670	Vactor Inlet	6/9/23 10:24	13th & Reese	1
73530	Vactor Inlet	6/9/23 10:47	14th & Berryhill	1
73476	Vactor Inlet	6/9/23 10:57	Berryhill	1
73710	Vactor Inlet	6/9/23 11:06	14th	1
74140	Vactor Inlet	6/10/23 8:49	7th St.	1
74141	Vactor Inlet	6/10/23 8:51	7th St.	1
74144	Vactor Inlet	6/10/23 9:00	7th St.	1
70293	Vactor Inlet	6/10/23 9:21	Front St.	1
70309	Vactor Inlet	6/10/23 9:38	Front St.	1
70035	Vactor Inlet	6/10/23 9:50	Front St.	1
70084	Vactor Inlet	6/10/23 10:06	Front St.	1
70069	Vactor Inlet	6/10/23 10:57	Front St.	1
70033	Vactor Inlet	6/10/23 11:12	Front St.	1
70344	Vactor Inlet	6/11/23 8:31	North St.	1
74145	Vactor Inlet	6/11/23 9:03	7th St.	1
73606	Vactor Inlet	6/24/23 8:54	Brookwood	1
73615	Vactor Inlet	6/24/23 9:02	Brookwood	1
73538	Vactor Inlet	6/24/23 9:34	Brookwood	1
73562	Vactor Inlet	6/24/23 9:51	Brookwood	1
73584	Vactor Inlet	6/24/23 10:09	17th	1
73610	Vactor Inlet	6/24/23 10:18	17th	1
73555	Vactor Inlet	6/24/23 11:08	17th	1
73518	Vactor Inlet	6/25/23 8:23	Paxton St.	1
73537	Vactor Inlet	6/25/23 8:37	Paxton St.	1
73583	Vactor Inlet	6/25/23 8:50	Paxton St.	1
73511	Vactor Inlet	6/25/23 9:00	Paxton St.	1
73692	Vactor Inlet	6/25/23 9:07	Paxton & Cameron	1
73499	Vactor Inlet	6/25/23 9:18	Paxton St.	1

WORKORDERID	DESCRIPTION	ACTUAL FINISH DATE	WOADDRESS	TOTAL ASSETS
73514	Vactor Inlet	6/25/23 9:25	Paxton St.	1
73605	Vactor Inlet	6/25/23 9:38	Paxton St.	1
73536	Vactor Inlet	6/25/23 9:47	Paxton St.	1
73522	Vactor Inlet	6/26/23 9:09	17th	1
73498	Vactor Inlet	6/26/23 9:14	17th	1
73475	Vactor Inlet	6/26/23 9:39	17th	1
73543	Vactor Inlet	6/26/23 9:47	17th & Berryhill	1
73682	Vactor Inlet	6/26/23 10:00	17th & Hunter	1
73496	Vactor Inlet	6/26/23 10:12	17th	1
73685	Vactor Inlet	6/26/23 10:38	17th	1
73712	Vactor Inlet	6/26/23 11:05	Derry & 17th	1
73656	Vactor Inlet	6/26/23 11:20	17th	1
75027	Vactor Inlet	6/26/23 12:00	13th & Hanover St.	1
73635	Vactor Inlet	6/27/23 13:14	Catherine	1
73470	Vactor Inlet	6/27/23 13:20	16th & Catherine	1
71993	Vactor Inlet	6/29/23 8:13	Carlisle	1
72150	Vactor Inlet	6/29/23 8:18	Carlisle	1
73714	Vactor Inlet	6/29/23 9:00	Derry & 15th	1
73477	Vactor Inlet	6/29/23 9:14	Derry & 16th	1
73524	Vactor Inlet	6/29/23 9:36	14th & Derry	1
73535	Vactor Inlet	6/29/23 9:44	14th & Derry	1
73595	Vactor Inlet	6/29/23 9:57	Derry St.	1
73529	Vactor Inlet	6/29/23 10:17	Mulberry & Christian	1
73593	Vactor Inlet	6/29/23 10:29	Hummel St.	1
73622	Vactor Inlet	6/29/23 10:41	Mulberry	1
73573	Vactor Inlet	6/29/23 10:57	Mulberry & Evergreen	1
73576	Vactor Inlet	6/30/23 12:16	14th & Hunter	1
73532	Vactor Inlet	6/30/23 12:33	14th & Swatara	1
73672	Vactor Inlet	6/30/23 12:36	Swatara	1
73557	Vactor Inlet	6/30/23 12:45	14th & Hunter	1
73343	Vactor Storm Manhole	5/14/23 12:00	Walnut st	1



Appendix K

APPENDIX K-2

PREVENTIVE MAINTENANCE REPORT

ENTITYUID	WORKORDERID	DESCRIPTION	ACTUALFINISHDAT	COMMENTS
CSO-004	66335	Semi-Annual PM; CSO Type B	4/2/2023 11:00	
CSO-005	66337	Semi-Annual PM; CSO Type A	4/2/2023 12:00	
CSO-006	66363	Semi-Annual PM; CSO Type A	4/3/2023 9:00	
CSO-007	66370	Semi-Annual PM; CSO Type A	3/27/2023 13:00	
				As per [REDACTED] and [REDACTED], there is a large hole on the bottom wall by the gate in the bypass.
CSO-008	66544	Semi-Annual PM; CSO Type A	5/18/2023 12:00	Reported to [REDACTED].
CSO-009	66545	Semi-Annual PM; CSO Type A	4/3/2023 10:00	
CSO-010	66402	Semi-Annual PM; CSO Type A	3/27/2023 12:00	
CSO-011	66404	Semi-Annual PM; CSO Type A	3/27/2023 11:00	
CSO-012	65818	Semi-Annual PM; CSO Type A	3/27/2023 12:00	
CSO-013	66521	Semi-Annual PM; CSO Type A	3/27/2023 14:00	
CSO-014	65820	Semi-Annual PM; CSO Type C	3/27/2023 14:30	
CSO-015	66519	Semi-Annual PM; CSO Type A	4/8/2023 12:30	
CSO-016	66181	Semi-Annual PM; CSO Type A	3/27/2023 13:00	
CSO-017	66520	Semi-Annual PM; CSO Type A	4/2/2023 12:00	
				Flushed out stone and removed debri. Couldn't make entry because of the smell from the lining of the
CSO-019	66377	Semi-Annual PM; CSO Type B	4/12/2023 14:30	interceptor project.
CSO-020	66472	Semi-Annual PM; CSO Type B	4/22/2023 14:00	
CSO-021	66399	Semi-Annual PM; CSO Type A	4/13/2023 11:30	
CSO-023	65760	Semi-Annual PM; CSO Type C	3/28/2023 12:30	
CSO-024	65758	Semi-Annual PM; CSO Type C	3/27/2023 13:30	
CSO-025	65730	Semi-Annual PM; CSO Type A	4/3/2023 13:00	
CSO-026	65733	Semi-Annual PM; CSO Type B	4/3/2023 13:00	
CSO-027	65742	Semi-Annual PM; CSO Type B	3/26/2023 12:00	
CSO-028	65744	Semi-Annual PM; CSO Type A	3/26/2023 12:00	
CSO-029	66401	Semi-Annual PM; CSO Type A	3/27/2023 12:00	
CSO-030	65969	Semi-Annual PM; CSO Type A	4/2/2023 12:00	
CSO-031	65737	Semi-Annual PM; CSO Type A	4/22/2023 11:30	
CSO-032	65739	Semi-Annual PM; CSO Type B	3/26/2023 13:30	
CSO-033	65762	Semi-Annual PM; CSO Type B	4/3/2023 12:00	
CSO-034	68555	Semi-Annual PM; CSO Type A	4/23/2023 10:00	
CSO-037	65808	Semi-Annual PM; CSO Type A	4/4/2023 13:00	
CSO-038	65800	Semi-Annual PM; CSO Type A	4/3/2023 13:00	
CSO-039	65810	Semi-Annual PM; CSO Type A	4/5/2023 13:30	
CSO-040	65815	Semi-Annual PM; CSO Type B	4/5/2023 11:30	
CSO-041	65763	Semi-Annual PM; CSO Type B	4/5/2023 12:00	
CSO-042	66038	Semi-Annual PM; CSO Type A	4/8/2023 10:00	
CSO-043	66041	Semi-Annual PM; CSO Type A	3/26/2023 10:00	
CSO-044	66440	Semi-Annual PM; CSO Type D	4/2/2023 9:00	

ENTITYUID	WORKORDERID	DESCRIPTION	ACTUALFINISHDAT	COMMENTS
CSO-045	66045	Semi-Annual PM; CSO Type D	4/23/2023 12:00	
CSO-046	66042	Semi-Annual PM; CSO Type D	4/23/2023 11:00	
CSO-049	66355	Semi-Annual PM; CSO Type A	4/2/2023 12:00	
CSO-050	66372	Semi-Annual PM; CSO Type A	5/11/2023 12:30	
CSO-051	66374	Semi-Annual PM; CSO Type A	5/16/2023 12:30	
CSO-052	66183	Semi-Annual PM; CSO Type A	3/27/2023 12:00	
CSO-053	66339	Semi-Annual PM; CSO Type A	3/29/2023 12:00	
CSO-054	66345	Semi-Annual PM; CSO Type A	3/29/2023 12:00	
CSO-055	66182	Semi-Annual PM; CSO Type A	3/29/2023 13:00	
CSO-056	66376	Semi-Annual PM; CSO Type A	4/3/2023 12:00	
CSO-057	65816	Semi-Annual PM; CSO Type A	4/2/2023 12:00	
CSO-058	66471	Semi-Annual PM; CSO Type B	4/23/2023 13:30	
CSO-059	66468	Semi-Annual PM; CSO Type D	4/8/2023 10:30	Washed down the bypass and changed the rope and block.
CSO-060	65802	Semi-Annual PM; CSO Type C	3/26/2023 13:00	Clean CSO for biannual PM
CSO-061	65807	Semi-Annual PM; CSO Type C	4/8/2023 9:00	
CSO-062	65803	Semi-Annual PM; CSO Type C	3/26/2023 13:00	
CSO-063	65804	Semi-Annual PM; CSO Type C	3/27/2023 13:00	No grease fittings in the gate.
CSO-064	65805	Semi-Annual PM; CSO Type C	3/27/2023 14:00	

APPENDIX K-3

COMBINED SEWER OVERFLOW REPORT

APPENDIX K-3A

COMBINED SEWER OVERFLOW REPORT BY OUTFALLS
FIELD OBSERVATIONS

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - Field Observations
01/01/2023 - 06/30/2023

Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
CSO-004 (FRONT & VAUGHN)					
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
68877	Daily CSO Default 3-4	01/06/2023	68877	Wooden Block	Rain
69113	Daily CSO Site Inspection	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
71064	Daily CSO Site Inspection	03/04/2023	71064	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71664	Daily CSO Default 3-4	03/25/2023	71664	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72457	Daily CSO Default 3-4	04/15/2023	72457	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72492	Daily CSO Default 3-4	04/17/2023	72492	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
CSO-005 (FRONT & LEWIS)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Site Inspection	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
70929	Daily CSO Default 3-4	02/28/2023	70929	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71517	Daily CSO Default 3-4	03/17/2023	71517	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71664	Daily CSO Default 3-4	03/25/2023	71664	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72492	Daily CSO Default 3-4	04/17/2023	72492	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74824	Daily CSO Default 3-4	06/22/2023	74824	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
CSO-006 (FRONT & GEIGER)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
68839	Daily CSO Default 7 Inflow	01/05/2023	68839	Wooden Block	Inflow from Creek/River
68877	Daily CSO Default 7 Inflow	01/06/2023	68877	Wooden Block	Inflow from Creek/River
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70729	Daily CSO Site Inspection	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72760	Daily CSO Default 3-4	04/23/2023	72760	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 7 Inflow	05/02/2023	72968	Wooden Block	Inflow from Creek/River
73001	Daily CSO Default 7 Inflow	05/03/2023	73001	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - Field Observations
01/01/2023 - 06/30/2023

Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
CSO-007 (FRONT & PEPPER)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Default 3-4	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
68839	Daily CSO Default 3-4	01/05/2023	68839	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69188	Daily CSO Default 3-4	01/23/2023	69188	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
70929	Daily CSO Default 3-4	02/28/2023	70929	Wooden Block	Rain
70991	Daily CSO Default 3-4	03/02/2023	70991	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71517	Daily CSO Default 3-4	03/17/2023	71517	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72760	Daily CSO Default 3-4	04/23/2023	72760	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 7 Inflow	05/02/2023	72968	Wooden Block	Inflow from Creek/River
73037	Daily CSO Default 7 Inflow	05/04/2023	73037	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74655	Daily CSO Default 3-4	06/15/2023	74655	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-008 (FRONT & MUENCH)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Default 3-4	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
68839	Daily CSO Default 7 Inflow	01/05/2023	68839	Wooden Block	Inflow from Creek/River
68877	Daily CSO Default 7 Inflow	01/06/2023	68877	Wooden Block	Inflow from Creek/River
69188	Daily CSO Default 3-4	01/23/2023	69188	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
70929	Daily CSO Default 3-4	02/28/2023	70929	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 7 Inflow	05/02/2023	72968	Wooden Block	Inflow from Creek/River
73001	Daily CSO Default 7 Inflow	05/03/2023	73001	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-009 (FRONT & HAMILTON)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain

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Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
70929	Daily CSO Default 3-4	02/28/2023	70929	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72760	Daily CSO Default 3-4	04/23/2023	72760	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
73001	Daily CSO Default 7 Inflow	05/03/2023	73001	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-010 (FRONT & REILY)					
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
70929	Daily CSO Default 3-4	02/28/2023	70929	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-011 (FRONT & CALDER)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain

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Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
CSO-012 (FRONT & VERBEKE)					
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69034	Daily CSO Site Inspection	01/13/2023	69034	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-013 (FRONT & CUMBERLAND)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
68839	Daily CSO Default 3-4	01/05/2023	68839	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69188	Daily CSO Default 3-4	01/23/2023	69188	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71496	Daily CSO Site Inspection	03/16/2023	71496	Dry Weather Overflow	Gate blocked with grease
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71704	Daily CSO Default 3-4	03/28/2023	71704	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
73264	Daily CSO Site Inspection	05/11/2023	73264	Dry Weather Overflow	Gate blocked with grease
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74721	Daily CSO Site Inspection	06/16/2023	74721	Wooden Block	Rain
74768	Daily CSO Site Inspection	06/18/2023	74768	Dry Weather Overflow	Unknown
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-014 (FRONT & BOAS)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69034	Daily CSO Default 3-4	01/13/2023	69034	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69188	Daily CSO Default 3-4	01/23/2023	69188	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
70929	Daily CSO Default 3-4	02/28/2023	70929	Wooden Block	Rain

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Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74629	Daily CSO Default 3-4	06/14/2023	74629	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-015 (FRONT & FORSTER)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Site Inspection	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72457	Daily CSO Default 3-4	04/15/2023	72457	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 3-4	05/02/2023	72968	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74824	Daily CSO Default 3-4	06/22/2023	74824	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-016 (FRONT & LIBERTY)					
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69188	Daily CSO Default 3-4	01/23/2023	69188	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72616	Daily CSO Site Inspection	04/20/2023	72616	Dry Weather Overflow	Unknown
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 3-4	05/02/2023	72968	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-017 (FRONT & MARKET)					
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70674	Daily CSO Default 3-4	02/21/2023	70674	Wooden Block	Rain

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Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71704	Daily CSO Default 3-4	03/28/2023	71704	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
CSO-018 (FRONT & MULBERRY)					
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
68877	Daily CSO Default 3-4	01/06/2023	68877	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69188	Daily CSO Default 3-4	01/23/2023	69188	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70674	Daily CSO Default 3-4	02/21/2023	70674	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71517	Daily CSO Default 3-4	03/17/2023	71517	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72358	Daily CSO Site Inspection	04/11/2023	72358	Dry Weather Overflow	Contractor Pumping
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 7 Inflow	05/02/2023	72968	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74629	Daily CSO Default 3-4	06/14/2023	74629	Wooden Block	Rain
74721	Daily CSO Site Inspection	06/16/2023	74721	Wooden Block	Rain
74824	Daily CSO Default 3-4	06/22/2023	74824	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-019 (FRONT & PAXTON)					
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 7 Inflow	05/02/2023	72968	Wooden Block	Inflow from Creek/River
73001	Daily CSO Default 7 Inflow	05/03/2023	73001	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
CSO-020 (FRONT & HANNA)					
68839	Daily CSO Default 7 Inflow	01/05/2023	68839	Wooden Block	Inflow from Creek/River
68877	Daily CSO Default 7 Inflow	01/06/2023	68877	Wooden Block	Inflow from Creek/River

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70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 7 Inflow	05/02/2023	72968	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
CSO-021 (CAMERON & SCHUYLKILL)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72522	Daily CSO Default 7 Inflow	04/18/2023	72522	Wooden Block	Inflow from Creek/River
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
72969	Daily CSO Default 7 Inflow	05/02/2023	72969	Wooden Block	Inflow from Creek/River
73043	Daily CSO Default 7 Inflow	05/04/2023	73043	Wooden Block	Inflow from Creek/River
73190	Daily CSO Default 7 Inflow	05/09/2023	73190	Wooden Block	Inflow from Creek/River
73304	Daily CSO Default 7 Inflow	05/12/2023	73304	Wooden Block	Inflow from Creek/River
73336	Daily CSO Default 7 Inflow	05/14/2023	73336	Wooden Block	Inflow from Creek/River
73340	Daily CSO Default 7 Inflow	05/15/2023	73340	Wooden Block	Inflow from Creek/River
73735	Daily CSO Default 7 Inflow	05/19/2023	73735	Wooden Block	Inflow from Creek/River
73775	Daily CSO Default 7 Inflow	05/21/2023	73775	Wooden Block	Inflow from Creek/River
73955	Daily CSO Default 7 Inflow	05/26/2023	73955	Wooden Block	Inflow from Creek/River
74205	Daily CSO Default 7 Inflow	06/03/2023	74205	Wooden Block	Inflow from Creek/River
74424	Daily CSO Default 7 Inflow	06/08/2023	74424	Wooden Block	Inflow from Creek/River
74511	Daily CSO Default 7 Inflow	06/10/2023	74511	Wooden Block	Inflow from Creek/River
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74825	Daily CSO Default 7 Inflow	06/22/2023	74825	Wooden Block	Inflow from Creek/River
74852	Daily CSO Default 7 Inflow	06/23/2023	74852	Wooden Block	Inflow from Creek/River
74904	Daily CSO Default 7 Inflow	06/24/2023	74904	Wooden Block	Inflow from Creek/River
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-022 (FORREST & CAMERON)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68770	Daily CSO Default 7 Inflow	01/03/2023	68770	Wooden Block	Inflow from Creek/River
68776	Daily CSO Default 7 Inflow	01/04/2023	68776	Wooden Block	Inflow from Creek/River
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
68917	Daily CSO Default 7 Inflow	01/08/2023	68917	Wooden Block	Inflow from Creek/River
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71393	Daily CSO Default 7 Inflow	03/14/2023	71393	Wooden Block	Inflow from Creek/River
71478	Daily CSO Default 7 Inflow	03/15/2023	71478	Wooden Block	Inflow from Creek/River
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 7 Inflow	04/16/2023	72487	Wooden Block	Inflow from Creek/River
72580	Daily CSO Default 7 Inflow	04/19/2023	72580	Wooden Block	Inflow from Creek/River
72646	Daily CSO Default 7 Inflow	04/21/2023	72646	Wooden Block	Inflow from Creek/River
72687	Daily CSO Default 7 Inflow	04/22/2023	72687	Wooden Block	Inflow from Creek/River
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
72969	Daily CSO Default 7 Inflow	05/02/2023	72969	Wooden Block	Inflow from Creek/River
73003	Daily CSO Default 7 Inflow	05/03/2023	73003	Wooden Block	Inflow from Creek/River
73079	Daily CSO Default 7 Inflow	05/05/2023	73079	Wooden Block	Inflow from Creek/River
73123	Daily CSO Default 7 Inflow	05/06/2023	73123	Wooden Block	Inflow from Creek/River
73132	Daily CSO Default 7 Inflow	05/07/2023	73132	Wooden Block	Inflow from Creek/River
73139	Daily CSO Default 7 Inflow	05/08/2023	73139	Wooden Block	Inflow from Creek/River
73260	Daily CSO Default 7 Inflow	05/11/2023	73260	Wooden Block	Inflow from Creek/River
73321	Daily CSO Default 7 Inflow	05/13/2023	73321	Wooden Block	Inflow from Creek/River
73336	Daily CSO Default 7 Inflow	05/14/2023	73336	Wooden Block	Inflow from Creek/River

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73340	Daily CSO Default 7 Inflow	05/15/2023	73340	Wooden Block	Inflow from Creek/River
73414	Daily CSO Default 7 Inflow	05/16/2023	73414	Wooden Block	Inflow from Creek/River
73440	Daily CSO Default 7 Inflow	05/17/2023	73440	Wooden Block	Inflow from Creek/River
73461	Daily CSO Default 7 Inflow	05/18/2023	73461	Wooden Block	Inflow from Creek/River
73767	Daily CSO Default 7 Inflow	05/20/2023	73767	Wooden Block	Inflow from Creek/River
73778	Daily CSO Default 7 Inflow	05/22/2023	73778	Wooden Block	Inflow from Creek/River
73809	Daily CSO Default 7 Inflow	05/23/2023	73809	Wooden Block	Inflow from Creek/River
73880	Daily CSO Default 7 Inflow	05/24/2023	73880	Wooden Block	Inflow from Creek/River
73918	Daily CSO Default 7 Inflow	05/25/2023	73918	Wooden Block	Inflow from Creek/River
73982	Daily CSO Default 7 Inflow	05/27/2023	73982	Wooden Block	Inflow from Creek/River
74001	Daily CSO Default 7 Inflow	05/28/2023	74001	Wooden Block	Inflow from Creek/River
74013	Daily CSO Default 7 Inflow	05/29/2023	74013	Wooden Block	Inflow from Creek/River
74079	Daily CSO Default 7 Inflow	06/01/2023	74079	Wooden Block	Inflow from Creek/River
74138	Daily CSO Default 7 Inflow	06/02/2023	74138	Wooden Block	Inflow from Creek/River
74268	Daily CSO Default 7 Inflow	06/04/2023	74268	Wooden Block	Inflow from Creek/River
74280	Daily CSO Default 7 Inflow	06/05/2023	74280	Wooden Block	Inflow from Creek/River
74387	Daily CSO Default 7 Inflow	06/07/2023	74387	Wooden Block	Inflow from Creek/River
74468	Daily CSO Default 7 Inflow	06/09/2023	74468	Wooden Block	Inflow from Creek/River
74522	Daily CSO Default 7 Inflow	06/11/2023	74522	Wooden Block	Inflow from Creek/River
74578	Daily CSO Default 7 Inflow	06/13/2023	74578	Wooden Block	Inflow from Creek/River
74636	Daily CSO Default 7 Inflow	06/14/2023	74636	Wooden Block	Inflow from Creek/River
74654	Daily CSO Default 7 Inflow	06/15/2023	74654	Wooden Block	Inflow from Creek/River
74722	Daily CSO Default 7 Inflow	06/16/2023	74722	Wooden Block	Inflow from Creek/River
74760	Daily CSO Default 7 Inflow	06/17/2023	74760	Wooden Block	Inflow from Creek/River
74767	Daily CSO Default 7 Inflow	06/18/2023	74767	Wooden Block	Inflow from Creek/River
74770	Daily CSO Default 7 Inflow	06/19/2023	74770	Wooden Block	Inflow from Creek/River
74773	Daily CSO Default 7 Inflow	06/20/2023	74773	Wooden Block	Inflow from Creek/River
74802	Daily CSO Default 7 Inflow	06/21/2023	74802	Wooden Block	Inflow from Creek/River
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 7 Inflow	06/25/2023	74929	Wooden Block	Inflow from Creek/River
74962	Daily CSO Default 7 Inflow	06/27/2023	74962	Wooden Block	Inflow from Creek/River
74974	Daily CSO Default 7 Inflow	06/28/2023	74974	Wooden Block	Inflow from Creek/River
75029	Daily CSO Default 7 Inflow	06/29/2023	75029	Wooden Block	Inflow from Creek/River
75070	Daily CSO Default 7 Inflow	06/30/2023	75070	Wooden Block	Inflow from Creek/River
CSO-023 (CAMERON & CALDER)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68770	Daily CSO Default 3-4	01/03/2023	68770	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
70673	Daily CSO Default 3-4	02/21/2023	70673	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72455	Daily CSO Default 3-4	04/15/2023	72455	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72490	Daily CSO Default 3-4	04/17/2023	72490	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
72969	Daily CSO Default 3-4	05/02/2023	72969	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-024 (HILL CHAMBER T.R.W.)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain

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74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-025 (N. CAMERON & CUMBERLAND)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 7 Inflow	01/04/2023	68776	Wooden Block	Inflow from Creek/River
68838	Daily CSO Site Inspection	01/05/2023	68838	Wooden Block	Rain
68874	Daily CSO Default 7 Inflow	01/06/2023	68874	Wooden Block	Inflow from Creek/River
68904	Daily CSO Default 7 Inflow	01/07/2023	68904	Wooden Block	Inflow from Creek/River
68917	Daily CSO Default 7 Inflow	01/08/2023	68917	Wooden Block	Inflow from Creek/River
68921	Daily CSO Default 7 Inflow	01/09/2023	68921	Wooden Block	Inflow from Creek/River
68998	Daily CSO Default 3-4	01/12/2023	68998	Wooden Block	Rain
69035	Daily CSO Default 7 Inflow	01/13/2023	69035	Wooden Block	Inflow from Creek/River
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 7 Inflow	01/20/2023	69132	Wooden Block	Inflow from Creek/River
69190	Daily CSO Site Inspection	01/23/2023	69190	Wooden Block	Rain
69280	Daily CSO Default 7 Inflow	01/26/2023	69280	Wooden Block	Inflow from Creek/River
69310	Daily CSO Default 7 Inflow	01/27/2023	69310	Wooden Block	Inflow from Creek/River
69329	Daily CSO Default 7 Inflow	01/28/2023	69329	Wooden Block	Inflow from Creek/River
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70673	Daily CSO Default 3-4	02/21/2023	70673	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
70992	Daily CSO Default 3-4	03/02/2023	70992	Wooden Block	Rain
71063	Daily CSO Default 7 Inflow	03/04/2023	71063	Wooden Block	Inflow from Creek/River
71071	Daily CSO Default 7 Inflow	03/05/2023	71071	Wooden Block	Inflow from Creek/River
71115	Daily CSO Default 7 Inflow	03/07/2023	71115	Wooden Block	Inflow from Creek/River
71330	Daily CSO Default 7 Inflow	03/11/2023	71330	Wooden Block	Inflow from Creek/River
71645	Daily CSO Default 7 Inflow	03/23/2023	71645	Wooden Block	Inflow from Creek/River
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72759	Daily CSO Default 7 Inflow	04/23/2023	72759	Wooden Block	Inflow from Creek/River
72947	Daily CSO Default 7 Inflow	04/29/2023	72947	Wooden Block	Inflow from Creek/River
72959	Daily CSO Default 7 Inflow	04/30/2023	72959	Wooden Block	Inflow from Creek/River
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
72969	Daily CSO Default 7 Inflow	05/02/2023	72969	Wooden Block	Inflow from Creek/River
73043	Daily CSO Default 7 Inflow	05/04/2023	73043	Wooden Block	Inflow from Creek/River
73079	Daily CSO Default 7 Inflow	05/05/2023	73079	Wooden Block	Inflow from Creek/River
73139	Daily CSO Default 7 Inflow	05/08/2023	73139	Wooden Block	Inflow from Creek/River
73190	Daily CSO Default 7 Inflow	05/09/2023	73190	Wooden Block	Inflow from Creek/River
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74636	Daily CSO Default 3-4	06/14/2023	74636	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 7 Inflow	06/24/2023	74904	Wooden Block	Inflow from Creek/River
74938	Daily CSO Default 7 Inflow	06/26/2023	74938	Wooden Block	Inflow from Creek/River
74962	Daily CSO Default 7 Inflow	06/27/2023	74962	Wooden Block	Inflow from Creek/River
74974	Daily CSO Default 7 Inflow	06/28/2023	74974	Wooden Block	Inflow from Creek/River
75070	Daily CSO Default 7 Inflow	06/30/2023	75070	Wooden Block	Inflow from Creek/River
CSO-026 (S. CAMERON & CUMBERLAND)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69190	Daily CSO Site Inspection	01/23/2023	69190	Wooden Block	Rain
71063	Daily CSO Default 7 Inflow	03/04/2023	71063	Wooden Block	Inflow from Creek/River
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71655	Daily CSO Site Inspection	03/24/2023	71655	Wooden Block	Rain
71682	Daily CSO Site Inspection	03/26/2023	71682	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72759	Daily CSO Default 3-4	04/23/2023	72759	Wooden Block	Rain
72947	Daily CSO Default 7 Inflow	04/29/2023	72947	Wooden Block	Inflow from Creek/River
72959	Daily CSO Default 7 Inflow	04/30/2023	72959	Wooden Block	Inflow from Creek/River
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
72969	Daily CSO Default 7 Inflow	05/02/2023	72969	Wooden Block	Inflow from Creek/River

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74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74280	Daily CSO Site Inspection	06/05/2023	74280	Dry Weather Overflow	Unknown
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-027 (9TH & CUMBERLAND)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71705	Daily CSO Default 3-4	03/28/2023	71705	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-028 (9TH & HERR)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72969	Daily CSO Default 3-4	05/02/2023	72969	Wooden Block	Rain
74268	Daily CSO Site Inspection	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-029 (E. CAMERON & NORTH)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68998	Daily CSO Default 3-4	01/12/2023	68998	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
69190	Daily CSO Default 3-4	01/23/2023	69190	Wooden Block	Rain
69280	Daily CSO Default 3-4	01/26/2023	69280	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71519	Daily CSO Default 3-4	03/17/2023	71519	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71705	Daily CSO Default 3-4	03/28/2023	71705	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain

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74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74636	Daily CSO Default 3-4	06/14/2023	74636	Wooden Block	Rain
74825	Daily CSO Default 3-4	06/22/2023	74825	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-030 (W. CAMERON & NORTH)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
70673	Daily CSO Default 3-4	02/21/2023	70673	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
72969	Daily CSO Default 3-4	05/02/2023	72969	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-031 (CAMERON & STATE)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
69190	Daily CSO Default 3-4	01/23/2023	69190	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70673	Daily CSO Default 3-4	02/21/2023	70673	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71705	Daily CSO Default 3-4	03/28/2023	71705	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72759	Daily CSO Default 3-4	04/23/2023	72759	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-032 (W. CAMERON & WALNUT)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain

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72455	Daily CSO Default 3-4	04/15/2023	72455	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-033 (E. CAMERON & WALNUT)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
69190	Daily CSO Default 3-4	01/23/2023	69190	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71519	Daily CSO Default 3-4	03/17/2023	71519	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71705	Daily CSO Default 3-4	03/28/2023	71705	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74636	Daily CSO Default 3-4	06/14/2023	74636	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-034 (S. MARKET & CAMERON)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
69190	Daily CSO Default 3-4	01/23/2023	69190	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74654	Daily CSO Default 3-4	06/15/2023	74654	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-037 (10TH & MARKET)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain

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68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72490	Daily CSO Default 3-4	04/17/2023	72490	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74825	Daily CSO Default 3-4	06/22/2023	74825	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-038 (10TH & CHESTNUT)					
68759	Daily CSO Default 3-4	01/01/2023	68759	Wooden Block	Rain
68770	Daily CSO Default 3-4	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
69190	Daily CSO Default 3-4	01/23/2023	69190	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70673	Daily CSO Default 3-4	02/21/2023	70673	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Site Inspection	03/24/2023	71655	Wooden Block	Rain
71705	Daily CSO Default 3-4	03/28/2023	71705	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
72969	Daily CSO Site Inspection	05/02/2023	72969	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-039 (S. MULBERRY & CAMERON)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
68874	Daily CSO Default 3-4	01/06/2023	68874	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
71063	Daily CSO Site Inspection	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71722	Daily CSO Site Inspection	03/29/2023	71722	Dry Weather Overflow	Unknown
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain

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72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
74268	Daily CSO Site Inspection	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-040 (N. MULBERRY & CAMERON)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69035	Daily CSO Default 3-4	01/13/2023	69035	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70933	Daily CSO Default 3-4	02/28/2023	70933	Wooden Block	Rain
70992	Daily CSO Default 3-4	03/02/2023	70992	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71519	Daily CSO Default 3-4	03/17/2023	71519	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
CSO-041 (W. MULBERRY & CAMERON)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71519	Daily CSO Default 3-4	03/17/2023	71519	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74825	Daily CSO Default 3-4	06/22/2023	74825	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-042 (N. KITTATINNY & CAMERON)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69190	Daily CSO Default 3-4	01/23/2023	69190	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
CSO-043 (S. KITTATINNY & CAMERON)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain

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Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Default 3-4	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
CSO-044 (CAMERON & BERRYHILL)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
68874	Daily CSO Default 3-4	01/06/2023	68874	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-045 (S. PAXTON STREET)					
68764	Daily CSO Site Inspection	01/02/2023	68764	Dry Weather Overflow	Unknown
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-046 (N. PAXTON STREET)					
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72947	Daily CSO Site Inspection	04/29/2023	72947	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-048 (10TH & SHANNON)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
69190	Daily CSO Site Inspection	01/23/2023	69190	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71682	Daily CSO Default 3-4	03/26/2023	71682	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72759	Daily CSO Default 3-4	04/23/2023	72759	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 7 Inflow	05/01/2023	72966	Wooden Block	Inflow from Creek/River
72969	Daily CSO Default 7 Inflow	05/02/2023	72969	Wooden Block	Inflow from Creek/River
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-049 (FRONT & SCHUYLKILL)					
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain

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71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 3-4	05/02/2023	72968	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
CSO-050 (SENECA & SUSQUEHANNA)					
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69188	Daily CSO Default 3-4	01/23/2023	69188	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70674	Daily CSO Default 3-4	02/21/2023	70674	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
70991	Daily CSO Default 3-4	03/02/2023	70991	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71517	Daily CSO Default 3-4	03/17/2023	71517	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72492	Daily CSO Default 3-4	04/17/2023	72492	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 3-4	05/02/2023	72968	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74629	Daily CSO Default 3-4	06/14/2023	74629	Wooden Block	Rain
74655	Daily CSO Default 3-4	06/15/2023	74655	Wooden Block	Rain
74824	Daily CSO Default 3-4	06/22/2023	74824	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-051 (WOODBINE & GREEN)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
69281	Daily CSO Default 3-4	01/26/2023	69281	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
73001	Daily CSO Default 7 Inflow	05/03/2023	73001	Wooden Block	Inflow from Creek/River
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74629	Daily CSO Default 3-4	06/14/2023	74629	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74928	Daily CSO Default 3-4	06/25/2023	74928	Wooden Block	Rain

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74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-052 (FRONT & STATE)					
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70674	Daily CSO Default 3-4	02/21/2023	70674	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71704	Daily CSO Default 3-4	03/28/2023	71704	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-053 (FRONT & SOUTH)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70674	Daily CSO Default 3-4	02/21/2023	70674	Wooden Block	Rain
70929	Daily CSO Default 3-4	02/28/2023	70929	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71704	Daily CSO Default 3-4	03/28/2023	71704	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 3-4	05/02/2023	72968	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74629	Daily CSO Default 3-4	06/14/2023	74629	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74919	Daily CSO Default 3-4	06/24/2023	74919	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-054 (FRONT & PINE)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71664	Daily CSO Default 3-4	03/25/2023	71664	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72457	Daily CSO Default 3-4	04/15/2023	72457	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain

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72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-055 (FRONT & LOCUST)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71704	Daily CSO Default 3-4	03/28/2023	71704	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
CSO-056 (FRONT & WALNUT)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69128	Daily CSO Default 3-4	01/20/2023	69128	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
70729	Daily CSO Default 3-4	02/23/2023	70729	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 3-4	05/02/2023	72968	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74629	Daily CSO Default 3-4	06/14/2023	74629	Wooden Block	Rain
74851	Daily CSO Site Inspection	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-057 (CHERRY & MULBERRY)					
68758	Daily CSO Default 3-4	01/01/2023	68758	Wooden Block	Rain
68767	Daily CSO Site Inspection	01/03/2023	68767	Wooden Block	Rain
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
69113	Daily CSO Default 3-4	01/19/2023	69113	Wooden Block	Rain
69128	Daily CSO Site Inspection	01/20/2023	69128	Wooden Block	Rain
70625	Daily CSO Default 3-4	02/17/2023	70625	Wooden Block	Rain
71064	Daily CSO Default 3-4	03/04/2023	71064	Wooden Block	Rain
71329	Daily CSO Default 3-4	03/11/2023	71329	Wooden Block	Rain
71646	Daily CSO Default 3-4	03/23/2023	71646	Wooden Block	Rain
71651	Daily CSO Default 3-4	03/24/2023	71651	Wooden Block	Rain
71681	Daily CSO Default 3-4	03/26/2023	71681	Wooden Block	Rain
71852	Daily CSO Default 3-4	04/02/2023	71852	Wooden Block	Rain
72486	Daily CSO Default 3-4	04/16/2023	72486	Wooden Block	Rain
72948	Daily CSO Default 3-4	04/29/2023	72948	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - Field Observations
01/01/2023 - 06/30/2023

Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
74269	Daily CSO Default 3-4	06/04/2023	74269	Wooden Block	Rain
74386	Daily CSO Default 3-4	06/07/2023	74386	Wooden Block	Rain
74577	Daily CSO Default 3-4	06/13/2023	74577	Wooden Block	Rain
74851	Daily CSO Default 3-4	06/23/2023	74851	Wooden Block	Rain
74937	Daily CSO Default 3-4	06/26/2023	74937	Wooden Block	Rain
74963	Daily CSO Default 3-4	06/27/2023	74963	Wooden Block	Rain
74972	Daily CSO Default 3-4	06/28/2023	74972	Wooden Block	Rain
CSO-058 (FRONT & TUSCARORA)					
68781	Daily CSO Default 3-4	01/04/2023	68781	Wooden Block	Rain
72960	Daily CSO Site Inspection	04/30/2023	72960	Wooden Block	Rain
72965	Daily CSO Default 3-4	05/01/2023	72965	Wooden Block	Rain
72968	Daily CSO Default 7 Inflow	05/02/2023	72968	Wooden Block	Inflow from Creek/River
73001	Daily CSO Default 7 Inflow	05/03/2023	73001	Wooden Block	Inflow from Creek/River
CSO-059 (E. KITTATINNY & CAMERON)					
68770	Daily CSO Site Inspection	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
69035	Daily CSO Default 3-4	01/13/2023	69035	Wooden Block	Rain
69112	Daily CSO Site Inspection	01/19/2023	69112	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
69190	Daily CSO Default 3-4	01/23/2023	69190	Wooden Block	Rain
70624	Daily CSO Default 3-4	02/17/2023	70624	Wooden Block	Rain
70726	Daily CSO Default 3-4	02/23/2023	70726	Wooden Block	Rain
71330	Daily CSO Default 3-4	03/11/2023	71330	Wooden Block	Rain
71519	Daily CSO Default 3-4	03/17/2023	71519	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74636	Daily CSO Default 3-4	06/14/2023	74636	Wooden Block	Rain
74654	Daily CSO Default 3-4	06/15/2023	74654	Wooden Block	Rain
74852	Daily CSO Site Inspection	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74938	Daily CSO Default 3-4	06/26/2023	74938	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-060 (SALMON STREET)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72759	Daily CSO Default 3-4	04/23/2023	72759	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74636	Daily CSO Default 3-4	06/14/2023	74636	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-061 (10TH & SYCAMORE)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
69132	Daily CSO Default 3-4	01/20/2023	69132	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71705	Daily CSO Default 3-4	03/28/2023	71705	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72455	Daily CSO Default 3-4	04/15/2023	72455	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - Field Observations
01/01/2023 - 06/30/2023

Inspection Id	Inspection Type	Date Inspected	Work Order #	Comments	Cause
72759	Daily CSO Default 3-4	04/23/2023	72759	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-062 (SHANUIS STREET)					
68838	Daily CSO Default 3-4	01/05/2023	68838	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71645	Daily CSO Default 3-4	03/23/2023	71645	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71851	Daily CSO Default 3-4	04/02/2023	71851	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72759	Daily CSO Default 3-4	04/23/2023	72759	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
CSO-063 (CAMERON & HANOVER)					
68770	Daily CSO Default 3-4	01/03/2023	68770	Wooden Block	Rain
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
71063	Daily CSO Default 3-4	03/04/2023	71063	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
71705	Daily CSO Default 3-4	03/28/2023	71705	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72490	Daily CSO Default 3-4	04/17/2023	72490	Wooden Block	Rain
72959	Daily CSO Site Inspection	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74578	Daily CSO Default 3-4	06/13/2023	74578	Wooden Block	Rain
74654	Daily CSO Default 3-4	06/15/2023	74654	Wooden Block	Rain
74825	Daily CSO Default 3-4	06/22/2023	74825	Wooden Block	Rain
74852	Daily CSO Default 3-4	06/23/2023	74852	Wooden Block	Rain
74904	Daily CSO Default 3-4	06/24/2023	74904	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain
74962	Daily CSO Default 3-4	06/27/2023	74962	Wooden Block	Rain
74974	Daily CSO Default 3-4	06/28/2023	74974	Wooden Block	Rain
CSO-064 (CAMERON & MAGNOLIA)					
68776	Daily CSO Default 3-4	01/04/2023	68776	Wooden Block	Rain
68874	Daily CSO Default 3-4	01/06/2023	68874	Wooden Block	Rain
71655	Daily CSO Default 3-4	03/24/2023	71655	Wooden Block	Rain
72487	Daily CSO Default 3-4	04/16/2023	72487	Wooden Block	Rain
72959	Daily CSO Default 3-4	04/30/2023	72959	Wooden Block	Rain
72966	Daily CSO Default 3-4	05/01/2023	72966	Wooden Block	Rain
74268	Daily CSO Default 3-4	06/04/2023	74268	Wooden Block	Rain
74387	Daily CSO Default 3-4	06/07/2023	74387	Wooden Block	Rain
74929	Daily CSO Default 3-4	06/25/2023	74929	Wooden Block	Rain

APPENDIX K-3B

H&H MODEL SIMULATION
COMBINED SEWER OVERFLOW REPORT

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
CSO-04					2,843,000
1/3/23 8:10	1/3/23 11:40	0.66	5.4	3.5	222,594
1/19/23 7:40	1/19/23 14:20	0.40	7.0	3.8	90,566
1/22/23 21:20	1/22/23 21:30	0.28	6.6	0.2	3,203
1/25/23 11:30	1/25/23 20:10	0.60	5.9	6.5	140,147
2/16/23 13:40	2/16/23 14:30	0.19	2.9	0.8	18,888
2/27/23 22:00	2/27/23 22:30	0.34	5.5	0.5	10,672
3/3/23 18:50	3/4/23 0:40	1.23	7.8	5.8	422,606
3/10/23 16:00	3/10/23 17:20	0.19	2.4	1.3	34,181
3/23/23 4:50	3/23/23 20:20	0.63	5.6	4.5	84,154
3/25/23 8:40	3/25/23 9:20	0.21	2.8	0.7	21,244
4/1/23 7:50	4/1/23 8:40	0.21	4.3	0.8	42,683
4/15/23 11:30	4/15/23 13:00	0.23	5.3	1.5	257,572
4/22/23 13:50	4/22/23 16:20	0.91	4.3	2.5	174,650
4/28/23 12:30	4/29/23 0:40	1.17	12.3	7.8	222,921
4/30/23 1:30	4/30/23 17:20	3.12	14.6	15.8	924,915
6/12/23 12:50	6/12/23 13:50	0.47	4.5	1.0	52,083
6/23/23 6:20	6/23/23 9:10	1.18	3.9	2.8	87,956
6/24/23 18:40	6/24/23 19:00	0.42	1.1	0.3	7,013
6/26/23 12:30	6/26/23 13:20	0.43	4.7	0.8	25,272
CSO-05					3,833,000
1/3/23 8:20	1/3/23 11:40	0.68	5.8	3.3	315,849
1/19/23 8:30	1/19/23 14:20	0.47	7.2	2.3	78,307
1/25/23 11:50	1/25/23 19:30	0.55	6.5	4.2	121,958
2/16/23 14:00	2/16/23 14:30	0.22	2.8	0.5	11,301
3/3/23 19:00	3/4/23 0:40	1.27	8.5	5.7	634,296
3/10/23 16:30	3/10/23 17:20	0.25	3.2	0.8	27,137
3/23/23 19:20	3/23/23 20:20	0.49	5.7	1.0	61,316
3/25/23 8:50	3/25/23 9:20	0.22	3.1	0.5	17,625
4/1/23 7:50	4/1/23 8:40	0.39	5.6	0.8	52,122
4/15/23 11:30	4/15/23 13:10	0.80	5.6	1.7	409,865
4/22/23 14:00	4/22/23 16:20	0.58	4.3	2.3	256,194
4/28/23 12:30	4/29/23 0:30	1.02	13.8	6.3	267,992
4/30/23 1:30	4/30/23 17:20	2.46	15.8	14.2	1,366,976
6/12/23 13:00	6/12/23 14:00	0.40	6.1	1.0	74,179
6/23/23 6:30	6/23/23 9:20	0.45	4.5	2.8	115,149
6/26/23 12:40	6/26/23 13:20	0.33	4.8	0.7	23,147
CSO-06					1,335,000
1/3/23 8:30	1/3/23 10:40	0.68	5.8	2.0	103,641
1/19/23 13:30	1/19/23 14:20	0.48	7.3	0.8	11,177
1/25/23 11:50	1/25/23 13:20	0.56	6.6	1.2	16,853
3/3/23 19:30	3/4/23 0:30	1.27	8.5	4.5	215,669
3/10/23 16:50	3/10/23 17:30	0.25	3.2	0.5	3,394
3/23/23 19:30	3/23/23 20:20	0.48	5.8	0.8	27,442
4/1/23 8:00	4/1/23 8:30	0.39	5.8	0.5	5,766
4/15/23 11:30	4/15/23 13:00	0.83	5.7	1.3	155,405
4/22/23 14:10	4/22/23 16:10	0.58	4.3	2.0	98,001
4/28/23 18:50	4/28/23 21:50	1.02	13.8	3.0	46,654
4/30/23 1:30	4/30/23 17:20	2.40	16.1	11.7	498,860
6/3/23 19:10	6/3/23 20:10	0.06	0.5	1.0	63,403
6/12/23 13:00	6/12/23 13:40	0.42	6.3	0.7	14,248
6/23/23 6:30	6/23/23 9:20	0.46	4.5	2.2	25,947
6/26/23 12:20	6/26/23 13:30	0.33	4.9	1.2	48,821
CSO-07					1,603,000
1/3/23 8:20	1/3/23 10:10	0.70	5.4	1.8	125,732
1/19/23 13:20	1/19/23 14:10	0.48	7.7	0.8	22,595

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
1/25/23 11:50	1/25/23 13:00	0.58	7.5	1.2	25,808
2/27/23 22:10	2/27/23 22:20	0.35	6.3	0.2	2,099
3/3/23 19:20	3/4/23 0:20	1.31	8.2	4.5	250,294
3/10/23 16:40	3/10/23 17:10	0.26	2.6	0.5	6,178
3/23/23 19:20	3/23/23 20:10	0.52	6.3	0.8	37,232
3/25/23 8:50	3/25/23 9:10	0.22	3.0	0.3	3,578
4/1/23 8:00	4/1/23 8:20	0.34	5.3	0.3	10,231
4/15/23 11:30	4/15/23 12:40	0.80	6.1	1.2	166,588
4/22/23 14:00	4/22/23 16:00	0.64	4.2	2.0	118,322
4/28/23 18:40	4/28/23 20:50	1.01	13.3	2.2	61,506
4/30/23 1:30	4/30/23 15:30	2.61	16.1	9.7	566,515
6/3/23 19:10	6/3/23 20:00	0.40	0.6	0.8	79,235
6/6/23 13:20	6/6/23 13:40	0.17	0.8	0.3	4,665
6/12/23 13:00	6/12/23 13:30	0.39	6.4	0.5	20,838
6/23/23 6:20	6/23/23 9:00	0.49	4.3	2.2	40,721
6/26/23 12:20	6/26/23 13:20	0.57	4.8	1.0	61,036
CSO-08					5,924,000
1/3/23 8:20	1/3/23 11:30	0.70	5.3	3.2	439,261
1/19/23 8:30	1/19/23 14:10	0.48	7.5	2.5	130,951
1/25/23 11:20	1/25/23 17:20	0.58	7.5	3.3	166,381
2/16/23 13:40	2/16/23 14:30	0.22	2.8	0.8	43,809
2/27/23 22:00	2/27/23 22:20	0.35	6.2	0.3	21,072
3/3/23 18:50	3/4/23 0:30	1.31	8.2	5.7	825,538
3/10/23 16:40	3/10/23 17:30	0.26	2.6	0.8	49,076
3/23/23 4:30	3/23/23 20:30	0.51	6.3	3.5	194,658
3/25/23 8:50	3/25/23 9:10	0.22	2.9	0.3	24,019
4/1/23 8:00	4/1/23 8:30	0.34	5.3	0.5	33,860
4/15/23 11:30	4/15/23 13:00	0.79	5.7	1.5	541,867
4/22/23 14:00	4/22/23 16:00	0.64	4.2	2.0	377,570
4/28/23 18:40	4/28/23 23:40	1.01	13.3	4.8	291,192
4/30/23 1:30	4/30/23 16:40	2.62	16.0	13.7	1,982,478
6/3/23 19:10	6/3/23 20:10	0.42	0.6	1.0	260,008
6/6/23 13:20	6/6/23 13:50	0.16	0.8	0.5	40,464
6/12/23 13:00	6/12/23 13:30	0.39	6.0	0.5	64,238
6/23/23 6:10	6/23/23 9:00	0.50	4.2	2.8	178,206
6/26/23 12:10	6/26/23 13:40	0.56	4.1	1.5	259,318
CSO-09					8,931,000
1/3/23 8:30	1/3/23 11:50	0.70	5.3	3.3	685,740
1/19/23 13:30	1/19/23 14:30	0.48	7.5	1.0	100,566
1/25/23 11:50	1/25/23 13:30	0.58	7.5	1.7	170,163
2/27/23 22:10	2/27/23 22:40	0.36	6.2	0.5	26,816
3/3/23 19:50	3/4/23 1:00	1.30	8.2	4.8	1,257,040
3/23/23 19:20	3/23/23 20:50	0.54	6.3	1.5	280,308
4/15/23 11:20	4/15/23 13:30	0.81	5.7	2.2	817,849
4/22/23 14:10	4/22/23 16:30	0.64	4.2	2.3	597,791
4/28/23 18:40	4/28/23 22:20	1.01	13.3	3.7	480,310
4/30/23 1:30	4/30/23 17:30	2.62	16.0	13.3	3,103,031
6/3/23 19:10	6/3/23 20:40	0.44	0.6	1.5	430,765
6/6/23 13:10	6/6/23 14:10	0.19	0.8	1.0	136,077
6/12/23 13:00	6/12/23 13:40	0.39	6.0	0.7	80,540
6/23/23 7:20	6/23/23 9:40	0.50	4.2	2.3	270,649
6/26/23 12:10	6/26/23 14:00	0.60	4.1	1.8	492,872
CSO-10					5,692,000
1/3/23 8:20	1/3/23 12:40	0.69	5.3	4.3	394,591
1/19/23 8:30	1/19/23 15:30	0.48	7.5	4.0	121,367
1/23/23 7:20	1/23/23 8:20	0.36	7.3	1.0	7,520

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
1/25/23 11:30	1/25/23 21:00	0.59	7.5	7.2	210,453
2/16/23 14:00	2/16/23 15:20	0.22	2.8	1.3	16,298
2/27/23 20:40	2/27/23 23:30	0.38	6.2	2.7	54,321
3/3/23 18:40	3/4/23 1:30	1.29	8.2	6.8	765,496
3/10/23 16:30	3/10/23 18:30	0.26	2.6	2.0	42,983
3/23/23 4:40	3/23/23 21:30	0.60	6.3	3.2	182,236
3/25/23 8:40	3/25/23 10:10	0.22	2.9	1.3	21,750
4/1/23 8:00	4/1/23 9:00	0.28	5.3	1.0	12,494
4/15/23 11:20	4/15/23 14:10	0.85	5.7	2.7	487,661
4/22/23 14:00	4/22/23 17:50	0.66	4.2	3.8	358,991
4/28/23 11:40	4/29/23 1:20	1.03	13.3	9.3	359,687
4/30/23 1:30	4/30/23 18:30	2.61	16.0	16.8	1,797,433
6/3/23 19:10	6/3/23 21:10	0.49	0.6	2.0	254,872
6/6/23 13:10	6/6/23 15:00	0.26	0.8	1.7	72,605
6/12/23 12:50	6/12/23 18:00	0.38	6.0	3.2	61,145
6/23/23 6:20	6/23/23 10:40	0.50	4.2	4.3	185,624
6/26/23 12:10	6/26/23 14:40	0.70	4.1	2.5	284,615
CSO-11					4,527,000
1/3/23 8:20	1/3/23 11:40	0.69	5.3	3.3	316,840
1/19/23 8:40	1/19/23 14:30	0.48	7.6	2.0	91,547
1/25/23 11:40	1/25/23 17:50	0.59	6.8	2.3	129,051
2/27/23 22:00	2/27/23 22:40	0.38	6.1	0.7	31,147
3/3/23 19:10	3/4/23 0:40	1.29	8.8	5.2	595,195
3/10/23 16:40	3/10/23 17:30	0.26	2.8	0.8	35,676
3/23/23 19:20	3/23/23 20:30	0.60	6.1	1.2	137,810
3/25/23 8:50	3/25/23 9:20	0.21	3.3	0.5	17,622
4/1/23 8:00	4/1/23 8:30	0.28	4.8	0.5	19,077
4/15/23 11:20	4/15/23 13:00	0.85	5.8	1.7	346,169
4/22/23 14:00	4/22/23 16:10	0.66	4.1	2.2	284,899
4/28/23 18:30	4/29/23 0:30	1.03	13.8	4.3	256,335
4/30/23 1:30	4/30/23 17:30	2.61	16.4	11.8	1,442,395
6/3/23 19:00	6/3/23 20:20	0.49	0.6	1.3	257,107
6/6/23 13:10	6/6/23 14:10	0.26	0.8	1.0	69,319
6/12/23 12:50	6/12/23 13:50	0.39	6.2	1.0	82,244
6/23/23 6:10	6/23/23 9:30	0.50	4.1	3.2	186,403
6/26/23 12:10	6/26/23 13:40	0.70	4.4	1.5	228,284
CSO-12					2,582,000
1/3/23 8:20	1/3/23 11:30	0.69	5.3	3.2	177,850
1/19/23 8:40	1/19/23 14:20	0.48	7.6	1.8	38,249
1/25/23 11:40	1/25/23 17:40	0.59	6.8	2.2	57,195
2/27/23 22:00	2/27/23 22:40	0.38	6.1	0.7	12,900
3/3/23 19:20	3/4/23 0:40	1.29	8.8	5.0	345,426
3/10/23 16:40	3/10/23 17:20	0.26	2.8	0.7	11,258
3/23/23 4:30	3/23/23 20:30	0.58	6.1	1.7	91,784
3/25/23 8:50	3/25/23 9:10	0.21	3.3	0.3	4,834
4/1/23 8:00	4/1/23 8:20	0.28	4.8	0.3	4,293
4/15/23 11:20	4/15/23 13:00	0.78	5.8	1.7	219,714
4/22/23 14:00	4/22/23 16:10	0.65	4.1	2.2	168,703
4/28/23 18:30	4/29/23 0:10	1.03	13.8	3.8	129,274
4/30/23 1:30	4/30/23 17:10	2.65	16.4	11.7	835,408
6/3/23 19:00	6/3/23 20:20	0.54	0.6	1.3	156,913
6/6/23 13:10	6/6/23 14:10	0.24	0.8	1.0	51,904
6/12/23 12:50	6/12/23 13:40	0.42	6.2	0.8	39,906
6/23/23 6:10	6/23/23 9:20	0.54	4.1	2.8	89,287
6/26/23 12:10	6/26/23 13:40	0.69	4.4	1.5	147,496
CSO-13					1,053,000

CAPITAL REGION WATER
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Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
1/3/23 8:30	1/3/23 9:30	0.68	5.3	1.0	71,610
3/3/23 21:30	3/4/23 0:00	1.29	8.8	2.2	120,511
3/23/23 19:20	3/23/23 20:00	0.61	6.3	0.5	44,833
4/15/23 11:30	4/15/23 12:20	0.80	5.9	0.8	112,037
4/22/23 14:20	4/22/23 15:30	0.65	4.1	1.2	71,065
4/30/23 1:30	4/30/23 9:40	2.65	16.6	4.0	388,573
6/3/23 19:00	6/3/23 19:40	0.55	0.7	0.7	107,244
6/6/23 13:10	6/6/23 13:40	0.27	0.8	0.5	18,813
6/12/23 12:50	6/12/23 13:10	0.41	6.3	0.3	25,637
6/23/23 7:30	6/23/23 7:40	0.53	4.3	0.2	7,147
6/26/23 12:10	6/26/23 13:00	0.71	4.7	0.8	85,447
CSO-14					2,953,000
1/3/23 8:20	1/3/23 11:40	0.68	5.3	2.3	183,992
1/19/23 8:40	1/19/23 14:30	0.47	7.8	0.8	14,915
1/25/23 11:40	1/25/23 17:40	0.59	6.8	1.5	30,882
2/27/23 22:00	2/27/23 22:40	0.38	6.2	0.3	2,862
3/3/23 19:20	3/4/23 0:40	1.29	8.8	4.3	382,332
3/10/23 16:40	3/10/23 17:30	0.25	2.8	0.7	4,442
3/23/23 4:30	3/23/23 20:40	0.62	6.3	1.7	97,578
4/15/23 11:30	4/15/23 13:10	0.75	5.9	1.5	228,331
4/22/23 13:50	4/22/23 16:20	0.65	4.1	2.2	186,186
4/28/23 12:40	4/29/23 0:00	1.04	13.8	3.2	88,974
4/30/23 1:30	4/30/23 17:20	2.69	16.6	9.8	1,022,244
6/3/23 19:00	6/3/23 20:30	0.60	0.7	1.5	272,422
6/6/23 13:10	6/6/23 14:20	0.27	0.8	1.0	61,277
6/12/23 12:50	6/12/23 14:00	0.43	6.3	1.0	64,884
6/23/23 6:10	6/23/23 9:30	0.56	4.3	2.5	108,543
6/26/23 12:10	6/26/23 13:50	0.72	4.7	1.5	203,243
CSO-15					2,199,000
1/3/23 8:40	1/3/23 11:50	0.67	5.5	3.2	141,825
1/19/23 13:50	1/19/23 14:30	0.46	7.8	0.5	3,915
1/25/23 12:10	1/25/23 13:20	0.59	6.8	1.0	12,159
3/3/23 20:00	3/4/23 1:10	1.28	8.8	4.5	319,348
3/23/23 19:30	3/23/23 21:10	0.65	6.3	1.7	70,307
4/15/23 11:30	4/15/23 13:40	0.70	6.0	2.0	161,663
4/22/23 14:20	4/22/23 16:40	0.64	4.1	2.3	134,856
4/28/23 18:50	4/28/23 22:20	1.05	13.8	3.3	84,154
4/30/23 1:40	4/30/23 17:40	2.74	16.6	13.7	839,455
6/3/23 19:10	6/3/23 21:00	0.66	0.7	1.8	171,603
6/6/23 13:20	6/6/23 14:30	0.30	0.8	1.0	32,270
6/12/23 13:00	6/12/23 14:00	0.46	6.3	0.8	20,974
6/23/23 7:10	6/23/23 9:40	0.60	4.3	2.5	68,063
6/26/23 12:20	6/26/23 14:20	0.74	5.0	1.8	138,850
CSO-16					793,000
1/3/23 8:10	1/3/23 9:40	0.66	5.1	1.5	46,479
1/19/23 13:20	1/19/23 13:40	0.46	7.8	0.3	2,768
1/25/23 11:50	1/25/23 12:10	0.59	6.7	0.3	2,926
3/3/23 19:50	3/4/23 0:00	1.27	8.7	3.7	89,497
3/23/23 4:20	3/23/23 20:00	0.66	6.1	1.3	35,295
4/15/23 11:20	4/15/23 12:20	0.72	5.6	1.0	71,768
4/22/23 14:00	4/22/23 15:30	0.64	4.0	1.5	44,428
4/28/23 18:30	4/28/23 20:30	1.05	13.8	2.0	15,663
4/30/23 1:30	4/30/23 14:20	2.73	16.3	7.3	288,869
6/3/23 19:00	6/3/23 19:40	0.65	0.7	0.7	73,923
6/6/23 13:10	6/6/23 13:40	0.33	0.8	0.5	23,422
6/12/23 12:50	6/12/23 13:20	0.45	5.5	0.5	17,096

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Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
6/23/23 6:10	6/23/23 7:50	0.59	4.1	1.5	21,568
6/26/23 12:10	6/26/23 13:10	0.76	4.8	1.0	58,884
CSO-17					258,000
1/3/23 8:40	1/3/23 9:20	0.67	4.9	0.7	7,115
3/3/23 21:40	3/3/23 23:00	1.28	8.7	0.7	10,025
3/23/23 19:30	3/23/23 19:50	0.66	6.1	0.3	10,313
4/15/23 11:40	4/15/23 12:00	0.78	5.4	0.3	13,242
4/22/23 14:40	4/22/23 15:10	0.65	4.0	0.3	2,178
4/30/23 1:40	4/30/23 8:10	2.70	16.3	2.0	125,780
6/3/23 19:00	6/3/23 19:30	0.62	0.6	0.3	37,947
6/6/23 13:20	6/6/23 13:40	0.32	0.8	0.2	5,192
6/12/23 12:50	6/12/23 13:10	0.43	5.2	0.3	16,626
6/23/23 6:10	6/23/23 7:40	0.56	4.0	0.5	5,351
6/26/23 12:20	6/26/23 13:00	0.76	4.2	0.7	24,289
CSO-18					3,474,000
1/3/23 8:10	1/3/23 11:40	0.65	5.4	2.0	183,237
1/19/23 8:30	1/19/23 14:30	0.43	7.6	0.8	28,391
1/25/23 11:40	1/25/23 19:00	0.61	6.7	2.0	54,874
2/27/23 21:50	2/27/23 22:40	0.37	6.1	0.3	8,607
3/3/23 18:50	3/4/23 0:50	1.26	8.7	4.3	470,188
3/23/23 4:20	3/23/23 20:50	0.66	5.9	1.7	115,242
3/25/23 8:50	3/25/23 9:20	0.22	3.1	0.2	3,104
4/15/23 11:30	4/15/23 13:00	0.53	5.7	1.0	148,719
4/22/23 13:50	4/22/23 16:20	0.64	3.9	2.0	187,385
4/28/23 12:20	4/29/23 0:30	1.09	13.7	2.3	127,658
4/30/23 1:30	4/30/23 17:30	2.85	16.5	11.8	1,317,674
6/3/23 19:00	6/3/23 20:40	0.73	0.7	0.8	271,499
6/6/23 13:10	6/6/23 14:20	0.35	0.8	0.7	75,290
6/12/23 12:50	6/12/23 17:20	0.56	5.6	0.7	88,262
6/23/23 6:10	6/23/23 9:40	0.73	4.1	2.7	189,447
6/24/23 18:50	6/24/23 19:30	0.23	1.2	0.3	9,270
6/26/23 12:10	6/26/23 14:00	0.77	4.8	1.0	194,781
CSO-19					2,227,000
1/3/23 8:10	1/3/23 11:30	0.65	5.6	3.3	123,272
1/19/23 8:30	1/19/23 14:20	0.44	7.6	1.3	21,431
1/25/23 11:30	1/25/23 17:40	0.61	6.8	2.2	37,411
2/16/23 13:50	2/16/23 14:20	0.21	3.0	0.5	3,724
2/27/23 22:00	2/27/23 22:30	0.38	6.1	0.5	6,423
3/3/23 19:20	3/4/23 0:20	1.26	8.8	4.5	229,133
3/10/23 16:40	3/10/23 17:20	0.23	2.8	0.7	6,889
3/23/23 4:20	3/23/23 20:20	0.67	6.1	1.8	86,272
3/25/23 8:50	3/25/23 9:10	0.22	3.2	0.3	5,369
4/15/23 11:40	4/15/23 12:40	0.57	5.8	1.0	70,690
4/22/23 13:40	4/22/23 16:00	0.64	4.0	2.3	128,262
4/28/23 12:30	4/29/23 0:00	1.08	13.8	4.5	95,418
4/30/23 1:30	4/30/23 17:10	2.83	16.6	12.2	793,521
6/3/23 19:00	6/3/23 20:10	0.72	0.7	1.2	188,426
6/6/23 13:10	6/6/23 14:10	0.35	0.8	1.0	68,932
6/12/23 12:50	6/12/23 17:20	0.54	5.7	1.2	83,391
6/23/23 6:00	6/23/23 9:20	0.70	4.2	2.8	140,292
6/24/23 18:50	6/24/23 19:40	0.20	1.2	0.8	40,772
6/26/23 12:20	6/26/23 13:30	0.77	5.0	1.2	97,108
CSO-20					33,000
1/3/23 8:40	1/3/23 8:50	0.66	5.7	0.2	178
3/3/23 21:40	3/3/23 22:50	1.25	8.8	0.2	328
3/23/23 19:30	3/23/23 19:40	0.66	6.1	0.2	684

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Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
4/15/23 11:40	4/15/23 11:50	0.47	5.8	0.2	656
4/30/23 1:30	4/30/23 9:20	2.90	16.7	2.5	20,259
6/3/23 19:00	6/3/23 19:20	0.70	0.7	0.3	4,733
6/6/23 13:10	6/6/23 13:30	0.36	0.8	0.3	1,213
6/12/23 12:50	6/12/23 13:10	0.59	5.8	0.3	1,759
6/23/23 6:00	6/23/23 7:20	0.79	4.2	0.3	1,332
6/24/23 18:50	6/24/23 19:00	0.28	1.3	0.2	988
6/26/23 12:30	6/26/23 12:40	0.70	5.4	0.2	439
CSO-21					8,827,000
1/3/23 8:10	1/4/23 1:00	0.66	5.5	13.2	531,253
1/13/23 0:20	1/13/23 5:30	0.11	2.8	0.2	319
1/19/23 7:40	1/20/23 4:20	0.41	7.0	17.8	279,428
1/25/23 11:20	1/26/23 8:40	0.61	6.7	16.5	261,722
2/16/23 13:30	2/16/23 19:10	0.20	2.8	2.7	37,625
2/27/23 18:50	2/28/23 1:30	0.36	5.8	3.8	54,116
3/3/23 15:50	3/4/23 14:50	1.25	8.0	20.0	996,014
3/10/23 15:50	3/11/23 2:00	0.22	2.4	7.7	109,976
3/23/23 4:40	3/24/23 5:00	0.65	5.7	9.5	150,828
3/25/23 8:40	3/25/23 15:30	0.22	2.9	1.0	26,519
4/1/23 4:50	4/1/23 22:30	0.22	4.2	2.5	77,392
4/15/23 11:30	4/15/23 22:30	0.39	5.4	6.2	451,182
4/22/23 13:40	4/23/23 3:30	0.71	4.1	9.8	443,863
4/28/23 10:20	4/29/23 18:10	1.12	12.5	19.8	679,667
4/30/23 1:30	5/1/23 11:10	2.95	15.0	32.0	2,670,035
5/1/23 11:10	5/2/23 7:00	0.05	2.1	15.0	145,799
6/3/23 19:10	6/4/23 6:50	0.64	0.6	8.5	244,367
6/6/23 13:20	6/6/23 21:00	0.36	0.8	0.7	5,545
6/12/23 12:20	6/12/23 23:00	0.62	4.9	6.3	172,293
6/16/23 9:40	6/16/23 22:20	0.14	2.8	0.8	12,274
6/23/23 6:00	6/24/23 0:40	0.87	3.4	14.8	537,470
6/24/23 14:00	6/25/23 7:40	0.33	1.0	13.3	122,592
6/25/23 10:10	6/26/23 1:10	0.04	1.1	11.8	218,663
6/26/23 1:10	6/28/23 7:50	0.59	4.7	46.0	597,924
CSO-22					385,000
1/3/23 8:40	1/3/23 11:30	0.70	5.3	0.5	15,390
3/3/23 21:40	3/4/23 6:50	1.32	8.5	1.7	47,840
4/15/23 11:40	4/15/23 12:50	0.81	5.4	0.8	45,404
4/22/23 14:30	4/22/23 16:30	0.62	4.1	1.2	19,004
4/30/23 1:40	5/1/23 6:00	2.57	15.8	12.2	245,550
6/3/23 19:10	6/3/23 19:50	0.32	0.6	0.7	11,508
CSO-23					293,000
1/3/23 8:20	1/3/23 9:20	0.70	5.3	1.0	10,166
1/19/23 13:20	1/19/23 13:30	0.48	7.3	0.2	158
3/3/23 21:00	3/4/23 0:20	1.32	8.2	2.7	47,066
3/23/23 19:20	3/23/23 19:50	0.48	5.8	0.3	5,242
4/1/23 7:50	4/1/23 8:00	0.37	5.2	0.2	2,377
4/15/23 11:30	4/15/23 12:00	0.76	5.3	0.5	13,290
4/22/23 14:00	4/22/23 15:20	0.63	4.1	1.2	6,210
4/30/23 1:30	4/30/23 11:00	2.62	15.3	3.8	133,430
6/3/23 19:00	6/3/23 19:40	0.39	0.6	0.7	49,028
6/12/23 12:50	6/12/23 13:10	0.39	5.7	0.3	10,100
6/23/23 6:10	6/23/23 7:40	0.50	4.0	0.7	7,703
6/26/23 12:20	6/26/23 13:00	0.50	3.7	0.7	7,935
CSO-24					3,109,000
1/3/23 8:10	1/3/23 12:10	0.69	5.3	1.7	234,519
1/19/23 7:50	1/19/23 15:10	0.48	7.4	0.5	8,607

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Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
1/25/23 11:20	1/25/23 20:20	0.60	7.4	0.8	11,565
3/3/23 18:40	3/4/23 1:20	1.32	8.8	3.5	485,975
3/10/23 16:10	3/10/23 18:00	0.25	2.8	0.2	3,974
3/23/23 4:40	3/23/23 21:10	0.54	6.3	0.8	50,453
4/1/23 7:50	4/1/23 9:10	0.31	5.1	0.2	2,873
4/15/23 11:30	4/15/23 13:40	0.54	5.4	1.2	254,780
4/22/23 13:40	4/22/23 17:00	0.63	4.3	1.8	221,224
4/28/23 11:10	4/29/23 1:00	1.01	13.7	2.0	74,233
4/30/23 1:30	4/30/23 18:00	2.78	16.8	5.5	1,216,722
6/3/23 19:00	6/3/23 21:00	0.68	0.6	1.0	257,418
6/12/23 12:50	6/12/23 17:30	0.52	5.9	0.7	78,001
6/23/23 6:10	6/23/23 10:10	0.65	3.9	2.0	89,316
6/26/23 12:10	6/26/23 14:20	0.63	4.5	1.0	119,500
CSO-25					623,000
3/3/23 21:40	3/4/23 14:50	1.31	8.8	5.3	52,906
4/15/23 11:50	4/15/23 12:20	0.62	5.8	0.2	3,551
4/30/23 1:40	5/1/23 11:10	2.72	16.6	15.5	470,830
5/1/23 11:10	5/2/23 7:00	0.05	1.8	12.2	73,863
6/3/23 19:00	6/3/23 19:30	0.59	0.6	0.5	19,408
6/12/23 12:50	6/12/23 13:20	0.48	6.4	0.2	1,935
6/26/23 12:30	6/26/23 13:20	0.60	4.7	0.2	769
CSO-26					4,326,000
1/3/23 8:10	1/3/23 13:20	0.69	5.3	4.8	213,020
1/19/23 8:20	1/19/23 15:00	0.48	7.3	3.0	78,616
1/23/23 4:10	1/23/23 4:50	0.35	7.3	0.5	1,401
1/25/23 11:10	1/25/23 21:00	0.60	6.8	6.8	132,765
2/16/23 13:30	2/16/23 14:40	0.21	2.8	1.2	21,093
2/17/23 6:50	2/17/23 7:00	0.15	3.3	0.2	1,924
2/21/23 2:20	2/21/23 2:50	0.16	2.6	0.5	6,577
2/27/23 18:50	2/27/23 22:40	0.37	6.0	3.8	52,533
3/3/23 18:40	3/4/23 3:50	1.31	8.8	8.8	566,714
3/10/23 16:10	3/10/23 18:10	0.25	2.8	1.8	33,758
3/23/23 4:20	3/23/23 20:20	0.54	5.9	3.5	96,592
3/25/23 8:40	3/25/23 9:20	0.21	3.3	0.7	14,930
4/1/23 7:50	4/1/23 8:30	0.30	4.6	0.7	25,445
4/15/23 11:40	4/15/23 13:10	0.52	5.3	1.3	87,226
4/22/23 13:40	4/22/23 18:10	0.63	3.8	2.8	185,547
4/28/23 11:10	4/29/23 1:50	1.02	13.7	8.8	216,324
4/30/23 1:30	4/30/23 21:50	2.79	16.3	19.8	1,777,447
6/3/23 19:00	6/3/23 21:10	0.70	0.6	1.8	293,224
6/6/23 13:20	6/6/23 13:50	0.16	0.8	0.5	10,503
6/12/23 12:50	6/12/23 17:50	0.54	5.7	2.0	151,828
6/23/23 6:10	6/23/23 10:40	0.66	3.9	4.0	222,109
6/25/23 13:20	6/25/23 14:10	0.16	0.8	0.8	21,808
6/26/23 12:10	6/26/23 14:10	0.64	4.3	1.5	114,515
CSO-27					909,000
1/3/23 8:10	1/3/23 11:40	0.68	5.3	1.7	39,233
1/19/23 8:30	1/19/23 14:20	0.48	7.3	1.3	9,825
1/25/23 11:20	1/25/23 17:50	0.61	7.4	2.2	16,005
2/27/23 20:50	2/27/23 22:40	0.37	6.1	0.7	3,168
3/3/23 18:50	3/4/23 5:00	1.31	8.8	6.5	93,869
3/10/23 16:10	3/10/23 17:20	0.25	2.8	1.0	5,353
3/23/23 19:20	3/23/23 20:10	0.55	6.2	0.7	18,182
3/25/23 8:50	3/25/23 9:00	0.21	3.3	0.2	1,483
4/1/23 7:50	4/1/23 8:10	0.29	4.8	0.3	7,255
4/15/23 11:30	4/15/23 12:20	0.41	5.3	0.8	34,110

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
4/22/23 13:50	4/22/23 16:10	0.65	4.1	1.8	39,986
4/28/23 12:30	4/29/23 0:50	1.02	13.8	2.5	20,970
4/30/23 1:30	5/1/23 0:00	2.78	16.6	15.5	445,762
6/3/23 19:00	6/3/23 19:30	0.73	0.6	0.5	79,391
6/6/23 13:20	6/6/23 13:30	0.14	0.8	0.2	2,592
6/12/23 12:50	6/12/23 17:30	0.61	5.8	0.7	27,840
6/23/23 6:10	6/23/23 9:40	0.74	3.9	1.5	31,310
6/25/23 13:20	6/25/23 14:00	0.17	0.8	0.3	1,901
6/26/23 12:10	6/26/23 13:30	0.64	4.6	1.0	30,835
CSO-28					4,058,000
1/3/23 8:30	1/3/23 11:50	0.69	5.3	1.8	137,190
1/19/23 13:30	1/19/23 14:40	0.48	7.3	1.0	19,662
1/25/23 11:50	1/25/23 13:30	0.60	6.8	1.5	30,344
2/27/23 22:10	2/27/23 22:50	0.37	6.0	0.7	5,722
3/3/23 19:20	3/4/23 3:40	1.31	8.8	5.3	638,967
3/10/23 17:00	3/10/23 17:30	0.25	2.8	0.5	3,879
3/23/23 19:20	3/23/23 20:50	0.54	5.9	1.2	53,400
4/1/23 8:00	4/1/23 8:30	0.30	4.6	0.5	2,973
4/15/23 11:40	4/15/23 13:20	0.52	5.3	1.3	116,556
4/22/23 14:00	4/22/23 16:40	0.63	3.8	2.2	137,056
4/28/23 18:30	4/28/23 22:30	1.02	13.7	3.0	90,891
4/30/23 1:40	4/30/23 21:00	2.79	16.3	13.3	2,212,369
6/3/23 19:00	6/3/23 21:00	0.70	0.6	1.3	284,447
6/6/23 13:20	6/6/23 14:10	0.16	0.8	0.7	7,444
6/12/23 12:50	6/12/23 14:30	0.54	5.7	1.3	77,924
6/23/23 6:10	6/23/23 10:00	0.66	3.9	3.0	116,721
6/26/23 12:20	6/26/23 14:20	0.64	4.3	1.5	122,051
CSO-29					4,169,000
1/3/23 8:00	1/3/23 12:30	0.68	5.4	3.7	202,710
1/13/23 1:10	1/13/23 1:20	0.11	3.0	0.2	1,226
1/19/23 7:40	1/19/23 15:10	0.47	7.8	5.0	86,974
1/22/23 21:10	1/23/23 7:50	0.35	7.6	6.2	27,744
1/25/23 11:10	1/25/23 21:10	0.60	6.8	7.8	135,518
2/16/23 13:20	2/16/23 14:50	0.21	2.9	1.5	24,224
2/17/23 6:20	2/17/23 10:40	0.15	3.3	3.0	19,347
2/21/23 2:10	2/21/23 3:00	0.16	2.7	0.8	10,328
2/22/23 12:50	2/22/23 13:30	0.12	1.9	0.7	6,463
2/27/23 18:40	2/27/23 22:50	0.37	6.2	4.2	59,949
3/3/23 16:50	3/4/23 2:50	1.31	8.8	9.0	639,185
3/10/23 16:00	3/10/23 17:40	0.25	2.8	1.7	34,574
3/23/23 4:20	3/23/23 21:00	0.57	6.3	6.5	113,135
3/25/23 8:30	3/25/23 9:30	0.21	3.3	1.0	17,578
4/1/23 7:50	4/1/23 8:40	0.29	4.8	0.8	25,376
4/15/23 11:30	4/15/23 13:20	0.54	5.8	1.5	92,681
4/22/23 13:30	4/22/23 17:50	0.63	3.8	2.7	185,601
4/28/23 10:50	4/29/23 5:10	1.03	13.8	8.5	188,026
4/30/23 1:30	4/30/23 20:30	2.79	16.5	15.3	1,483,928
6/3/23 19:00	6/3/23 21:20	0.71	0.7	1.8	252,566
6/6/23 13:10	6/6/23 14:00	0.20	0.8	0.8	14,035
6/12/23 12:50	6/12/23 18:00	0.53	5.8	2.3	161,178
6/23/23 6:00	6/23/23 10:30	0.66	4.3	3.8	240,418
6/25/23 13:20	6/25/23 14:10	0.14	1.1	0.8	20,437
6/26/23 12:10	6/27/23 19:40	0.66	4.8	2.3	126,030
CSO-30					688,000
1/3/23 8:30	1/3/23 9:30	0.68	5.6	1.0	22,898
3/3/23 21:30	3/4/23 0:20	1.31	8.8	1.5	49,848

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
3/23/23 19:20	3/23/23 19:50	0.55	6.4	0.5	18,090
4/15/23 11:30	4/15/23 12:10	0.43	5.8	0.7	45,642
4/22/23 14:10	4/22/23 15:30	0.65	4.1	1.3	21,088
4/30/23 1:30	4/30/23 17:40	2.78	16.6	9.7	334,652
6/3/23 19:00	6/3/23 19:40	0.73	0.7	0.7	79,781
6/6/23 13:10	6/6/23 13:40	0.14	0.8	0.5	22,147
6/12/23 12:50	6/12/23 13:20	0.60	5.8	0.5	22,904
6/23/23 6:10	6/23/23 7:50	0.73	4.3	0.7	16,519
6/26/23 12:10	6/26/23 13:10	0.64	5.1	1.0	54,697
CSO-31					16,257,000
1/3/23 8:10	1/3/23 13:10	0.65	5.1	4.8	745,249
1/19/23 8:20	1/19/23 15:50	0.44	7.6	4.8	260,751
1/25/23 11:20	1/25/23 21:30	0.60	6.7	8.3	474,000
2/16/23 13:30	2/16/23 17:10	0.21	2.9	3.5	94,745
2/17/23 6:50	2/17/23 11:40	0.15	3.3	2.8	34,738
2/21/23 2:10	2/21/23 4:10	0.16	2.6	2.0	42,228
2/22/23 13:00	2/22/23 14:50	0.11	1.9	1.7	25,091
2/27/23 18:50	2/28/23 0:20	0.38	6.1	5.3	211,667
3/3/23 17:00	3/4/23 2:30	1.27	8.7	9.3	1,971,899
3/10/23 16:10	3/10/23 18:40	0.24	2.8	2.5	105,724
3/23/23 4:20	3/23/23 21:40	0.67	5.9	3.8	324,057
3/25/23 8:40	3/25/23 10:20	0.22	3.1	1.5	49,364
4/1/23 7:50	4/1/23 10:10	0.23	4.4	2.2	68,335
4/15/23 11:40	4/15/23 14:00	0.63	5.5	2.2	155,141
4/22/23 13:30	4/22/23 18:20	0.64	3.8	4.8	788,922
4/28/23 11:00	4/29/23 2:10	1.06	13.7	11.3	793,572
4/30/23 1:30	4/30/23 19:10	2.79	16.3	16.7	6,593,833
6/3/23 19:00	6/3/23 21:50	0.71	0.7	2.8	1,264,758
6/6/23 13:20	6/6/23 14:30	0.34	0.8	1.2	27,157
6/12/23 12:50	6/12/23 18:20	0.51	5.3	4.2	662,460
6/23/23 6:00	6/23/23 11:00	0.66	4.1	5.0	1,128,976
6/25/23 13:20	6/25/23 15:10	0.08	1.1	1.7	63,933
6/26/23 12:20	6/26/23 14:50	0.77	4.5	2.5	370,224
CSO-32					4,874,000
1/3/23 8:00	1/4/23 1:00	0.67	5.7	16.8	189,258
1/5/23 19:30	1/6/23 19:50	0.08	2.3	24.3	48,646
1/9/23 2:10	1/9/23 15:20	0.08	0.9	13.2	31,339
1/12/23 1:40	1/12/23 19:40	0.08	2.5	18.0	38,716
1/12/23 23:00	1/13/23 17:20	0.11	3.0	18.3	51,207
1/19/23 2:50	1/20/23 11:30	0.47	7.8	32.7	152,046
1/22/23 14:10	1/23/23 20:00	0.32	7.7	29.8	119,407
1/25/23 6:00	1/26/23 8:40	0.61	7.5	26.7	189,739
2/16/23 12:20	2/17/23 5:10	0.20	2.9	16.8	67,301
2/17/23 5:10	2/17/23 23:40	0.15	3.3	18.5	65,094
2/21/23 0:40	2/21/23 15:50	0.17	2.7	15.2	53,046
2/22/23 11:00	2/23/23 1:40	0.12	2.0	14.7	43,576
2/27/23 14:20	2/28/23 21:20	0.37	6.2	31.0	134,183
3/2/23 2:30	3/2/23 18:30	0.05	2.6	16.0	32,298
3/3/23 13:50	3/4/23 14:50	1.30	8.8	24.5	358,503
3/10/23 13:20	3/11/23 7:50	0.24	2.8	18.5	75,655
3/17/23 2:10	3/17/23 18:00	0.09	4.8	15.8	34,011
3/22/23 23:40	3/24/23 5:10	0.56	6.4	29.5	196,167
3/24/23 5:00	3/24/23 20:40	0.04	2.3	15.7	31,803
3/25/23 0:20	3/26/23 0:50	0.21	3.3	24.5	77,372
3/27/23 13:30	3/28/23 8:00	0.12	2.1	18.5	52,357
4/1/23 1:10	4/2/23 7:40	0.28	5.0	30.5	72,930

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
4/14/23 21:30	4/15/23 23:50	0.31	5.8	26.3	181,217
4/15/23 23:40	4/16/23 12:30	0.03	0.6	12.8	23,750
4/22/23 13:00	4/23/23 9:30	0.69	4.3	20.5	182,415
4/26/23 1:10	4/26/23 19:00	0.07	4.3	17.8	32,603
4/28/23 8:30	4/29/23 18:10	1.02	13.9	33.7	294,090
4/29/23 21:50	5/1/23 11:10	2.77	16.5	36.7	865,338
5/1/23 11:10	5/2/23 7:00	0.04	1.8	19.8	34,504
5/13/23 3:00	5/14/23 2:10	0.04	3.4	23.2	40,612
5/20/23 16:20	5/21/23 6:50	0.08	1.6	14.5	27,533
6/3/23 19:00	6/4/23 7:40	0.75	0.7	12.7	190,103
6/6/23 13:00	6/7/23 1:50	0.13	0.8	12.8	92,786
6/12/23 8:50	6/13/23 5:40	0.66	5.9	20.8	132,885
6/14/23 4:00	6/15/23 3:50	0.10	4.5	23.8	45,030
6/16/23 6:20	6/16/23 22:20	0.16	3.1	16.0	39,724
6/21/23 19:50	6/22/23 23:30	0.31	6.8	27.7	78,529
6/23/23 3:40	6/24/23 0:40	0.83	4.3	21.0	180,437
6/24/23 14:00	6/25/23 7:40	0.05	1.3	17.7	49,077
6/25/23 10:10	6/26/23 1:10	0.16	1.2	15.0	32,115
6/26/23 1:10	6/28/23 7:50	0.64	5.5	54.7	237,076
CSO-33					2,038,000
1/3/23 8:20	1/3/23 13:40	0.65	5.4	4.2	116,046
3/3/23 21:30	3/4/23 6:00	1.27	8.8	8.0	269,847
3/23/23 19:20	3/23/23 19:50	0.67	6.1	0.5	41,694
4/15/23 11:40	4/15/23 12:00	0.63	5.8	0.3	30,822
4/22/23 14:00	4/22/23 15:20	0.64	4.0	1.3	70,217
4/28/23 18:30	4/29/23 0:10	1.06	13.8	3.8	66,844
4/30/23 1:30	5/1/23 2:50	2.80	16.5	23.2	968,829
6/3/23 19:00	6/3/23 19:40	0.71	0.7	0.7	167,612
6/6/23 13:10	6/6/23 13:30	0.34	0.8	0.3	18,022
6/12/23 12:50	6/12/23 13:20	0.51	5.5	0.5	76,522
6/23/23 6:10	6/23/23 9:30	0.66	4.2	3.2	144,485
6/26/23 12:20	6/26/23 13:00	0.77	4.9	0.7	67,053
CSO-34					7,877,000
1/3/23 8:00	1/3/23 12:30	0.66	5.5	4.3	367,109
1/9/23 2:50	1/9/23 3:10	0.08	0.9	0.2	345
1/19/23 7:40	1/19/23 15:00	0.44	7.7	4.3	116,737
1/22/23 21:30	1/23/23 8:00	0.31	7.5	1.8	8,455
1/25/23 11:00	1/25/23 21:10	0.61	6.8	7.5	219,371
2/16/23 13:20	2/16/23 15:20	0.20	2.9	1.8	37,300
2/17/23 6:30	2/17/23 11:00	0.15	3.3	1.7	13,289
2/21/23 2:00	2/21/23 3:40	0.16	2.7	1.5	17,636
2/22/23 13:00	2/22/23 13:50	0.11	2.0	0.8	5,615
2/27/23 18:40	2/27/23 23:20	0.37	6.2	4.5	77,700
3/3/23 16:40	3/4/23 3:30	1.27	8.8	10.8	1,004,488
3/10/23 16:00	3/10/23 18:10	0.23	2.8	2.2	49,467
3/23/23 4:20	3/23/23 21:00	0.61	6.3	4.7	218,006
3/25/23 8:30	3/25/23 9:50	0.21	3.3	1.3	30,569
3/27/23 14:40	3/27/23 15:30	0.14	2.1	0.7	3,990
4/1/23 7:50	4/1/23 8:50	0.24	4.8	1.0	22,173
4/15/23 11:30	4/15/23 13:10	0.38	5.8	1.7	111,279
4/22/23 13:20	4/22/23 17:50	0.68	4.1	4.0	388,670
4/28/23 10:40	4/29/23 1:20	1.06	13.8	9.7	343,624
4/30/23 1:10	4/30/23 21:20	2.81	16.5	18.8	3,029,372
6/3/23 19:00	6/3/23 21:10	0.73	0.7	1.8	615,588
6/6/23 13:10	6/6/23 14:30	0.23	0.8	1.3	62,590
6/12/23 12:50	6/12/23 18:00	0.63	5.6	2.7	300,503

CAPITAL REGION WATER
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01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
6/16/23 9:50	6/16/23 10:30	0.16	3.1	0.5	3,119
6/23/23 6:00	6/23/23 10:20	0.82	4.3	4.3	563,647
6/24/23 18:50	6/24/23 19:50	0.15	1.2	0.8	18,945
6/25/23 13:20	6/25/23 14:20	0.12	1.1	1.0	13,926
6/26/23 12:10	6/27/23 19:40	0.69	5.0	2.5	233,385
CSO-37					9,129,000
1/3/23 8:00	1/3/23 12:20	0.66	5.5	3.8	513,069
1/19/23 7:40	1/19/23 15:00	0.44	7.3	3.0	186,771
1/25/23 11:00	1/25/23 21:00	0.61	6.8	6.8	363,913
2/16/23 13:20	2/16/23 15:20	0.20	2.8	1.5	71,735
2/17/23 6:30	2/17/23 10:40	0.15	3.3	0.7	10,184
2/21/23 2:00	2/21/23 3:30	0.16	2.6	0.8	22,787
2/27/23 18:40	2/27/23 23:20	0.36	6.1	4.0	160,069
3/3/23 16:50	3/4/23 1:00	1.28	8.8	6.0	953,176
3/10/23 16:00	3/10/23 18:10	0.23	2.8	1.7	91,849
3/23/23 4:20	3/23/23 21:00	0.61	6.1	2.5	370,206
3/25/23 8:30	3/25/23 10:00	0.21	3.3	1.0	59,068
3/27/23 13:40	3/27/23 15:40	0.14	2.0	0.5	6,707
4/1/23 7:50	4/1/23 8:50	0.25	4.7	0.7	24,303
4/15/23 11:20	4/15/23 13:20	0.35	5.6	1.7	418,076
4/22/23 13:30	4/22/23 16:40	0.69	4.0	2.7	463,125
4/28/23 10:40	4/29/23 1:20	1.06	13.7	8.5	592,319
4/30/23 1:30	4/30/23 19:10	2.81	16.4	15.8	2,810,981
6/3/23 19:00	6/3/23 20:40	0.74	0.7	1.3	573,130
6/6/23 13:10	6/6/23 14:40	0.22	0.8	1.2	237,773
6/12/23 12:50	6/12/23 18:00	0.64	5.2	2.0	259,127
6/23/23 6:00	6/23/23 10:10	0.84	4.1	3.7	438,310
6/24/23 18:50	6/24/23 20:00	0.14	1.1	0.8	52,719
6/26/23 12:00	6/26/23 14:00	0.68	4.9	1.7	449,461
CSO-38					2,614,000
1/3/23 8:20	1/3/23 10:00	0.65	5.1	1.7	131,443
1/19/23 13:30	1/19/23 14:00	0.44	7.6	0.5	11,320
1/25/23 11:50	1/25/23 12:30	0.60	6.7	0.7	15,630
3/3/23 19:50	3/4/23 4:10	1.27	8.7	7.5	357,815
3/23/23 4:40	3/23/23 20:10	0.67	5.9	1.0	90,531
4/15/23 11:30	4/15/23 12:30	0.63	5.5	1.0	135,433
4/22/23 14:00	4/22/23 15:40	0.64	3.8	1.7	132,648
4/28/23 18:30	4/28/23 20:40	1.06	13.7	2.2	67,461
4/30/23 1:30	4/30/23 22:10	2.79	16.3	17.2	1,064,080
6/3/23 19:00	6/3/23 20:00	0.71	0.7	1.0	207,253
6/6/23 13:10	6/6/23 13:50	0.34	0.8	0.7	67,565
6/12/23 12:50	6/12/23 13:30	0.51	5.3	0.7	70,881
6/23/23 6:10	6/23/23 8:00	0.66	4.1	1.8	108,484
6/26/23 12:10	6/26/23 13:20	0.77	4.5	1.2	153,256
CSO-39					2,996,000
1/3/23 8:10	1/3/23 15:00	0.65	5.4	4.8	135,459
1/19/23 8:20	1/19/23 14:10	0.44	7.6	2.3	35,908
1/25/23 11:20	1/25/23 20:40	0.60	6.8	6.2	61,535
2/16/23 13:50	2/16/23 14:10	0.21	2.9	0.3	3,901
2/27/23 20:40	2/27/23 22:30	0.38	6.1	1.5	13,517
3/3/23 18:40	3/4/23 7:00	1.27	8.8	8.2	480,533
3/10/23 16:30	3/10/23 17:10	0.24	2.8	0.7	9,583
3/23/23 4:20	3/23/23 20:10	0.67	6.1	3.2	68,638
3/25/23 8:40	3/25/23 9:10	0.22	3.2	0.5	7,170
4/1/23 7:50	4/1/23 8:10	0.23	4.5	0.3	4,750
4/15/23 11:40	4/15/23 12:20	0.62	5.8	0.7	39,721

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
4/22/23 13:40	4/22/23 19:00	0.64	4.0	2.8	111,324
4/28/23 12:20	4/29/23 2:50	1.06	13.8	7.5	127,413
4/30/23 1:30	5/1/23 5:30	2.80	16.5	19.0	1,270,410
6/3/23 19:00	6/3/23 20:00	0.71	0.7	1.0	227,578
6/6/23 13:10	6/6/23 13:50	0.33	0.8	0.7	22,737
6/12/23 12:50	6/12/23 17:40	0.51	5.5	1.5	98,915
6/23/23 6:00	6/23/23 11:30	0.67	4.2	3.8	198,617
6/24/23 18:50	6/24/23 19:10	0.16	1.2	0.3	4,459
6/26/23 12:20	6/26/23 13:10	0.77	4.9	0.8	73,659
CSO-40					1,293,000
1/3/23 8:10	1/3/23 12:20	0.66	5.3	3.3	53,793
1/19/23 8:20	1/19/23 14:00	0.44	6.8	2.5	21,156
1/25/23 11:30	1/25/23 17:30	0.61	6.8	3.3	27,390
2/27/23 22:00	2/27/23 22:20	0.36	5.8	0.3	4,168
3/3/23 19:50	3/4/23 5:20	1.27	8.1	7.3	152,267
3/10/23 16:40	3/10/23 17:10	0.23	2.4	0.5	4,881
3/23/23 4:20	3/23/23 20:00	0.61	5.8	4.2	38,713
3/25/23 8:50	3/25/23 9:00	0.21	3.0	0.2	2,119
4/1/23 8:00	4/1/23 8:10	0.24	4.4	0.2	1,766
4/15/23 11:40	4/15/23 12:10	0.35	5.4	0.5	19,565
4/22/23 13:40	4/22/23 17:30	0.69	3.9	2.5	54,476
4/28/23 18:10	4/29/23 0:30	1.06	12.5	4.8	47,484
4/30/23 1:30	5/1/23 1:00	2.81	15.2	17.7	560,990
6/3/23 19:00	6/3/23 19:50	0.74	0.7	0.8	121,319
6/6/23 13:10	6/6/23 13:40	0.22	0.8	0.5	10,867
6/12/23 12:50	6/12/23 13:20	0.64	5.1	0.5	44,579
6/23/23 6:00	6/23/23 9:50	0.84	4.0	3.3	91,149
6/26/23 12:20	6/26/23 13:10	0.68	4.8	0.8	35,944
CSO-41					903,000
1/3/23 8:10	1/3/23 12:00	0.66	5.3	2.3	48,215
1/19/23 8:30	1/19/23 14:10	0.44	6.8	2.0	15,946
1/25/23 11:40	1/25/23 17:30	0.62	6.8	2.8	21,624
2/27/23 22:00	2/27/23 22:20	0.36	5.8	0.3	3,263
3/3/23 19:50	3/4/23 1:00	1.28	8.1	4.5	92,158
3/10/23 16:50	3/10/23 17:10	0.23	2.4	0.3	2,885
3/23/23 4:20	3/23/23 20:10	0.61	5.8	2.2	33,797
3/25/23 8:50	3/25/23 9:00	0.21	3.0	0.2	1,667
4/15/23 11:30	4/15/23 12:20	0.35	5.4	0.8	26,263
4/22/23 13:40	4/22/23 16:20	0.69	3.9	2.2	51,594
4/28/23 18:20	4/29/23 0:40	1.06	12.5	3.0	33,406
4/30/23 1:30	4/30/23 19:30	2.82	15.2	4.7	339,422
6/3/23 19:00	6/3/23 19:50	0.74	0.7	0.8	79,823
6/6/23 13:10	6/6/23 13:50	0.22	0.8	0.7	15,428
6/12/23 12:50	6/12/23 17:40	0.64	5.1	1.5	38,825
6/23/23 6:00	6/23/23 9:50	0.84	4.0	2.3	54,328
6/24/23 18:50	6/24/23 19:10	0.15	1.0	0.3	2,918
6/26/23 12:10	6/26/23 13:40	0.68	4.8	1.3	40,942
CSO-42					10,884,000
1/3/23 8:10	1/3/23 15:30	0.66	5.4	7.3	489,165
1/9/23 3:30	1/9/23 4:40	0.08	0.9	1.2	20,057
1/13/23 0:50	1/13/23 3:10	0.11	3.0	2.3	45,906
1/19/23 7:40	1/19/23 18:10	0.44	7.6	10.5	482,861
1/22/23 16:20	1/23/23 10:40	0.32	7.5	18.3	378,230
1/25/23 11:10	1/25/23 23:50	0.61	6.8	12.7	756,542
2/16/23 13:30	2/16/23 18:40	0.20	2.9	5.2	206,465
2/17/23 6:30	2/17/23 13:30	0.15	3.3	7.0	205,481

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
2/21/23 2:00	2/21/23 5:40	0.16	2.7	3.7	138,340
2/22/23 12:30	2/22/23 16:10	0.11	1.9	3.7	96,147
2/27/23 16:40	2/28/23 2:10	0.37	6.1	9.5	421,897
3/3/23 15:20	3/4/23 4:10	1.27	8.8	12.8	925,038
3/10/23 15:50	3/10/23 20:40	0.23	2.8	4.8	222,563
3/23/23 4:20	3/23/23 23:50	0.63	6.1	15.3	579,367
3/25/23 8:40	3/25/23 14:30	0.22	3.2	5.8	195,124
3/27/23 14:20	3/27/23 18:10	0.14	2.1	3.8	82,441
4/1/23 7:50	4/1/23 11:30	0.24	4.5	3.7	120,699
4/15/23 8:10	4/15/23 15:20	0.44	5.8	6.2	208,015
4/22/23 13:30	4/22/23 20:00	0.67	4.0	6.5	484,824
4/28/23 10:10	4/29/23 6:50	1.06	13.8	20.7	1,063,176
4/30/23 1:00	4/30/23 21:20	2.81	16.5	20.3	1,584,149
5/20/23 18:10	5/20/23 18:40	0.07	1.5	0.5	6,572
6/3/23 19:00	6/3/23 23:20	0.73	0.7	4.3	357,873
6/6/23 13:10	6/6/23 16:10	0.26	0.8	3.0	132,107
6/12/23 12:50	6/12/23 20:00	0.60	5.5	7.2	442,481
6/16/23 10:00	6/16/23 12:00	0.16	3.1	2.0	43,532
6/21/23 22:40	6/22/23 12:50	0.31	6.8	9.0	145,226
6/23/23 6:00	6/23/23 13:00	0.79	4.2	7.0	548,281
6/24/23 18:50	6/24/23 21:30	0.15	1.2	2.7	102,126
6/25/23 13:30	6/25/23 16:10	0.11	1.1	2.7	81,988
6/26/23 12:10	6/27/23 21:10	0.71	4.9	9.0	317,686
CSO-43					658,000
1/3/23 8:10	1/3/23 9:30	0.66	5.3	1.3	29,784
1/19/23 13:20	1/19/23 13:40	0.44	6.8	0.3	3,409
1/25/23 11:40	1/25/23 17:20	0.62	6.8	1.0	7,576
3/3/23 19:50	3/4/23 0:20	1.28	8.1	3.3	71,249
3/23/23 4:20	3/23/23 19:50	0.61	5.8	1.0	20,378
4/15/23 11:40	4/15/23 12:00	0.35	5.4	0.3	14,249
4/22/23 13:50	4/22/23 15:30	0.69	3.9	1.7	33,715
4/28/23 18:20	4/28/23 20:30	1.06	12.5	2.2	18,058
4/30/23 1:30	4/30/23 16:30	2.82	15.2	9.3	244,999
6/3/23 19:00	6/3/23 19:30	0.74	0.7	0.5	93,660
6/6/23 13:10	6/6/23 13:40	0.22	0.8	0.5	6,519
6/12/23 12:50	6/12/23 13:20	0.64	5.1	0.5	37,135
6/23/23 6:10	6/23/23 8:00	0.84	4.0	1.8	50,515
6/26/23 12:20	6/26/23 13:00	0.68	4.8	0.7	27,202
CSO-44					2,785,000
1/3/23 8:10	1/3/23 10:10	0.66	5.6	2.0	169,135
1/19/23 13:20	1/19/23 14:10	0.44	7.2	0.8	28,096
1/25/23 11:40	1/25/23 17:40	0.61	6.8	2.3	49,032
2/27/23 22:00	2/27/23 22:20	0.36	5.8	0.3	7,126
3/3/23 19:20	3/4/23 0:10	1.27	8.2	4.5	340,831
3/10/23 16:50	3/10/23 17:10	0.23	2.4	0.3	5,576
3/23/23 4:20	3/23/23 20:10	0.61	6.0	1.7	110,206
3/25/23 8:50	3/25/23 9:00	0.21	3.0	0.2	4,026
4/15/23 11:40	4/15/23 12:30	0.35	5.5	0.8	61,273
4/22/23 13:40	4/22/23 15:50	0.69	4.1	2.2	189,195
4/28/23 18:10	4/28/23 23:50	1.06	12.7	4.0	125,674
4/30/23 1:30	4/30/23 17:10	2.82	15.3	4.5	775,622
6/3/23 19:00	6/3/23 20:00	0.74	0.7	1.0	329,477
6/6/23 13:10	6/6/23 13:50	0.22	0.8	0.7	56,578
6/12/23 12:50	6/12/23 13:40	0.64	5.3	0.8	156,851
6/23/23 6:00	6/23/23 8:50	0.84	4.0	2.7	245,403
6/24/23 18:50	6/24/23 19:20	0.15	1.1	0.5	30,167

CAPITAL REGION WATER
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Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
6/26/23 12:20	6/26/23 13:10	0.68	5.3	0.8	100,985
CSO-45					734,000
1/3/23 8:20	1/3/23 9:20	0.66	5.6	1.0	40,515
3/3/23 21:30	3/3/23 23:50	1.26	8.2	2.3	83,535
3/23/23 4:20	3/23/23 19:50	0.63	6.0	1.0	36,783
4/15/23 11:40	4/15/23 12:00	0.37	5.5	0.3	25,247
4/22/23 13:50	4/22/23 15:20	0.70	4.1	1.5	51,613
4/28/23 18:20	4/28/23 18:50	1.09	12.7	0.5	13,938
4/30/23 1:30	4/30/23 17:10	2.88	15.3	3.0	209,566
6/3/23 19:00	6/3/23 19:30	0.69	0.7	0.5	82,778
6/6/23 13:10	6/6/23 13:40	0.28	0.8	0.5	33,638
6/12/23 12:50	6/12/23 13:10	0.63	5.3	0.3	34,832
6/23/23 6:00	6/23/23 7:40	0.86	4.0	1.7	68,962
6/24/23 18:50	6/24/23 19:10	0.23	1.1	0.3	26,192
6/26/23 12:20	6/26/23 12:50	0.64	5.3	0.5	25,911
CSO-46					558,000
1/3/23 8:20	1/3/23 9:20	0.66	5.5	1.0	28,541
3/3/23 21:30	3/3/23 23:50	1.25	8.0	2.3	58,144
3/23/23 19:20	3/23/23 19:50	0.65	5.7	0.5	21,682
4/15/23 11:40	4/15/23 12:00	0.39	5.4	0.3	13,606
4/22/23 14:00	4/22/23 15:20	0.71	4.1	1.3	33,251
4/28/23 18:20	4/28/23 18:50	1.12	12.5	0.5	8,399
4/30/23 1:30	4/30/23 17:00	2.95	15.0	3.7	185,777
6/3/23 19:00	6/3/23 19:40	0.64	0.6	0.7	70,518
6/6/23 13:10	6/6/23 13:40	0.36	0.8	0.5	22,379
6/12/23 12:50	6/12/23 13:20	0.62	4.9	0.5	31,648
6/23/23 6:00	6/23/23 7:40	0.87	3.4	1.7	50,974
6/24/23 18:50	6/24/23 19:10	0.33	1.0	0.3	17,026
6/26/23 12:30	6/26/23 13:00	0.59	4.7	0.5	16,542
CSO-48					88,695,000
1/3/23 8:20	1/3/23 13:40	0.66	5.5	5.3	4,550,669
1/19/23 8:30	1/19/23 16:00	0.41	7.0	4.7	1,807,099
1/25/23 11:30	1/25/23 22:00	0.61	6.7	9.0	3,954,776
2/16/23 14:00	2/16/23 15:40	0.20	2.8	1.7	392,046
2/17/23 7:10	2/17/23 8:30	0.15	3.1	1.3	156,644
2/21/23 2:50	2/21/23 3:50	0.17	2.4	1.0	102,574
2/27/23 19:20	2/28/23 0:00	0.36	5.8	4.7	1,451,872
3/3/23 17:10	3/4/23 2:30	1.25	8.0	9.3	9,627,313
3/10/23 16:40	3/10/23 19:00	0.22	2.4	2.3	728,911
3/23/23 4:30	3/23/23 22:30	0.65	5.7	6.3	2,892,501
3/25/23 8:50	3/25/23 10:40	0.22	2.9	1.8	541,212
4/1/23 8:10	4/1/23 9:00	0.21	4.2	0.8	99,751
4/15/23 12:10	4/15/23 13:30	0.39	5.4	1.3	247,772
4/22/23 13:20	4/22/23 19:00	0.71	4.1	5.7	6,309,874
4/28/23 11:20	4/29/23 2:30	1.12	12.5	11.5	6,570,358
4/30/23 1:10	4/30/23 19:50	2.95	15.0	18.7	30,357,781
6/3/23 19:00	6/3/23 22:10	0.64	0.6	3.2	4,617,597
6/6/23 13:30	6/6/23 14:40	0.35	0.8	1.2	303,669
6/12/23 12:50	6/12/23 18:40	0.62	4.9	5.0	2,737,602
6/23/23 6:00	6/23/23 11:50	0.87	3.4	5.8	10,016,600
6/24/23 19:00	6/24/23 20:50	0.33	1.0	1.8	673,602
6/26/23 12:40	6/26/23 14:20	0.59	4.7	1.7	555,006
CSO-49					2,217,000
1/3/23 8:30	1/3/23 11:50	0.66	6.0	3.2	177,746
1/19/23 13:30	1/19/23 14:30	0.42	8.0	1.0	21,436
1/25/23 12:00	1/25/23 13:30	0.61	7.0	1.5	36,760

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Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
3/3/23 19:50	3/4/23 0:50	1.26	9.3	5.0	384,558
3/10/23 17:00	3/10/23 17:30	0.22	2.9	0.5	4,635
3/23/23 19:30	3/23/23 20:40	0.59	6.4	1.0	37,085
4/1/23 8:00	4/1/23 8:40	0.23	5.3	0.7	12,669
4/15/23 11:30	4/15/23 13:20	0.22	6.0	1.8	241,392
4/22/23 14:10	4/22/23 16:30	0.88	4.4	2.3	150,542
4/28/23 19:00	4/28/23 22:20	1.07	14.8	3.2	98,667
4/30/23 1:30	4/30/23 17:40	2.89	17.2	13.3	896,869
6/3/23 19:10	6/3/23 20:20	0.66	0.7	1.2	52,338
6/12/23 13:00	6/12/23 13:50	0.54	5.7	0.8	20,708
6/23/23 7:30	6/23/23 9:40	1.16	5.1	2.2	39,207
6/26/23 12:30	6/26/23 13:40	0.48	6.9	1.2	42,331
CSO-50					2,459,000
1/3/23 8:10	1/3/23 12:30	0.70	5.3	3.7	184,665
1/19/23 7:40	1/19/23 15:10	0.48	7.7	3.3	52,656
1/25/23 11:20	1/25/23 20:50	0.58	6.6	5.7	80,619
2/16/23 13:30	2/16/23 15:30	0.22	2.9	1.3	16,794
2/27/23 18:50	2/27/23 23:20	0.33	6.2	2.3	17,574
3/3/23 18:40	3/4/23 1:10	1.31	8.5	6.0	339,736
3/10/23 16:00	3/10/23 18:20	0.26	3.2	1.7	26,997
3/23/23 4:50	3/23/23 21:00	0.48	6.2	1.3	44,300
3/25/23 8:40	3/25/23 10:00	0.22	3.1	1.0	11,858
4/1/23 7:50	4/1/23 9:20	0.37	5.3	1.0	22,684
4/15/23 11:30	4/15/23 13:40	0.81	5.8	1.8	200,350
4/22/23 13:50	4/22/23 17:30	0.62	4.2	2.7	152,929
4/28/23 11:10	4/29/23 1:20	1.01	13.8	7.7	132,360
4/30/23 1:30	4/30/23 18:20	2.56	15.9	13.7	903,016
6/3/23 19:00	6/3/23 20:50	0.30	0.6	1.3	91,113
6/6/23 13:30	6/6/23 14:20	0.13	0.8	0.5	1,063
6/12/23 12:50	6/12/23 17:50	0.39	6.3	1.2	34,380
6/23/23 6:10	6/23/23 10:30	0.47	4.5	3.7	76,640
6/25/23 13:20	6/25/23 14:40	0.14	0.8	0.7	9,885
6/26/23 12:20	6/26/23 14:10	0.49	4.2	1.5	59,315
CSO-51					7,612,000
1/3/23 8:10	1/3/23 12:40	0.70	5.3	5.3	541,350
1/13/23 0:30	1/13/23 1:40	0.13	3.4	1.8	17,286
1/19/23 7:40	1/19/23 15:20	0.48	7.7	6.7	209,213
1/22/23 21:20	1/23/23 8:10	0.36	7.8	7.2	50,726
1/25/23 11:20	1/25/23 20:50	0.58	6.6	8.7	326,703
2/16/23 13:30	2/16/23 15:20	0.22	2.9	3.5	70,060
2/17/23 6:50	2/17/23 7:30	0.14	3.1	3.0	19,844
2/21/23 2:30	2/21/23 3:10	0.15	2.7	1.7	11,765
2/22/23 13:10	2/22/23 13:40	0.11	1.8	1.3	8,806
2/27/23 18:50	2/27/23 23:20	0.34	6.2	5.2	116,251
3/3/23 16:50	3/4/23 1:30	1.32	8.5	10.3	1,038,668
3/10/23 16:00	3/10/23 18:30	0.26	3.2	3.2	102,894
3/23/23 4:40	3/23/23 21:20	0.48	6.2	6.3	187,154
3/25/23 8:40	3/25/23 10:00	0.22	3.1	2.2	48,820
4/1/23 7:50	4/1/23 9:40	0.37	5.3	2.8	85,306
4/15/23 11:30	4/15/23 14:00	0.76	5.8	3.0	588,857
4/22/23 13:50	4/22/23 17:40	0.63	4.2	4.7	456,903
4/28/23 10:50	4/29/23 1:30	1.00	13.8	11.8	523,381
4/30/23 1:30	4/30/23 18:20	2.62	15.9	17.5	2,317,743
6/3/23 19:10	6/3/23 21:00	0.38	0.6	2.3	233,566
6/6/23 13:20	6/6/23 14:10	0.12	0.8	1.3	18,908
6/12/23 12:50	6/12/23 17:50	0.39	6.3	4.3	139,753

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
6/16/23 9:50	6/16/23 10:30	0.17	3.1	1.0	11,030
6/22/23 11:00	6/22/23 11:30	0.35	7.3	2.2	15,157
6/23/23 6:10	6/23/23 10:30	0.49	4.5	5.0	263,083
6/25/23 13:30	6/25/23 14:20	0.15	0.8	1.3	28,291
6/26/23 12:20	6/26/23 21:30	0.50	4.2	3.2	180,737
CSO-52					2,992,000
1/3/23 8:10	1/3/23 11:40	0.70	5.3	3.3	186,504
1/19/23 8:30	1/19/23 14:20	0.48	7.6	1.5	31,876
1/25/23 11:30	1/25/23 19:20	0.58	6.6	3.0	56,871
2/16/23 13:50	2/16/23 14:30	0.22	2.7	0.5	2,847
2/27/23 21:50	2/27/23 22:40	0.34	6.1	0.8	12,415
3/3/23 18:50	3/4/23 0:40	1.31	8.2	5.3	367,288
3/10/23 16:30	3/10/23 17:20	0.26	2.6	0.8	13,160
3/23/23 4:20	3/23/23 20:40	0.49	6.2	2.0	125,815
3/25/23 8:40	3/25/23 9:20	0.22	3.0	0.5	7,872
4/1/23 8:00	4/1/23 8:10	0.36	5.2	0.2	788
4/15/23 11:20	4/15/23 13:00	0.78	5.7	1.7	183,564
4/22/23 13:50	4/22/23 16:10	0.63	4.2	2.3	183,122
4/28/23 12:20	4/29/23 0:30	1.00	13.3	4.7	135,844
4/30/23 1:30	4/30/23 17:20	2.60	15.6	12.3	940,448
6/3/23 19:00	6/3/23 20:20	0.36	0.6	1.3	241,364
6/6/23 13:10	6/6/23 14:20	0.13	0.8	1.0	86,206
6/12/23 12:50	6/12/23 13:50	0.39	6.2	1.0	78,358
6/23/23 6:10	6/23/23 9:30	0.49	4.3	3.2	145,156
6/24/23 18:50	6/24/23 19:10	0.06	0.9	0.3	3,606
6/26/23 12:10	6/26/23 13:40	0.51	4.1	1.5	188,928
CSO-53					747,000
1/3/23 8:40	1/3/23 9:50	0.66	5.1	1.2	41,074
3/3/23 21:40	3/4/23 0:10	1.27	8.7	2.5	87,356
3/23/23 19:30	3/23/23 20:10	0.67	6.1	0.7	30,696
4/15/23 11:40	4/15/23 12:30	0.66	5.6	0.8	61,124
4/22/23 14:20	4/22/23 15:40	0.64	4.0	1.3	42,787
4/30/23 1:40	4/30/23 10:40	2.78	16.3	4.8	274,255
6/3/23 19:10	6/3/23 19:50	0.69	0.7	0.7	86,508
6/6/23 13:20	6/6/23 13:50	0.33	0.8	0.5	19,253
6/12/23 13:00	6/12/23 13:30	0.49	5.5	0.5	16,356
6/23/23 6:20	6/23/23 8:00	0.64	4.1	1.3	23,323
6/26/23 12:20	6/26/23 13:10	0.77	4.8	0.8	64,038
CSO-54					1,047,000
1/3/23 8:10	1/3/23 9:50	0.66	5.1	1.7	60,414
1/19/23 13:20	1/19/23 14:00	0.45	7.8	0.7	8,843
1/25/23 11:40	1/25/23 12:30	0.60	6.7	0.8	10,984
3/3/23 19:50	3/4/23 0:10	1.27	8.7	3.5	115,589
3/23/23 4:20	3/23/23 20:10	0.67	6.1	1.3	48,824
3/25/23 8:50	3/25/23 9:00	0.22	3.1	0.2	803
4/15/23 11:20	4/15/23 12:20	0.66	5.6	1.0	73,179
4/22/23 13:50	4/22/23 15:40	0.64	4.0	1.8	60,865
4/28/23 18:20	4/28/23 20:30	1.06	13.8	2.2	31,898
4/30/23 1:30	4/30/23 14:50	2.78	16.3	6.3	326,955
6/3/23 19:00	6/3/23 19:50	0.69	0.7	0.8	110,974
6/6/23 13:10	6/6/23 13:50	0.33	0.8	0.7	37,061
6/12/23 12:50	6/12/23 13:20	0.49	5.5	0.5	33,485
6/23/23 6:10	6/23/23 8:00	0.64	4.1	1.8	46,624
6/24/23 18:50	6/24/23 19:10	0.15	1.3	0.3	3,597
6/26/23 12:10	6/26/23 13:10	0.77	4.8	1.0	76,801
CSO-55					1,606,000

CAPITAL REGION WATER
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01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
1/3/23 8:30	1/3/23 10:00	0.65	5.1	1.5	95,121
3/3/23 21:30	3/4/23 0:10	1.27	8.7	2.7	192,978
3/23/23 19:20	3/23/23 20:10	0.67	6.1	0.8	60,686
4/15/23 11:30	4/15/23 12:30	0.63	5.6	1.0	111,663
4/22/23 14:10	4/22/23 15:40	0.64	4.0	1.5	93,447
4/28/23 18:30	4/28/23 20:40	1.06	13.8	1.8	31,233
4/30/23 1:30	4/30/23 10:50	2.79	16.3	5.5	529,970
6/3/23 19:00	6/3/23 20:00	0.71	0.7	1.0	183,914
6/6/23 13:10	6/6/23 13:50	0.34	0.8	0.7	55,999
6/12/23 12:50	6/12/23 13:30	0.51	5.5	0.7	55,931
6/23/23 6:10	6/23/23 8:00	0.66	4.1	1.8	69,145
6/26/23 12:10	6/26/23 13:20	0.77	4.8	1.2	126,105
CSO-56					1,422,000
1/3/23 8:20	1/3/23 10:00	0.65	5.1	1.7	82,974
1/19/23 13:30	1/19/23 14:10	0.44	7.6	0.7	10,335
1/25/23 11:50	1/25/23 12:40	0.60	6.7	0.7	13,567
3/3/23 20:00	3/4/23 0:10	1.27	8.7	3.2	157,380
3/23/23 4:20	3/23/23 20:10	0.67	5.9	1.5	56,403
4/15/23 11:30	4/15/23 12:30	0.63	5.5	1.0	91,285
4/22/23 14:00	4/22/23 15:50	0.64	3.8	1.8	83,540
4/28/23 18:30	4/28/23 20:40	1.06	13.7	2.2	46,495
4/30/23 1:30	4/30/23 15:10	2.79	16.3	7.0	456,799
6/3/23 19:00	6/3/23 20:00	0.71	0.7	1.0	143,671
6/6/23 13:10	6/6/23 14:00	0.34	0.8	0.8	50,235
6/12/23 12:50	6/12/23 13:30	0.51	5.3	0.7	50,538
6/23/23 6:10	6/23/23 8:10	0.66	4.1	2.0	72,009
6/24/23 19:00	6/24/23 19:20	0.16	1.2	0.2	2,708
6/26/23 12:10	6/26/23 13:20	0.77	4.5	1.2	103,881
CSO-57					1,790,000
1/3/23 8:10	1/3/23 10:10	0.65	5.4	2.8	97,581
1/19/23 13:20	1/19/23 14:10	0.44	7.6	1.0	21,857
1/25/23 11:40	1/25/23 17:20	0.60	6.7	2.0	38,144
2/27/23 22:00	2/27/23 22:20	0.38	6.1	0.5	7,735
3/3/23 19:50	3/4/23 0:10	1.27	8.7	4.5	188,319
1/0/00 0:00	1/0/00 0:10	0.24	2.8	0.3	4,071
3/23/23 4:20	3/23/23 20:10	0.67	5.9	1.8	75,805
3/25/23 8:50	3/25/23 9:00	0.22	3.1	0.3	3,714
4/15/23 11:30	4/15/23 12:30	0.61	5.7	1.3	82,365
4/22/23 13:50	4/22/23 15:50	0.64	3.9	2.2	98,839
4/28/23 18:20	4/28/23 20:40	1.07	13.7	4.2	93,885
4/30/23 1:30	4/30/23 15:20	2.80	16.5	10.2	589,048
6/3/23 19:00	6/3/23 19:50	0.71	0.7	1.3	142,616
6/6/23 13:10	6/6/23 13:50	0.34	0.8	1.0	58,836
6/12/23 12:50	6/12/23 13:30	0.52	5.6	1.0	60,597
6/23/23 6:10	6/23/23 8:50	0.67	4.1	2.5	104,259
6/24/23 18:50	6/24/23 19:10	0.17	1.2	0.5	21,424
6/26/23 12:10	6/26/23 13:10	0.77	4.8	1.5	101,149
CSO-58					218,000
1/3/23 8:40	1/3/23 8:50	0.65	5.4	0.2	2,883
3/3/23 21:30	3/3/23 22:50	1.26	8.7	0.8	11,944
3/23/23 19:20	3/23/23 19:40	0.66	5.9	0.2	5,265
4/15/23 11:40	4/15/23 11:50	0.53	5.7	0.2	9,500
4/22/23 14:40	4/22/23 14:50	0.64	3.9	0.2	1,234
4/30/23 1:30	4/30/23 9:20	2.86	16.5	3.0	106,999
6/3/23 19:00	6/3/23 19:20	0.73	0.7	0.3	33,306
6/6/23 13:10	6/6/23 13:30	0.35	0.8	0.3	9,613

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
6/12/23 12:50	6/12/23 13:10	0.57	5.6	0.3	11,121
6/23/23 6:10	6/23/23 7:30	0.73	4.1	0.5	11,480
6/24/23 18:50	6/24/23 19:00	0.23	1.2	0.2	5,578
6/26/23 12:20	6/26/23 12:50	0.77	4.8	0.5	8,667
CSO-59					10,652,000
1/3/23 8:30	1/3/23 12:00	0.66	5.5	3.5	540,856
1/19/23 13:40	1/19/23 14:50	0.41	7.5	1.2	86,134
1/25/23 11:50	1/25/23 20:40	0.61	6.7	5.7	236,144
2/27/23 22:10	2/27/23 23:00	0.36	6.1	0.8	34,773
3/3/23 19:10	3/4/23 1:20	1.25	8.7	6.2	1,253,406
3/10/23 17:00	3/10/23 17:40	0.22	2.8	0.7	22,433
3/23/23 4:50	3/23/23 21:00	0.66	5.8	2.3	229,956
3/25/23 9:10	3/25/23 9:20	0.22	3.0	0.2	3,976
4/22/23 13:40	4/22/23 16:40	0.69	4.1	3.0	693,840
4/28/23 12:40	4/29/23 0:50	1.11	13.8	6.8	467,656
4/30/23 1:40	4/30/23 18:00	2.92	16.4	14.2	4,527,322
6/3/23 19:10	6/3/23 21:00	0.67	0.6	1.7	789,527
6/12/23 13:00	6/12/23 17:40	0.60	5.3	2.5	358,190
6/23/23 6:10	6/23/23 10:30	0.83	4.0	4.3	1,282,382
6/26/23 12:40	6/26/23 13:50	0.65	5.2	1.2	125,601
CSO-60					820,000
1/3/23 8:20	1/3/23 9:20	0.66	5.7	1.0	31,239
3/3/23 21:30	3/4/23 0:00	1.28	8.8	2.3	74,151
3/23/23 19:20	3/23/23 19:50	0.59	6.1	0.5	24,163
4/15/23 11:40	4/15/23 12:00	0.28	5.6	0.3	10,333
4/22/23 13:50	4/22/23 15:40	0.73	4.4	1.8	64,174
4/28/23 18:20	4/28/23 18:40	1.04	13.8	0.3	2,622
4/30/23 1:30	4/30/23 17:30	2.80	16.5	10.8	403,518
6/3/23 19:00	6/3/23 19:40	0.74	0.7	0.7	60,213
6/6/23 13:10	6/6/23 13:40	0.16	0.8	0.5	23,957
6/12/23 12:50	6/12/23 13:10	0.65	5.3	0.3	28,581
6/23/23 6:00	6/23/23 7:50	0.92	4.1	1.5	64,354
6/24/23 18:50	6/24/23 19:20	0.10	1.1	0.5	22,422
6/26/23 12:20	6/26/23 12:50	0.63	5.3	0.5	10,651
CSO-61					1,281,000
1/3/23 8:30	1/3/23 9:20	0.66	5.5	0.2	5,912
3/3/23 21:30	3/3/23 23:50	1.25	8.0	1.2	45,045
3/23/23 19:30	3/23/23 19:50	0.65	5.7	0.3	20,410
4/22/23 13:50	4/22/23 15:30	0.71	4.1	0.8	25,184
4/30/23 1:30	4/30/23 17:10	2.95	15.0	5.7	862,990
6/3/23 19:00	6/3/23 19:40	0.64	0.6	0.5	156,828
6/6/23 13:10	6/6/23 13:30	0.36	0.8	0.2	4,186
6/12/23 12:50	6/12/23 13:10	0.62	4.9	0.2	7,877
6/23/23 6:00	6/23/23 7:50	0.87	3.4	1.0	142,717
6/24/23 18:50	6/24/23 19:20	0.33	1.0	0.2	9,591
CSO-62					1,008,000
1/3/23 8:10	1/3/23 10:00	0.66	5.8	1.0	33,908
1/19/23 8:20	1/19/23 14:10	0.41	7.3	0.2	722
3/3/23 18:40	3/4/23 0:00	1.24	8.0	1.7	77,114
3/23/23 4:20	3/23/23 20:10	0.63	5.8	0.5	31,612
4/22/23 13:20	4/22/23 15:40	0.83	4.3	2.2	71,335
4/28/23 12:20	4/28/23 23:50	1.13	12.6	0.7	11,533
4/30/23 0:50	4/30/23 17:40	3.01	15.3	9.3	446,183
6/3/23 19:00	6/3/23 19:40	0.60	0.7	0.5	93,208
6/6/23 13:10	6/6/23 13:50	0.30	0.8	0.5	31,785
6/12/23 12:50	6/12/23 17:20	0.54	5.2	0.3	23,865

CAPITAL REGION WATER
Combined Sewer Overflow Report by Outfalls - H/H Model Simulation
01/01/2023 - 06/30/2023

Overflow Start Time	Overflow End Time	Amount of Rain (in)	Duration of Rain (hr)	Duration of Overflow (hr)	Volume of Overflow (Gallons)
6/23/23 6:00	6/23/23 8:50	1.08	4.3	1.2	141,866
6/24/23 18:50	6/24/23 19:30	0.35	1.1	0.5	44,465
CSO-63					1,776,000
1/3/23 8:20	1/3/23 9:50	0.66	5.7	1.2	62,035
3/3/23 21:20	3/4/23 0:10	1.23	8.0	2.7	133,326
3/23/23 19:20	3/23/23 20:10	0.63	5.7	0.5	34,098
4/22/23 13:20	4/22/23 15:50	0.87	4.3	2.3	129,201
4/28/23 18:20	4/28/23 20:30	1.16	12.5	0.8	10,858
4/30/23 1:10	4/30/23 18:10	3.09	15.1	12.0	1,015,769
6/3/23 19:00	6/3/23 19:50	0.57	0.6	0.8	103,380
6/6/23 13:10	6/6/23 13:50	0.33	0.8	0.5	21,756
6/12/23 12:50	6/12/23 13:20	0.50	4.8	0.5	11,994
6/23/23 6:00	6/23/23 8:00	1.12	4.1	1.8	204,722
6/24/23 18:50	6/24/23 19:30	0.41	1.1	0.7	48,633
CSO-64					139,000
3/23/23 4:20	3/23/23 19:50	0.62	5.8	0.2	1,271
4/30/23 1:00	4/30/23 15:10	3.09	15.0	1.5	87,199
6/3/23 19:00	6/3/23 19:30	0.57	0.7	0.3	17,144
6/23/23 6:00	6/23/23 7:50	1.17	4.2	0.5	26,954
6/24/23 18:50	6/24/23 19:20	0.40	1.1	0.3	6,134

APPENDIX K-5

DRY WEATHER OVERFLOWS REPORT



<u>InspectionID</u>	<u>Inspection Date</u>	<u>Location</u>	<u>Work Order ID</u>	<u>Overflow Start Time</u>	<u>Overflow Stop Time</u>	<u>Duration of Overflow</u>	<u>Estimated Discharge in Gals.</u>	<u>Estimated Discharge in Gals.Unknown</u>	<u>Comments</u>
CSO-013									
211329	05/11/2023	FRONT & CUMBERLAND	73264	930	945	0.25	214	<input type="checkbox"/>	Gate was blocked with grease in the bypass gate.
214251	06/18/2023	FRONT & CUMBERLAND	74768	800	940	1.75	1,495	<input type="checkbox"/>	
205320	03/16/2023	FRONT & CUMBERLAND	71496	1025	1045	0.25	214	<input type="checkbox"/>	unblocked gate. grease ,rags & paper.
SUMMARY:						2.25	1,923		
AVERAGE:						0.75	641		
CSO-016									
209875	04/20/2023	FRONT & LIBERTY	72616	1112	1212	1.00	122	<input type="checkbox"/>	
SUMMARY:						1.00	122		
AVERAGE:						1.00	122		
CSO-018									
209242	04/11/2023	FRONT & MULBERRY	72358	1015	1030	0.25	174	<input type="checkbox"/>	contractor was using an 4inch to 2inch pump.water was flowing over the weir.
SUMMARY:						0.25	174		
AVERAGE:						0.25	174		

<u>InspectionID</u>	<u>Inspection Date</u>	<u>Location</u>	<u>Work Order ID</u>	<u>Overflow Start Time</u>	<u>Overflow Stop Time</u>	<u>Duration of Overflow</u>	<u>Estimated Discharge in Gals.</u>	<u>Estimated Discharge in Gals.Unknown</u>	<u>Comments</u>
CSO-026									
213347	06/05/2023	S. CAMERON & CUMBERLAND	74280	845	900	0.25	45	<input type="checkbox"/>	
						SUMMARY:	0.25	45	
						AVERAGE:	0.25	45	
CSO-039									
206198	03/29/2023	S. MULBERRY & CAMERON	71722	8:00	9:00	0.50	66	<input type="checkbox"/>	
						SUMMARY:	0.50	66	
						AVERAGE:	0.50	66	
CSO-045									
199775	01/02/2023	S. PAXTON STREET	68764	704	1054	4.00	2,228	<input type="checkbox"/>	
						SUMMARY:	4.00	2,228	
						AVERAGE:	4.00	2,228	



Appendix L

Nine Minimum Control (NMC) Plan Summary Table for Capital Region Water’s Combined Sewer System

Required Actions	Source of Requirement		Current Level of Implementation	Actions Necessary for Achieving Compliance		Supporting Documentation
	NMC Guidance Section	Partial Consent Decree Paragraph		Description	Deadline	
NMC-1: Proper Operation and Regular Maintenance Programs						
1.1: Regulatory Context						
1.2: Organization, Planning & Budget						
1.2.1: Organization and Responsible Staff	2.1	C(11)(a)(xi)(9)	<ul style="list-style-type: none"> Developed organizational structure Increased involvement of wastewater superintendent to provide comprehensive oversight in a single position Hired additional staff to support remedial work; refined field maintenance and operations structure, Headworks at AWTF 	<ul style="list-style-type: none"> Expand/refine the existing org chart 	¹ Annually every Aug 10 th	
1.2.2: Resources Allocated to O&M Activities	2.1	C(11)(a)(xi)(9)	<ul style="list-style-type: none"> Wastewater Division completed level of effort analysis for remedial work and future preventative maintenance CRW budget defines O&M resources 	<ul style="list-style-type: none"> Assess human and equipment resources Develop O&M budget 	Annually every Dec. 31 st Annually every Dec. 31 st	See OMM Section 4.12 See Appendix B
1.2.3: Remedial Work Prioritization	2.1	C(11)(a)(vii)	<ul style="list-style-type: none"> Implemented priority remedial work system, including criticality criteria analysis 	<ul style="list-style-type: none"> Review, refine, apply prioritization criteria 	¹ Annually every Aug. 10 th	
1.2.4: Equipment Purchase Prioritization	2.1	C(11)(a)(viii)	<ul style="list-style-type: none"> Implemented priority equipment purchase system 	<ul style="list-style-type: none"> Review, refine, apply prioritization criteria 	Annually every Dec. 31 st	
1.2.5: O&M Program Review and Revision	2.1	C(11)(a), C(12)	<ul style="list-style-type: none"> Prepared O&M review, revision protocol Implemented revisions to O&M program to incorporate Cityworks and new SOPs 	<ul style="list-style-type: none"> Review, revise O&M program 	Annually w/ submission on Mar. 31 st w/ Ch. 94 Rpt.	
1.3: System Organization and Priorities						
1.3.1 Critical Facilities Definition	2.1	C(11)(a)(i)	<ul style="list-style-type: none"> CRW interceptors, CSO regulators, and pump stations within the conveyance system are defined as critical. Collection system manholes were inspected for use in determining critical sections of the collection system Critical collection system elements are represented in H/H model 	<ul style="list-style-type: none"> Review, refine, apply prioritization criteria 	¹ Annually every Aug. 10 th	See OMM Section 3.1 & 3.3
1.3.2: Critical Equipment Definition	2.1	C(11)(a)(i)	<ul style="list-style-type: none"> Current critical equipment list prepared; updated per recent purchases 	<ul style="list-style-type: none"> Update critical equipment list 	¹ Annually every Aug. 10 th	See OMM Section 3.2 & 3.4
1.3.3: Sewershed / Catchment Delineation	---	C(11)(a)(ii)	<ul style="list-style-type: none"> Preliminary sewershed delineation complete; sewershed boundaries revised if necessary based on collection system manhole inspection 	<ul style="list-style-type: none"> Refine catchment delineation to reflect new information from systemwide CCTV inspection 	Ongoing	
1.3.4: System Characterization and Mapping	---	C(11)(a)(iii)	<ul style="list-style-type: none"> GIS of conveyance system complete Updated GIS of collection system based on manhole inspection data 	<ul style="list-style-type: none"> Continue to refine collection system GIS based from systemwide CCTV inspection 	Ongoing	
1.4: O&M of CSO Regulator Structures						
1.4.1: Inspection Procedures / Schedules	2.1	C(11)(a)(x),(xi)(5)	<ul style="list-style-type: none"> Each regulator inspected daily Prepared CAMP Study Plan Completed CAMP Study 	<ul style="list-style-type: none"> Continue existing daily regulator inspections Address CAMP recommendations during design of future regulator enhancement projects under LTCP implementation. 	Ongoing Ongoing	See OMM Section 4.1.2 to 4.1.6 See CAMP Study Plan, CBH2OPP (LTCP)
1.4.2: Remedial Repair Procedures / Schedules	2.1	---	<ul style="list-style-type: none"> Corrective maintenance performed per inspections 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	See OMM, Section 4.1.4
1.4.3: Maintenance Procedures / Schedules	2.1	---	<ul style="list-style-type: none"> Preventive maintenance performed annually 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	See OMM, Section 4.1.7
1.4.4: Documentation Procedures	2.1	C(11)(a)(xi)(4)	<ul style="list-style-type: none"> Activities recorded in Interceptor Service Reports Cityworks O&M documentation for field work 	<ul style="list-style-type: none"> Continue to update Cityworks for future process changes & regulatory requirements 	Ongoing	See OMM, Section 4.1.8
1.5: O&M of Outfalls / Backflow Prevention						
1.5.1: Inspection Procedures / Schedules	2.1	C(11)(a)(x)	<ul style="list-style-type: none"> Current inspections of diversion weirs/CSO outfalls Performed CD-required inspections of outfalls to assess structural condition / gate integrity Initiate gate inspections prior to predicted flood conditions 	<ul style="list-style-type: none"> Perform river intrusion inspections for key locations 	Ongoing	See CD Par (G)(31)(c) for inspection requirements See OMM Section 4.2.3 to 4.2.6

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Nine Minimum Control (NMC) Plan Summary Table for Capital Region Water’s Combined Sewer System

Required Actions	Source of Requirement		Current Level of Implementation	Actions Necessary for Achieving Compliance		Supporting Documentation
	NMC Guidance Section	Partial Consent Decree Paragraph		Description	Deadline	
1.5.2: Remedial Repair Procedures / Schedules	2.1	G(31)(c)	<ul style="list-style-type: none"> Work done as identified by existing inspections Evaluated outfall/gate condition and susceptibility to river intrusion Defined near-term CSO outfall/regulator reconfiguration strategy for CSOs with <1-yr freeboard Incorporated river intrusion protection into Front St. PS rehab 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements Address potential river intrusion during design of future regulator enhancement projects under baseline CBH2OPP implementation. Implement repairs/replacement for CSOs in critical condition Replace flap gates for identified outfalls 	<p>Ongoing</p> <p>Ongoing</p>	See OMM Section 4.2.4 CBH2OPP (LTCP)
1.5.3: Maintenance Procedures / Schedules	2.1	---	<ul style="list-style-type: none"> Preventive maintenance performed annually. Performed debris removal identified during inspections 	<ul style="list-style-type: none"> Semi-annual gate exercising and maintenance for all gates 	Ongoing	See OMM Section 4.2.7
1.5.4: Documentation Procedures	2.1	C(11)(a)(xi)(4)	<ul style="list-style-type: none"> Activities recorded in Cityworks 	<ul style="list-style-type: none"> Continue to update Cityworks for future process changes & regulatory requirements 	Ongoing	See OMM Section 4.2.8
1.6: O&M of Interceptors						
1.6.1: Inspection Procedures / Schedules	2.1	C(11)(a)(iv)	<ul style="list-style-type: none"> Comprehensive inventory/inspection completed in 2014; post cleaning inspection completed in 2016 	<ul style="list-style-type: none"> Repeat inspections every 5 years following interceptor rehabilitation 	Varies based on cleaning and rehab schedule	See OMM, Section 4.4.3
1.6.2: Remedial Repair Procedures / Schedules	2.1	C(11)(a)(iv)	<ul style="list-style-type: none"> Asylum Run Interceptor rehabilitation completed Front Street Ph. 1 Interceptor completed 	<ul style="list-style-type: none"> Rehabilitate Paxton Creek Interceptor Rehabilitate Front Street Ph 2 Interceptor Rehabilitate Spring Creek Interceptor (in conjunction w/ Spring Creek PS project) 	<p>2032</p> <p>2023</p> <p>TBD</p>	See OMM, Section 4.4.5
1.6.3: Maintenance Procedures / Schedules	2.1	C(11)(a)(xi)(2)	<ul style="list-style-type: none"> 33,500 ft sewer cleaning identified in 2014; completed cleaning in February 2017 	<ul style="list-style-type: none"> Monitor debris levels in interceptor manholes 	Ongoing	See OMM, Section 4.4.4
1.6.4: Documentation Procedures	2.1	C(11)(a)(xi)(4)	<ul style="list-style-type: none"> Activities recorded in Cityworks 	<ul style="list-style-type: none"> Continue to update Cityworks for future process changes & regulatory requirements 	Ongoing	See OMM, Section 4.4.6
1.7: O&M of Pump Stations						
1.7.1: Inspection Procedures / Schedules	2.1	C(11)(a)(xi)(3)	<ul style="list-style-type: none"> Inspected daily, seven days a week 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	See OMM Section 4.3.2
1.7.2: Remedial Repair Procedures / Schedules	2.1	C(11)(a)(xi)(3)	<ul style="list-style-type: none"> Remedial repairs done as needed and as identified by daily inspections Completed Front Street Pump Station upgrade 	<ul style="list-style-type: none"> Spring Creek Pump Station upgrade 	TBD	
1.7.3: Maintenance Procedures / Schedules	2.1	C(11)(a)(xi)(3)	<ul style="list-style-type: none"> Routine, scheduled preventive maintenance 	<ul style="list-style-type: none"> Develop O&M program for rehabilitated Front Street PS 	To Be Determined	See OMM Section 4.3.4.11, 4.3.5.11, 4.3.8
1.7.4: Documentation Procedures	2.1	C(11)(a)(xi)(4)	<ul style="list-style-type: none"> Activities recorded in Operations Log Enhanced tracking and reporting via Cityworks 	<ul style="list-style-type: none"> Continue to update Cityworks 	Ongoing	See OMM Section 4.3
1.8: O&M of Force Mains						
1.8.1: Inspection Procedures / Schedules	2.1	C(11)(a)(v)	<ul style="list-style-type: none"> Periodic inspections by walking force main length Conducted internal inspection of all force mains 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	See OMM Section 4.5.3
1.8.2: Remedial Repair Procedures / Schedules	2.1	C(11)(a)(v)	<ul style="list-style-type: none"> Force main in good condition, no remedial repair required 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	
1.8.3: Maintenance Procedures / Schedules	2.1	---	<ul style="list-style-type: none"> Exercise air release valves semi-annually 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	See OMM Section 4.5.4
1.8.4: Documentation Procedures	2.1	C(11)(a)(xi)(4)	<ul style="list-style-type: none"> Commenced Cityworks O&M documentation for field work 	<ul style="list-style-type: none"> Expand reporting via Cityworks 	Ongoing	See OMM Section 4.5.5
1.9: O&M of Collection System Sewers						
1.9.1: Inspection Procedures / Schedules	2.1	C(11)(a)(iv)	<ul style="list-style-type: none"> Routine inspection of “hot spots” and at each regulator chamber Prioritized systemwide CCTV inspections underway Conducted rapid inspection of each manhole, sewer segment with pole camera; completed manhole inspection data review 	<ul style="list-style-type: none"> Perform systemwide CCTV inspection 	Dec. 31, 2024 June 30, 2025	See OMM Section 4.6.3
1.9.2: Remedial Repair Procedures / Schedules	2.1	C(11)(a)(iv)	<ul style="list-style-type: none"> Limited reactive repairs as follow-up from customer complaints Schedule required remedial activities 	<ul style="list-style-type: none"> Develop rehabilitation project schedule from CCTV inspections 	Ongoing	See OMM Sections 4.6.5, 4.6.6
1.9.3: Maintenance Procedures / Schedules	2.1	C(11)(a)(xi)(2)	<ul style="list-style-type: none"> As required and identified from inspections and customer complaints 	<ul style="list-style-type: none"> Refine and improve existing maintenance procedures and schedule via Cityworks 	Ongoing	See OMM Section 4.6.4
1.9.4: Documentation Procedures	2.1	C(11)(a)(xi)(4)	<ul style="list-style-type: none"> Cityworks O&M documentation for field work 	<ul style="list-style-type: none"> Expand reporting via Cityworks 	Ongoing	See OMM Section 4.6.7

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Nine Minimum Control (NMC) Plan Summary Table for Capital Region Water’s Combined Sewer System

Required Actions	Source of Requirement		Current Level of Implementation	Actions Necessary for Achieving Compliance		Supporting Documentation
	NMC Guidance Section	Partial Consent Decree Paragraph		Description	Deadline	
1.10: O&M of Inlets / Catch Basins						
1.10.1: Inspection Procedures / Schedules	2.1	C(11)(a)(xi)(1)	<ul style="list-style-type: none"> Reactive inspections as follow-up from documented customer complaints Completed initial inlet cleaning and inspection 	<ul style="list-style-type: none"> Inlet inspections every three years 	Complete; Ongoing	See OMM Section 4.7.4
1.10.2: Remedial Repair Procedures / Schedules	2.1	C(11)(a)(xi)(1)	<ul style="list-style-type: none"> Initial repairs performed from inspections 	<ul style="list-style-type: none"> Continued work done as needed as follow-up from inspections 	Complete; Ongoing	
1.10.3: Maintenance Procedures / Schedules	2.1	C(11)(a)(xi)(1)	<ul style="list-style-type: none"> Inlet cleaning conducted as follow-up from documented customer complaints 	<ul style="list-style-type: none"> Current reactive maintenance program evolves to a scheduled preventive maintenance program 	To Be Determined after remedial cleaning	See OMM Sections 4.7.5, 4.7.6
1.10.4: Documentation Procedures	2.1	C(11)(a)(xi)(4)	<ul style="list-style-type: none"> Cityworks O&M documentation for field work 	<ul style="list-style-type: none"> Expand reporting via Cityworks 	Ongoing	See OMM Section 4.7.7
1.11: Source Investigations						
1.11.1: Food service grease traps	---	C(11)(a)(xi)(7)	<ul style="list-style-type: none"> See NMC-3 	<ul style="list-style-type: none"> See NMC-3 	See NMC-3	
1.11.2: Non-Domestic waste streams	---	C(11)(a)(xi)(8)	<ul style="list-style-type: none"> See NMC-3 	<ul style="list-style-type: none"> See NMC-3 	See NMC-3	
1.11.3: Floatables, Solids, Blockages	---	C(11)(a)(xi)(10)	<ul style="list-style-type: none"> See NMC-6 	<ul style="list-style-type: none"> See NMC-6 	See NMC-6	
1.11.4: Sinkholes	---	C(11)(a)(xi)(6)	<ul style="list-style-type: none"> Reactive inspections as follow-up from customer complaints or public works reports Corrective measures implemented as follow-up from completed inspections and investigations Complete remediation of sinkholes known at CD Date of Lodging 	<ul style="list-style-type: none"> Continued reactive inspections from enhanced customer complaint tracking system 	Ongoing	See Appendix C
1.12: Emergency Response Procedures						
1.12.1: Citizen Complaints / Service Requests	2.1	C(11)(a)(vi)	<ul style="list-style-type: none"> Three methods of emergency response reporting available; existing protocols and procedures available Provided emergency protocol for typical emergencies Cityworks documentation 	<ul style="list-style-type: none"> Expand reporting via Cityworks 	Ongoing	See OMM Section 4.10
1.12.2 Emergency Maintenance	2.1	C(11)(a)(vi)	<ul style="list-style-type: none"> Emergency response protocol is in place with contact numbers 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	See OMM Section 4.8 & 4.9
1.13: Training Policies and Procedures	2.1	C(11)(a)(ix)	<ul style="list-style-type: none"> Existing training procedures and classes Implemented NMC training 	<ul style="list-style-type: none"> Consider enhancements to existing training 	¹ Annually every Aug. 10 th	See OMM Section 4.11
1.14: Periodic Review of O&M Plans	2.1	C(12)	<ul style="list-style-type: none"> NMC Plan & OMM preparation 	<ul style="list-style-type: none"> Annual updates to NMC Plan and OMM 	Annually	OMM
NMC-2: Maximum Use of the Collection System for Storage						
2.1: Regulatory Context						
2.2: Combined Sewer System Inspection	3.1	C(11)(b)(iii)	<ul style="list-style-type: none"> See NMC 1.4.1, 1.5.1, 1.6.1, 1.7.1, 1.8.1, 1.9.1, 1.10.1 	<ul style="list-style-type: none"> See NMC 1.4.1, 1.5.1, 1.6.1, 1.7.1, 1.8.1, 1.9.1, 1.10.1 	See NMC 1.4.1, 1.5.1, 1.6.1, 1.7.1, 1.8.1, 1.9.1, 1.10.1	See OMM Sections 4.1, 4.2, 4.3, 4.4, and 4.9
2.3: Reduce River Intrusion	---	C(11)(b)(i) C(11)(b)(iv)	<ul style="list-style-type: none"> See NMC 1.4, 1.5 	<ul style="list-style-type: none"> See NMC 1.4, 1.5 	See NMC 1.4, 1.5	See OMM Sections 4.1, 4.2
2.4: Adjustment of Regulator Settings	3.1	C(11)(b)(ii)	<ul style="list-style-type: none"> Developed H&H Model to assess settings; calibrated H&H model Confirmation inspections and enhanced documentation for existing regulator settings Characterized existing system performance Define initial cost-effective regulator adjustments Implemented Phase 1A regulator modifications 	<ul style="list-style-type: none"> Implement recommended regulator enhancement projects under baseline CBH2OPP implementation. Proceed with Phases 1B, 2, and 3 following completion of other system improvements. 	Ongoing	CBH2OPP (LTCP)
2.5: Installation of In-System Controls	3.1	---	<ul style="list-style-type: none"> Developed H&H Model to assess in-system controls; calibrated H&H model Characterized existing system performance Define cost-effective in-system controls, if any Implemented Phase 1A regulator modifications 	<ul style="list-style-type: none"> Implement decentralized green-grey stormwater controls within collection system as defined under CBH2OPP. Proceed with Phases 1B, 2, and 3 following completion of other system improvements. 	Ongoing	CBH2OPP (LTCP)
2.6: Removal of Obstructions to Flow	3.1	C(11)(b)(iii)	<ul style="list-style-type: none"> See NMC 1.6.3, 1.9.2, 1.10.2 	<ul style="list-style-type: none"> See NMC 1.6.3, 1.9.2, 1.10.2 	See NMC 1.6.3, 1.9.2, 1.10.2	See OMM Sections 4.4.4, 4.6.5, 4.7.5

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Nine Minimum Control (NMC) Plan Summary Table for Capital Region Water’s Combined Sewer System

Required Actions	Source of Requirement		Current Level of Implementation	Actions Necessary for Achieving Compliance		Supporting Documentation
	NMC Guidance Section	Partial Consent Decree Paragraph		Description	Deadline	
2.7: Effectiveness Evaluation	---	C(12)	<ul style="list-style-type: none"> Updated NMC Plan 	<ul style="list-style-type: none"> Review, revise NMC Plan 	¹ Annually every Aug. 10 th	
NMC-3: Review and Modification of Pretreatment Requirements						
3.1: Regulatory Context						
3.2: Inventory Non-Domestic Dischargers						
3.2.1: Existing Pre-Treatment Program	4.1	---	<ul style="list-style-type: none"> Regulate existing list of eight industrial dischargers Reviewed potential facilities for incorporation in pretreatment program 	<ul style="list-style-type: none"> Continue to identify specific facilities with high-risk of wet weather discharge to add to pre-treatment program 	Ongoing	
3.2.2: Other Non-Domestic Dischargers	4.1	---	<ul style="list-style-type: none"> Performed categorical risk assessment of non-domestic land uses, activities of concern in City of Harrisburg Expanded FOG program w/ informational website; developed FOG registry, applications, permits, and guidance; conducting facility inspections 	<ul style="list-style-type: none"> Continue to identify specific facilities, activities, and areas with moderate-risk of wet weather discharge for education, surveillance Continue to implement the new FOG program 	Ongoing Ongoing	See Appendix D
3.3: Assess Impact of Non-Domestic Discharges	4.1	---	<ul style="list-style-type: none"> CRW enforces pretreatment requirements at eight industrial dischargers Established protocol with City for inspections Establish legal authority to inspect and regulate high-risk facilities, activities, and areas 	<ul style="list-style-type: none"> Develop, implement inspections/enforcement in moderate-risk areas 	To Be Determined	
3.4: Evaluate Feasible Modifications	4.1	---	<ul style="list-style-type: none"> Not scheduled for implementation 	<ul style="list-style-type: none"> Evaluate Feasible Pretreatment Program Modifications Evaluate Feasible Modifications for Other Non-Domestic Dischargers 	Ongoing Ongoing	
3.5: Effectiveness Evaluation	---	C(12)	<ul style="list-style-type: none"> Updated NMC Plan 	<ul style="list-style-type: none"> Review, revise NMC Plan 	Annually every Aug. 10 th	
NMC-4: Maximization of Flow to POTW						
4.1: Regulatory Context						
4.2: Utilize Full Capacity of Conveyance System						
4.2.1: Restore Full Capacity via O&M	5.1	C(11)(c)(i)(1)	<ul style="list-style-type: none"> Systemwide data collection (see NMC Sections 1.4.1, 1.5.1, 1.6.1, 1.7.1, 1.8.1, 1.9.1, and 1.10.1) 	<ul style="list-style-type: none"> Systemwide remedial cleaning and repair (see NMC Sections 1.4.2, 1.5.2, 1.6.2, 1.7.2, 1.8.2, 1.9.2, 1.10.2) 	See NMC-1	See OMM Section 4
4.2.2: Adjust Conveyance System Operation	---	C(11)(c)(i)(2)	<ul style="list-style-type: none"> Developed H&H Model to assess system capacity; calibrated H&H model; characterized existing system performance Analyzed contributing flows Define initial cost-effective regulator adjustments Completed Front Street Pump Station upgrade Implemented Phase 1A regulator modifications 	<ul style="list-style-type: none"> Implement recommended regulator enhancement projects under baseline CBH2OPP implementation. Proceed with Phases 1B, 2, and 3 following completion of other system improvements. 	Complete/Ongoing	CBH2OPP (LTCP)
4.2.3: Reduce Infiltration / Inflow	---	C(11)(c)(i)(3)	<ul style="list-style-type: none"> Conduct flow monitoring to characterize wet weather inflows from suburban communities Prepared Capacity Assessment Report; no significant I/I reductions recommended 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	See NMC 1.9.1	See Par. (E)(30)(c) of Partial CD
4.3: Optimize Wet Weather Performance of AWTF						
4.3.1: Analyze Existing AWTF Performance	5.1	E(24)(h)	<ul style="list-style-type: none"> Assessment performed in CBH2OPP 	<ul style="list-style-type: none"> Implement recommended AWTF enhancement projects under baseline CBH2OPP implementation 	Ongoing	CBH2OPP (LTCP)
4.3.2: Assess Use of Unused Facilities	5.1	E(24)(h)	<ul style="list-style-type: none"> Assessment performed in CBH2OPP 	<ul style="list-style-type: none"> Implement recommended AWTF enhancement projects under baseline CBH2OPP implementation. 	Ongoing	CBH2OPP (LTCP)
4.4: Effectiveness Evaluation	---	C(11)(c)(ii), C(12)	<ul style="list-style-type: none"> Updated NMC Plan 	<ul style="list-style-type: none"> Review, revise NMC Plan 	Annually every Aug 10 th	
NMC-5: Elimination of CSOs during Dry Weather						
5.1: Regulatory Context						
5.2: DWO Inspections / Assessment / Reporting	6.1	C(11)(d)(i-iii)	<ul style="list-style-type: none"> See NMC 1.4.1, 1.4.4 	<ul style="list-style-type: none"> See NMC 1.4.1, 1.4.4 	See NMC 1.4.1, 1.4.4	See OMM Section 4.1

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Nine Minimum Control (NMC) Plan Summary Table for Capital Region Water’s Combined Sewer System

Required Actions	Source of Requirement		Current Level of Implementation	Actions Necessary for Achieving Compliance		Supporting Documentation
	NMC Guidance Section	Partial Consent Decree Paragraph		Description	Deadline	
5.3: DWO Corrective Actions						
5.3.1: Regulator / Gate Controls	6.1	C(11)(d)(iv)	<ul style="list-style-type: none"> See NMC 1.4 and 1.5 	<ul style="list-style-type: none"> See NMC 1.4 and 1.5 	See NMC 1.4, 1.5, 1.9, 2.4	See OMM Sections 4.1, 4.2, 4.6
5.3.2: Receiving Water Cleanup	6.1	C(11)(d)(v)	<ul style="list-style-type: none"> See NMC 6.4 	<ul style="list-style-type: none"> See NMC 6.4 	Not Applicable	See OMM Section 4.2
5-3: Effectiveness Evaluation	---	C(12)	<ul style="list-style-type: none"> Updated NMC Plan 	<ul style="list-style-type: none"> Review, revise NMC Plan 	¹ Annually every Aug 10 th	
NMC-6: Control of Solid and Floatable Materials						
6.1: Regulatory Context						
6.2: O&M of Combined Sewer System	---	C(11)(e)	<ul style="list-style-type: none"> See NMC-1.4, 1.5 	<ul style="list-style-type: none"> See NMC-1.4, 1.5 	See NMC 1.4, 1.5	See OMM Sections 4.1, 4.2
6.3: Evaluate/Define/Implement Corrective Actions						
6.3.1: Pollution Prevention	7.5	C(11)(e)	<ul style="list-style-type: none"> See NMC-7 	<ul style="list-style-type: none"> See NMC-7 		
6.3.2: Collection System Controls	7.1	C(11)(e)	<ul style="list-style-type: none"> Maintain existing sewer hoods in inlets and catch basins (see NMC 1.10) 	<ul style="list-style-type: none"> Incorporate decentralized green grey stormwater controls within collection system as defined under CBH2OPP Install hoods, baffles, or Type C inlet tops on inlets without existing floatables control 	Ongoing	See OMM Section 4.10, CBH2OPP (LTCP)
6.3.3: End-of-Pipe Controls	7.1	C(11)(e)	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Address floatable control during design of future regulator enhancement projects under baseline CBH2OPP implementation. 	Ongoing	CBH2OPP (LTCP)
6.4: Receiving Water Cleanup	7.3	C(11)(e)	<ul style="list-style-type: none"> Removal of residual solid and floatable materials along shoreline 	<ul style="list-style-type: none"> None, current approach complies with NMC requirements 	See NMC 5.2	See OMM Section 4.2
6.5: Effectiveness Evaluation	---	C(12)	<ul style="list-style-type: none"> Updated NMC Plan 	<ul style="list-style-type: none"> Review, revise NMC Plan 	¹ Annually every Aug 10 th	
NMC-7: Pollution Prevention Programs to Reduce CSO Contaminants						
7.1: Regulatory Context						
7.2: Street Cleaning	8.1.1	---	<ul style="list-style-type: none"> Commenced new street sweeping program Reviewed cost effectiveness of street sweeping O&M Program for CRW Operations 	<ul style="list-style-type: none"> Update O&M program for CRW operations 	Complete; Ongoing	Street/Pavement Management Fact Sheet (Appendix E) OMM
7.3: Public Education Programs	8.1.2	---	<ul style="list-style-type: none"> Established mechanisms for distributing educational materials Established 6 targeted themes with audiences Conducted first public awareness survey Prepare Public Education / Outreach Program 	<ul style="list-style-type: none"> Implement Public Education / Outreach Program Continue conducting public awareness surveys 	Ongoing	All Fact Sheets (Appendix E) Appendix F
7.4: Solid Waste Collection / Recycling	8.1.3	---	<ul style="list-style-type: none"> Provided and publicized by City of Harrisburg Developed coordinated surveillance protocol with City 	<ul style="list-style-type: none"> Distribute public education material Enact CRW Rules and Regulations 	August 1, 2024	Solid Waste Handling / Storage Fact Sheet (Appendix E)
7.5: Product Ban/Substitution	8.1.4	---	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Provide education about product substitutions where product controls ineffective 	To Be Determined	All Fact Sheets (Appendix E)
7.6: Product Use Control	8.1.5	---	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Distribute public education material 	August 1, 2024	Material Handling / Storage Fact Sheet (Appendix E)
7.7: Illegal Dumping	8.1.6	---	<ul style="list-style-type: none"> Regulated by City of Harrisburg Code Citizen Complaints/Service Requests (NMC 1.12.1) Developed coordinated surveillance protocol with City 	<ul style="list-style-type: none"> Distribute public education material Enact CRW Rules and Regulations 	August 1, 2024 Ongoing	Solid Waste Handling / Storage Fact Sheet (Appendix E)
7.8: Bulk Refuse Disposal	8.1.7	---	<ul style="list-style-type: none"> Provided and publicized by City of Harrisburg Developed coordinated surveillance protocol with City 	<ul style="list-style-type: none"> Distribute public education material Enact CRW Rules and Regulations 	August 1, 2024 Ongoing	Solid Waste Handling / Storage Fact Sheet (Appendix E)
7.9: Hazardous Waste Collection	8.1.8	---	<ul style="list-style-type: none"> Provided and publicized by City of Harrisburg Developed coordinated surveillance protocol with City 	<ul style="list-style-type: none"> Distribute public education material Enact CRW Rules and Regulations 	August 1, 2024 Ongoing	Material Handling / Storage Fact Sheet (Appendix E)
7.10: Water Conservation	8.1.9	---	<ul style="list-style-type: none"> CRW provides education about water conservation 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	
7.11: Non-Domestic Sources	8.1.10	---	<ul style="list-style-type: none"> See NMC-3 	<ul style="list-style-type: none"> See NMC-3 	See NMC-3	
7.12: Effectiveness Evaluation	---	C(12)	<ul style="list-style-type: none"> Updated NMC Plan 	<ul style="list-style-type: none"> Review, revise NMC Plan 	¹ Annually every Aug 10 th	

¹ Coincides with an existing deliverable date in the Partial Consent Decree

Nine Minimum Control (NMC) Plan Summary Table for Capital Region Water's Combined Sewer System

Required Actions	Source of Requirement		Current Level of Implementation	Actions Necessary for Achieving Compliance		Supporting Documentation
	NMC Guidance Section	Partial Consent Decree Paragraph		Description	Deadline	
NMC-8: Public Notification						
8.1: Regulatory Context						
8.2: Warning Signs	9.1	C(11)(f)(i-ii)	<ul style="list-style-type: none"> Inventoried existing signs/assessed optional sites Installed temporary warning signs Prepared CSO Signage Plan Installed 13 new warning signs 	<ul style="list-style-type: none"> Implement CSO Signage Plan 	Ongoing	
8.3: Public Notification	9.1	C(11)(f)(iii,vii)	<ul style="list-style-type: none"> Established mechanisms for distributing educational materials Implemented hotline for CSO notification 	<ul style="list-style-type: none"> Revise written public notification procedures 	Ongoing	
8.4: Public Education	9.1	C(11)(f)(iv)	<ul style="list-style-type: none"> See NMC 7.3 	<ul style="list-style-type: none"> See NMC 7.3 	See NMC 7.3	
8.5: Public Involvement	9.1	C(11)(f)(vi)	<ul style="list-style-type: none"> Multiple public involvement options provided 	<ul style="list-style-type: none"> None: current approach complies with NMC requirements 	Not Applicable	
8.6: Effectiveness Evaluation	---	C(11)(f)(v)	<ul style="list-style-type: none"> Updated NMC Plan Cityworks utilized to generate work orders from public 	<ul style="list-style-type: none"> Review, revise NMC Plan 	¹ Annually every Aug 10 th	
NMC-9: Monitoring to Characterize CSO Impacts / Control Efficacy						
9.1: Regulatory Context						
9.2: Characterize Combined Sewer System	10.1.1	C(11)(a)(i-iii)	<ul style="list-style-type: none"> See NMC 1.3.4 	<ul style="list-style-type: none"> See NMC 1.3.4 	NMC 1.3.4	See OMM Section 2
9.3: CSO Activation Monitoring						
9.3.1: Phase 1: Daily Visual Inspections	10.1.2	C(11)(g)(i)	<ul style="list-style-type: none"> Daily visual regulator inspections (See NMC 1-4) 13 Interceptor flow meters 13 flow meters at regulators to calibrate model (ends 4th quarter 2015) Calibrated H&H model 	<ul style="list-style-type: none"> Maintain Current Level of visual inspections Maintain 12 interceptor monitors 	Ongoing Ongoing	See OMM Section 4.1
9.3.2: Phase 2: Semi-Automated Detection	10.1.2	C(11)(g)(ii)	<ul style="list-style-type: none"> Prepared CSO Activation Monitoring Pilot (CAMP) Study Plan by 5/9/15 Completed CAMP Study 	<ul style="list-style-type: none"> Provide detailed Post-Construction Monitoring Plan according to the framework provided in the CBH2OPP 	Ongoing	See CAMP Study Plan, CBH2OPP (LTCP)
9.3.3: Phase 3: Post-Construction Monitoring	10.1.2	C(11)(g)(iii)	<ul style="list-style-type: none"> Develop draft post construction monitoring plan as part of the CBH2OPP 	<ul style="list-style-type: none"> Implement draft post construction monitoring plan as part of the CBH2OPP 	Ongoing	CBH2OPP (LTCP)
9.4: Precipitation Monitoring	10.1.2	C(11)(g)(iv,vi)	<ul style="list-style-type: none"> Existing network of gauges as per IFMMPP Existing Gauge Adjusted Radar Rainfall system 	<ul style="list-style-type: none"> Continuation of gauge network to support post construction monitoring program Continuation of GARR system to support post construction monitoring program 	Ongoing	
9.5: Document CSOs	10.1.2	C(11)(g)(v)	<ul style="list-style-type: none"> See NMC 1.3.1 	<ul style="list-style-type: none"> See NMC 1.3.1 		
9.6: Use H/H Model to Characterize CSOs	10.1.2	C(11)(g)(vi)	<ul style="list-style-type: none"> Developing H&H model and obtaining CSO monitoring data for future calibration 	<ul style="list-style-type: none"> Use calibrated model to quantify and characterize CSOs in semi-annual reports. 	¹ Semi-annually, starting Mar. 31, 2017	

¹ Coincides with an existing deliverable date in the Partial Consent Decree

Appendix 0



ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD August 1, 2022 ~~TO JUNE 30,~~ July 31, 2023

GENERAL INFORMATION					
Permittee Name:	Capital Region Water	NPDES Permit No.:	PAI133524		
Mailing Address:	3003 North Front Street	Effective Date:	8/1/2020		
City, State, Zip:	Harrisburg, PA 17110	Expiration Date:	7/31/2025		
MS4 Contact Person:	Claire Maulhardt	Renewal Due Date:	2/1/2025		
Title:	City Beautiful H2O Program Manager	Municipality:	Harrisburg		
Phone:	717-216-5269	County:	Dauphin		
Email:	claire.maulhardt@capitalregionwater.com				
Co-Permittees (if applicable):					
Appendix(ces) that permittee is subject to (select all that apply):					
<input type="checkbox"/> Appendix A <input checked="" type="checkbox"/> Appendix B <input checked="" type="checkbox"/> Appendix C <input checked="" type="checkbox"/> Appendix D <input checked="" type="checkbox"/> Appendix E <input checked="" type="checkbox"/> Appendix F					
WATER QUALITY INFORMATION					
Are there any discharges to waters within the Chesapeake Bay Watershed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Identify all surface waters that receive stormwater discharges from the permittee's MS4 and provide the requested information (see instructions).					
Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
Susquehanna River	WWF	Yes	pH, Pathogens, Polychlorinated Biphenyls	No	No
Paxton Creek	WWF	Yes	Habitat Alterations, Flow Regime Modification, Total Suspended Solids, Biochemical Oxygen Demand, Pathogens	Yes	Yes
Spring Creek	CWF	Yes	Siltation, Flow Regime Modification, Habitat Alterations	No	No
Wildwook Lake		Yes	Nutrients, TSS	Paxton Creek	Paxton Creek
UNT to Asylum Run		No		No	No
UNT to Spring Creek	CWF	Yes	Siltation, Flow Regime Modification, Habitat	No	No

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

			Alterations		

GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

Have you completed all MCM activities required by the permit for this reporting period? Yes No

List the current entity responsible for implementing each MCM of your SWMP, along with contact name and phone number.

MCM	Entity Responsible	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	CRW	Tanya Dierolf	717-216-5259
#2 Public Involvement/Participation	CRW	Tanya Dierolf	717-216-5259
#3 Illicit Discharge Detection and Elimination (IDD&E)	CRW	Michael Joseph	717-216-5259
#4 Construction Site Storm Water Runoff Control	DCCD/CRW	Claire Maulhardt	717-216-5269
#5 Post-Construction Storm Water Management in New Development and Redevelopment	DCCD/CRW	Claire Maulhardt	717-216-5269
#6 Pollution Prevention / Good Housekeeping	CRW	Claire Maulhardt	717-216-5269

MCM #1 – PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

BMP #1: Develop, implement and maintain a written Public Education and Outreach Program.

- For new permittees only, has the written PEOP been developed and implemented within the first year of permit coverage?
 Yes No
- Date of latest annual review of PEOP: July 2023 Were updates made? Yes No
- What were the plans and goals for public education and outreach for the reporting period?
Implementation of the PEOP with emphasis on community outreach, specifically litter cleanups as a forum for pollution prevention and positive action, as well as website improvements.
- Did the MS4 achieve its goal(s) for the PEOP during the reporting period? Yes No
- Identify specific plans and goals for public education and outreach for the upcoming year:
Continued implementation of the PEOP with emphasis on website enhancements, community events, and a coordinated stormwater week.

BMP #2: Develop and maintain lists of target audience groups present within the areas served by your MS4.

- For new permittees only, have the target audience lists been developed and implemented within the first year of permit coverage?
 Yes No
- Date of latest annual review of target audience lists: September 2023 Were updates made? Yes No

BMP #3: Annually publish at least one educational item on your Stormwater Management Program.

- For new permittees only, were stormwater educational and informational items produced and published in print and/or on the Internet within the first year of permit coverage?

3800-FM-BCW0491 9/2017
Annual MS4 Status Report

Yes No

2. Date of latest annual review of educational materials:

Were updates made? Yes No

3. Do you have a municipal website? Yes No (URL:
www.capitalregionwater.com)

If Yes, what MS4-related material does it contain?
Stormwater Introduction, City Beautiful H2O Program Plan, Street Sweeping, Joint Pollutant Reduction Plan

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:
Refer to Attachment #1, which summarizes the education/outreach publications and activities.
5. Identify specific plans for the publication of stormwater materials for the upcoming year:
Refer to Attachment #2 for the annual PEOB target activities.

BMP #4: Distribute stormwater educational materials to the target audiences.

Identify the two additional methods of distributing stormwater educational materials during the previous reporting period (e.g., displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements, bill stuffers, posters, presentations, conferences, meetings, fact sheets, giveaways, or storm drain stenciling).

Bill inserts, e-newsletters, social media, and earned media. Refer to Attachment #1 for more details.

MCM #1 Comments:

CRW's annual update on PEOB activities is included in Attachment #1. CRW's PEOB is included in Attachment #2.

MCM #2 – PUBLIC INVOLVEMENT/PARTICIPATION

BMP #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)

1. For new permittees only, was the PIPP developed and implemented within one year of permit coverage?
 Yes No
2. Date of latest annual review of PIPP: July 2023 Were updates made? Yes No

BMP #2: Advertise to the public and solicit public input on ordinances, SOPs, Pollutant Reduction Plans (PRPs) (if applicable) and TMDL Plans (if applicable), including modifications thereto, prior to adoption or submission to DEP:

1. Was an MS4-related ordinance, SOP, PRP or TMDL Plan developed during the reporting period? Yes No
2. If Yes, describe how you advertised the draft document(s) and how you provided opportunities for public review, input and feedback:
3. If an ordinance, SOP or plan was developed or amended during the reporting period, provide the following information:

Ordinance / SOP / Plan Name	Date of Public Notice	Date of Public Hearing	Date Enacted or Submitted to DEP

BMP #3: Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods.

1. At least one public meeting or other MS4 event must be held during the 5-year permit coverage period to solicit participation and feedback from target audience groups. Was this meeting or event held during the reporting period?
 Yes No If Yes, Date of Meeting or Event:
2. Report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed and conservation organizations; and similar instances of participation or coordination with organizations in the community.
3. Report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or efforts such as cleanups, monitoring, storm drain stenciling, or others.

MCM #2 Comments:

CRW's PIPP is included in Attachment #3

MCM #3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)

BMP #1: Develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated small MS4.

1. For new permittees only, was the written IDD&E program developed within one year of permit coverage?
 Yes No
2. Date of latest annual review of IDD&E program: July 2023 Were updates made? Yes No

BMP #2: Develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls and, if applicable, observation points, and the locations and names of all surface waters that receive discharges from those outfalls. Outfalls and observation points shall be numbered on the map(s).

1. Have you completed a map(s) that includes all components of BMP #2? Yes No
If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.
If No, date by which permittee expects map(s) to be completed:
2. Date of last update or revision to map(s): September 2023
3. Total No. of Outfalls in MS4: 95 Total No. of Outfalls Mapped: 95
4. Total No. of Observation Points: Total No. of Observation Points Mapped:
5. During the reporting period, have you identified any existing outfalls that have not been previously reported to DEP in an NOI, application or annual report, or are any new MS4 outfalls proposed for the next reporting period?
 Yes No If Yes, select: Existing Outfall(s) Identified New Outfall(s) Proposed

BMP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), the permittee shall develop and maintain map(s) that show the entire storm sewer collection system within the permittee's jurisdiction that are owned or operated by the permittee (including roads, inlets, piping, swales, catch basins, channels, and any other components of the storm sewer collection system), including privately-owned components of the collection system where conveyances or BMPs on private property receive stormwater flows from upstream publicly-owned components.

1. Have you completed a map(s) that includes all components of BMP #3? Yes No

If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

If No, date by which permittee expects map(s) to be completed: July 31, 2024

2. If Yes to #1, is the map(s) on the same map(s) as for outfalls and receiving waters? Yes No

3. Date of last update or revision to map(s):

BMP #4: Conduct dry weather screenings of MS4 outfalls to evaluate the presence of illicit discharges. If any illicit discharges are present, the permittee shall identify the source(s) and take appropriate actions to remove or correct any illicit discharges. The permittee shall also respond to reports received from the public or other agencies of suspected or confirmed illicit discharges associated with the storm sewer system, as well as take enforcement action as necessary. The permittee shall immediately report to DEP illicit discharges that would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property.

For new permittees, all identified outfalls (and if applicable observation points) must be screened during dry weather at least twice within the 5-year period following permit coverage. For existing permittees, all identified outfalls (and if applicable observation points) must be screen during dry weather at least once within the 5-year period following permit coverage and, for areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls must be screened annually during each year of permit coverage.

1. How many unique outfalls (and if applicable observation points) were screened during the reporting period? 95

2. Indicate the percentage of all outfalls screened in the past five years. 100%

3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: 15%

4. Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? Yes No

5. If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.

6. Do you use the MS4 Outfall Field Screening Report form (3800-FM-BCW0521) provided in the permit?

Yes No

If No, attach a copy of your screening report form.

BMP #5: Enact a Stormwater Management Ordinance or SOP to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater discharges? Yes No

If Yes, indicate the date of the ordinance or SOP: 1/1/2023

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) with respect to authorized non-stormwater discharges? Yes No

If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP.

3. Were there any violations of the ordinance or SOP during the reporting period? Yes No

If Yes to #3, complete the table below (attach additional sheets as necessary).

Violation Date	Nature of Violation	Responsible Party	Enforcement Taken
5/19/23	Illicit discharge to inlet	Salvation Army	Notice of Violation Issued

4. Did you approve any waiver or variance during the reporting period that allowed an exception to non-stormwater discharge provisions of an ordinance or SOP? Yes No

If Yes to #4, identify the entity that received the waiver or variance and the type of non-stormwater discharge approved.

BMP #6: Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.

1. Was IDD&E-related information distributed to public employees, businesses, and the general public during the reporting period? Yes No

If Yes, what was distributed?

2. Is there a well-publicized method for employees, businesses and the public to report stormwater pollution incidents?

Yes No

3. Do you maintain documentation of all responses, action taken, and the time required to take action? Yes No

MCM #3 Comments:

CRW's IDDE program is integrated within the Operation and Maintenance Manual, Nine Minimum Controls Plan, and Cityworks. The Cityworks IDDE workflow is included in Attachment #4.

CRW has a map of the MS4 area and outfalls, which is included in Attachment #5.

CRW has incorporated an outfall inspection procedure in their Operations and Maintenance Manual (March 2021) and also developed Cityworks workflows based on the DEP inspection form. Refer to Attachment #4 for workflow documentation.

Refer to Attachment #1 for further details on FOG and IDDE educational outreach activities.

MCM #4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Are you relying on PA's statewide program for stormwater associated with construction activities to satisfy this MCM?

Yes No

(If Yes, respond to questions for BMP Nos. 1, 2 and 3 only in this section. If No, respond to questions for all BMPs in this section)

BMP #1: The permittee may not issue a building or other permit or final approval to those proposing or conducting earth disturbance activities requiring an NPDES permit unless the party proposing the earth disturbance has valid NPDES Permit coverage (i.e., not expired) under 25 Pa. Code Chapter 102.

During the reporting period, did you comply with 25 Pa. Code § 102.43 (relating to withholding building or other permits or approvals until DEP or a county conservation district (CCD) has approved NPDES permit coverage)?

Yes No Not Applicable (no building permit applications received)

BMP #2: A municipality or county which issues building or other permits shall notify DEP or the applicable CCD within 5 days of the receipt of an application for a permit involving an earth disturbance activity consisting of one acre or more, in accordance with 25 Pa. Code § 102.42.

During the reporting period, did you comply with 25 Pa. Code § 102.42 (relating to notifying DEP/CCD within 5 days of receiving an application involving an earth disturbance activity of one acre or more)?

Yes No Not Applicable (no building permit applications received)

BMP #3: Enact, implement and enforce an ordinance or SOP to require the implementation and maintenance of E&S control BMPs, including sanctions for non-compliance, as applicable.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of E&S control BMPs? Yes No

If Yes, indicate the date of the ordinance or SOP: 01/01/2023

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #4: Review Erosion and Sediment (E&S) control plans to ensure that such plans adequately consider water quality impacts and meet regulatory requirements.

Specify the number of E&S Plans you reviewed during the reporting period: N/A

BMP #5: Conduct inspections regarding installation and maintenance of E&S control measures during earth disturbance activities. Maintain records of site inspections, including dates and inspection results, in accordance with the record retention requirements in this permit.

Specify the number of E&S inspections you completed during the reporting period: N/A

BMP #6: Conduct enforcement when installation and maintenance of E&S control measures during earth disturbance activities does not comply with permit and/or regulatory requirements.

Specify the number of enforcement actions you took during the reporting period for improper E&S: N/A

BMP #7: Develop and implement requirements for construction site operators to control waste at construction sites that may cause adverse impacts to water quality. The permittee shall provide education on these requirements to construction site operators.

Specify the method(s) by which you are educating construction site operators on controlling waste at construction sites:

N/A

BMP #8: Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public to the permittee regarding local construction activities.

1. A tracking system has been established for receipt of public inquiries and complaints. Yes No

2. Specify the number of inquiries and complaints received during the reporting period: N/A

MCM #4 Comments:

CRW has a Memorandum of Understanding with Dauphin County Conservation District and an updated Memorandum of Understanding with Dauphin County and the City of Harrisburg is in draft form and awaiting final execution. Refer to Attachment #6.

MCM #5 – POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP #1: Enact, implement and enforce an ordinance or SOP to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of post-construction stormwater management (PCSM) BMPs? Yes No
If Yes, indicate the date of the ordinance or SOP: 01/01/2023
2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No
3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #2: Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment. Measures should also be included to encourage retrofitting LID into existing development. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that encourages and expands the use of LID in new development and redevelopment? Yes No
If Yes, indicate the date of the ordinance or SOP: 01/01/2023
2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No
3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #3: Ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

1. Do you have an inventory of all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003? Yes No
If Yes to #1, complete Table 1 on the next page.
2. Has proper O&M occurred during the reporting period for all PCSM BMPs? Yes No
3. If No to #2, explain what action(s) the permittee has taken or plans to take to ensure proper O&M.

If you are relying on PA's statewide program for stormwater associated with construction activities, you may skip to MCM #6, otherwise complete all questions for BMPs #4 - #6 in this section.

BMP #4: Require the implementation of a combination of structural and/or non-structural BMPs that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions.

1. Specify the number of PCSM Plans reviewed during the reporting period for projects disturbing greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale):
2. Has a tracking system been established and maintained to record qualifying projects and their associated BMPs?
 Yes No

PCSM BMP INVENTORY

Table 1. To complete the information needed for MCM #5, BMP #3, list all existing structural BMPs that discharge stormwater to the permittee's MS4 that were installed to satisfy PCSM requirements for earth disturbance activities under Chapter 102, and provide the requested information (see instructions).

BMP No.	BMP Name	DA (ac)	Entity Responsible for O&M	Latitude	Longitude	Date Installed	O&M Requirements	NPDES Permit No.	
1				o ' "	o ' "				
2				o ' "	o ' "				
3				o ' "	o ' "				
4				o ' "	o ' "				
5	REFER TO ATTACHMENT #7								
6									
7									
8									
9									
10				o ' "	o ' "				
11				o ' "	o ' "				
12				o ' "	o ' "				
13				o ' "	o ' "				
14				o ' "	o ' "				
15				o ' "	o ' "				
16				o ' "	o ' "				

BMP #5: Ensure that controls are installed that shall prevent or minimize water quality impacts. The permittee shall inspect all qualifying development or redevelopment projects during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, installed properly).

1. During the reporting period have you inspected all qualifying development and redevelopment projects during the construction phase to ensure proper installation of approved structural BMPs?
 Yes No Not Applicable (no qualifying projects during reporting period)
2. Has a tracking system been established and maintained to record results of inspections?
 Yes No

BMP #6: Develop a written procedure that describes how the permittee shall address all required components of this MCM.

Have you developed a written plan that addresses: 1) minimum requirements for use of structural and/or non-structural BMPs in plans for development and redevelopment; 2) criteria for selecting and standards for sizing stormwater BMPs; and 3) implementation of an inspection program to ensure that BMPs are properly installed? Yes No

MCM #5 Comments:

CRW has a Memorandum of Understanding with Dauphin County Conservation District and an updated Memorandum of Understanding with Dauphin County and the City of Harrisburg is in draft form and awaiting final execution.

CRW has a draft PCSM BMP Inventory, which is included in Attachment #7. As a new MS4 permittee, CRW is coordinating with the City of Harrisburg and DCCD to obtain historical records on additional existing PCSM BMPs prior to 2017.

The Operations and Maintenance Agreement for Stormwater Facilities and Best Management Practices is included in Attachment #9.

MCM #6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING

BMP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for generating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the permittee.

1. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? Yes No
2. When was the inventory last reviewed?
3. When was it last updated?

BMP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the discharge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or conveyance systems within the regulated MS4.

1. Have you developed a written O&M program for the operations identified in BMP #1? Yes No
2. Date of last review or update to written O&M program: 3/31/2022

BMP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from operations to the regulated small MS4. All relevant employees and contractors shall receive training.

**3800-FM-BCW0491 9/2017
Annual MS4 Status Report**

1. Have you developed an employee training program? Yes No

2. Date of last review or update to training program: June 2023 Date of latest training: 6/30/2023

3. Training topics covered:
MS4 Minimum Control Measures and CSO Nine Minimum Controls

4. Name(s) of training presenter(s):
Claire Maulhardt and Ken Freysinger

5. Names of training attendees:
See Attachment #10 for sign-in sheets

MCM #6 Comments:

CRW's Operation and Maintenance Manual documents the procedures for inlet cleaning and street sweeping within CRW's MS4. CRW also documents SCM O&M activities in the Green Stormwater Infrastructure O&M Program Annual Report (2022).
CRW conducted a company wide MS4 and NMC training in June 2023 in addition to the annual operations crew training.

POLLUTANT CONTROL MEASURES (PCMs)

Indicate the status of implementing PCMs in Appendices A, B and/or C by completing the table below. Skip this section if PCMs are not applicable.

Task	Date Completed	Attached	Anticipated Completion Date
Storm Sewershed Map(s)	9/29/2023	<input checked="" type="checkbox"/>	
Source Inventory	7/31/2023	<input checked="" type="checkbox"/>	
Investigation of Suspected Sources		<input type="checkbox"/>	7/31/2025
Ordinance/SOP for Controlling Animal Wastes	10/01/2020	<input type="checkbox"/>	

PCM Comments:

Attachment #5 - Stormwater Outfall Map
Attachment #11 - Appendix B & C Potential Pathogen & PCB Sources

POLLUTANT REDUCTION PLANS (PRPs) AND TMDL PLANS

1. Complete this section if the development and submission of a PRP and/or TMDL Plan was required as an attachment to the latest NOI or application or was required by the permit, regardless of whether DEP has approved the plan(s).

Type of Plan	Submission Date	DEP Approval Date	Surface Waters Addressed by Plan
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			Chesapeake Bay
<input type="checkbox"/> Impaired Waters PRP (Appendix E)			
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			Chesapeake Bay,
<input checked="" type="checkbox"/> Combined PRP / TMDL Plan	12/27/2019	07/22/2020	Chesapeake Bay, Paxton Creek, Wildwood Lake, UNT to Spring Creek

Joint Plan (if checked, list the name of the MS4 group or names of all entities participating in the joint plan below)

Joint Plan Participants: Capital Region Water, Lower Paxton Township, Susquehanna Township

2. Identify the pollutants of concern and pollutant load reduction requirements under the permit (see instructions).

Type of Plan	TSS Load Reduction (lbs/yr)	TP Load Reduction (lbs/yr)	TN Load Reduction (lbs/yr)
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			
<input type="checkbox"/> Impaired Waters PRP (Appendix E)			
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			
<input checked="" type="checkbox"/> Combined PRP / TMDL Plan		* See PRP/TMDL Plan Comments below.	* See PRP/TMDL Plan Comments below.

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: 7/30/2025

4. Have any modifications to the plan(s) occurred since DEP approval? Yes No

If Yes to #4, was the updated plan(s) submitted to DEP? Yes No

If Yes to #4, did you comply with the public participation requirements of the applicable appendix? Yes No

If Yes to #4, describe the plan modifications.

5. Summary of progress achieved during reporting period.

CRW has implemented, and is claiming credit for, street sweeping and green stormwater infrastructure (GSI) during the reporting period. CRW has implemented other pollutant reduction measures including catch basin cleaning and a major upgrade to the Front Street Pump Station, and may claim credit for these measures during future reporting periods. These measures provide both a reduction in the land-based sediment load discharged from MS4 outfalls, CSO outfalls, and instream sediment load mobilized by erosive velocities in Paxton Creek.

Attachment #8 includes a PRP Supplement with further details.

6. Anticipated activities for next reporting period.

CRW anticipates continued implementation of street sweeping, GSI, regulator structure modifications, and pump station capacity increases during the upcoming reporting period. In addition, CRW and Joint Plan participants will continue to coordinate on implementation of streambank restoration projects.

PRP/TMDL Plan Comments:

The required annual TSS load reduction (1,694,398 lb/yr) represents the total reduction required across the Joint Planning Area. CRW is responsible for a portion of this load reduction and intends to participate with the Joint Plan Participants Lower Paxton Township and Susquehanna Township on their commitments to achieve the balance.

* The Joint PRP assumes that achieving the required sediment load reduction will also accomplish the required nutrient reductions. As described in the PRP Instructions (3800-PM-BCW0100k Rev. 3/2017), "PRPs may use a presumptive approach in which it is assumed that a 10% sediment reduction will also accomplish a 5% TP reduction."

NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

Table 2. List all new structural BMPs installed and ongoing non-structural BMPs implemented during the reporting period that are being used toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed or Implemented	Planning Area?	Ch. 102?	Annual Sediment Load Reduction (lbs/yr)
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
REFER TO ATTACHMENT #8										<input type="checkbox"/>	
REFER TO ATTACHMENT #8										<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	

BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION

Table 3. List all existing structural BMPs that have been installed in prior reporting periods and are eligible to use toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspection	Satisfactory?
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
REFER TO ATTACHMENT #8										<input type="checkbox"/>	
REFER TO ATTACHMENT #8										<input type="checkbox"/>	
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>

CERTIFICATION

For PAG-13 Permittees: I have read the latest PAG-13 General Permit issued by DEP and agree and certify that (1) the permittee continues to be eligible for coverage under the PAG-13 General Permit and (2) the permittee will continue to comply with the conditions of that permit, including any modifications thereto. I understand that if I do not agree to the terms and conditions of the PAG-13 General Permit, I will apply for an individual permit within 90 days of publication of the General Permit. I also acknowledge that any facility construction needed to comply with the General Permit requirements shall be designed, built, operated, and maintained in accordance with operative laws and regulations.

For All Permittees: I certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the 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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Claire Maulhardt

Name of Responsible Official

717-216-5259

Telephone No.



Signature

9/29/2023

Date

ATTACHMENT #1

MS4 Update - Year 3
Public Outreach & Education

Publication & Distribution of Stormwater Education Information:

Bill inserts & e-newsletters:

- September 2022, included information regarding the modifications to the Partial Consent Decree and progress made on projects included in the Long-term Control Plan (LTCP)
- December 8, 2023, contributed to paid advertisement, along with other Dauphin County partners, in Patriot news specific to MS4 pollution prevention and FOG.
- February 2023, included information and invitation to community feedback sessions soliciting public input on projects and communication related to Combined Sewer Overflow (CSO) activities.
- March 2023, included information reaching an agreement with DOJ, EPA & PA DEP on Modifications to the Partial Consent Decree.
- April 2023, included education on MS4, illicit discharge, and reporting via CRW website.
- May 2023, included education on combined sewer systems and outfalls, and the references the CSO signage along the River and Paxton Creek.

Social media:

- August 3, 2022, National Night Out event; education about the combined sewer system and providing public feedback.
- November 10, 2022, Information about storm season and the importance of clearing debris and leaves from storm drains.
- January 11, 2023, Important role litter clean-ups play on the city.
- March 14, 2023, Request for formal feedback on the Modifications to the Partial Consent Decree
- June 29, 2023, Reminder to only flush the 3 P's (Pee, Poo, & Paper)
- July 31, 2023, First day of CRW sponsored "Stormwater Week". Topics all about wet weather management and tips.

Earned media:

- August 25, 2022,, "[Capital Region Water board approves plan designed to slash pollutants into area waterways](#)" – Theburgnews.com
- October 25, 2022, "[DiSanto Wants Commonwealth to Pay Its Fair Share of Stormwater Fees](#)" -pasenategop.com
- November 23, 2023, "[Water officials in Harrisburg want city to be more environmentally friendly](#)" – WGAL News
- February 13, 2023, "[Harrisburg's long fight over sewage overflows into Susquehanna gets a peace pact: court approval is pending](#)" -PennLive (4 other earned media similar to this story)

Website link: <https://capitalregionwater.com/what-we-do/cbh2o/>

Outreach & Events, including Community Partnerships:

Community events:

- August 21, 2022, community litter cleanup with Midtown Action Council
- September 1, 2022 Corporate partner community litter cleanup with the Giant Company
- September 19, 2022, community litter cleanup with Midtown Action Council
- October 10, 2022, Corporate partner community litter cleanup with the Giant Company
- October 30, 2022, community litter cleanup with Historic Harrisburg Association
- January 16, 2023, community litter cleanup with Friends of Midtown
- March 18, 2023, community litter cleanup with Wildheart Ministries
- March 27, 2023, community litter cleanup with P.U.S.H.
- April 14, 2023, Corporate partner community litter cleanup with the Giant Company
- April 22, 2022, Great Harrisburg Litter Cleanup community litter cleanup with Tri-county Community Action
- May 4, 2023, community litter cleanups with HRG
- May 5, 2023, Corporate partner community litter cleanup with the Giant Company

Community meetings/partnerships:

- August 2, 2022, community National Night Out/Wet Weather Public feedback session to inform the Public Notification Plan; CSO and stormwater education.
- August 10, 2022, Wet Weather Public Feedback session to inform the Public Notification Plan; CSO and stormwater education.
- February 9, 2023, Community Feedback Session; Stormwater project overview, public notification practices, and future project goals.
- April 19, 2023 Community Ambassador meeting specific to illicit discharge and FOG education.
- May 20, 2023, CRW participated in Roots & Foods Day, a litter clean up and educational event led by Capital Area Cleanup in partnership with Young Professionals of Color,
- May 23, 2023, Choose Clean Water Conference; provided education information for all Green Stormwater Infrastructure.
- July 22-24, 2023, Participation in a three day city of Harrisburg to provide stormwater and green infrastructure education to residents and park users.
- Six (6) monthly Community Ambassador meetings where stormwater management/fees/pollution prevention were agenda topics.

ATTACHMENT #2

Public Outreach & Education Program

Annual MS4 Status Reports are due by September 30 of each year. Capital Region Water has developed and began implementing this PEOP one year following the issuance of the MS4 permit. This PEOP shall be reviewed annually and revised as necessary.

Background

City Beautiful H2O is Capital Region Water's program to restore failing infrastructure, reduce combined sewer discharges, improve the health of our local waterways, and beautify our neighborhoods through community greening. City Beautiful H2O Program Plan ("The Program Plan") is Capital Region Water's update to its Long-Term Control Plan for Combined Sewer Overflows (CSOs), stormwater management plan for its municipal separate storm sewer system (MS4), and system repair and capacity enhancement plan for its separate sanitary sewer system.

A municipal separate storm sewer system or MS4 is a stormwater collection and conveyance system that carries only stormwater runoff. The system includes the inlets, pipes, outlets, and best management practices that contribute to the collection and conveyance of stormwater. The separate storm sewer system is not combined with the sanitary sewer system. This is a critical distinction as Capital Region Water is responsible for operating and maintaining both a combined (~60 percent of the system) and separate (~40 percent of the system) stormwater system. The separate sewer system discharges directly to an Unnamed Tributary to Spring Creek, Asylum Run, Susquehanna River, Paxton Creek, and Spring Creek.

Discharges are regulated per the PADEP under a National Pollutant Discharge Elimination System (NPDES) Individual Permit. Capital Region Water has been provided NPDES Permit Number PAI133524. This permit became effective on August 1, 2020, and will expire on July 31, 2025.

Capital Region Water implements an integrated outreach and education program to ensure our customers and stakeholders recognize the importance of stormwater management and pollution prevention. These efforts are integrated under a framework that serves to ensure compliance with overlapping regulatory requirements – MS4 Minimum Control Measures (MCMs), CSO Nine Minimum Controls (NMCs), Paxton Creek Total Maximum Daily Load (TMDL) Strategy, and Chesapeake Bay Program. There is significant overlap between MS4 MCMs #1 and 2 regarding public education and involvement and NMCs #7 and 8 regarding pollution prevention programs and public notification.

Introduction

It is the goal of Capital Region Water to implement a public education program to distribute materials to the Harrisburg community and relevant stakeholders and conduct outreach activities about the impacts of stormwater to our local waterways, including steps the public can take to reduce associated stormwater pollutants.

With issuance of a final NPDES Permit for the MS4 in July 2020, Capital Region Water is ensuring regulatory compliance with all permit conditions. The Public Education and Outreach Program Plan, in cooperation with the ongoing education and outreach initiatives of the City Beautiful H2O Program, is intended to comply with MCM#1 of the Stormwater Management Program as specified in Part C of Capital Region Water's permit. MCM#1 specific to Public Education and Outreach is one of 6 Minimum Control Measures required of Capital Region Water under the MS4 program.

Under this PEOP Plan, Capital Region Water will define, implement, and track the education and outreach efforts associated with each Best Management Practice (BMP) expected under MCM #1. The Plan will be reviewed and updated annually.

BMP #1 – Develop, implement, and maintain a written Public Education and Outreach Program.

Capital Region Water is committed to implementing a public education and outreach program that ensures compliance with MCM #1 under the MS4 permit, specifically to build greater support for the City Beautiful H2O Program, increase compliance, and ultimately improve environmental awareness throughout the community. Information and outreach will be provided on a continuous basis to ensure that residents within Capital Region Water's service territory are provided various avenues to access information about stormwater pollution and their role in reducing and preventing it.

In order to achieve the goal of limiting the amount of pollution entering our waterways within Capital Region Water's service territory through the separate storm sewer system, education and outreach will be paramount.

What is stormwater?

Stormwater runoff is water from rain, snow, or ice melt that does not get absorbed into the ground. In a natural environment, most rain, snow, or ice melt falls on pervious surfaces like grass and filters into the ground, recharging groundwater and keeping water tables consistent. When stormwater lands on an impervious surface it travels until it can find a surface that will absorb it. However, in built-up environments like cities, pervious surfaces are often not plentiful enough to absorb much of the stormwater before it reaches a storm drain or collects in a depressed area. While it is traveling to the nearest storm drain or pervious surface, stormwater can pick up pollutants and even debris.

When stormwater runs off impervious surfaces it collects pollutants. This can be oil slicks from vehicles, chemicals from nearby buildings, improperly applied fertilizers and pesticides on landscaped areas, or any number of other pollutants. In a separate stormwater system, these pollutants and debris are then transferred to waterways, jeopardizing the health of water used for drinking, recreation, and habitat in

Harrisburg and downstream communities. Pollutants from runoff, including oil, pesticides, and bacteria, can contaminate drinking water, pose a danger to public health, and damage aquatic life.

In short, the following behaviors have the potential to generate stormwater pollution:

- Littering
 - Stop the drop; don't litter.
 - Pick up litter when you see it.
 - Participate in a monthly cleanup.
- Disposing of trash and recyclables
 - Make sure these materials make it to the bin.
 - Don't let materials stay behind when picked up for collection.
- Maintaining vehicles and changing fluids
 - Properly dispose of motor oil and vehicle fluids.
 - Keep your car well-maintained.
- Disposing of yard waste and grass clippings
 - Bag yard waste: residential yard waste pickup is available.
- Disposing of pet waste
 - Pick up after pets; bag the waste and dispose of it in the trash.
- Applying lawn fertilizers and chemicals
 - Use lawn or garden chemical sparingly.
 - Consider an organic option.
- Car washing
 - Wash your car over lawn or gravel; use the car wash.
- Disposing of leftover paint and other household chemicals
 - Properly dispose of leftover paint and household chemicals.
 - Do not over apply salt and ice melt.

What is Capital Region Water doing to minimize stormwater pollution?

Capital Region Water needs you! A critical piece of a comprehensive strategy is education and outreach. Behavior change through education can reduce stormwater pollution and improve our waterways.

Capital Region Water will utilize and maintain access to the following list of resources to improve the public's understanding of the sources and impacts of stormwater pollution as well as steps that can be taken toward prevention:

Dauphin County Conservation District - Stormwater Management Webpage
<http://dauphincd.org/swm/swmgmt.html>

PADEP Webpage

<https://www.dep.pa.gov/Pages/default.aspx>

PADEP – Municipal Stormwater Webpage

<https://www.dep.pa.gov/Pages/default.aspx>

USEPA - Stormwater/NPDES Program Webpage & Stormwater Phase II Final Rule Fact Sheet

<https://www.epa.gov/npdes/npdes-stormwater-program> [Stormwater Phase II Final Rule: Public Education and Outreach Minimum Control Measure \(epa.gov\)](#)

Capital Region Water will implement and document the following community outreach measures each year with content and programming to address stormwater management and related topics:

- Drafting and distribution of two monthly bill inserts and e-newsletters.
- Posting and publication of twelve social media posts per year (including but not limited to Facebook, Instagram, Twitter & Nextdoor.com).
- Participation in six community events/year (events not organized by CRW).
- Planning and execution of one litter cleanup every 1-2 months with no less than six each year.
- Planning and execution of one facility open house every other calendar year.
- Planning and execution of six facility/infrastructure tours each year.
- Meeting with each neighborhood association/community group per year.
- Hosting of ten Community Ambassador meetings per year.
- Delivery of 200 door to door hangers each year (specific to stormwater management and pollution prevention).
- Planning and execution of one stakeholder/community townhall meeting each year.

Additionally, Capital Region Water will maintain its website at capitalregionwater.com, specifically CapitalRegionWater.com/stormwater to include ongoing information about stormwater pollution, management, prevention, and regulatory compliance. Capital Region Water will also pursue both earned and paid media opportunities as available to improve media relations. This may include letters to the editor, op-eds, editorial board visits, submission of information, media events, and tours.

Capital Region Water will pursue the integration of stormwater pollution reporting. This may include a stormwater hotline or a direct form to report suspected stormwater pollution via Capital Region Water's website.

BMP #2 – Develop and maintain lists of target audience groups that are present within the areas served by Capital Region Water’s MS4.

Capital Region Water is committed to updating and maintaining a list of target audiences served by the MS4 system as well as audiences more broadly served by Capital Region Water’s stormwater system in the City of Harrisburg to ensure compliance with MCM #1, BMP #2 under the MS4 permit.

A comprehensive stakeholder list has been maintained since 2017. This list is reviewed and revised on an ongoing basis and no less than annually. Capital Region Water also attempts to track meeting dates/times as well as a record of outreach dates.

The target audiences identified within Capital Region Water’s list include:

- Customers & Residents*
- Non-bill-paying Customers such as apartment buildings and senior care facilities
- Community Groups and NGOs
 - Neighborhood Associations and Action Councils
 - Faith-based Organizations
 - Environmental NGOs
 - Community Improvement Organizations
- Volunteers (past and present)
 - Board of Directors
 - Community Ambassadors
 - Community Ambassadors are neighborhood residents and representatives that have become leading voices and advocates in their communities. Capital Region Water works with these super volunteers on an ongoing basis. We meet monthly to discuss matters and empower them with the education and knowledge to reach out to their own neighbors and communities.
 - Event Volunteers
- Local Government Partners
 - City of Harrisburg
 - Dauphin County Conservation District
 - Dauphin County
- Elected Officials
 - City of Harrisburg Mayor and Administration
 - City Council
 - County Commissioners
 - State Representative
 - State Senator
 - Members of Congress

-
- Regulatory Agencies
 - PADEP
 - USEPA
 - Other agency partners – PMAA, AWWA, SRBC

This list is maintained by and available through Capital Region Water's Community Relations Manager. Please see [N:\Working\EarlyS\2021-06-01 Community Contact Docs](#).

*Capital Region Water has also identified various customer classifications through the billing system. This includes residential, commercial, institutional/governmental, and industrial customers. A list of all restaurants/food establishments is also maintained by Capital Region Water's Environmental Compliance Inspector.

Non-English Language Audiences: According to the [2019 American Community Survey 5-Year Estimate](#), about 21 percent of Harrisburg residents speak a non-English language. Spanish is spoken by about 14 percent of the population. Capital Region Water's education materials are available in English and Spanish. The website can be translated into eight different languages.

BMP #3 – Publish and distribute stormwater education information.

Capital Region Water commits to annually publishing at least one issue of a newsletter, pamphlet, flyer, or a website that includes general stormwater educational information, a description of Capital Region Water's SWMP, and/or information about Capital Region Water's stormwater management activities to ensure compliance with MCM #1, BMP#3 under the MS4 permit.

- Capital Region Water includes an educational insert in each hard copy mailing of the monthly bill. Annually, at least two billing inserts will be dedicated to the topic of stormwater management and related pollution prevention efforts. An e-newsletter with similar content is distributed to customers electing to receive electronic monthly bills as well as interested partners and stakeholders that have signed up to receive this monthly communication.
 - A bilingual example of this publication, the October 2020 and/or August 2021 *What's on Tap* bill insert, can be provided as examples of CRW's education information.
- Capital Region Water's website (CapitalRegionWater.com and specifically [About CBH2O – Capital Region Water](#)) will be maintained and enhanced to provide educational materials, information about related projects, and regulatory and compliance documents and updates. This will include information about Capital Region Water's MS4 permit and related Minimum Control Measures and Best Management Practices. Resources from both the PADEP ([Minimum Control Measures \(pa.gov\)](#)) and USEPA ([NPDES Stormwater Program | National Pollutant Discharge Elimination System \(NPDES\) | US EPA](#)) will be integrated.

-
- Capital Region Water will launch a redesigned website prior to the submission of the first MS4 Status Report on September 30, 2021. Updates will be ongoing.
 - The entirety of Capital Region Water's website can be translated into various languages.

BMP #4 – Distribute stormwater educational materials and/or information to the target audiences.

Capital Region Water commits to distributing stormwater educational information to the target audiences by a variety of distribution means and methods to ensure compliance with MCM #1, BMP#4 under the MS4 permit.

The following distribution methods will be utilized (no less than two annually and in addition to methods described in BMP #3):

- 1) Written communications such as fact sheets, brochures, and door hangers: An inventory and gap analysis will be completed to determine what additional materials may be needed. A tri-fold brochure on the topic of "Protect our Creeks and Rivers for the Illicit Discharge Detection and Elimination Program" is currently utilized. A bilingual example can be found in Exhibit B. A fact sheet specific to MCM#1 – Public Education and Outreach on Stormwater Impacts needs to be created and/or integrated into the City Beautiful H2O Program trifold brochure. Capital Region Water will also consider updating its GIS HUB to include a map of the service territory to delineate the combined and separate stormwater systems and information relevant to the various systems.
 - a) Materials will be distributed at events, meetings, and direct delivery.
- 2) Social media: Facebook, Twitter, Instagram, and Nextdoor.com will continually be utilized to provide education, encourage public participation, send alerts, and interact with customers and stakeholders.
 - a) Digital media posts will be created and posted each month.
- 3) Events: Participation in community events provides critical opportunities to share information and provide educational resources.
 - a) Events Not Organized by Capital Region:
 - i) It is Capital Region Water's preference to participate in events organized by others as this allows CRW to reach new audiences, meet customers and stakeholders where they are, and limit the expenditure of staff resources. These outreach events connect to the community at-large and provide an opportunity to educate customers about specific programs and inform customers about ongoing projects and priorities. Events largely target residential customers and help to support community partners. Such events also provide a means to communicate with customers that do not receive a bill directly from Capital Region Water.
 - ii) Capital Region Water strives to attend a city-wide event each quarter and various, smaller events each month. Quarterly events may include National Night Out, Multicultural Festival, and Kipona

Festival with monthly events such as 3rd in the Burg, block parties, and race events interspersed. CRW is committed to six such events each year.

- b) Events Organized by Capital Region Water: Capital Region Water also plans and initiates its own events each year. Often these events highlight a particular project or program or are designed to provide a particular message or experience. Stormwater education is integrated and will continue to be prioritized. The following community events are hosted by CRW and provide an opportunity to reach out to and educate our customers and stakeholders:
- i) Monthly Litter Cleanups, 6/year (i.e., Stop the Drop Cleanups) - Monthly litter cleanups focus on a specific neighborhood within our service area and encourage residents to spend 30 minutes collecting litter that may otherwise end up in our local waterways. Prior to each event they are advertised via social media, a volunteer email, and door to door information in the local neighborhood. This pre-event outreach also allows Capital Region Water to share an anti-littering, anti-pollution, and proactive stormwater and infrastructure maintenance message. As these events are highly visible, there is an added benefit of community support. All litter is collected in blue plastic bags which is also consistent with CRW's branding.
 - ii) Great Harrisburg Litter Cleanup - Capital Region Water sponsors this annual, city-wide event which attracts hundreds of volunteers to spend a day cleaning up litter. It is the largest event of its kind in our service area. CRW purchases gloves, bags, safety vests, litter pickers, and signage to support the event. Additionally, CRW provides support by serving on the organizing committee and offering educational and messaging assistance year-round.
 - iii) Facility & Infrastructure Tours, 6/year - Facility tours provide an opportunity to educate customers through an interactive and visual experience. This includes opportunity to discuss ongoing investments into our systems and the behaviors we all need to take to protect our assets. This is an important opportunity to discuss pollution prevention and proper disposal of fats, oils, grease, and "flushable" products. Tours of stormwater management assets such as rain gardens and parks and playgrounds with GSI features also allow customers to understand the function and purpose of investments made to protect public health and the environment.
 - iv) Facility Open Houses, once every other year - Facility open houses are rotated throughout Capital Region Water's various facilities (i.e., source water facility, drinking water services center, advanced wastewater treatment facility, GSI facilities). At least one annual event is hosted to highlight a particular facility, recent projects, and/or community function/systems service provided.
- 4) Meetings (ongoing) - Meetings include both presentations and attendance at community-wide meetings, with neighborhood associations and community groups, convened meetings with Community Ambassadors, and facilitated stakeholder and town hall meetings. PowerPoint presentations, oral remarks, and educational materials are utilized during these meetings.
- 5) Adopt a Raingarden Program (ongoing) - This program will be launching in late August/early September 2021. It is designed to increase community involvement in preserving Harrisburg's infrastructure by managing stormwater through GSI projects. The program is voluntary and is designed for organizations,

businesses, and individuals. Each adopting group assumes responsibility for an assigned GSI asset and agrees to fulfill expectations such as monitoring and litter cleanup. This is an outreach method requiring active participation and commitment from various community partners. Twenty-two locations have been identified and 15 locations have been adopted (as of July 2021).

- 6) Door-to-door outreach (ongoing), 200 touches/year – Door-to-door outreach by way of personal interaction/communication and hard copy leave behinds is often employed at Capital Region Water. Each year at least 200 residential properties will be targeted for door-to-door outreach. A door hanger will be created specifically for this effort to summarize related educational information.
- 7) Passive outreach (ongoing) – Passive outreach describes the opportunity to educate customers through information displayed at Capital Region Water facilities, such as the scrolling screen or kiosks at the Customer Service Center or a message on a bill. CRW's Customer Service Center will reopen to the public in September 2021 with revised educational information. This information will be updated and maintained on an ongoing basis.
- 8) Media outreach (one media hit per year) – Capital Region Water will pursue an earned media strategy to cultivate relationships via story pitches, media requests/interviews, and editorial board visits. These opportunities tend to present themselves, but as needed CRW will commit to paid media if necessary to ensure stormwater education is included once per year via print, electronic, or TV media on PennLive, the Burg, ABC27, or CBS21.

Capital Region Water's monthly Management Report (publicly available at [Board Meetings](#)) provides recurring updates on related activities (e.g., media relations, community outreach, and public communications).

In addition to creating a materials list or library to indicated available resources (e.g., brochures, fact sheets, presentations, signage, etc.), Capital Region Water will emphasize, but is not limiting, the following topics/themes related to stormwater pollution and prevention:

- Storm drain awareness
- Infrastructure function
- Littering
- Proper disposal of waste and chemicals
- Proper application of fertilizers, pesticides, and herbicides
- Pet-waste disposal
- Yard waste/landscape maintenance
- Fats, oils and grease (FOG)
- Spill prevention/response
- Street cleaning/sweeping.

Education is power as it provides the ability to change behavior and the behavior of others. It's critical our customers and stakeholders understand their behaviors can improve our waterways here at home and downstream by reducing and preventing stormwater pollution.

ATTACHMENT #3

Public Involvement & Participation Program

Annual MS4 Status Reports are due by September 30 of each year. Capital Region Water has developed and began implementing this PIPP one year following the issuance of the MS4 permit. This PIPP shall be reviewed annually and revised as necessary.

Background

City Beautiful H2O is Capital Region Water's program to restore failing infrastructure, reduce combined sewer discharges, improve the health of our local waterways, and beautify our neighborhoods through community greening. City Beautiful H2O Program Plan ("The Program Plan") is Capital Region Water's update to its Long-Term Control Plan for Combined Sewer Overflows (CSOs), stormwater management plan for its municipal separate storm sewer system (MS4), and system repair and capacity enhancement plan for its separate sanitary sewer system.

A municipal separate storm sewer system or MS4 is a stormwater collection and conveyance system that carries only stormwater runoff. The system includes the inlets, pipes, outlets, and best management practices that contribute to the collection and conveyance of stormwater. The separate storm sewer system is not combined with the sanitary sewer system. This is a critical distinction as Capital Region Water is responsible for operating and maintaining both a combined (~60 percent of the system) and separate (~40 percent of the system) stormwater system. The separate sewer system discharges directly to an Unnamed Tributary to Spring Creek, Asylum Run, Susquehanna River, Paxton Creek, and Spring Creek.

Discharges are regulated per the PADEP under a National Pollutant Discharge Elimination System (NPDES) Individual Permit. Capital Region Water has been provided NPDES Permit Number PAI133524. This permit became effective on August 1, 2020, and will expire on July 31, 2025.

Capital Region Water implements an integrated outreach and education program to ensure our customers and stakeholders recognize the importance of stormwater management and pollution prevention. These efforts are integrated under a framework that serves to ensure compliance with overlapping regulatory requirements – MS4 Minimum Control Measures (MCMs), CSO Nine Minimum Controls (NMCs), Paxton Creek Total Maximum Daily Load (TMDL) Strategy, and Chesapeake Bay Program. There is significant overlap between MS4 MCMs #1 and 2 regarding public education and involvement and NMCs #7 and 8 regarding pollution prevention programs and public notification.

Introduction

It is the goal of Capital Region Water to implement a public involvement and participation program that describes the various types of public participation activities and methods that encourage the public's involvement and input in stormwater plans and projects.

With issuance of a final NPDES Permit for the MS4 in July 2020, Capital Region Water is ensuring regulatory compliance with all permit conditions. The Public Involvement and Participation Program Plan, in cooperation with the ongoing education and outreach initiatives of the City Beautiful H2O Program, is intended to comply with MCM#2 of the Stormwater Management Program as specified in Part C of Capital Region Water's permit. MCM#2 specific to Public Involvement and Participation is one of 6 Minimum Control Measures required of Capital Region Water under the MS4 program.

Under this PIPP Plan, Capital Region Water will comply with all application state and local public notice requirements when implementing the Best Management Practices (BMPs) expected under this program. The Plan will be reviewed and updated annually.

BMP #1 – Develop, implement, and maintain a written Public Involvement and Participation Program.

Capital Region Water is committed to implementing a public involvement and participation program that complies with MCM #2 under the MS4 permit. This written PIPP Plan will be reevaluated each year and revised as needed.

The following opportunities have been identified for the public to participate in the decision-making process associated with the programs and activities related to this permit:

- Public project meetings and (pre) construction project outreach, including written and electronic notifications
- Public notifications and announcements regarding public comment opportunities
- Town halls, monthly Board meetings, and neighborhood meetings

The following methods of routine communication to key stakeholders have been identified:

- Monthly bill inserts and e-newsletters
- Social media
- Website
- Community events
- Neighborhood/community group meetings
- Door to door outreach
- Outreach to the Harrisburg Environmental Advisory Council

Capital Region Water is also preparing to launch a redesigned website in September of 2021. The website will provide access to the MS4 permit, annual reports, and other related plans, programs, projects, maps, and reports required by this permit. Hard copies will also be made available upon request.

BMP #2 – Advertise to the public and solicit input prior to the adoption of any SOPs or Pollutant Reduction Plans (PRPs) and TMDL Plans or modifications.

Capital Region Water will ensure sufficient public notice and ample opportunity to provide public comment on the MS4 program, TMDL plans, Pollution Reduction Plans and Chesapeake Bay Pollution Reduction Plans. Public comment will be documented and evaluated. It is common practice at CRW to provide response to public comment.

Such examples include:

- Community Greening parties for Community Greening Plan – July 26, July 30, August 2, 2016
- Community greening public input events on 4/3/2017 and 4/20/2017 and 06/05/2017 and 6/8/2017
- City Beautiful H2O Program Plan events - Outreach and input of 21 community organizations, 4 stakeholder workshops for the plan, 3 public meetings on the plan - Feb. 15, 21, and Mar. 1, 2018 (also received feedback on CSO signage)
- Stormwater Fee Implementation Plan meetings – July 30, August 6, and September 12, 2019

BMP #3 – Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods.

Capital Region Water is committed to updating and maintaining a list of target audiences served by the MS4 system as well as audiences more broadly served by Capital Region Water’s stormwater system in the City of Harrisburg.

A comprehensive stakeholder list has been maintained since 2017. This list is reviewed and revised on an ongoing basis and no less than annually. Capital Region Water also attempts to track meeting dates/times as well as a record of outreach dates.

Capital Region Water documents and will continue to document outreach with target audience groups. We are committed to:

- One public meeting must be conducted to share SWMP information and solicit input within 5 years following issuance of the MS4 permit.
- Documenting and reporting instances of cooperation and participation in MS4 activities. This may also include regular updates regarding the Adopt-A-Raingarden program and a report of any presentations or instances of coordination with community organizations.
- Documenting and reporting activities in which members of the public assisted with SWMP activities. This is likely to include CRW’s litter prevention and pickup efforts.
- Implementing a process to solicit input on suspected illicit discharges.
- Exploring the possibility of storm drain markers or stenciling.

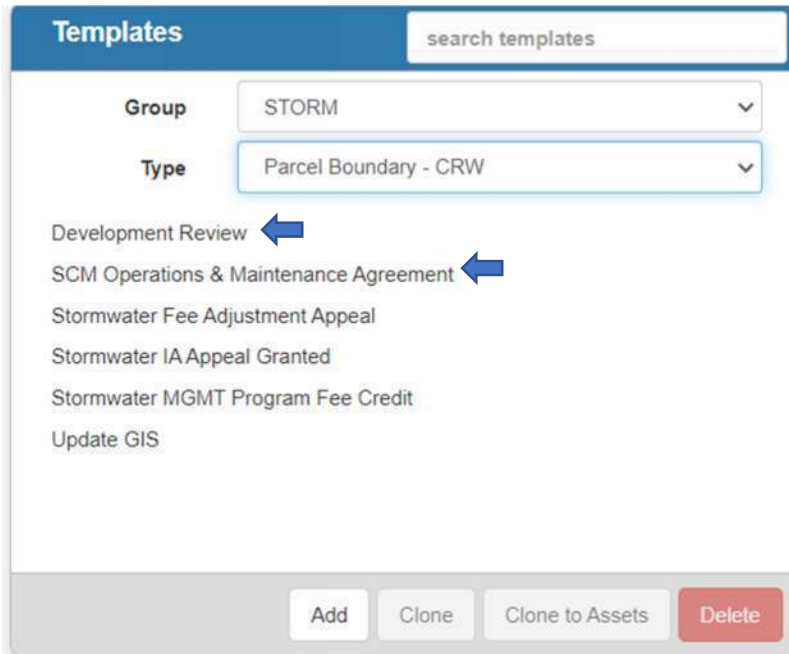
ATTACHMENT #4

Stormwater Control Measures,
Outfall Inspection, & IDDE Program
Cityworks Documentation & Workflow

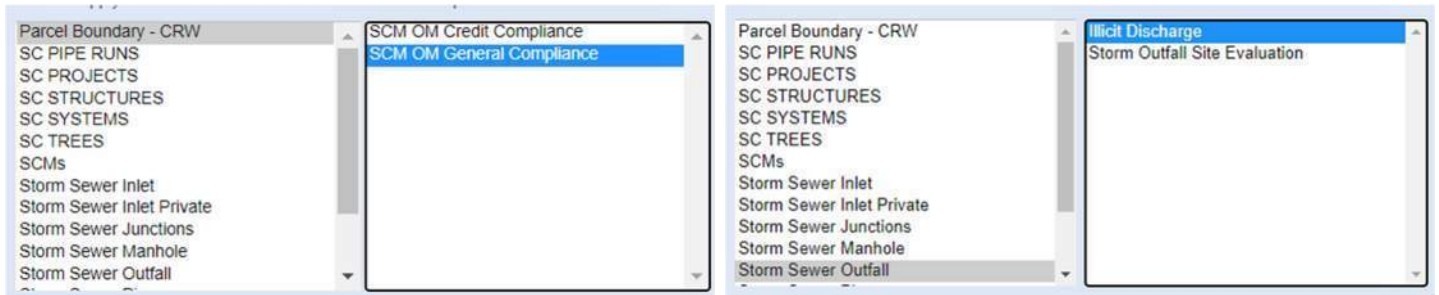
Storm Control Measure and Compliance Work Order and Inspection Templates

Template Overview:

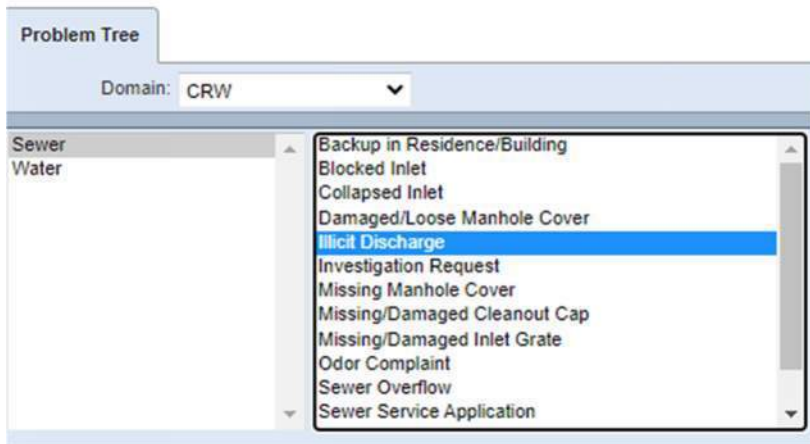
Work Orders:



Inspections:



Service Requests:



Storm Control Measure and Compliance Work Order and Inspection Templates

Work Orders:

Development Review Work Order Template

Work Order

Description: **Development Review**

Asset Type: **PARCEL BOUNDARY - CR** Change

WO#: **41956**

Address:

Location Details:

X Coord: Y Coord:

Status: **Open** Priority: **Moderate**

Requested By: Supervisor: **Maulhardt, Claire**

Submit To: Submit To Date:

Projected Start: **09/16/2021 10:19 AM** Projected Finish: **09/16/2021 10:19 AM**

Actual Start: Actual Finish:

Completed By:

Comments: Sort ▲

no comments

Assets

Total Entities: 1

Asset	Asset Id	Location Details
<input type="checkbox"/> PARCEL BOUNDARY - CRW	0	

- Pink rows indicate inventory still under warranty.

Save
 Edit
 Print
 Refresh
 Delete
 Filter
 Add
 Remove

Update Work Order XY when adding/removing assets?

Map Layer Fields

Reset

Reservations

Equipment ID	Employee	Start Date	End Date	Comments
No records to display.				

Checked Out Equipment

Equipment ID	Employee	Check Out Date	Due Date	Comments
No records to display.				

Related Work Activities

Service Requests

Add SR #:

Inspections

Add Inspection #:

Work Orders

Link Work Order:

Work Order Details

Work Order Costs

Labor Cost: \$0.00	Material Cost: \$0.00
Equipment Cost: \$0.00	Total WO Cost: \$0.00
Customer Billable: <input type="checkbox"/>	

Cancel Work Order

Work Cycle

Custom Fields

Category: **Development Review**

Lot Consolidation?	▼
Potential Appeal?	▼
Street Vacation?	▼
Stormwater - SCM?	▼
Stormwater - Potential Credit?	▼
Stormwater - New Connection	▼
Sewer - EDU?	▼
Water - New Connection?	▼
Sewer - New Connection?	▼
Total Area of Disturbance (AC)	
E&S NPDES?	▼
E&S NPDES Expiry Date	<input type="text"/>

Storm Control Measure and Compliance Work Order and Inspection Templates

SCM Operations & Maintenance Agreement Work Order Template:

Work Order

Description: SCM Operations & Maintenance Agreement

Asset Type: PARCEL BOUNDARY - CR Change

WO#: 41957

Address:

Location Details:

X Coord: Y Coord:

Status: Open Priority: Moderate

Requested By: Supervisor: Maulhardt, Claire

Submit To: Submit To Date:

Projected Start: 09/16/2021 10:21 AM Projected Finish: 09/16/2021 10:21 AM

Actual Start: Actual Finish:

Completed By:

Comments: Add Comment Sort

no comments

Assets

Total Entities: 1

Asset	Asset Id	Location Data
PARCEL BOUNDARY - CRW	0	

- Pink rows indicate inventory still under warranty.

Update Work Order XY when adding/removing assets?

Work Order Details

Work Order Costs

Labor Cost: \$0.00 Material Cost: \$0.00

Equipment Cost: \$0.00 Total WO Cost: \$0.00

Customer Billable:

Cancel Work Order

Work Cycle

Map Layer Fields

Reset

Reservations

Equipment ID	Employee	Start Date	End Date	Comments
No records to display.				

Checked Out Equipment

Equipment ID	Employee	Check Out Date	Due Date	Comments
No records to display.				

Tasks

SeqID	Name	Description	Status	Proceed	Rework	Assign
1	OM10	Documents Received	CURRENT	False	False	Maulhardt, Claire
2	OM20	Signed Original O&M	PENDING	False	False	Maulhardt, Claire
3	OM30	Board Approval	PENDING	False	False	Maulhardt, Claire
4	OM40	Dauphin County Recorded	PENDING	False	False	Maulhardt, Claire

Related Work Activities

Service Requests
Add SR #:

Inspections
Add Inspection #:

Work Orders
Link Work Order:

Remove

Create WO

Tasks:

Tasks

Work Order ID: 41957

SeqId	Name	Description	Status	Proceed	Rework	Assigned To	
<input checked="" type="checkbox"/>	1	OM10	Documents Received	CURRENT	False	False	Maulhardt, Claire
<input type="checkbox"/>	2	OM20	Signed Original O&M	PENDING	False	False	Maulhardt, Claire
<input type="checkbox"/>	3	OM30	Board Approval	PENDING	False	False	Maulhardt, Claire
<input type="checkbox"/>	4	OM40	Dauphin County Recorded	PENDING	False	False	Maulhardt, Claire

New Edit Delete

Task/Entity

Search By:

Keyword: Find

Asset	Asset Id	Location	Warranty
<input type="checkbox"/>	PARCEL BOUNDARY - CRW	0	

Highlight Selected Assets

Details

Sequence: 1 Response:

Assigned To: Maulhardt, Claire Status: CURRENT

Shop: Permit No.:

Comments:

Projected Start: Projected Finish:

Actual Start: Actual Finish:

Rework: N Proceed: N

Save

Storm Control Measure and Compliance Work Order and Inspection Templates

Inspection Templates:

Stormwater Control Measure Operations & Maintenance (OM) General Compliance Inspection Template:

Inspection | Details | Related Activities

Insp. Type: SCM OM General Compliance

Insp #: 192567

Location:

Status: Open | Resolution:

Prj. Start Date: 09/28/2022 2:15 PM | Prj. Finish Date:

Insp. Date: | Inspected By:

General

Reason for Inspection

Routine Pre-storm Event During Storm Event

Post-Storm Event Customer Complaint

Weather

Answer

If for non-residential stormwater fee credit, third party inspection provided?

Yes No N/A

SCM Observations

Soil erosion? Yes No

Invasive plants? Yes No

Trash? Yes No

Dead vegetation? Yes No

Oder? Yes No

Water depth (inches)

Outfall structure condition

1 2 3

Remediation required? Yes No

Comments

Comments:

Repairs Needed:

Stormwater Control Measure OM General Compliance Inspection Condition Definitions:

Outfall structure condition

1 2 3

i System function appears to be consistent with design intent. No erosion, settling and/or areas of standing water more than 72 hours after a rainfall event (indicating possible loss of infiltration or storage volume) are observed.

Outfall structure condition

1 2 3

i System function appears to be consistent with design intent. Limited erosion (<20 sf), settling, and/or areas of standing water more than 72 hours after a rainfall event (indicating possible loss of infiltration or storage volume) are observed.

Outfall structure condition

1 2 3

i System function appears to not be consistent with design intent. Significant erosion, settling, and/or areas of standing water more than 72 hours after a rainfall event (indicating possible loss of infiltration or storage volume) are observed.

Storm Control Measure and Compliance Work Order and Inspection Templates

Stormwater Control Measure (SCM) Operations & Maintenance (OM) Credit Compliance Inspection Template

Inspection | Details | Related Activities

Insp. Type: SCM OM Credit Compliance

Insp #: 192569

Location:

Status: Open Resolution:

Prj. Start Date: 09/28/2022 2:28 PM Prj. Finish Date:

Insp. Date: Inspected By:

Credit Type

Structural Best Practice for Stormwater Control

BMP that controls for rate BMP that controls for volume BMP that controls for water quality

BMP with unknown function

Peak / Rate Controls

10 Year Event 25 Year Event 50 Year Event

100 Year Event

Volume Controls

Pervious pavement with infiltration bed Infiltration basin Rain Garden/Bio-retention

Subsurface infiltration bed Green Roof Run-off capture & Re-use - Cistern

Dry-well/Seepage Pit Impervious Area removal with Soil restoration and vegetation

Water Quality Controls

Constructed Wetland Constructed Filter Proprietary water quality filters & Hydrodynamic devices

Vegetated filter strip Vegetated swale

Non-Structural Controls

Downspout disconnection

Total number of downspouts connected to the roof

Answer

Total number of downspouts connected to an eligible containment device

Answer

NPDES Industrial Stormwater Permitted Sites

Property with an active & fully compliant NPDES Permit from PA-DEP

Education Program

Obtained Required Documentation

Checkbox (Default Unchecked)

Comments

Comments:

Repairs Needed:

Storm Control Measure and Compliance Work Order and Inspection Templates

Illicit Discharge Inspection Template:

Inspection | Details | Related Activities

Insp. Type: Illicit Discharge
Insp #: 162802
Location:
Status: Open | Resolution:
Prj. Start Date: 06/16/2021 11:20 AM | Prj. Finish Date:
Insp. Date: | Inspected By:

General

Nature of Discharge
 Solid Intermittent Pulsing
 Transitory

MS4 Area?
 Yes No

Date of last precipitation

Source of discharge?

Potential receiving waters
 Susquehanna River Paxton Creek

Discharge Details

Oder?
 Yes No

Clarity?
 Clear Cloudy Opaque
 Sheen

Color?
 Yes No

Solids?
 Garbage Sewage Tissue
 Oil Sheen Suds Scum
 Iron Sheen

Compliance

Lab samples collected?
 Yes No

Report illicit discharges to DEP IMMEDIATELY after knowledge of pollution source that would endanger users downstream or otherwise would result in pollution.
 Yes No

Date DEP Notification submitted

Document submission?
 Yes No

Date documentation submitted?

Resolution

Resolution
 Investigation/Violation - No Work Required Investigation/Violation - Follow-up Needed Investigation - Non-Violation

Comments

Comments:

Repairs Needed:

Storm Control Measure and Compliance Work Order and Inspection Templates

Storm Outfall Evaluation Inspection Template:

Details	
General	Observations
☰ Land Uses in Outfall Drainage Area	0
☰ Land Use (Multiple)	0
☰ Outfall Type	0
☰ Closed Pipe Material	0
☰ Open Channel Material	0
☰ Other Closed Pipe Material Description	0
☰ Other Open Channel Material Description	0
☰ Closed Pipe Shape	0
☰ Open Channel Shape	0
☰ Other Open Channel Shape Description	0
☰ Other Closed Pipe Shape Description	0
☰ Outfall Pipe Height	0
☰ Outfall Pipe Width	0
☰ Outfall Submerged?	0
☰ Outfall Submerged Type	0
☰ Outfall Blocked?	0
☰ Date of most recent precipitation	0
☰ Amount of most recent precipitation (Inches)	0
☰ Dry Weather Inspection?	0
☰ Dry weather flow present at outfall during inspection?	0
☰ Description of flow rate	0
☰ Does dry weather flow contain color?	0
☰ Color description	0
☰ Does dry weather flow contain odor?	0
☰ Odor description	0
☰ Is there an observed change to receiving waters as a result of a discharge?	0
☰ Receiving water change description	0
☰ Does the dry weather flow contain any solids, scum, sheen, or other substances that result in deposits?	0
☰ Substance description	0
☰ Were sample(s) collected of the dry weather flow?	0
☰ Is there suspect of illicit discharge causing the dry weather flow?	0
☰ Stormwater sample collected?	0
☰ Notary	0

See 'Storm Outfall Evaluation Inspection Workfolw_V1.pdf' for branch inspection details.

Storm Control Measure and Compliance Work Order and Inspection Templates

Example of filled out branch inspection:

Inspection Details Related Activities

Insp. Type: Storm Outfall Evaluation

Insp #: 192568

Location:

Status: Open Resolution:

Prj. Start Date: 09/28/2022 2:20 PM Prj. Finish Date:

Insp. Date: Inspected By:

Comments

Comments:

Repairs Needed:

Observations

Question: Land Uses in Outfall Drainage Area

Answer: Industrial Commercial Open Space
 Urban Residential Suburban Residential Multiple

Next Question

Observation	Result	Description	Instruction	Explanation
-------------	--------	-------------	-------------	-------------

Inspection Details Related Activities

Insp. Type: Storm Outfall Evaluation

Insp #: 185774

Location:

Status: Completed Resolution:

Prj. Start Date: 06/23/2022 9:38 AM Prj. Finish Date:

Insp. Date: 06/22/2022 12:00 PM Inspected By: Bernstein, Tom

Comments

Comments:

Repairs Needed:

Observations

Observation	Result	Description	Instruction	Explanation
Land Uses in Outfall Drainage Area	Multiple		If more than one land use applies select multiple	<input checked="" type="checkbox"/>
Land Use (Multiple)	Commercial, Open Space		Type all land uses that may apply: Industrial, Commercial, Open Space, Urban Residential, Suburban Residential	<input checked="" type="checkbox"/>
Outfall Type	Closed Pipe			<input checked="" type="checkbox"/>
Closed Pipe Material	Polyvinyl Chloride			<input checked="" type="checkbox"/>
Closed Pipe Shape	Circular			<input checked="" type="checkbox"/>
Outfall Pipe Height	10			<input checked="" type="checkbox"/>
Outfall Pipe Width	10			<input checked="" type="checkbox"/>
Outfall Submerged?	No			<input checked="" type="checkbox"/>
Outfall Blocked?	No			<input checked="" type="checkbox"/>
Date of most recent precipitation	6/18/2022			<input checked="" type="checkbox"/>
Amount of most recent precipitation (Inches)	.01			<input checked="" type="checkbox"/>
Dry Weather Inspection?	Yes			<input checked="" type="checkbox"/>
Dry weather flow present at outfall during inspection?	No			<input checked="" type="checkbox"/>
Notary	UNCHECK			<input checked="" type="checkbox"/>

Storm Control Measure and Compliance Work Order and Inspection Templates

Service Request Templates:

Illicit Discharge Service Request Template:

Service Request	
Description: Illicit Discharge	
Request #:	8370
Address:	
Apt #:	Zip Code:
Location Details:	
X Coord:	0.000
Y Coord:	0.000
Status:	Open
Priority:	High
Initiated By:	cvadmin, cvadmin
Date Initiated:	09/16/2021 12:09 PM
Supervisor:	
Dispatch To:	
Date Dispatched:	09/16/2021 12:10 PM
Comments: <input type="button" value="Add Comment"/> <input type="button" value="Sort"/> no comments	
Invest. Completed:	<input type="checkbox"/>
Date:	
Follow-up Call Requested:	
Resolution:	

Request Details	
Facility Id:	Level Id:
Category:	Wastewater
Labor:	0
Route:	Maint. Zone:
Shop:	WF Zone:
Closed By:	Date:

Callers		
Name	Call Time	Caller Type
<input type="checkbox"/>	UNKNOWN	9/16/2021 12:09:39 PM

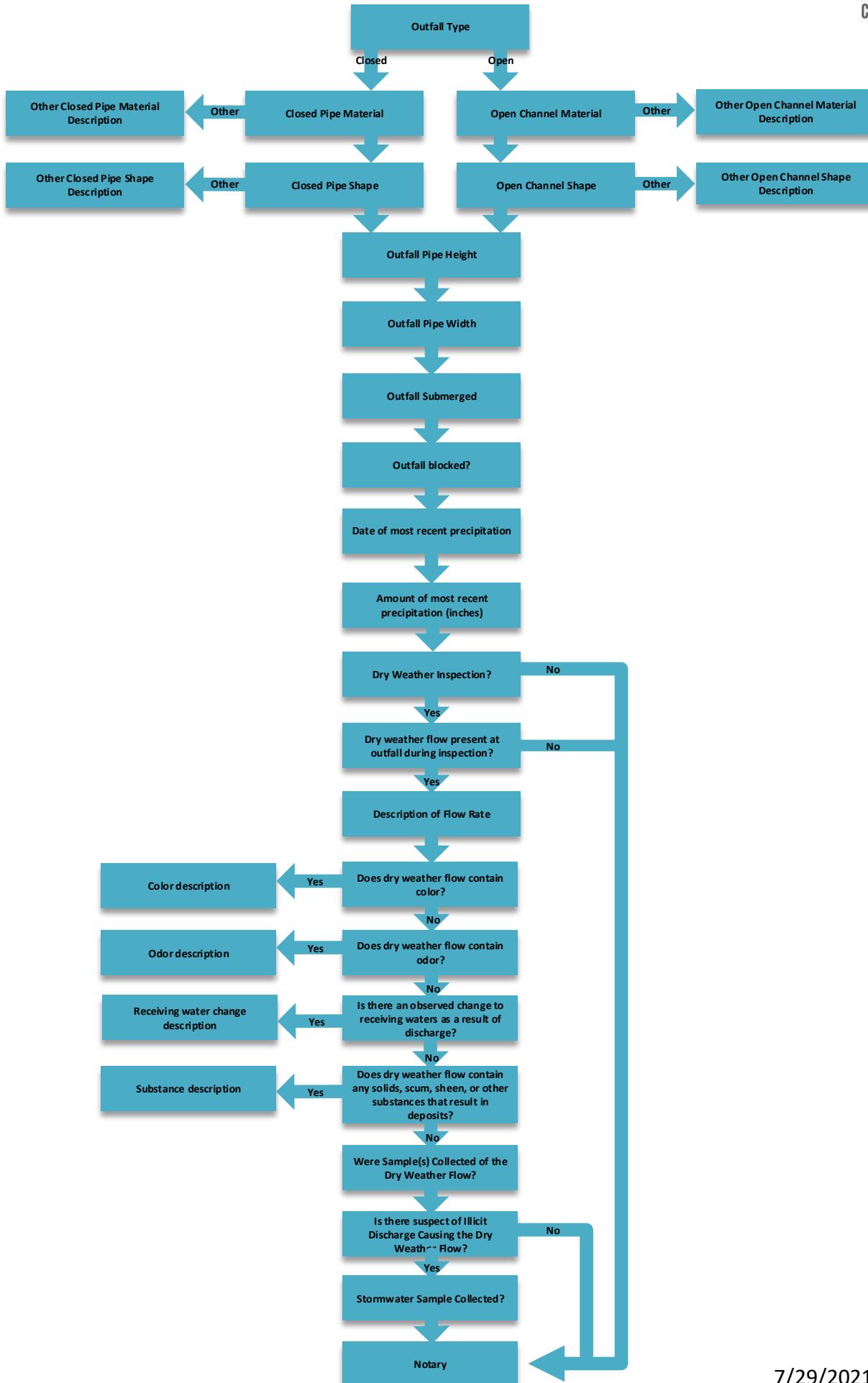
Caller Name:	UNKNOWN	Cell Phone:
Home Phone:		Email:
Date Contacted:		Contacted By:

Related Work Activities	
Inspections	
Add Insp#:	
<input type="button" value="Create Insp"/>	
Work Orders	
Group assets?	
Add WO#:	
<input type="button" value="Create WO"/>	

Attachments	
<input type="button" value="+ Add attachment..."/>	<input type="button" value="Remove all attachments"/>
Drag and drop files here to attach them.	

Map Layer Fields	
<input type="button" value="Reset"/>	

<input type="button" value="Cancel SR"/>
--



ATTACHMENT #5

Draft MS4 System Map

Document Path: \\p:\m\paxton\paw_x\11\975991
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REV. NO.	DATE	DRWN	CHKD	REMARKS
1	9/27/22	JWE	RAK	UPDATED WITH LATEST GIS INFORMATION
2	9/27/23	JWE	RAK	UPDATED WITH LATEST GIS INFORMATION

DESIGNED BY: J. Eveland
 DRAWN BY: J. Eveland
 SHEET CHK'D BY: R. Kirkham
 CROSS CHK'D BY: J. Aldrich
 APPROVED BY: R. Kirkham
 DATE: September 2017

280 Granite Run Drive, Suite 160
 Lancaster, PA 17601
 Tel: (717) 560-7500

Storm Outfalls
 ▲ CRW MS4
 MS4 Catchments (CRW)

Legend
 Watersheds
 Municipalities

Scale: 0 500 1,000 2,000 Feet

MS4 PERMIT APPLICATION OUTFALL LOCATIONS

PROJECT NO.: 214795

FIGURE 1

ATTACHMENT #6

Existing Memorandum of Understanding with
Dauphin County Conservation District

Draft Memorandum of Understanding with DCCD
and City of Harrisburg

**MEMORANDUM OF UNDERSTANDING
BETWEEN THE
DAUPHIN COUNTY CONSERVATION DISTRICT
AND
CITY OF HARRISBURG**

WHEREAS, the Dauphin County Conservation District, hereafter referred to as District, and the City of Harrisburg, hereafter referred to as Municipality, have common areas of responsibility in serving the citizens of Harrisburg and

WHEREAS, there are common areas of work that require communication and support of each of these parties to the other party, and

WHEREAS, the District and the Municipality desire to formalize their interactions in relation to common programs and responsibilities, and

WHEREAS, this Memorandum of Understanding will serve as a foundation for a cooperative and mutually beneficial working relationship between the District and the Municipality,

NOW THEREFORE, the parties agree to jointly enter into this Memorandum of Understanding. The Memorandum of Understanding has three component parts as listed herein:

- **Erosion and Sediment Pollution Control**
- **Municipal Separate Storm Sewer Systems**
- **General Conservation, Wise Use and Proper Management of our Natural Resources**
- **West Nile Virus Control Program**

EROSION AND SEDIMENT POLLUTION CONTROL

Purpose: Erosion and the resulting deposition of sediment in our waterways is the primary pollutant by volume of our streams. Minimizing erosion and sediment pollution of our streams requires initiatives at the state, county and local municipal levels of government. The purpose of this Memorandum of Understanding (MOU) is to serve as a joint commitment to control accelerated erosion and to prevent sediment pollution to the waters of the Commonwealth, which may result from the conduct of earth disturbance activities. This MOU also serves as a basis for stating the role of each party in appropriately updating and administering appropriate Ordinances of the municipality in relation to Erosion and Sediment Pollution Control.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

1. RESOURCES, MATERIALS AND DOCUMENTS

- A. Provide to the Municipality a schedule of plan review fees and sufficient quantities of all necessary educational and other forms. The District will promptly notify the municipality of any change in the plan review fee schedule and provide updated forms and educational materials in a timely manner.
- B. Upon request, provide all applicants with a DEP Erosion and Sediment Pollution Control Program Manual, National Pollutant Discharge Elimination System (NPDES) permit applications, and related forms, worksheets, checklists and all other forms and documents necessary to successfully prepare an ESPC plan and/or NPDES permit application for discharge of stormwater from construction activities.
- C. Provide the municipality with a year end summary of NPDES and Erosion and Sediment Pollution Control activities within the municipality. The summary is intended to inform the municipality of District activities and document District activities for municipal MS4 permit requirements.
- D. Serve as a repository for all ESPC plans, permit applications, plan and permit reviews, complaints, inspection reports, correspondence and other materials and documents concerning the conduct of earth disturbance activities permitted under the municipal ordinance. All such information shall be contained in a dedicated filing system, which shall be available for inspection by municipal officials at any time.
- E. The District will maintain information and materials on its website related to NPDES permitting and the ESPC program. Municipalities may provide links to the District website from municipal websites. This activity provides additional outreach and satisfies relevant MS4 requirements.

2. PLAN REVIEWS AND PERMITTING

- A. Receive all applications and plans required by NPDES permitting regulations and complete administrative and technical reviews within time frames established by DEP.
- B. Receive all ESPC plan, required by municipal ordinance or submitted voluntarily, and complete reviews of the plans within time frames established by the District.

3. INSPECTIONS

- A. The District will inspect earth disturbance activities to ensure that the approval, implementation and maintenance of the ESPC plan and ESPC practices are in compliance with the NPDES program and Chapter 102 regulations.
- B. Inspections will be performed:
 1. At a minimum, in compliance with DEP inspection schedules for permitted projects
 2. At the request of the municipality

3. In response to a complaint from the municipality or the public

4. Routinely, as time may allow

4. NOTIFICATIONS

A. Within 10 calendar days of completion the District will forward to the municipality and applicant or responsible party:

1. Notice of NPDES permit decisions including permit and plan approvals and renewals, deficiency letters, denials and withdrawals.

2. Notice of ESPC plan decisions where NPDES permits are not required including approvals and deficiency letters

3. Inspection reports resulting from complaints investigations and other inspections

5. MUNICIPAL ASSISTANCE

A. The District will assist the municipality with environmental problems, permit applications and resource management issues within the scope of the District's role under the NPDES and Chapter 102 program. The District will enlist assistance from cooperating agencies where appropriate.

B. The District will provide an invitation to the municipality to all appropriate educational events.

C. At the request of the municipality, the District will review appropriate sections of municipal stormwater management and subdivision and land development ordinances and make recommendations for consistency with current Chapter 102 regulations and NPDES permit requirements.

6. MEETINGS

A. The District will invite the municipality to all scheduled pre-application meetings. Where the District is not the entity organizing the meeting, the District will recommend to the meeting organizer that the municipality be invited. Attendance and choice of representative is at the discretion of the municipality.

B. District staff, at the request of the municipality, will meet with municipal representatives to provide information or to discuss issues related to NPDES permitting and Chapter 102 regulations.

C. District staff, where appropriate, will notify the municipality of any site meetings related to inspections, violations or complaints and invite the municipality to attend these meetings.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall:

1. RESOURCES AND INFORMATION

A. Inform those involved with earth disturbance activities of any municipal Erosion and Sediment Pollution Control and NPDES permitting Ordinance requirements.

B. Retain a sufficient quantity of the application form for ESPC plans and issue such information to all proposed earth disturbance projects that require review and approval in accordance with the provisions of the municipal ordinance. The municipality shall provide instructions as necessary to have the plans submitted to the Dauphin County Conservation District.

C. Distribute fact sheets and other materials provided by the District to all applicants for building permits and subdivision or land development approval.

D. Retain all correspondence from the District including copies of inspection reports, permit authorizations, denials and withdrawals, notices of violation, ESPC plan approvals and other correspondence needed by the municipality for MS4 permit documentation or other municipal purposes.

2. NOTICE AND REFERRAL TO THE DISTRICT

A. Forward all third party complaints concerning earth disturbance activities to the District.

B. Forward all questions related to the preparation of ESPC plans and NPDES permit applications to the District.

C. Notify the District of the receipt of a building permit application involving earth disturbance of one acre or more within five working days of receipt.

3. MUNICIPAL APPROVALS AND ACTIONS

A. Before issuing any permits or approvals, with the exception of local stormwater approvals, the municipality will require evidence of an issued Individual NPDES permit, authorized General NPDES permit or approved ESPC permit if required, or an approved ESPC plan where municipal regulations require an approved ESPC plan where NPDES or ESPC permits are not required.

B. Where violations of Chapter 102 or NPDES permitting regulations are discovered, the municipality will cooperate with the District to document and resolve the violations. Cooperation may entail providing access or copies of approved subdivision or land development plans, issued permits, review comments, revocation of municipal permits and other reasonable measures legally and practically available to the municipality.

C. Encourage the preservation and responsible use of all of our natural resources.

GENERAL CONSERVATION, WISE USE AND PROPER MANAGEMENT OF OUR NATURAL RESOURCES

Purpose: The working relationships between the forty municipal governments within Dauphin County and the Dauphin County Conservation District (District) are strong. Both the municipalities and the District agree that it is highly desirable to conserve, maintain, restore, use and properly manage our natural resources while being sensitive to the need for economic development, infrastructure improvement and the needs of our citizens. Identifying and better understanding the inter-relationships between natural resource issues of interest to the District and the local land use and management decisions made by the municipalities is critical. This memorandum of understanding that outlines general areas of cooperation between both parties is mutually endorsed.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

- A. Help to keep all municipal officials informed of the relationship of land use decisions and water quality and quantity issues. The District will share with the municipalities the information collected in their stream monitoring program and offer educational materials, workshops and field trips relating to water issues
- B. Keep the municipal officials informed and involved in studies, mitigation projects and programs that the District is administering within this municipality
- C. Provide technical assistance to the municipality as ordinances relating to natural resource concerns are updated, i.e. stormwater management, riparian buffers, low impact design standards, floodplains, groundwater recharge, agricultural issues and other natural resource issues.
- D. Facilitate Pennsylvania's Act 167 Stormwater Management Act watershed stormwater management studies
- E. Invite the municipality to participate in the development of the District long range plans as they relate to the municipal issues
- F. Assist the municipality with environmental issues and permit applications that fall within the District's area of expertise. The District will enlist the services of cooperating agencies when necessary
- G. Provide the municipality with administrative and technical training opportunities and points of contact for District programs.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Provide the District with current point of contact within the municipality for environmental issues. Provide updates as needed
- B. Inform the District of natural resource issues especially those that are water related and concerns except individual stormwater problems
- C. Implement and administer appropriate stormwater management ordinances base on approved watershed stormwater plans developed in accordance with Act 167 Stormwater Management Act guidelines. (Note: The District does not have the authority to adopt or enforce stormwater management ordinances; this is a local government function.)
- D. Afford the District the opportunity to review and comment on ordinances or proposed ordinance updates that impact on our natural resources

- E. Meet with the District to review environmental impacts of planned municipal activities as they relate to District programs.
- F. Cooperate with the District on studies, pilot projects or surveys related to natural resources conservation within the municipality.
- G. Provide the District with the date of regularly scheduled municipal meetings and invite the District to participate as appropriate.

It is mutually agreed within the limits of abilities and resources:

- A. Both parties will provide for the mutual sharing of information
- B. Both parties will supply each other with available maps, geographic information system and computer aided drafting files, printed material, photos/slides, video and displays pertaining to pertinent programs
- C. Both parties will work on projects mutually benefiting the District and the municipality.

WEST NILE VIRUS CONTROL PROGRAM

Purpose: The Dauphin County Conservation District's West Nile Virus Control Program is an integrated mosquito management (IMM) program focused on reducing mosquito populations within Dauphin County. The program utilizes education, mosquito surveillance, mosquito breeding habitat elimination and mosquito control to decrease numbers of mosquitoes within Dauphin County to reduce the risk of human acquisition of West Nile Virus. The Dauphin County IMM Program is based on sound entomological data collection to provide temporal and biological data. This data enables us to implement a mosquito abatement program relying upon habitat elimination and larval mosquito control as a foundation for the reduction of WNV levels within the county.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

- A. Provide educational outreach that will be focused at urban and agricultural communities to facilitate the elimination of mosquito breeding habitat in these areas. These programs will use both literature pertaining to WNV and basic mosquito biology, and there will be informational presentations aimed at these same geographical areas conveying information pertaining to Mosquito biology/behavior and WNV epidemiology.
- B. Aggressively execute larval mosquito control using a variety of control products. The product to be used will be site and mosquito species specific, and is dependent upon the specific habitat type and the entomological data for the site. There will be a continuous larviciding program aimed at any mosquito breeding habitats including catch basins in the urban areas of Dauphin County. Primarily, the biological larvicides *Bacillus thuringiensis* var. *israelensis* and *Bacillus sphaericus* will be used to reduce mosquito population levels. We will also utilize additional products such as Methoprene and Monomolecular Films when habitat type or biological data indicate that these products would be more efficacious.
- C. Conduct adult and larval mosquito surveillance at various locations in the county based on previous seasons' data and the elucidation of new mosquito breeding locations and citizen complaint calls. We will rely upon both carbon dioxide baited traps as well as gravid traps to monitor local adult mosquito populations. The type of trap used will be dictated by habitat type and historical and contemporary larval taxonomic data. These traps will be placed at known mosquito breeding locations as well as in areas of high population densities. We will increase our number of traps in some areas as epidemiological data confirms WNV activity in particular areas.
- D. Perform adult mosquito control when epidemiological and entomological data show that adult mosquito and virus levels are high enough to put the local human population at significant risk of WNV infection.
- E. Support enforcement of municipal codes addressing mosquito breeding habitats.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Adopt and enforce municipal ordinances which address vector/mosquito breeding habitats.
- B. Provide assistance for the notification of the public of spray events scheduled in the municipality.
- C. Provide for the publication of WNV/mosquito news and educational articles in municipal publications.
- D. Provide for the assistance of the local municipal police for any adult mosquito control events.

NPDES MUNICIPAL SEPARATE STORM SEWER SYSTEMS

Purpose Many municipalities in Dauphin County and the County itself are subject to NPDES permit requirements for Municipal Separate Storm Sewer Systems (MS4). The purpose of this agreement is to coordinate, where possible and desirable, the activities of the municipalities and the county associated with MS4 permit requirements. While not all requirements lend themselves to coordination, several of the requirements are such that coordination will result in decreased compliance cost and greater efficiency for both the municipality and county. The following details the municipal and District responsibilities by Minimum Control Measure (MCM)

MCM 1 – PUBLIC EDUCATION AND OUTREACH

District Responsibilities In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Develop and Coordinate with all regulated municipalities the placement of an educational newspaper advertisement once per permit year.
- B. Distribute educational posters to all schools within the regulated municipalities once per permit year.
- C. Make educational posters available, at cost, to regulated municipalities for distribution to target audiences other than schools.
- D. Distribute an educational publication to developers in Dauphin County once per permit year.
- E. Maintain on the District website, information related to stormwater regulations, educational materials and resources. It is recommended that Municipalities provide a link from the municipal website, if available, to the District website.
- F. Annually, no later than 30 days after the end of the permit year, provide a summary to each regulated municipality of the above activities and any other educational activities conducted by the District that would be applicable for MS4 permit compliance. Where possible, copies of the educational materials, the dates distributed and a summary or list of those the material was distributed to will be included in the summary.

Municipal Responsibilities In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Annually, no later than 30 days prior to the end of the permit year, provide a summary to the District of the use and or distribution of educational posters.
- B. Where practical and applicable, notify the District at least 15 calendar days in advance of municipal public outreach events where the District could play a role in providing public outreach.

MCM 2 – PUBLIC PARTICIPATION

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Notify regulated municipalities of public participation events, as appropriate 30 days prior to the event.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Notify the District of public participation events, as appropriate, at least 30 days prior to the event.

MCM 4 – CONSTRUCTION SITE STORMWATER MANAGEMENT

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Meet all of its responsibilities listed in the ESPC section of this MOU.
- B. Annually, no later than 30 days after the end of the permit year, provide a summary to each regulated municipality of District activities conducted in the municipality. The summary will include:
 - 1. The number of sites inspected and the number of inspections conducted
 - 2. The number of complaints received and the number of inspections conducted in response to complaints
 - 3. The number of sites referred to DEP for enforcement
 - 4. The number of permits issued

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. The municipality will meet all of its responsibilities listed in the ESPC section of this MOU.
- B. Retain all correspondence from the District including copies of inspection reports, permit authorizations, notices of violation, ESPC plan approvals and other correspondence needed by the municipality for MS4 documentation purposes.

GENERAL MS4

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Serve as a resource to regulated municipalities for general MS4 program information
- B. Provide copies of resource, regulatory, and educational materials. Limited amounts of such copies will be provided at no charge. For larger quantities, the District will provide copies in a format, where practical, suitable for producing copies or at cost.

Municipal Responsibilities: In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

- A. Provide copies of ordinances related to stormwater management, erosion and sediment control and illicit discharges. The municipality will provide the district with copies of any revised ordinances within 30 days of adoption.

EXECUTION

This Memorandum of Understanding shall become effective only after it has been adopted by vote of the governing bodies of both parties. Signatures must be those of a member of the governing body authorized to sign for the governing body.

This Memorandum of Understanding may be terminated by either party for any reason. Termination of this Memorandum of Understanding must be by certified mail. Termination shall become effective 30 days after receipt of the notice of termination.

This Memorandum of Understanding shall be reviewed periodically by either or both parties and may be amended by mutual consent of both parties.

With the execution of this Memorandum of Understanding any previous Memorandum of Understandings between the Municipality and the District shall be invalid.

DAUPHIN COUNTY CONSERVATION DISTRICT

By: Ronald E Kopp
Title: Chairman, DCCD Board of Directors
Date: October 1, 2015

CITY OF HARRISBURG

By: [Signature]
Title: Mayor
Date: 5/15/11

**MEMORANDUM OF UNDERSTANDING
BETWEEN THE
DAUPHIN COUNTY CONSERVATION DISTRICT
AND
CITY OF HARRISBURG**

**APPROVED AS TO FORM
AND LEGALITY:**

By: 

Douglas Walmer, Esq.
Deputy Solicitor

CITY OF HARRISBURG*

By: 

Charlie DeBrunner
City Controller

*The City of Harrisburg is governed under Pennsylvania's Optional Third Class City Law Charter, 53 P.S. § 41101, et seq. Section 53 P.S. § 41413(c) of the law requires that "all bonds, notes, contracts and written obligations of the city shall be executed on its behalf by the mayor and the controller."

**MEMORANDUM OF UNDERSTANDING
BETWEEN CAPITAL REGION WATER,
THE DAUPHIN COUNTY CONSERVATION DISTRICT,
AND
THE CITY OF HARRISBURG**

WHEREAS, Capital Region Water, hereafter referred to as the Authority, the Dauphin County Conservation District, hereafter referred to as District, and the City of Harrisburg, hereafter referred to as the City, have common areas of responsibility in serving the citizens of the City of Harrisburg and

WHEREAS, there are common areas of work that require communication and support of each of these parties to the other party, and

WHEREAS, the Authority, the District, and the City desire to formalize their interactions in relation to common programs and responsibilities, and

WHEREAS, this Memorandum of Understanding will serve as a foundation for a cooperative and mutually beneficial working relationship between the District, the Authority, and the City,

NOW THEREFORE, the parties agree to jointly enter into this Memorandum of Understanding. The Memorandum of Understanding includes the following:

- **Erosion and Sediment Pollution Control (ESPC)**
- **Municipal Separate Storm Sewer Systems (MS4)**

EROSION AND SEDIMENT POLLUTION CONTROL

Purpose: Erosion and the resulting deposition of sediment in our waterways is the primary pollutant by volume of our streams. Minimizing erosion and sediment pollution of our streams requires initiatives at the state, county and local municipal levels of government. The purpose of this Memorandum of Understanding (MOU) is to serve as a joint commitment to control accelerated erosion and to prevent sediment pollution to the waters of the Commonwealth, which may result from the conduct of earth disturbance activities.

District Responsibilities: In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

1. RESOURCES, MATERIALS AND DOCUMENTS

- A. Provide to the Authority and City a schedule of plan review fees and sufficient quantities of all necessary educational and other forms. The District will promptly notify the Authority and City of any change in the plan review fee schedule and provide updated forms and educational materials in a timely manner.
- B. Upon request, provide all applicants with a DEP Erosion and Sediment Pollution Control Program Manual, National Pollutant Discharge Elimination System (NPDES) permit applications, and related forms, worksheets, checklists and all other forms and documents necessary to successfully prepare an ESPC plan and/or NPDES permit application for discharge of stormwater from construction activities.
- C. Provide the Authority and City with a year-end summary of NPDES and Erosion and Sediment Pollution Control activities within the defined service area of the authority. The summary is intended to inform the Authority and City of District activities and document District activities for MS4 permit requirements.
- D. Serve as a repository for all ESPC plans, permit applications, plan and permit reviews, complaints, inspection reports, correspondence and other materials and documents concerning the conduct of earth disturbance activities. All such information shall be contained in a dedicated filing system, which shall be available for inspection by the Authority officials at any time.
- E. The District will maintain information and materials on its website related to NPDES permitting and the ESPC program. The Authority and City may provide links to the District website from the Authority and City websites. This activity provides additional outreach and satisfies relevant MS4 requirements.

2. PLAN REVIEWS AND PERMITTING

- A. Receive all applications and plans required by NPDES permitting regulations and complete administrative and technical reviews within time frames established by DEP.
- B. Receive all ESPC plans, required by municipal ordinance or submitted voluntarily, and complete reviews of the plans within time frames established by the District.

3. INSPECTIONS

- A. The District will inspect earth disturbance activities to ensure that the approval, implementation and maintenance of the ESPC plan and ESPC practices are in compliance with the NPDES program and Chapter 102 regulations.
- B. Inspections will be performed:

1. At a minimum, in compliance with DEP inspection schedules for permitted projects
2. At the request of the Authority or City
3. In response to a complaint from the Authority or the public
4. Routinely, as time may allow

4. NOTIFICATIONS

- A. Within 10 calendar days of completion the District will forward to the Authority and applicant or responsible party:
 1. Notice of NPDES permit decisions including permit and plan approvals and renewals, deficiency letters, denials and withdrawals.
 2. Notice of ESPC plan decisions where NPDES permits are not required including approvals and deficiency letters
 3. Inspection reports resulting from complaints investigations and other inspections

5. MUNICIPAL ASSISTANCE

- A. The District will assist the Authority and City with environmental problems, permit applications and resource management issues within the scope of the District's role under the NPDES and Chapter 102 program. The District will enlist assistance from cooperating agencies where appropriate.
- B. The District will provide an invitation to the Authority and City to all appropriate educational events.

6. MEETINGS

- A. The District will invite the Authority and City to all scheduled pre-application meetings. Where the District is not the entity organizing the meeting, the District will recommend to the meeting organizer that the Authority and City be invited. Attendance and choice of representative is at the discretion of the Authority or City.
- B. District staff, at the request of the Authority or City, will meet with the Authority or City representatives to provide information or to discuss issues related to NPDES permitting and Chapter 102 regulations.
- C. District staff, where appropriate, will notify the Authority and City of any site meetings related to inspections, violations or complaints and invite the Authority and City to attend these meetings.

Authority Responsibilities: In carrying out the intent of this memorandum, the Authority shall:

1. RESOURCES AND INFORMATION

- A. Inform those involved with earth disturbance activities of any municipal Erosion and Sediment Pollution Control and NPDES permitting or Ordinance requirements , where appropriate.
- B. Distribute fact sheets and other materials provided by the District where applicable.

C. Retain all correspondence from the District including copies of inspection reports, permit authorizations, denials and withdrawals, notices of violation, ESPC plan approvals and other correspondence needed by the Authority for MS4 permit documentation or other municipal purposes.

2. NOTICE AND REFERRAL TO THE DISTRICT

A. Forward all third party complaints concerning earth disturbance activities to the District.

B. Forward all questions related to the preparation of ESPC plans and NPDES permit applications to the District

City Responsibilities: In carrying out the intent of this memorandum, the City shall:

1. RESOURCES AND INFORMATION

A. Inform those involved with earth disturbance activities of any municipal Erosion and Sediment Pollution Control and NPDES permitting or Ordinance requirements , where appropriate.

B. Distribute fact sheets and other materials provided by the District where applicable.

2. NOTICE AND REFERRAL TO THE DISTRICT AND AUTHORITY

A. Forward all third party complaints concerning earth disturbance activities to the District.

B. Forward all questions related to the preparation of ESPC plans and NPDES permit applications to the District.

C. Notify the Authority of all potential projects regardless of size, type of development/construction, etc.

D. Include the Authority in all pre-application meeting and building permit inquiry correspondence.

3. PLAN REVIEWS AND PERMITTING

A. Building permits or other permits/final approvals shall not be issued until the subject project has valid NPDES permit coverage.

B. Earth disturbance or development activities shall not be allowed to commence until the Authority has issued an Earth Disturbance Permit.

C. Final plan approval and/or building/occupancy permits shall not be issued and the commencement of development activities or earth disturbance shall not be allowed until the Authority has approved a Stormwater Management Site Plan and Report and an Operation and Maintenance Agreement.

NPDES MUNICIPAL SEPARATE STORM SEWER SYSTEMS

Purpose: Many entities in Dauphin County and the County itself are subject to NPDES permit requirements for Municipal Separate Storm Sewer Systems (MS4). The purpose of this agreement is to coordinate, where possible and desirable, the activities of the Authority and the District associated with MS4 permit requirements. While not all requirements lend themselves to coordination, several of the requirements are such that coordination will result in decreased compliance cost and greater efficiency for both the Authority and county. The following details the Authority and District responsibilities by Minimum Control Measure (MCM)

MCM 1 – PUBLIC EDUCATION AND OUTREACH

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Develop and Coordinate with the Authority the placement of an educational newspaper advertisement once per permit year.
- B. Distribute educational posters to all schools within the regulated urbanized area once per permit year.
- C. Make educational posters available, at cost, to the Authority for distribution to target audiences other than schools.
- D. Distribute an educational publication to developers in Dauphin County once per permit year.
- E. Maintain on the District website, information related to stormwater regulations, educational materials and resources. It is recommended that the Authority provide a link from the municipal website, if available, to the District website.
- F. Annually, no later than 30 days after the end of the permit year, provide a summary to the Authority of the above activities and any other educational activities conducted by the District that would be applicable for MS4 permit compliance. Where possible, copies of the educational materials, the dates distributed and a summary or list of those the material was distributed to will be included in the summary.

Authority Responsibilities In carrying out the intent of this memorandum, the Authority shall, within the limits of its capabilities:

- A. Annually, no later than 30 days prior to the end of the permit year, provide a summary to the District of the use and or distribution of educational posters.
- B. Where practical and applicable, notify the District at least 15 calendar days in advance of Authority public outreach events where the District could play a role in providing public outreach.

MCM 2 – PUBLIC PARTICIPATION

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Notify the Authority of public participation events, as appropriate 30 days prior to the event.

Authority Responsibilities: In carrying out the intent of this memorandum, Authority shall, within the limits of its capabilities:

- A. Notify the District of public participation events, as appropriate, at least 30 days prior to the event.

MCM 3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION

City Responsibilities: In carrying out the intent of this memorandum, the City shall, within the limits of its capabilities:

- A. Facilitate access to private property to inspect outfalls or investigate illicit connections and discharges, as required.
- B. Ensure the stormwater management ordinance (or other applicable elements of code) meets the DEP model ordinance and refers to the CRW Stormwater Rules and Regulations

MCM 4 – CONSTRUCTION SITE STORMWATER MANAGEMENT

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Meet all of its responsibilities listed in the ESPC section of this MOU.
- B. Annually, no later than 30 days after the end of the permit year, provide a summary to the Authority of District activities conducted in the defined service area of the authority. The summary will include:
 - 1. The number of sites inspected and the number of inspections conducted
 - 2. The number of complaints received and the number of inspections conducted in response to complaints
 - 3. The number of sites referred to DEP for enforcement
 - 4. The number of permits issued

Authority Responsibilities: In carrying out the intent of this memorandum, the Authority shall, within the limits of its capabilities:

- A. Meet all of its responsibilities listed in the ESPC section of this MOU.
- B. Retain all correspondence from the District including copies of inspection reports, permit authorizations, notices of violation, ESPC plan approvals and other correspondence needed by the Authority for MS4 documentation purposes.

City Responsibilities: In carrying out the intent of this memorandum, the City shall, within the limits of its capabilities:

- A. Meet all of its responsibilities listed in the ESPC section of this MOU.

MCM 6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING

Authority Responsibilities: In carrying out the intent of this memorandum, the Authority shall, within the limits of its capabilities:

- A. The Authority shall perform inlet cleaning and street sweeping in a manner to prevent and reduce stormwater pollution.

City Responsibilities: In carrying out the intent of this memorandum, the City shall, within the limits of its capabilities:

- A. Conduct snow removal and deicing operations, including storage, in a manner to prevent and reduce stormwater pollution.
- B. Maintain City facilities in a manner to prevent and reduce stormwater pollution.
- C. Coordinate directly with DEP regarding enforcement actions from DEP; the Authority shall not regulate City owned facilities.
- D. In emergency situations the City shall assist the Authority with inlet cleaning.

GENERAL MS4

District Responsibilities: In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

- A. Serve as a resource to the Authority for general MS4 program information
- B. Provide copies of resource, regulatory, and educational materials. Limited amounts of such copies will be provided at no charge. For larger quantities, the District will provide copies in a format, where practical, suitable for producing copies or at cost.

Authority Responsibilities: In carrying out the intent of this memorandum, the Authority shall, within the limits of its capabilities:

- A. Provide copies of rules and regulations related to stormwater management, erosion and sediment control and illicit discharges. The Authority will provide the District and City with copies of any revised rules and regulations within 30 days of adoption.

City Responsibilities: In carrying out the intent of this memorandum, the City shall, within the limits of its capabilities:

- A. Provide copies of ordinances related to stormwater management, erosion and sediment control and illicit discharges. The City will provide the District and Authority with copies of any revised ordinances within 30 days of adoption.

EXECUTION

This Memorandum of Understanding shall become effective only after it has been adopted by vote of the governing bodies of all parties. Signatures must be those of a member of the governing body authorized to sign for the governing body.

This Memorandum of Understanding may be terminated by either party for any reason. Termination of this Memorandum of Understanding must be by certified mail. Termination shall become effective 30 days after receipt of the notice of termination.

This Memorandum of Understanding shall be reviewed periodically by all parties and may be amended by mutual consent of all parties.

With the execution of this Memorandum of Understanding any previous Memorandum of Understandings between the Authority/City and the District shall be invalid.

CAPITAL REGION WATER

By: _____

Title: _____

Date: _____

DAUPHIN COUNTY CONSERVATION DISTRICT

By: _____

Title: _____

Date: _____

CITY OF HARRISBURG

By: _____

Title: _____

Date: _____

ATTACHMENT #7

Draft PCSM BMP Inventory

Land Development BMP Inventory													
Date Installed	Development	Act 167 Watershed	Latitude ¹	Longitude ¹	BMP	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	MS4	O&M Requirements ²	Entity Responsible for O&M	NPDES
2018	Hacc	Paxton Creek	40°17'47.9"N	76°53'18.8"W	Rain Gardens, berms, basins	16.5	X	X	X	MS4	CRW O&M	HACC Facilities Department 717-780-1126	n/a
2018	Paxton Place	Spring Creek West	40°15'15.1"N	76°51'09.0"W	Rain Garden, Bioretention basins	1.61	X	X	X	Combine	HBG O&M	Paxton Ministries 717-236-5508	n/a
2018	Hamilton Health Center	Paxton Creek	40°15'52.0"N	76°51'55.5"W	Rain Garden, subsurface basin	3.35	X		X	Combine	HBG O&M	Terese M. Delaplaine, J.D. CEO 717-230-3910	n/a
2018	ABC27	Susquehanna River	40°17'57.0"N	76°53'41.0"W	Rain garden	1.65	X	X	X	Combine	HBG O&M	WHTM - Keith Blaidell 717-236-2727	n/a
2019	PA Counselling Services Inc. (548 S.17th Street)	Paxton Creek	40°15'30.5"N	76°51'42.2"W	Subsurface Detention basin	0.99	X			Combine	HBG O&M	PA Counseling Services Inc. (717) 695-7919	n/a
2019	The Salvation Army Harrisburg	Spring Creek West	40°16'01.8"N	76°50'29.9"W	Rain Gardens	6.83		X	X	MS4	CRW O&M	Major John Griner 717-233-6755	n/a
2020	Autozone	Paxton Creek	40°16'50.5"N	76°53'18.3"W	Infiltration Basin	0.73	X	X	X	Combine	CRW O&M	The Buonarroti Truts 3605 Vartan Way, Suite 301 Harrisburg, PA 17110 717-657-0110 ext.244	n/a
2020	Farm Show Complex	Paxton Creek	40°16'58.8"N	76°52'58.2"W	Swale	12.52	X		X	Combine	HBG O&M	(717) 787-5373	n/a
2020	137 South 17th Street	Paxton Creek	40°15'53.6"N	76°51'48.5"W	Detention Basin	0.85	X			Combine	HBG O&M	White Haven Capital LLC 2675 Baltyburion Road Center Valley, PA 19034 917-535-3534	n/a
2021	William Howard Day Homes	Paxton Creek	40°16'32.8"N	76°52'34.6"W	Infiltration beds	1.65	X	X	X	Combine	HBG O&M	426 S. 3rd Street Suite 101 lemoyn, PA 17043	n/a
2022	Bethesda Women's Center (20th & Forster)	Paxton Creek	40°16'31.9"N	76°51'45.4"W	Rain Garden, Permeable Pavement	0.43			X	Combine	CRW O&M	Cindy Mallow Director of Development 717-257-4442 x233 or cmallow@bethesdamission.org	n/a
2021	2525 7th Street	Paxton Creek	40°17'16.2"N	76°53'22.5"W	SWM Facility	11.35	X	X	X	Combine	CRW O&M	Jonathan Hudson The Hudson Companies 2450 Shenango Valley Freeway Hermitage, PA 16148 724-981-1204	n/a
2021	Harrisburg Military Post	Paxton Creek	40°16'43.2"N	76°52'23.8"W	SWM Facility	5.95	X	X	X	MS4	CRW O&M	Commonwealth of PA Department of General Services 717-787-3893	n/a
2022	Transcorp Enterprise	Paxton Creek	40°18'04.5"N	76°53'23.2"W	Basin	7.7	X	X	X	Combine	CRW O&M	Randy Mower Director of Operations 717-231-4040 x305	n/a
2022	Riverfront Office Lot	Susquehanna River	40°14'52.1"N	76°52'03.1"W	Infiltration Bed	2.57	X	X		Combine	CRW O&M	Breanna McCoy PMI Division Manager, Commercial 717-635-2427	n/a
2022	PHEAA	Paxton Creek	40°16'15.8"N	76°53'00.1"W	Permeable Pavement	0.382		X	X	MS4	CRW O&M	Deacon Tom Hewitt DirectorFacilities Phone: 717-720-2342	n/a
2022	UNFI	Paxton Creek	40°18'34.3"N	76°53'19.9"W	Infiltration Bed	28.48	X	X	X	MS4	CRW O&M	Beth Freymiller Environmental Manager 11840 Valley View Rd Eden Prairie, MN 55344 952-914-5229	n/a
2023	638-644 Woodbine Street	Paxton Creek	40°16'57.3"N	76°53'23.4"W	Control Structure with Weir	0.24	X	X		Combine	CRW O&M	Camp Curtain YMCA Jamien Harvey 2135 N. 6th Street 717-238-9622	n/a
2023	Camp Curtain	Susquehanna River	40°16'55.6"N	76°53'23.9"W	Green wall, infiltration basin, bumpouts	0.8	X	X	X	Combine	CRW O&M	Camp Curtain YMCA Jamien Harvey 2135 N. 6th Street 717-238-9622	n/a
2023	PHMC Archives Building	Paxton Creek	40°16'32.9"N	76°53'11.1"W	Infiltration Basin	1.51	X	X	X	Combine	HBG O&M	(717) 783-3281	n/a

Land Development BMP Inventory													
Date Installed	Development	Act 167 Watershed	Latitude ¹	Longitude ¹	BMP	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	MS4	O&M Requirements ²	Entity Responsible for O&M	NPDES
2023	Harrisburg Federal Courthouse	Paxton Creek	40°16'29.0"N	76°53'09.0"W	Rain Gardens, Infiltration Bed, green roof, water reuse	3.61	X	X	X	Combine	HBG O&M	Division Supervisor Shawna Cihak 717-221-3959 (f) Harrisburg Systems Manager Jeff Groff 717-221-3933	n/a
2023	2101 North 6th Street	Paxton Creek	40°16'51.3"N	76°53'23.4"W	SW Conveyance	0.71	X			Combine	CRW O&M	Mighty Group Holdings, LLC Adam Maust 1591 Stoney Mountain Way Dauphin, PA 17018 717-307-5501	n/a
In-construction	6th & Herr St (Bethel Village)	Susquehanna River	40°16'07.2"N	76°53'08.5"W	Underground Infiltration Facility	0.49	X	X	X	Combine	CRW O&M	Ava Goldman Bethel Village Associates 856-296-0670 avagoldman28@gmail.com	n/a
In-construction	Veterans Tiny Homes (1103 S. Front Street)	Susquehanna River	40°14'37.4"N	76°51'50.4"W	Rain Garden, Infiltration Trench, Infiltration Basin	5	X	X	X	MS4	CRW O&M	Thomas Zimmerman Veterans Outreach of Pennsylvania 717-215-0305 tom.zimmerman@ebg-us.com	PAC220319
In-construction	1400 Sycamore Street	Paxton Creek	40°15'07.4"N	76°51'43.3"W	Underground Storage	0.29	X	X	X	Combine	CRW O&M	George Fernandez 717-963-7218 GFernandez@LatinoConnection.org	n/a
In-construction	Catherine Hershey School (6th-7th Street & Muench)	Susquehanna River	40°16'45.6"N	76°53'17.1"W	Underground Storage	5	X	X	X	Combine	CRW O&M	William Wos P.O. Box 830, Hershey, PA 17033 717-520-3413 WosW@mhs-pa.org	PAC220328

¹ CRW can provide GIS information for all private BMP upon request

² City of Harrisburg O&M agreement executed before CRW O&M agreement implemented in 2020

ATTACHMENT #8

Joint PRP Supplement

Joint PRP Supplement

Baseline Sediment Loads

Baseline pollutant loads for the Joint Planning Area are summarized in **Table 1** (Table 7 of the 2019 Joint Pollutant Reduction Plan¹).

Table 1. Municipal Baseline Pollutant Loading for the Joint Planning Area.

MS4 Permittee	Percentage of Watershed	Baseline Sediment Load (lb/yr)
CRW (City of Harrisburg)	16%	3,667,006
Township of Lower Paxton	57%	9,324,542
Township of Susquehanna	27%	4,141,959
Joint Planning Area Total:	100%	17,507,254*

*Total Baseline Sediment Load based on MMW results for the entire watershed, not the sum of the individual municipalities. Refer to Appendix D of this report for modeling outputs.

The baseline sediment load for the CRW combined sewer system service area is summarized in **Table 2** (Table 10 of the 2019 Joint Pollutant Reduction Plan). This load reduction is comprised of a land-based sediment load (load in CSO discharge from outfalls to receiving waters) and a streambank erosion sediment load (sediment mobilized and transported downstream due to erosive wet weather velocities).

Table 2. Summary of CRW/City of Harrisburg Paxton Creek Corrected Sediment Loads from the Combined Sewer System.

Scenario	Land-Based Sediment Load (ton/yr)	Streambank Erosion Sediment Load (ton/yr)	Total CSS Sediment Load (ton/yr)	Total CSS Sediment Load (lb/yr)	Reduction from Existing
Sediment Load Reported in 2008 TMDL	18	364	382	764,000	---
Corrected Sediment Load from Existing Combined Sewer System	16	332	348	696,000	5%

¹ Joint Pollutant Reduction Plan: Paxton Creek Watershed TMDL, Chesapeake Bay PRP, Wildwood Lake PRP, and UNT Spring Creek PRP, Revised December 27, 2019

“Existing” Loads and Load Reduction Requirements

As documented in the Joint Plan, the “Baseline” load is adjusted to account for projects completed prior to completion of the Joint Plan. The resulting load is the “Existing” load, and the Municipal Entities understand the “Existing” load to be the starting point for load reductions required under the five-year MS4 permit term beginning on August 1, 2020.

Load reduction requirements are summarized in **Table 3** (Table A of the Joint Pollutant Reduction Plan).

Table 3. Short-Term (5-yr) Pollutant Load Reduction Requirements by PRP Planning Area.

Planning Area	Impairment	Existing Sediment Load (lb/yr)	Required Sediment Load Reduction	Sediment Reduction Required (lb/yr)
Paxton Creek TMDL	Sediment / Siltation	3,630,159	10%	363,016
Joint Planning Area	Sediment / Nutrients	16,943,984	10%	1,694,398
Wildwood Lake	Sediment / Siltation	2,825,290	10%	282,529
UNT to Spring Creek	Sediment / Siltation	45,137	10%	4,514

“Existing” Projects Used to Adjust Baseline Sediment Loads

As shown in **Table 4**, seven (7) existing stormwater quality projects (EX-01 through EX-07) were completed in the Paxton Creek Watershed prior to the completion of the Joint Plan and are being utilized as credit to reduce the baseline sediment loading estimates for the watershed. Pollutant load reductions associated with CRW’s CSS have also been included in the existing load calculations (Joint Pollutant Reduction Plan, p. 24).

Table 4. Installed BMPs.

Map Reference	BMP Name	Planning Area Credit	Sediment Load Reduction (lbs/yr)*
EX-01	Paxton Church / Reichert Rd. Rain Garden and Stream Restoration (240 ft.)	Joint Planning Area / Paxton Creek TMDL	40,012
EX-02	Fox Hunt Rd. Stream Restoration (375 ft.)	Joint Planning Area / Paxton Creek TMDL	43,125
EX-03	UNT to Asylum Run Retention Basin and Stream Restoration (350 ft.)	Joint Planning Area / Paxton Creek TMDL	72,025
EX-04	Elmerton Ave. Bio-retention Basin	Joint Planning Area / Paxton Creek TMDL	17,191
EX-05	Black Run Stream Restoration (800 ft.)	Joint Planning Area / Paxton Creek TMDL	92,000
EX-06	Asylum Run Bio-retention and Stream Restoration (400 ft.)	Joint Planning Area / Paxton Creek TMDL	73,617
EX-07	Dowhower Rd Buffer and Stream Restoration (1,220 ft.)	Joint Planning Area	140,300
CSS-01	CRW Combined Sewer System Sediment Capture Performance to Paxton Creek Watershed Allowance	Joint Planning Area / Paxton Creek TMDL	68,000
CSS-02	CRW Combined Sewer System Sediment Capture Performance to Susquehanna River Allowance	Joint Planning Area	17,000
Total Existing BMP Sediment Load Reduction:			563,270
*BMP reduction values derived using Joint Planning Area Model My Watershed parameters			

Sediment Load Reduction Status as of August 1, 2023: Additional Background and Calculations

For the current reporting period ending on August 1, 2023, the Municipal Entities are taking credit for projects in the operation phase. Table 8 in the Conclusion section summarizes the status of all projects in the design, construction, and operation phases. When completed and in operation, these projects are projected to achieve approximately 103% of the load reduction required by the end of the current permit term. The remainder of this section provides background information on projects that are completed and in operation.

BMP15: Street Sweeping

CRW is performing street sweeping a minimum of 25 times per year as required by PADEP guidelines. As described in the Joint Pollutant Reduction Plan (**Table 5**), the annual sediment load reduction credit applied is 29,864 lb/yr.

Table 5. Proposed Street Sweeping Reduction Credit.

BMP #	Early Action Project	BMP Name	Managed Area (Acre)	Reduction (lbs)
BMP-15	EAP-9	CRW Street Sweeping (25 times per year)	166.0	29,864
Totals:				29,864

BMP16: Combined Sewer System Rehabilitation and Optimization

Sediment removed by the CRW combined sewer system (CSS) is the sum of three components.

- First, sediment is removed by processes within green stormwater infrastructure such as settling and filtration. Stormwater released from green stormwater infrastructure is expected to have a lower sediment concentration than untreated stormwater prior to entering the combined sewer system.
- Second, sediment is captured by the combined sewer system and conveyed to CRW’s Advanced Wastewater Treatment Facility. Reduction in the volume of combined sewer overflow is expected to proportionally reduce “land based” sediment load reaching the receiving water.
- Third, instream sediment mobilization in Paxton Creek is reduced as CSO flows and velocities reduce erosive forces on the stream channel.

Summary of CSS Improvements and CSO Control Benefits

CSS improvements implemented and operating as of August 1, 2023 consist primarily of early action GSI projects. Other improvements include the Front Street Pump Station upgrade, however sediment reductions (via increased capture) from this project will not be fully realized until CSO regulator modifications are complete (which cannot be fully completed until the interceptors are rehabilitated). Some regulator modifications have been completed (Hemlock Street Interceptor CSO regulators; and some Paxton Creek CSO regulator weirs have been raised to prevent creek intrusion), which has resulted in CSS improvements.

Table 6 is a summary of completed GSI projects within CRW’s service area. These projects are located in the CSS service area with the exception of the Cloverly Heights project, which is located in the MS4 service area.

Table 6. Summary of Completed CRW GSI Projects.

Project Name	Impervious Drainage Area [ac]	Total Storage Volume [cf]
Penn and Sayford	0.34	581
Royal Terrace Playground	0.79	3,190
Summit Terrace	2.64	14,600
3rd & Emerald	0.29	1,150
3rd & Woodbine	0.09	435
3rd & Maclay	0.22	1,150
3rd and Muench	0.42	1,080
3rd and Kelker	0.12	966
3rd and Hamilton	0.06	372
3rd and Harris	0.11	430
3rd and Basin	0.04	25
3rd and Calder	0.18	1,160
3rd and Sayford	0.03	99

Table 6. Summary of Completed CRW GSI Projects.

Project Name	Impervious Drainage Area [ac]	Total Storage Volume [cf]
3rd and Verbeke	0.10	727
3rd and Boas	0.11	487
3rd and Union	0.13	86
3rd and Blackberry	0.12	55
Allison Hill	1.0	5,230
4th and Dauphin	0.75	5,130
Camp Curtin Big Green Block	2.78	14,421
Bellevue Park Pond	16.6	33,772
CSS SUBTOTAL	27.0	85,200
Cloverly Heights	2.6	15,400
TOTAL	29.6	100,600

With the above CSS improvements, the systemwide Typical Year CSO volume is reduced by approximately 42.2 MG per year. The Typical Year represents average annual hydrologic conditions as defined in the Partial Consent Decree between CRW, PADEP, and the USEPA.

Reduction in Sediment Concentration in Green Stormwater Infrastructure Effluent

CRW has updated its calibrated SWMM5 model of the combined sewer service area to represent green stormwater infrastructure facilities operating within CRW’s combined sewer service area as of August 1, 2023. Green stormwater infrastructure removes runoff volume and pollutant loads through processes including infiltration to native soil, evaporation, filtration through planting media, and sorption of pollutants to soil particles. Hydraulic controls limiting the rate of effluent flow also reduce combined sewer overflows and streambank erosion occurring downstream.

For modeling purposes, green infrastructure facilities are categorized as one of three broad types – infiltration only, slow release only, and infiltration/slow release. For each facility type and within each model subshed, the SWMM5 model represents the storage volume, infiltration footprint, and any slow-release hydraulic controls implemented. Model settings are described in more detail below.

- Storage volume and infiltration footprint were based on engineering design information available in CRW’s GIS.
- If pre-construction or post-construction infiltration rate data were available, soil hydraulic conductivity assumptions were derived from this data. If no data were available, hydraulic conductivity values from CRW’s calibrated SWMM5 rainfall-runoff response model were incorporated in GSI elements on a sewershed basis.
- For sites indicated in CRW’s GIS as having slow-release hydraulic controls, design data on orifice size and elevation were incorporated in the model if available. If design data were not available, a 0.5-inch diameter orifice was assumed.

For the Typical Year SWMM5 continuous simulation, during each CSO event, slow-release flows from GSI entering the combined sewer system were determined. The portion of total flow made up of slow release was determined, and slow release from GSI was assumed to represent the same fraction of CSO as it does of total flow. (Example: If slow release from GSI makes up 1% of the flow entering the combined sewer system for a particular event, then slow release from GSI also makes up 1% of CSO volume for that event.) The CSO volumes attributed to GSI slow release for each overflow event are summed to determine the total CSO volume attributed to GSI slow release during the Typical Year. Sediment removal percentages are applied to concentrations in slow-release volumes from GSI facilities based on PADEP’s recommended values (**Table 7**).²

Table 7. BMP Effectiveness Values.

BMP Name	BMP Effectiveness Values			BMP Description
	TN	TP	Sediment	
Infiltration Practices w/ Sand, Veg.	85%	85%	95%	An depression to form an infiltration basin where sediment is trapped and water infiltrates the soil. No underdrains are associated with infiltration basins and trenches, because by definition these systems provide complete infiltration. Design specifications require infiltration basins and trenches to be built in good soil, they are not constructed on poor soils, such as C and D soil types. Engineers are required to test the soil before approval to build is issued. To receive credit over the longer term, jurisdictions must conduct yearly inspections to determine if the basin or trench is still infiltrating runoff.
Bioretention – Raingarden (C/D soils w/ underdrain)	25%	45%	55%	An excavated pit backfilled with engineered media, topsoil, mulch, and vegetation. These are planting areas installed in shallow basins in which the storm water runoff is temporarily ponded and then treated by filtering through the bed components, and through biological and biochemical reactions within the soil matrix and around the root zones of the plants. This BMP has an underdrain and is in C or D soil.
Bioretention / Raingarden (A/B soils w/ underdrain)	70%	75%	80%	An excavated pit backfilled with engineered media, topsoil, mulch, and vegetation. These are planting areas installed in shallow basins in which the storm water runoff is temporarily ponded and then treated by filtering through the bed components, and through biological and biochemical reactions within the soil matrix and around the root zones of the plants. This BMP has an underdrain and is in A or B soil.
Bioretention / Raingarden (A/B soils w/o underdrain)	80%	85%	90%	An excavated pit backfilled with engineered media, topsoil, mulch, and vegetation. These are planting areas installed in shallow basins in which the storm water runoff is temporarily ponded and then treated by filtering through the bed components, and through biological and biochemical reactions within the soil matrix and around the root zones of the plants. This BMP has no underdrain and is in A or B soil.

As of August 1, 2023, the estimated sediment load removed due to decreased concentration from GSI slow release in CRW’s combined sewer areas is 9 lb/yr. Note that this value represents only the portion of load reduction from CSO outfalls due to decrease in sediment *concentration* in the CSO. The load reduction due to reducing the CSO *volume* is described in the following section.

Land-Based Sediment Load Reductions Due to Combined Sewer Overflow Reduction

This credit represents the sediment load that is captured and conveyed to the AWTF under current (August 1, 2023) conditions compared to the Existing Condition. This reduction is added to the sediment load removed from surface runoff by GSI slow release before the runoff enters the combined sewer system.

As described in the Joint Pollutant Reduction Plan, this load is assumed to be directly proportional to the reduction in CSO volume discharged to the receiving waters in the current (August 1, 2023) conditions compared to the Existing Condition. The calculation employed in production of the Joint Pollutant Reduction Plan has been applied in exactly the same way to calculate the reduction during

² PADEP. BMP Effectiveness Values. 3800-PM-BCW0100m Rev. 6/2018.
<http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=3686>. Accessed 9/2/21.

the reporting period. However, the equation presented in the Joint Pollutant Reduction Plan has been corrected to produce the correct units and numerical results.

2017 PRP Land-Based Runoff Sediment Load from CSS changes calculation method	
LBS_{CAP}	$= LBS_{CRW-TOT} * A_{CSS} / A_{CRW-TOT} - \frac{LBS_{CSS}}{LBS_{CRW-TOT}} * CSS_{VOL} * CSO_{VOL}$
where:	
LBS_{CAP}	= Reductions in Land-Based Sediment Load from existing CSS operations (lb)
$LBS_{CRW-TOT}$	= Total Land-Based Sediment Load from CRW/Harrisburg (lb)
A_{CSS}	= Area draining to the CRW CSS (acres)
$A_{CRW-TOT}$	= Total Area in CRW/Harrisburg (acres)
LBS_{CSS}	= Total Land-Based Sediment Load from CRW/Harrisburg (lbs)
CSS_{VOL}	= Runoff volume from CSS area (gal)
CSO_{VOL}	= CSO volume from existing CSS operation (gal)

Joint Pollutant Reduction Plan: Paxton Creek Watershed TMDL, Chesapeake Bay PRP, Wildwood Lake PRP, and UNT Spring Creek PRP, Revised December 27, 2019; Exhibit 3, Corrected as Noted in Red

Runoff and CSO volumes were calculated based on a typical year simulation of CRW’s calibrated SWMM5 model of the combined sewer collection and treatment system. As of August 1, 2023, the estimated land-based sediment load removed by CRW’s combined sewer system in the Joint Planning Area is 4,546 lb/yr.

Instream Sediment Load Reductions Due to CSS Operations

This credit represents the reduction in sediment mobilization due to streambank erosion. As described in the approved Joint Pollutant Reduction Plan, the reduction in streambank erosion load is assumed to be directly proportional to the reduction in CSO volume discharged to the receiving water in the current (August 1, 2023) conditions compared to the Existing Condition. The equation described in the Joint Pollutant Reduction Plan has been corrected to produce the correct units and numerical results.

Joint PRP In-Stream Sediment Load Attributed to CRW CSS	
	$SBS_{CSS} = SBS_{CRW-TOT} - CSS_{VOL} * SBS_{Rate}$
where:	
SBS_{CSS}	= Reduction In-Stream Sediment Load from CSS operation (lb)
$SBS_{CRW-TOT}$	= Total In-Stream Sediment Load attributed to CRW/Harrisburg (lb)
CSS_{VOL}	= Estimated Volume Captured by Existing CRW CSS Operation (gal)
SBS_{Rate}	= In-stream erosion rate (lb / gal), from 2015 Paxton Creek TMDL Strategy

Joint Pollutant Reduction Plan: Paxton Creek Watershed TMDL, Chesapeake Bay PRP, Wildwood Lake PRP, and UNT Spring Creek PRP, Revised December 27, 2019; Exhibit 2

As of August 1, 2023, the estimated instream sediment load removed by CRW’s combined sewer system in the Joint Planning Area is 40,086 lb/yr.

GSI Projects Outside the Combined Sewer Service Area

Currently, one GSI project (Cloverly Heights) is located within CRW’s MS4 area. Calculation of the sediment load in runoff entering this facility is closely based on the methodology originally implemented in Mapsheds and described in the Joint Pollutant Reduction Plan. The sediment load reduction achieved in the facility is calculated using PADEP’s recommended sediment removal

percentage (55% removal for bioretention with C/D soils). During the Typical Year, approximately 2.85 million gallons of runoff is captured and managed by the Cloverly Heights project, yielding a 91 lb/yr reduction at the MS4 outfall.

Ongoing/Upcoming JPRP Projects

The Paxton Creek Cooperative (PCC) has completed four projects and is in progress with the fifth project within the current permit term reaching towards the group's collective pounds of sediment removal. These projects were previously highlighted in the 2021-2022 Annual Status Report. The fifth project, bid and awarded in June 2022, is now outlined in more detail below.

To briefly recap on the previous projects completed over the past year where RES proposed to use a combination of stream restoration and floodplain restoration to meet sediment removal quantities. The selected locations had unstable and incised channels due to stormwater impacts and historic land uses. The proposed floodplain restorations were designed to be self-sustaining, highly functioning, floodplain systems that will reduce pollutant loadings by stabilizing eroded streambanks, reconnecting of channel restoration, floodplain grading, subsurface grade control structures, and habitat structural improvements to restore channel pattern and the floodplain. Overall, the stream complex is designed to have low bank heights and low-very low streambank erosion rates. Of the three projects completed by RES, Veterans Park – North & South received roughly 2,477 LF, Shutt Mill Park received approximately 913 LF, and Pine Apartments Complex received roughly 1,459 LF of restorations. Currently, these projects are being monitored, by RES, for additional pounds of sediment removed which will be confirmed to the PCC after one year of monitoring.

Stonebridge Apartments was also completed within the current permit term, which restored 1800 feet of Asylum Run. This stretch was previously identified as a top 5 contributor of pollutants to Paxton Creek. The project resolved the excessive erosion occurring by reconstructing the streambed and restoring the surrounding floodplain area.

PCC and PennDOT bid, with Swatara Township, on another round of projects. The second contract was awarded to RES. The Swatara Township project is not included towards the PCC's sediment removal amount. RES has submitted the Conceptual PRP for approval outlining the PPC project, the McIntosh BMP on Paxton Creek. The BMP is located within the Wildwood Lake sub-watershed of the Paxton Creek Watershed. Land cover within the proposed BMP limits includes lawn, degraded wetland, and shrubland. The public parcel was donated to the Township and a portion is being used as a public park. The watercourses proposed for restoration as part of this BMP include Paxton Creek and one (1) UNT to Paxton Creek. The 2,310 LF of channels within the BMP originate from underneath bridges along McIntosh Road outside of the BMP limits. The channels being proposed for restoration have high vertical banks up to 5 feet, limited bank protection, and they exhibit high levels of degradation due to stormwater runoff from the substantial urbanized drainage area. The side tributary draining from outside of the BMP limits also exhibits impairment and contributes sediment to the watershed. RES proposes to utilize floodplain restoration for the majority of the reaches to maximize sediment reduction potential. Table 8 below provides the estimated total sediment reduction.

Conclusion

For the current reporting period ending on August 1, 2023, the Municipal Entities are taking credit for projects currently in the operation phase. Table 8 summarizes the status of all projects in the design, construction, and operation phases. When completed and in operation, these projects are projected to achieve load reduction goals prior to the end of the current permit term.

Table 8. Completed and In Progress JPRP Projects

Joint Planning Area Projects	JPRP BMP Name	JPRP Projection [lb/yr]	Updated Projection (Work in Progress) [lb/yr]	Percent of Overall Reduction [% of Goal]
Veterans Park - North & South ⁽²⁾	BMP-04 and -05	247,250	544,003	32%
Pine Apartment Complex ⁽²⁾	BMP-11	166,750	138,345	8%
Shutt Mill Rd/Walker Mill Rd ⁽²⁾	BMP-06	501,171	130,437	7%
Stonebridge Apartment ⁽²⁾	BMP-02	166,750	166,750	10%
CRW Street Sweeping ⁽²⁾	BMP-15	29,864	29,864	2%
Cloverly Heights GSI ⁽²⁾	N/A	N/A	91	0.01%
2022 PennDOT Contract (RES) ⁽¹⁾	N/A	N/A	692,677	41%
CRW CSS Rehab & Optimization ⁽²⁾	BMP-16	355,000	44,641	2.6%
Total Reduction			1,746,808	103%
Planning Area Goal (JPRP, Section F)			1,694,398	-
Remaining Reduction			(52,410)	0%

(1) Design or construction in progress (subject to PADEP approval)

(2) Complete and in operation

ATTACHMENT #9
SWM O&M Agreement

Tax Parcel I.D. No. XX-XX-XXX
[insert Tax Parcel I.D. No.]
Tax Parcel I.D. No. XX-XX-XXX
Tax Parcel I.D. No. XX-XX-XXX
Tax Parcel I.D. No. XX-XX-XXX
Tax Parcel I.D. No. XX-XX-XXX
Tax Parcel I.D. No. XX-XX-XXX
CITY OF HARRISBURG

**OPERATIONS AND MAINTENANCE AGREEMENT
FOR
STORMWATER FACILITIES AND BEST MANAGEMENT PRACTICES
BETWEEN**

[INSERT LANDOWNER NAME IN CAPS] AND CAPITAL REGION WATER

This **OPERATIONS AND MAINTENANCE AGREEMENT FOR STORMWATER FACILITIES AND BEST MANAGEMENT PRACTICES** ("Agreement") is made and entered into this [] day of [], 2021, by and between [insert name of Landowner] (hereinafter the "Landowner"), and Capital Region Water, Dauphin County, Pennsylvania.

WITNESSETH

WHEREAS, the Landowner is the owner of certain real property located in Harrisburg, Dauphin County, Pennsylvania (hereinafter "Property"), identified as Tax Parcel No(s). XX-XX-XXX, [insert all applicable Tax Parcel No(s). XX-XX-XXX]; and

WHEREAS, the Landowner is proceeding to build and develop the Property; and

WHEREAS, the Stormwater Management Site Plan (hereinafter "Plan") for the property identified herein, prepared by [insert name of Landowner] and dated [insert date of Plan], 202X which is incorporated herein as Exhibit "A", as approved by Capital Region Water, provides for management of stormwater within the confines of the Property through the use of Best Management Practices (BMP's); and

WHEREAS, Capital Region Water, the Landowner, their successors and assigns, agree that the health, safety and welfare of the residents of Capital Region Water and the protection and maintenance of water quality require that on-site stormwater Best Management Practices be constructed and maintained on the Property; and

WHEREAS, Capital Region Water requires, through the implementation of the Plan, that stormwater management BMPs, as required by said Plan, and the City of Harrisburg Stormwater Management Ordinance, be constructed and adequately maintained by the Landowner, their successors and assigns.

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

1. The foregoing recitals of this Agreement are incorporated into the body of this Agreement as if set forth at length herein.
2. The onsite BMP facilities shall be constructed by the Landowner in accordance with the plans and specifications identified in the Plan.
3. The Landowner shall operate and maintain the BMP(s) as shown on the Plan in good working order acceptable to Capital Region Water and in accordance with the specific maintenance requirements noted on the Plan.
4. The Landowner hereby grants permission to Capital Region Water, its authorized agents and employees, to enter upon the property, at reasonable times and upon presentation of proper identification, to inspect the BMP(s) whenever it deems necessary; provided, however, that unless there is reasonable cause to believe that the stormwater management facilities are not operating properly, such inspections shall not occur more frequently than annually. Whenever possible, Capital Region Water shall notify the Landowner prior to entering the Property. When inspections are conducted, Capital Region Water shall give the Landowner, or their respective successors and assigns, copies of the inspection report with findings and evaluations, if such a report is prepared.
5. In the event the Landowner fails to operate and maintain the BMP(s) as shown on the Plan in good working order acceptable to Capital Region Water, Capital Region Water shall give written notice to the Landowner setting forth the specifics of such failure to operate or maintain, the remediation required, and a reasonable deadline to complete such action. After failure of the Landowner to remedy within the specified time limit, Capital Region Water or its representatives may, upon presentation of proper identification, enter upon the Property and take whatever action is deemed necessary to maintain said BMP(s). This provision shall not be construed to allow Capital Region Water to erect any permanent structure on the land of the Landowner. It is expressly understood and agreed that Capital Region Water is under no obligation to maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on Capital Region Water.

6. In the event Capital Region Water, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work or labor, use of equipment, supplies, materials and the like, the Landowner shall reimburse Capital Region Water, within forty-five (45) days of receipt of an invoice thereof, for all reasonable costs incurred by Capital Region Water hereunder.
7. The intent and purpose of this Agreement is to ensure the proper maintenance of the onsite BMP(s) by the Landowner; provided, however, that this Agreement shall not be deemed to create or effect any additional liability of any party for damage alleged to result from or be caused by stormwater runoff.
8. Capital Region Water may inspect the BMP(s) at a minimum of once every year to ensure their continued functioning.
9. This Agreement, when executed, approved and delivered, shall constitute the entire agreement between the parties, and there are no other representations or agreements, oral or written, except as expressly set forth in this Agreement. This Agreement may be amended or modified only by an instrument in writing executed by the parties.
10. This Agreement shall be recorded at the Office of Recorder of Deeds, Dauphin County, Pennsylvania, and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, his administrators, executors, assigns, heirs, and any other successors in interests, in perpetuity.

IN WITNESS WHEREOF, the parties hereto, each intending to be legally bound, have caused this Agreement to be executed as of the date first above written.

ATTEST:

CAPITAL REGION WATER

Secretary

By: _____
Chairperson

[INSERT LANDOWNER NAME IN CAPS]

By: _____
(Name)

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF DAUPHIN :

On this ____ day of _____, 20__, before me, a Notary Public, the undersigned officer personally appeared, _____, known to me (or satisfactorily proven) to be the Chairperson of Capital Region Water, described in the foregoing Operations and Maintenance Agreement for Stormwater Facilities and Best Management Practices, who acknowledged that he/she executed the same in the capacity therein stated, and for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF DAUPHIN :

On this ____ day of _____, 20__, before me, a Notary Public, the undersigned officer personally appeared, _____, known to me (or satisfactorily proven) to be the _____ of _____, described in the foregoing Operations and Maintenance Agreement for Stormwater Facilities and Best Management Practices, who acknowledged that he/she executed the same in the capacity therein stated, and for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

ATTACHMENT #10

Training Attendance Sheets

NMC 9MSU Training

Sign In

6-30-2023

Mike Gonzalez

Mister Pitts

Kevin Martin

Michael W Fox

Ken Freyberg

Scott Roberts

Mike Paul

Eugenio Kelly

Michael P. Smith



All-Employee Meeting Sign-In Sheet

Date: June 28, 2023

#	First Name	Last Name	Signature
1	Terri	Ambush	<i>Terri Ambush</i>
2	Sirena	Anderson	<i>Sirena Anderson</i>
3	Brandon	Anderson	
4	Joseph	Baker	<i>Joseph Baker</i>
5	Maurice	Baskins	<i>Maurice Baskins</i>
6	Rodney	Bebenek	<i>Rodney Bebenek</i>
7	Sheri	Berilla	<i>Sheri Berilla</i>
8	Damian	Bernstein	<i>Damian Bernstein</i>
9	David	Beshara	
10	Michelle	Bethel-Miller	<i>Michelle Bethel-Miller</i>
11	Chad	Bingaman	<i>Chad Bingaman</i>
12	Gina	Bond	
13	Robin	Boone	<i>Robin Boone</i>
14	Amy	Borden	<i>In Attendance Virtually</i>
15	Jack	Borden	
16	Jeffrey	Bowra	<i>Did Not Attend - PTO</i>
17	Darla	Boyer	<i>Darla Boyer</i>
18	Jarrett	Brown	
19	Jarvis	Brown	
20	Eugene	Brown	<i>Eugene Brown</i>
21	Nanette	Burnett	<i>Nanette Burnett</i>
22	Oran	Burns	
23	Benjamin	Burns	
24	Jasper	Campana	<i>Jasper Campana</i>
25	Jeffrey	Cesar	
26	Aviane	Chase	
27	John	Cheeseboro	
28	Matthew	Chisnell	
29	Damon	Clowe	<i>Damon Clowe</i>
30	Richard	Crosson	
31	Tom	Czyzykowski	<i>Tom Czyzykowski</i>
32	Kelli	Dabler	
33	Barry	Daniels	<i>Barry Daniels</i>
34	Warren	Detres-Toro	<i>Warren Detres-Toro</i>
35	Tanya	Dierolf	<i>Tanya Dierolf</i>

LAST NAME

A - K



All-Employee Meeting Sign-In Sheet

Date: June 28, 2023

#	First Name	Last Name	Signature
36	Lillian	Dolan	
37	Paul	Eads	PAUL EADS
38	Neil	Ebert	Neil Ebert
39	Michael	Elicker	Michael Elicker
40	Keith	Ferguson	
41	Michael	Fox	Michael Fox
42	Jodi	Freeburn	Jodi Freeburn
43	Kenneth	Freysinger	Kenneth Freysinger
44	Jorge	Garcia-Navarro	Jorge Garcia-Navarro
45	Maynard	Gardner	Maynard Gardner
46	Na'Reece	Glenn	
47	Nelson	Gomez	Nelson Gomez
48	Michael	Gonzalez	Michael Gonzalez
49	Miriam	Gonzalez-Siegel	Miriam Gonzalez-Siegel
50	JoAnn	Gray	JoAnn Gray
51	Ronald	Grove	Ronald Grove
52	Alejandro	Grullon Figuereo	Alejandro Grullon Figuereo
53	Mark	Haar	Mark Haar
54	Brandon	Harris	Brandon Harris
55	Tiffany	Harris	Tiffany Harris
56	Brian	Hart	Brian Hart
57	Robert	Heineman	Robert Heineman
58	Victor	Hess	Victor Hess
59	Jordan	Hileman	Jordan Hileman
60	Raymond	Hoke	Raymond Hoke
61	Cody	Howe	Cody Howe
62	Nacole	Johnson	Nacole Johnson
63	Michael	Joseph	Michael Joseph
64	Charlotte	Katzenmoyer	Charlotte Katzenmoyer
65	Douglas	Keith	Douglas Keith
66	Buck	Kelley	Buck Kelley
67	Douglass	Kelly	Participated Virtually
68	James	Klahr	James Klahr
69	Lee	Kneasel	Lee Kneasel
70	Nancy	Kuhn	

LAST NAME

A - K



All-Employee Meeting Sign-In Sheet

Date: June 28, 2023

#	First Name	Last Name	Signature
71	Rebecca	Laufer	<i>Rebecca Laufer</i>
72	Michael	Leeper	
73	Daniel	Lehman	Unable to attend (per Chins Welsh)
74	Angela	Leyva	<i>Angela Leyva</i>
75	Robert	Lipscomb	<i>Robert Lipscomb</i>
76	Kendrick	Maholtz	<i>Kendrick Maholtz</i>
77	Maribet	Maldonado	<i>Maribet Maldonado</i>
78	Regina Gail	Malloy	<i>Regina Gail Malloy</i>
79	Kevin	Martin	<i>Kevin Martin</i>
80	Claire	Maulhardt	<i>Claire Maulhardt</i>
81	Karen	McKillip	<i>Karen McKillip</i>
82	Alan	McPherson	<i>Alan McPherson</i>
83	Jamie	Meily	<i>Jamie Meily</i>
84	Jason	Miller	<i>Jason Miller</i>
85	Janice	Miller-Zerbe	<i>Janice Miller-Zerbe</i>
86	Salvatore	Montalto	<i>Salvatore Montalto</i>
87	Joseph	Moore	<i>Joseph Moore</i>
88	Douglas	Morrison	Participated Virtually
89	Ronald	Morrow	
90	Jennifer	O'Neill	<i>Jennifer O'Neill</i>
91	Matthew	Orndorf	<i>Matthew C. Orndorf</i>
92	Kenneth	Ortiz	
93	Julie	Peters	<i>Julie Peters</i>
94	Mister	Pitts	<i>Mister Pitts</i>
95	Tom	Polly	
96	Randy	Ritter	<i>Randy Ritter</i>
97	Dustin	Rogers	<i>Dustin Rogers</i>
98	Brenda	Rohrer	<i>Brenda Rohrer</i>
99	CJ	Rosa	<i>CJ Rosa</i>
100	Jess	Rosentel	<i>Jess Rosentel</i>
101	Scott	Rotolo	<i>Scott Rotolo</i>
102	Brian	Russell	Unable to attend (per Chris Welsh)
103	Shane	Russell ✓	In attendance virtually
104	Randolph	Saunders	<i>Randolph Saunders</i>
105	Riccardo	Saunders	<i>Riccardo Saunders</i>

LAST NAME

L - Z



All-Employee Meeting Sign-In Sheet

Date: June 28, 2023

#	First Name	Last Name	Signature
106	Sean	Sauro	<i>Sean Sauro</i>
107	Scott	Schaeffer	<i>Scott Schaeffer</i>
108	Tammie	Sheaffer	<i>Tammie Sheaffer</i>
109	Charles	Shireman	<i>Charles Shireman</i>
110	Jared	Shireman	<i>Jared Shireman</i>
111	Wendy	Shollenberger	<i>Wendy Shollenberger</i>
112	Deborah	Sibbering	<i>Deborah Sibbering</i>
113	Charles	Snyder	<i>Charles Snyder</i>
114	David	Stewart	<i>David Stewart</i>
115	Micaela	Swart	<i>Micaela Swart</i>
116	Donald	Sweger	<i>Donald Sweger</i>
117	Joshua	Sweger	<i>Joshua Sweger</i>
118	Jermaine	Taylor	<i>Jermaine Taylor</i>
119	Cathie	Thomas	<i>Cathie Thomas</i>
120	Melvin	Thompson	<i>Melvin Thompson</i>
121	Trevor	Thompson	<i>In Attendance Virtually</i>
122	David	Toth	<i>David Toth</i>
123	Cody	Trostle-Weber	<i>Cody Trostle-Weber</i>
124	Edward	Tull	<i>Edward Tull</i>
125	Hipolito	Vega	<i>Hipolito Vega</i>
126	Eugenio	Velez-Rojas	<i>Eugenio Velez-Rojas</i>
127	Alesha	Vonada	<i>Alesha Vonada</i>
128	Kristina	Wagner	<i>Kristina Wagner</i>
129	Jeffery	Wahosky	<i>Jeffery Wahosky</i>
130	Lewis	Weaver	<i>Lewis Weaver</i>
131	Christopher	Welsh	<i>Christopher Welsh</i>
132	Mark	Wilfong	<i>Mark Wilfong</i>
133	Densin	Wilson	<i>Participated Virtually</i>
134	Reese	Witmer	<i>Reese Witmer</i>
135	Eugene	Wrightstone	<i>Eugene Wrightstone</i>
136	Thomas	York	<i>Thomas York</i>
137	Keith	Zimmerman	<i>Keith Zimmerman</i>

LAST NAME

L - Z

ATTACHMENT #11

Appendix B & C - Pathogen & PBC Sources

Capital Region Water

MS4 Permit Appendix B and C – Pathogen & PCB Source Investigation

1.1 Regulatory Context

Capital Region Water (CRW) is under regulation for all discharges to any waterway per the PADEP under a National Pollutant Discharge Elimination System (NPDES) Individual Permit. Capital Region Water has been provided NPDES Permit PAI133524 and the permit became effective on August 1, 2020, and will expire on July 31, 2025. The details of Appendix B and C are outlined below.

Appendix B – Pollutant control measures must be implemented upon permit coverage to control pathogens in stormwater discharges to impaired waters (with or without a TMDL).

A. Map and Inventory.

1. The permittee shall develop map(s) of the storm sewershed(s) associated with all outfalls that discharge to surface waters subject to Appendix B. The purpose is to identify the area the permittee is responsible for within its legal boundaries in developing a source inventory. The map(s) shall be submitted to DEP with an Annual MS4 Status Report that is due no later than September 30, 2022.

2. The permittee shall develop an inventory of all suspected and known sources of bacteria in stormwater within the storm sewershed, at a minimum, that discharge to impaired waters. The inventory must identify whether the source is suspected or known, the basis for this determination, the responsible party (if known), and any corrective action the permittee has taken or plans to take for any of these sources. The inventory shall be submitted to DEP with an Annual MS4 Status Report is due no later than September 30, 2023.

B. The permittee shall complete an investigation of each suspected source. This investigation must include stormwater sampling if the investigation is required as part of implementing the IDD&E program under MCM #3 of the permit, and otherwise is voluntary. The results of the investigation shall be submitted to DEP with an Annual MS4 Status Report that is due no later than September 30, 2025.

C. The permittee shall enforce ordinances that prohibit illicit and illegal connections and discharges of sewage to the MS4. Anytime an illicit and illegal connection or discharge of sewage into the MS4 is discovered by the permittee, the permittee shall report the finding in the subsequent Annual MS4 Status Report along with a description of corrective action by the permittee.

D. If not already established in its Stormwater Management Ordinance (municipal permittees) or SOP (non-municipal permittees), the permittee shall enact an ordinance or develop and adopt an SOP that requires proper management of animal wastes on property owned by the permittee. If an ordinance or SOP already exists that controls animal wastes, it must be attached to the first Annual MS4 Status Report due no later than September 30, 2021. If a new ordinance or SOP is enacted or adopted, the new ordinance or SOP must be attached to the first Annual MS4 Status Report due no later than September 30, 2024.

E. The permittee shall document the progress of its investigations, source control efforts and BMPs to control sources of pathogens in its Annual MS4 Status Reports.

Appendix C – Pollutant control measures must be implemented upon permit coverage to control priority organic compounds (e.g., PCBs, Chlordane, etc.) in stormwater discharges to impaired waters (with or without a TMDL).

A. Map and Inventory.

1. The permittee shall develop map(s) of the storm sewershed(s) associated with all outfalls that discharge to surface waters subject to Appendix C. The purpose is to identify the area the permittee is responsible for within its legal boundaries in developing a source inventory. The map(s) shall be submitted to DEP with an Annual MS4 Status Report that is due no later than September 30, 2022.

2. The permittee shall develop an inventory of all suspected and known anthropogenic (caused or produced by humans) sources of Priority Organic Compounds in stormwater within the drainage area of outfalls discharging to impaired waters. The inventory must identify whether the source is suspected or known, the basis for this determination, the responsible party (if known), and any corrective action the permittee has taken or plans to take for any of these sources. The inventory shall be submitted to DEP with an Annual MS4 Status Report that is due no later than September 30, 2023.

B. The permittee shall complete an investigation of each suspected source. This investigation must include stormwater sampling if the investigation is required as part of implementing the IDD&E program under MCM #3 of the Permit, and otherwise is voluntary. The results of the investigation shall be submitted to DEP with an Annual MS4 Status Report that is due no later than September 30, 2025.

C. Where it is determined that sources of Priority Organic Compounds are being discharged in stormwater from industrial sites into the permittee's MS4, the permittee shall notify DEP in writing within 90 days of the permittee's findings. DEP may require the owner or operator of the industrial site to submit an application for NPDES permit coverage and/or implement BMPs to reduce pollutant loadings. This written notification is required only once per industrial site.

D. The permittee shall document the progress of its investigations, source control efforts and BMPs to control sources of Priority Organic Compounds in its Annual MS4 Status Reports.

PCBs are the priority organic compound that is an impairment for the Susquehanna River, which is a receiving water for CRW's MS4 outfalls. To fulfill the Appendix B and C requirements, CRW developed an inventory of suspected sources of pathogens and PCBs.

1.2 Inventory and Approach

CRW completed an assessment of the risk of pollutant discharges associated with a range of activities of concern under CRW's Nine Minimum Control (NMC) plan, specifically for NMC No. 3. The purpose of this risk assessment is to establish priorities for its pollution prevention programs, including those targeted at non-domestic dischargers. The NMC Plan assesses stormwater pollution risk in both CRW's MS4 system and combined sewer system. CRW takes an active approach in both systems to prevent and investigate pollution and illicit discharges, and the same approach in the NMC Plan is used to identify potential pathogens and PCB sources.

As described in the NMC Plan, CRW evaluated land use and activity types for a variety of constituents of concern. By assessing the likelihood (in Table 1.1) and consequence (in Table 1.2) of these properties/activities releasing constituents of concern, CRW developed risk scores, as shown in Figure 1-1 and the Stormwater Pollution Risk Map (Figure 3-3 from NMC Plan).

Table 1-1 Likelihood of Occurrence Rating

Land Use / Activity Type	Type of Discharge	Total Private Property Area Where Activity Occurs (ac)	Likelihood Criteria				Likelihood Rating (Weighting x Score)	Normalized Likelihood Rating (Scale of 0 to 5)
			% of Total Parcel Area (3,912.67 ac)	Outdoor Material Handling or Exposure ¹	Activity Frequency ²	Discharge Frequency Without Treatment / Control ³		
CRITERIA WEIGHTING			2	3	1	3		
Yard / Landscape Management	Runoff, spill	2,307	59%	3	3	3	22.2	4.8
Building Maintenance / Renovation	Illicit discharge, spill	1,903	49%	2	2	1	12.0	2.6
Lateral Maintenance / Repair	Illicit discharge	1,834	47%	3	1	1	13.9	3.0
Street / Pavement Management	Runoff	1,064	27%	3	2	3	20.5	4.5
Development / Construction	Runoff, spill	383	10%	3	3	2	18.2	4.0
Solid Waste Handling / Storage	Illicit discharge, spill	832	21%	2	3	1	12.4	2.7
Material Handling / Storage	Illicit discharge, spill	902	23%	2	3	1	12.5	2.7
Hazardous Material Handling / Storage	Spill	928	24%	2	3	1	12.5	2.7
Spill Prevention / Response / Cleanup	Spill	902	23%	3	1	1	13.5	2.9
Liquid Waste Handling / Storage	Illicit discharge, spill	508	13%	1	3	1	9.3	2.0
Food Service	Illicit discharge, spill	113	3%	1	3	1	9.1	2.0
Vehicle / Equipment Service	Illicit discharge, spill	54	1%	1	3	1	9.0	2.0

¹ Usually = 3, Sometimes = 2, Rarely = 1

² Continuous over at least 6 months = 3, Periodic or at least once /month = 2, Random / Occasional = 1

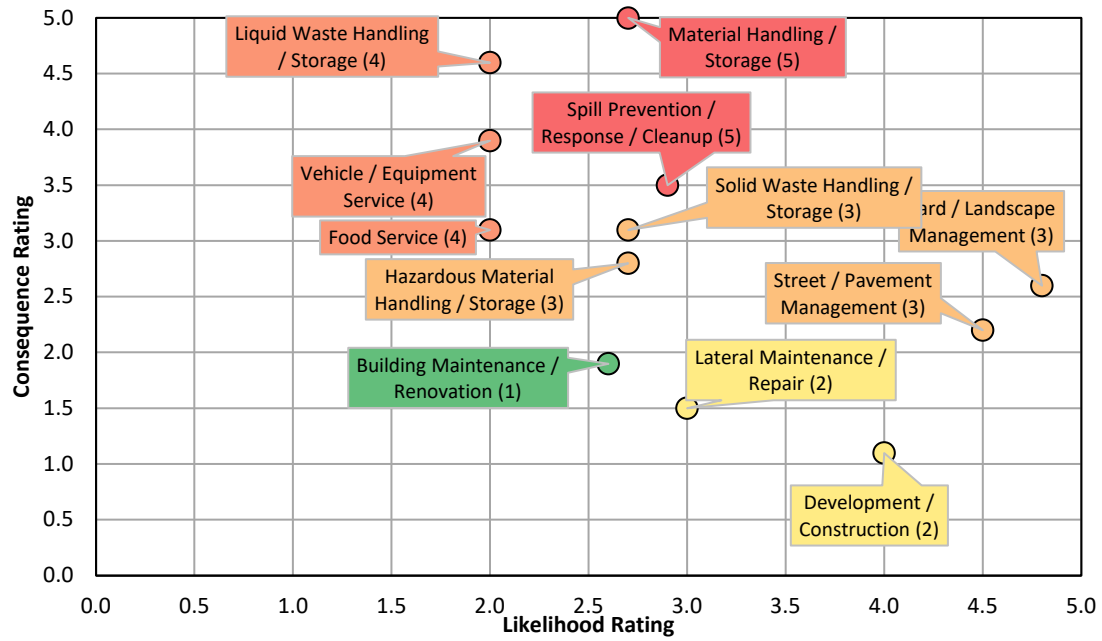
³ Continuous or during most precipitation events = 3, Periodic or at least once/month = 2, Random / Occasional = 1

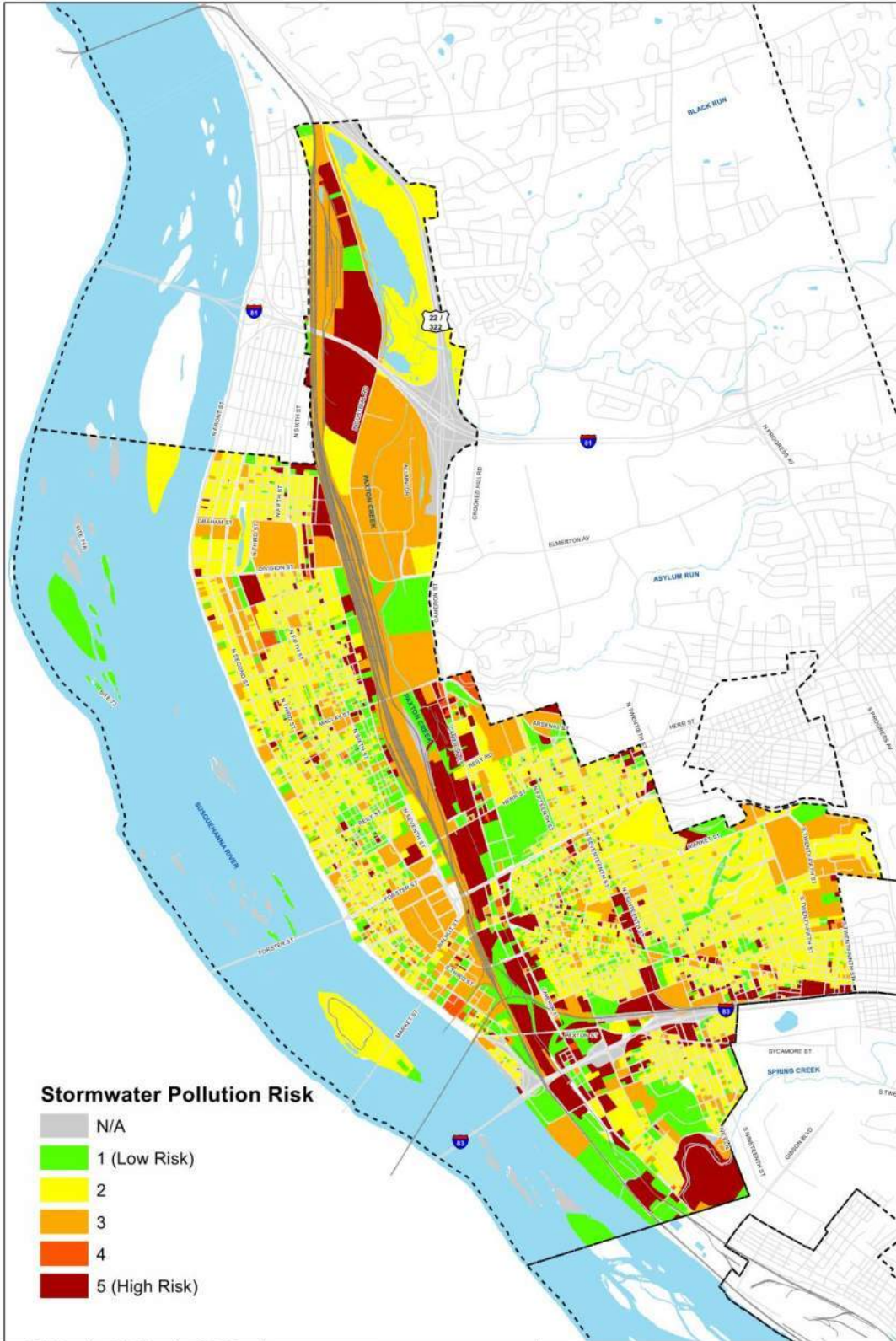
Table 1-2 Consequence Rating

Land Use / Activity Type	Constituents of Concern: Relative Quantity Handled or Discharged ¹												Consequence Rating (Weighting x Score)	Normalized Consequence Rating (Scale of 0 to 5)
	Sediment	Deicers	Solid Waste	Leachate	Food Waste	Oil & Grease	Vegetation Waste	Fertilizer	Herbicide/Pesticide	Process Waste	Sewage	Hazardous Materials		
CRITERIA WEIGHTING	1	1	1	2	1	2	1	1	2	3	3	5		
Yard / Landscape Management	M	M	I	N	N	I	H	H	M	N	N	N	14.0	2.6
Building Maintenance / Renovation	M	N	M	I	N	I	N	N	N	N	M	I	10.0	1.9
Lateral Maintenance / Repair	I	N	N	N	N	L	N	N	N	N	M	N	8.0	1.5
Street / Pavement Management	M	H	M	I	N	M	L	N	N	N	N	N	12.0	2.2
Development / Construction	H	N	L	I	N	I	M	N	N	N	N	N	6.0	1.1
Solid Waste Handling / Storage	I	N	H	M	L	L	M	N	N	N	N	L	17.0	3.1
Material Handling / Storage	M	M	M	M	N	M	N	L	L	N	N	M	27.0	5.0
Hazardous Material Handling / Storage	I	N	I	I	N	I	N	N	I	N	N	H	15.0	2.8
Spill Prevention / Response / Cleanup	N	N	N	N	N	N	N	N	N	L	M	M	19.0	3.5
Liquid Waste Handling / Storage	I	N	N	N	N	I	N	N	N	M	H	M	25.0	4.6
Food Service	N	N	M	N	H	H	N	N	N	N	M	N	17.0	3.1
Vehicle / Equipment Service	M	N	I	N	N	H	N	N	N	L	N	M	21.0	3.9

¹ Definitions and Scores: High (3) = H, Medium (2) = M, Low (1) = L, Insignificant (0) = I, Not Applicable (0) = N

Figure 1-1 Risk Score Results





8/7/2015 PM: JAA GIS: JWE

CAPITAL REGION WATER

0 1,250 2,500 5,000 Feet

Mapping derived from data provided by Dauphin County, Capital Region Water, and the City of Harrisburg.

Figure 3-3 Stormwater Pollution Risk
Capital Region Water
Harrisburg, Pennsylvania

The Stormwater Pollution Risk Map shows that many of the highest risk land uses are clustered along Paxton Creek and the railroad corridors and include gas stations, garages, car dealers, truck terminals, warehouses, and industries. These high priority areas and land uses pose a potentially significant risk to both CSO discharges and Municipal Separate Storm Sewer System (MS4) discharges and are candidates for inclusion in CRW pollution prevention activities.

CRW developed a FOG Program Implementation Plan for a three-year phased approach. Key documents were developed to support the program including a FOG Best Management Practices Manual, a FOG Discharge Permit, a FOG Discharge Permit Application, and a Cleaning Log Sheet. A registry was created to identify all potential FOG dischargers within the City. This registry is part of CRW's GIS and asset management software and is used to track inspections of grease control equipment. Over 200 FOG contributors including, but not limited to, restaurants, car washes, automotive businesses, and schools have been identified and logged in the system. Update of this registry takes place weekly as more contributors are identified. Letters were issued to all identified potential FOG discharges to inform them of the new regulations, FOG Program, and permit requirements.

In addition to evaluating the stormwater pollution potential based on land uses and activities, CRW also evaluated the MS4 service area for the following potential pathogen sources:

- Urban Wildlife
- Domestic Pets, Dog Parks
- Trash, Dumping
- Non-Plant Organic Waste
- Homeless Encampments
- Leaking/Failed Septic Systems
- Sanitary Sewer Overflows
- Illicit Discharges

CRW compiled data from the last three years on sanitary sewer overflows, illicit discharges, and investigations within the MS4 area, as presented in the following Table 1-3. These potential pathogen sources were mapped on the MS4 Pathogen Source Investigation figure in Attachment #1 with the stormwater pollution risk rankings.

Table 1-3 Potential Pathogen Source Inventory

Description	Date	Address	Comments
Investigation Request	9/29/2020	I-81 N, Harrisburg, Pennsylvania, 17112	Biosolids spill from dump truck
Backup in Residence/Building	10/1/2020	1001 S 17th St, Harrisburg, Pennsylvania, 17104	SSO
Backup in Residence/Building	12/3/2020	1519 S 12th St, Harrisburg, Pennsylvania, 17104	SSO, tree roots in main
Illicit Discharge	3/31/2021	1660 S Cameron St, Harrisburg, Pennsylvania, 17104	Sewage running to storm inlet
Backup in Residence/Building	4/6/2021	1147 Rolleston St, Harrisburg, Pennsylvania, 17104	SSO, surcharged manholes
Investigation Request	6/21/2021	4000 Industrial Rd, Harrisburg, Pennsylvania, 17110	SSO
Backup in Residence/Building	11/1/2021	2490 Rudy Rd, Harrisburg, Pennsylvania, 17104	SSO, surcharged manholes, grease/rag blockage, line heavily cleaned
Illicit Discharge	11/18/2021	N 3rd St & Radnor St, Harrisburg, Pennsylvania, 17110	Illicit discharge
Backup in Residence/Building	1/25/2022	385 Rumson Dr, Harrisburg, Pennsylvania, 17104	SSO, surcharged MH, cleaned lines
Investigation Request	3/4/2022	1541 S 13th St, Harrisburg, Pennsylvania, 17104	SSO, lateral blockage, excavated and repaired
Illicit Discharge	5/19/2023	506 S 29th St, Harrisburg, Pennsylvania, 17104	Illicit discharge into inlet

In addition to evaluating the stormwater pollution potential based on land uses and activities, CRW also evaluated the MS4 service area for potential PCB sources, as outlined in the USEPA PCB TMDL Handbook, including:

- Transformers
- Industrial facilities
- Incinerators
- Storage and disposal facilities
- Environmental sinks, National Priority List
- Toxic Release Inventory

One potential PCB source is the LCSWMA Susquehanna Resource Management Complex, which located within the CRW service area, but the facility has an NPDES permit for stormwater discharges(s); the facility is excluded from the CRW MS4 area.

1.3 Evaluation

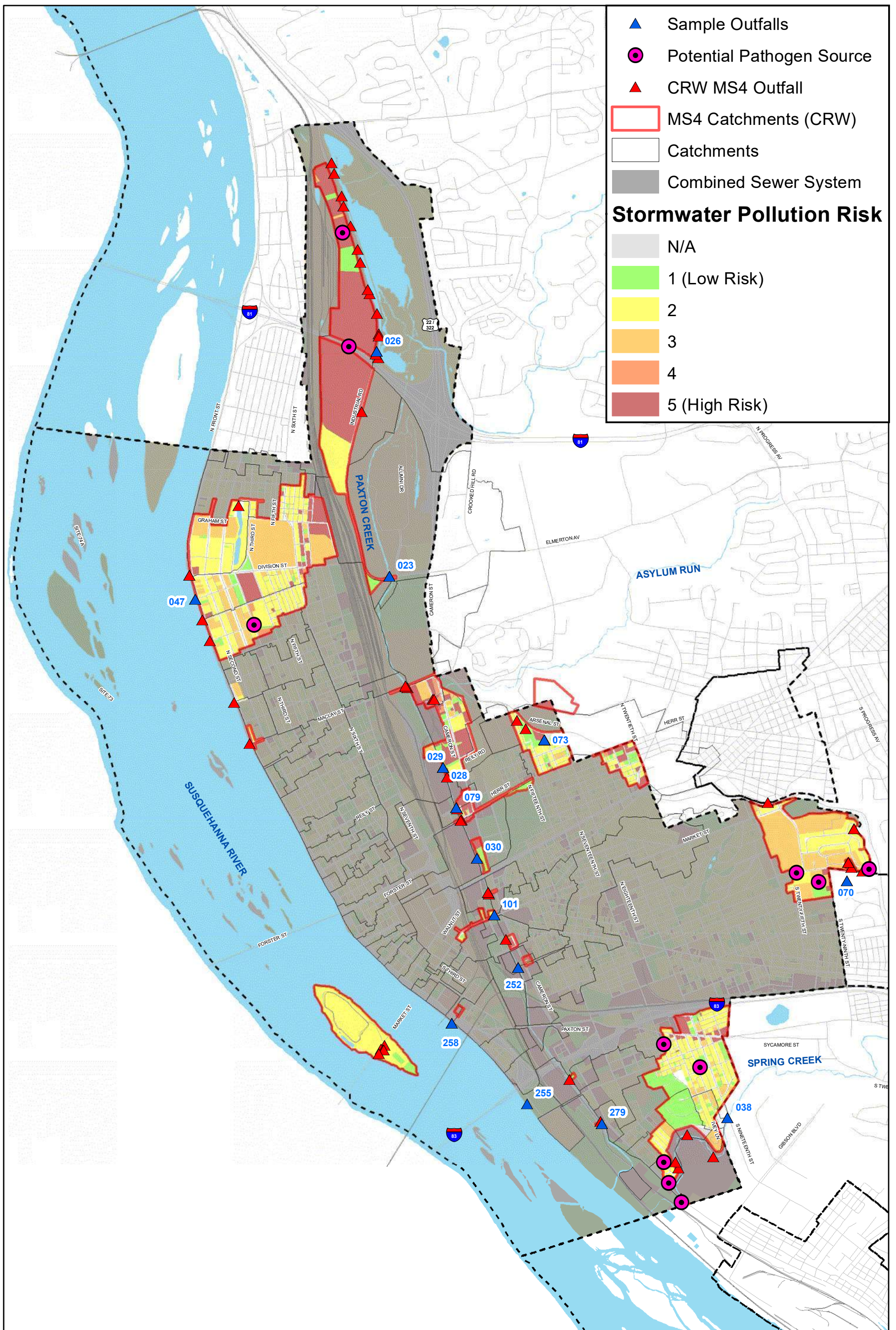
To investigate the potential pathogens and PCBs in CRW's MS4 area samples will be collected at selected outfalls CRW has identified outfalls to sample during outfall inspections to investigate further for potential pathogens or PCBs. The outfalls were selected due to their proximity to high-risk stormwater pollution areas and/or potential pathogen/PCB sources, the results of stormwater outfall inspections, or other details as summarized in Table 1-4 below.

Table 1-4 MS4 Outfalls to Sample

Outfall ID	Reason for Sampling	Outfall Submerged?	Observation Point	Dry weather flow present?	Description of Flow Rate
SWOUT-000023	Industrial area, dry weather flow	No		Yes	Moderate flow
SWOUT-000026	Industrial area, proximity to Wildwood Lake - waterfowl	Yes	SWINLT-003540	No	
SWOUT-000028	Proximity to Consolidated Scrap Resources	Yes	SWINLT-001835	No	
SWOUT-000029	Proximity to Consolidated Scrap Resources	Yes	SWMH-000315	No	
SWOUT-000030	Industrial area	No		No	
SWOUT-000038	Multiple potential pathogen sources, proximity to incinerator	No		No	
SWOUT-000047	High risk area, proximity to Italian lake	No	SWMH-006106	No	
SWOUT-000070	Multiple potential pathogen sources, including illicit discharge	Yes	SWMH-000415	No	
SWOUT-000073	Drainage from public housing, high pollution risk area, dry weather flow	No		Yes	Significant flow
SWOUT-000079	Near Harrisburg Dairies, illicit discharge	No		No	
SWOUT-000101	Near bus station and train overpass, dry weather fowl	No		Yes	Moderate flow
SWOUT-000252	Drainage from Hershey Creamery	Yes	SWMH-000662	No	
SWOUT-000255	Near homeless encampment	No	SWMH-006026	No	
SWOUT-000258	Proximity to Harrisburg Hospital, previously believed to be CSO outfall	Yes		No	
SWOUT-000279	Near homeless encampment	No		No	

CRW performs annual outfall inspections to meet requirements. During dry weather outfall inspections if active outfalls are found, water samples will be collected along with site investigation for illicit discharges. Water samples will be submitted for laboratory analysis to determine the pollutants of concerns. If pollutants of concern are found a formal investigation into illicit discharge will be conducted with the appropriate measures to resolve the problem.

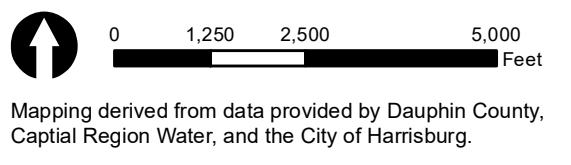
Based on the findings in the initial investigation CRW will continue to monitor outfalls based on land cover and potential sources of pollutants. If pathogens and PCBs are found CRW will further its investigation to find the source and eliminate them. CRW takes illicit discharges extremely seriously and investigates until the source is resolved while making sure documentation is in order and the proper agencies are notified.



- ▲ Sample Outfalls
- Potential Pathogen Source
- ▲ CRW MS4 Outfall
- MS4 Catchments (CRW)
- Catchments
- Combined Sewer System

Stormwater Pollution Risk

- N/A
- 1 (Low Risk)
- 2
- 3
- 4
- 5 (High Risk)



MS4 Pathogen Source Investigation
Capital Region Water
Harrisburg, Pennsylvania



Appendix P

Public Notification Plan Combined Sewer Overflow Events



CAPITAL REGION | WATER™

September 2023

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Purpose

As documented in the Modification to the Partial Consent Decree¹ between the United States and PADEP v. Capital Region Water and the City of Harrisburg, specifically Paragraph V.B.10(f)i² regarding Public Notification, and the associated Nine Minimum Controls (NMC) Plan required under the Combined Sewer Overflow (CSO) Control Policy, Capital Region Water is committed to developing and implementing a Public Notification Plan (Plan) for CSO activity. **This Plan serves to describe and specify how Capital Region Water will ensure that the public receives timely information regarding the occurrence of CSO events.** Further education and awareness are intended to facilitate understanding of the operation and performance of the combined sewer system as it relates to untreated or partially treated sewage flows. This Plan has been informed by public input and is subject to further review and comment.

Background

Harrisburg's wastewater (i.e., sewer) system, owned and operated by Capital Region Water, includes both separate sanitary sewers and combined sewers. Over half of Harrisburg's sewer pipes are part of a combined sewer system, where polluted stormwater runoff and sanitary sewage are conveyed in the same pipe for treatment. During wet weather, stormwater flows can exceed system capacity, discharging the mixture into the Susquehanna River and/or Paxton Creek. A CSO event is a discharge from the combined sewer system to one of those receiving waters. Capital Region Water is committed to providing notification to the public regarding the occurrence of CSO discharge activity. The information and protocols in this Plan are intended to help the Harrisburg community understand the operation and performance of the wastewater system, specifically how and when the public will be notified about CSO events.

Regulatory/Planning Overview

Capital Region Water is committed to clean water in our local waterways. Since taking ownership and operation of the wastewater and stormwater systems in late 2013, Capital Region Water has been planning and implementing solutions to improve water quality and rehabilitate the network of pipes, sewers, and pumps (i.e., infrastructure), which was built decades ago. This investment has included nearly \$200 million in direct infrastructure spending.

¹ Modification to the Partial Consent Decree between the United States and PADEP v. Capital Region Water and the City of Harrisburg as filed in Federal District Court for the Middle District of Pennsylvania on August 25, 2023.

² According to Paragraph V.B.10(f)i, *Within 30 days of the Effective Date, CRW shall submit a Public Notification Plan to Plaintiffs for review and comment. The Public Notification Plan shall describe and specify how CRW will notify the public about CSO events, including the design, location, and planned installation date of any signs, placards, monitors, or other public notification system that CRW must install pursuant to the Paragraph.*

Our built infrastructure must work in tandem with the surrounding natural infrastructure – namely Paxton Creek and the Susquehanna River. Approximately 80 percent of the collection system was installed before 1940, meaning that most of the wastewater/stormwater infrastructure is more than 80 years old. The age of this infrastructure, coupled with decades of deferred maintenance, has resulted in several structural issues, operational deficiencies, and debris buildup.

Since 2015, Capital Region Water has been operating under a Partial Consent Decree to ensure necessary measures are taken to achieve full compliance with the federal Clean Water Act and Pennsylvania’s Clean Streams Law. This Partial Consent Decree required Capital Region Water to control discharges from the sewer system, which consists of the combined and separate sanitary sewer collection system, conveyance and treatment systems, and the municipal separate stormwater sewer system (MS4) within the City of Harrisburg.³

Capital Region Water has negotiated a material modification to the 2015 Partial Consent Decree. This Modification to the Partial Consent Decree addresses alleged violations of the Clean Water Act and Pennsylvania’s Clean Streams Law, primarily due to sewer overflows and the discharge of polluted stormwater. The modification also establishes baseline conditions for an acceptable Long-Term Control Plan to further reduce CSO discharges. The goal remains the same – improved water quality and implementation of defined compliance measures.

System Overview

Capital Region Water operates and maintains 59 CSO regulator structures located along the Front Street, Paxton Creek, Paxton Creek Relief, and Hemlock Street interceptor sewers, which ultimately direct combined wastewater (sanitary wastewater and stormwater) to the Advanced Wastewater Treatment Facility (AWTF). During dry weather conditions, the CSO regulator structures divert all the combined wastewater from the trunk sewer lines to the interceptor sewers and then to the AWTF for treatment before being discharged. During wet weather, the rate and volume of the sanitary and stormwater flow from the system of collector sewers increases significantly, and can exceed the capacity of the downstream interceptor sewers and the treatment facility. When this occurs, the CSO regulator structures (sometimes called diversion structures) divert a controlled volume of flow to the interceptor, while untreated excess combined stormwater and wastewater is discharged to receiving waters. This discharge is necessary to avoid basement and other building backups, releases from manholes, or other damage to the system that might be caused by surcharged conditions. The receiving waters are the Susquehanna River for regulator structures along the Front Street interceptor, and Paxton Creek (a tributary of the Susquehanna) for regulators along the Paxton Creek, Paxton Creek Relief, and Hemlock Street interceptors. Each regulator has a dedicated outfall, with one

³ The intent of the 2015 Partial Consent Decree was to ensure that CRW could achieve a baseline level of control necessary to implement an approved Long Term Control Plan. The plan serves as a roadmap for ongoing system improvements, moving CRW toward its goal of full compliance with state and federal clean water regulations. It has since been discovered that the system was in a worse condition than previously expected, meaning more time was necessary to provide basic maintenance and assess baseline conditions. It also means that additional projects are necessary to meet CRW’s goals.

exception in which two regulators serve a common outfall for a total of 58 permitted outfall structures within Capital Region Water's combined sewer system. In addition to the 58 permitted outfall structures, there are permitted emergency outfalls (CSO-002 and CSO-003) that activate only during a mechanical failure of the pump stations or if the station capacities are exceeded during extreme storm events.

Susquehanna River

There are 27 permitted CSO outfall structures along the Front Street Interceptor (see Figure 1). This includes CSO numbers 04-20 and CSO numbers 49-58. CSO-04 at the cross streets of Front & Vaughn is the farthest upstream outfall discharging to the Susquehanna River. CSO-20 is the farthest downstream at Front & Hanna streets. These outfalls are within a 4-mile distance, largely located in or parallel to Riverfront Park, which is located between Front Street and the Susquehanna River. The area is publicly accessible, with visitors frequently recreating between multiple outfall locations as the park is commonly used for walking, running, and biking.

Paxton Creek

There are 26 permitted CSO outfall structures along the Paxton Creek Interceptor (CSO numbers 21-34, 37-46, 48, and 59) and five (5) CSO regulator structures along the Hemlock Creek Interceptor (CSO numbers 60-64) (see also Figure 1). CSO-21 located at Cameron & Schuylkill streets is the farthest upstream outfall location and CSO-64 located at Cameron & Magnolia streets is the farthest downstream location along Paxton Creek.

The Paxton Creek corridor within the City of Harrisburg stretches about six miles with the majority of this portion of the creek highly modified. A concrete-lined channel was constructed by the City of Harrisburg circa 1914 to remedy its heavily polluted and stagnant condition, resulting from the City's rapid urban and industrial development beginning in the early 1800s. Such growth and development have caused extensive ecological degradation to Paxton Creek, and it currently suffers from Urban Stream Syndrome. Urban Stream Syndrome is typified by flash flooding, elevated concentrations of nutrients and contaminants, altered channel morphology, and reduced biotic richness, with an increased dominance of non-native species. A number of factors have limited access and recreational use in and along Paxton Creek. These outfall locations are less accessible to the public.

Emergency Outfalls

In addition to the 58 permitted CSO outfalls, there are two additional CSO outfalls at the Front Street pumping station and the Spring Creek pumping station. These are permitted emergency outfalls (CSO-002 and CSO-003) that activate only during a mechanical failure of the pump stations or if the station capacities are exceeded during large storms (see also Figure 1). There are no regulator structures associated with these outfalls, but they are included in this plan because the outfalls are inspected daily along with the regulators to identify and quantify any dry or wet weather CSO discharges.

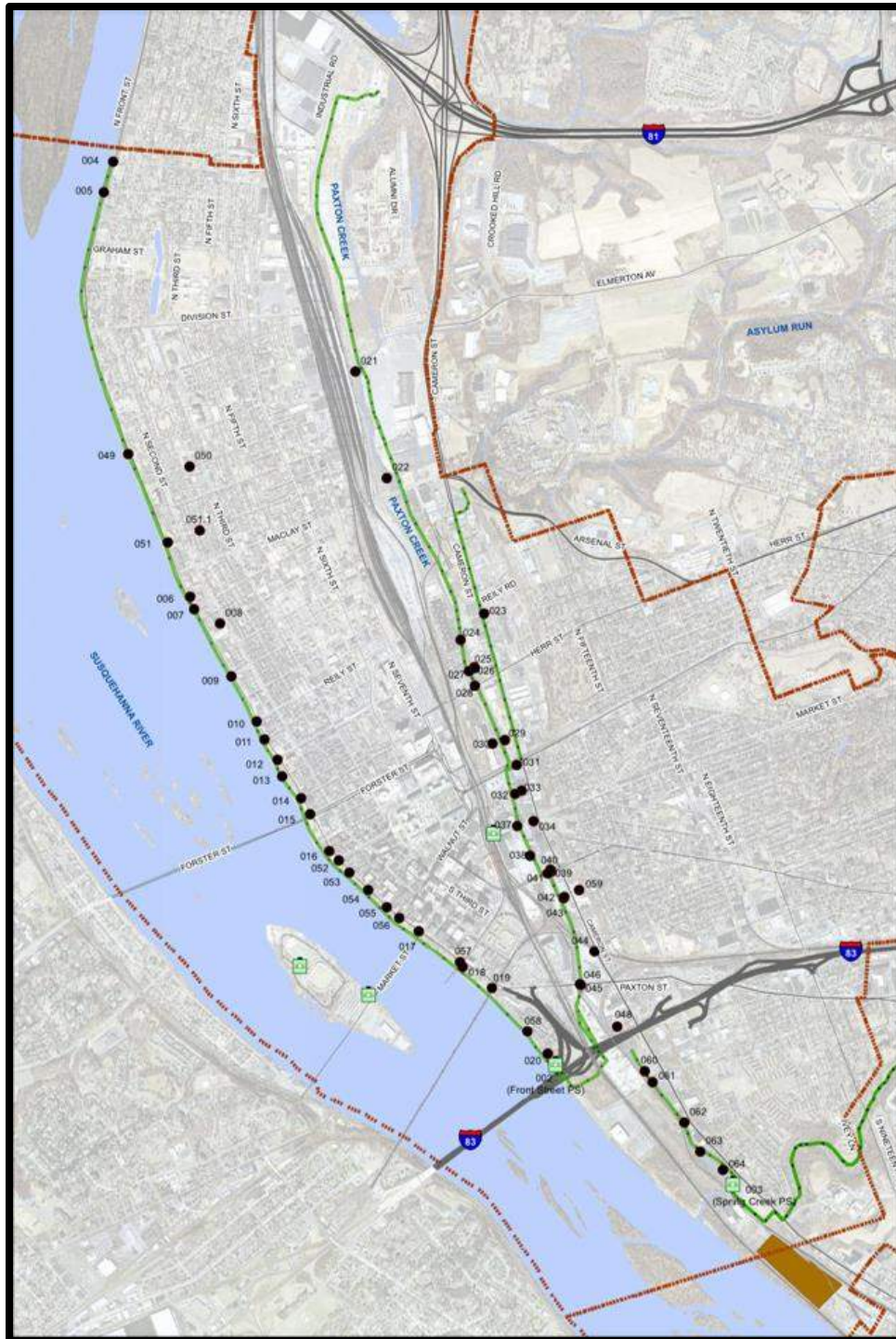


Figure 1: Map of CSO Outfall Locations by Asset Identification Number

Community Considerations

Environmental Justice

Inherent in Capital Region Water’s mission, vision, and standard operations is a commitment to environmental justice (EJ), because the communities that we serve experience a disproportionate share of environmental burdens. This is typified by lower-income communities as well as communities of color, which simultaneously lack environmental assets and access to associated improvements in their neighborhoods.

The median income of households within the City of Harrisburg is less than \$45,000 with nearly 30 percent of residents experiencing poverty.⁴ Utilizing the U.S. EPA’s EJScreen tool, Harrisburg’s EJ scores can be reviewed in comparison to state and national environmental indicators. Harrisburg experiences elevated EJ concerns, including socioeconomic indicators, that trend higher than state and national averages. Harrisburg’s EJScreen Report is included as Appendix A.

Using various definitions and indicators, the communities served by the combined sewer system, including associated outfalls, are historically considered minority and low-income. The majority of Harrisburg lies within PA DEP’s Environmental Justice tracker (see Figure 2) with many of the 2015 census tracts identified as an “EJA” or Environmental Justice Area. Take, for example, the farthest north and south or upstream and downstream census tracts along the Paxton Creek corridor in Harrisburg. The northernmost upstream census tract, tract 211 in Dauphin County, reports a poverty rate of 32 percent and a minority population of 91 percent. The southernmost or downstream census tract (at the confluence with the Susquehanna River), census tract 214, reports a 55 percent poverty rate and a minority population of 91 percent.⁵

⁴ U.S. Census Bureau QuickFacts: Harrisburg city, Pennsylvania – <https://www.census.gov/quickfacts/harrisburgcitypennsylvania>

⁵ Capital Region Water acknowledges that the Shapiro Administration is seeking to adopt an updated Environmental Justice (EJ) Policy, which is expected to be implemented in 2024. Additionally, PA DEP is improving its mapping tool to better identify EJ areas in Pennsylvania with an expanded list of environmental, health, and socioeconomic indicators. Under the current Environmental Justice Public Participation Policy, PA DEP defines an EJ Area as any census tract where 20 percent or more individuals live at or below the federal poverty line, and/or 30 percent or more of the population identifies as non-white minority, based on U.S. Census Bureau data and federal guidelines for poverty. There is not a universally accepted definition of an Environmental Justice area.

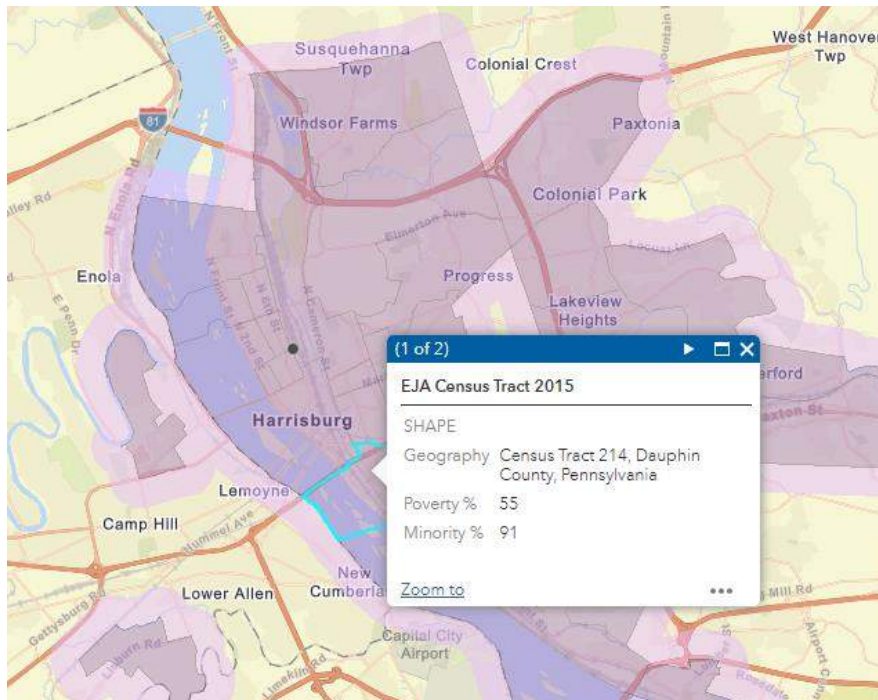
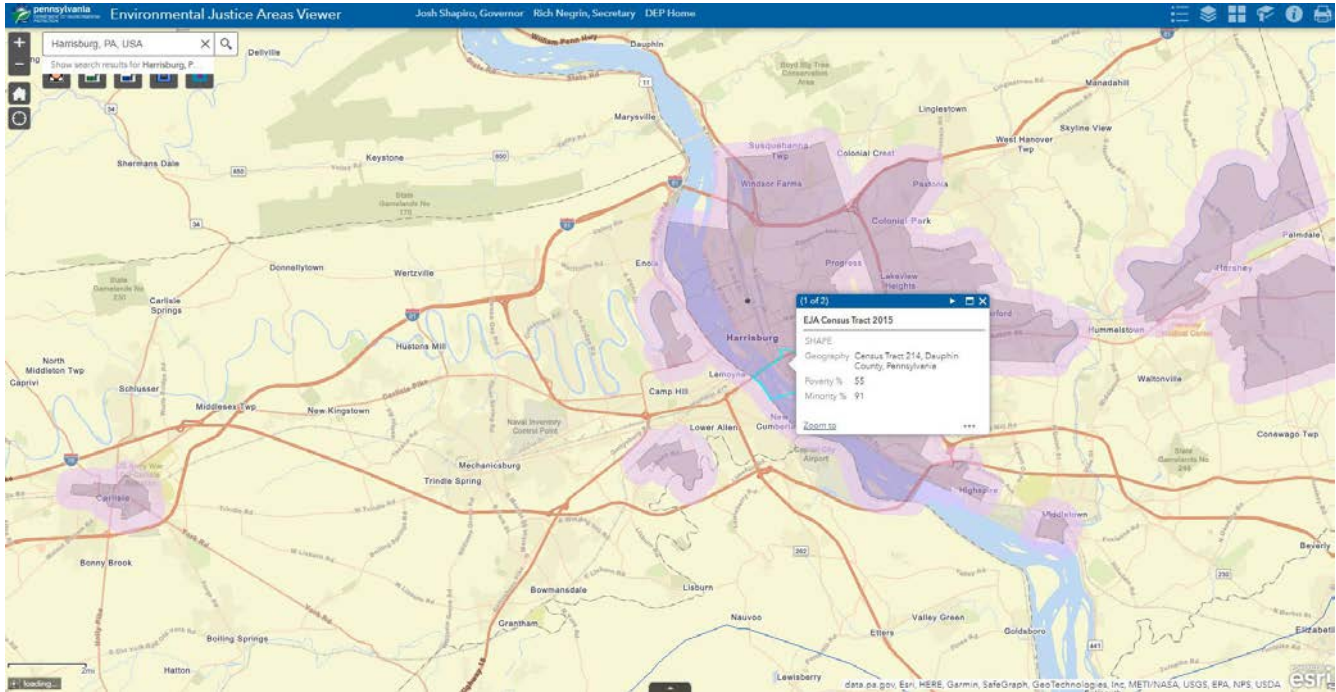


Figure 2: PA DEP Environmental Justice Viewer for Harrisburg, PA

Public Participation

Capital Region Water remains committed to ensuring that all communities we serve have the same protection from environmental and health hazards and equal access to the associated decision-making and public participation processes. This is evident from our collective work since our inception in 2013. Capital Region Water routinely and intentionally engages the community through regular programming, outreach, events, and communications. Staff convenes a team of Community Ambassadors to meet monthly and provide guidance to the larger organization. Community Ambassadors are neighborhood residents who serve as voices for their communities. With experience, insight, and connection, Ambassadors as well as other stakeholders assist in determining how to best utilize resources and address community concerns.

Upon submission of this Public Notification Plan,⁶ Capital Region Water commits to consideration of any written comments and/or input received. A copy of the Plan shall be made publicly available on Capital Region Water's website.

Combined Sewer System & Combined Sewer Overflow Signage

As required in the Modification to the Partial Consent Decree, specifically Paragraph V.B.10(f)ii and Paragraph V.B.10(f)iii,⁷ Capital Region Water is committed to installing and continually maintaining signs at each CSO outfall location notifying the public of the outfall location and providing direction to avoid contact with water during and following wet weather, as well as appropriate contact information. Minimum sign elements include: 1) warning and/or notice language alerting the public to avoid contact with waters during and following wet weather/rainfall events; 2) bilingual language content and universally accepted symbols; 3) Capital Region Water branding, including contact information; and 4) detail to learn more and/or report discharge.

In 2015, Capital Region Water staff visited and inventoried signage at each CSO outfall and public access points along the east shore of the Susquehanna River. This inventory has been documented in the annual NMC Plan and updated with each subsequent version of the NMC Plan to reflect recent inventory. A community participation process also aided in the development of a signage implementation plan to gather input on a

⁶ According to Paragraph V.B.10(f)i, *Within 30 Days of the Effective Date, CRW shall submit a Public Notification Plan to Plaintiffs for review and comment. CRW shall simultaneously provide a copy of the Public Notification Plan to the City, which may provide input on the Plan. Any input from the City must be submitted to Plaintiffs and CRW within fourteen (14) Days of CRW's submission.*

⁷ According to Paragraph V.B.10(f)ii, *CRW shall install and continuously maintain signs or placards at each CSO outfall that notify and alert the public to avoid contact with waters near or downstream of discharging CSO outfalls, in accordance with the Public Notification Plan. Signs or placards shall, at a minimum, be installed within ten (10) feet of each CSO Outfall point, and shall be made from durable weatherproof material. Signs or placards shall be visible to the unaided eye from both land and water at each CSO Outfall. Furthermore, Paragraph V.B.10(f)iii states, CRW shall also install warning signs, in accordance with the Public Notification Plan, at public stream access points (e.g., boat launches, beaches) that notify and alert the public to avoid recreational contact with waters during or just after any wet weather event.*

comprehensive approach to signage development and installation. Community input influenced the subsequent design and installation of signage in 2016 and 2017.

A documented signage inspection was completed in 2021 to inform an updated signage implementation strategy. In 2022, Capital Region Water started updating and standardizing signage as catalogued in the organization's maintenance management system (i.e., Cityworks). In addition to three-digit asset identification tags identifying each outfall number, various placards and signs are represented at each outfall throughout Capital Region Water's service territory. Variation in signage is necessary to accommodate various configurations of overflow locations, outfall structures, pedestrian access, visibility (from both land and water), and associated physical barriers. Capital Region Water also acknowledges that the 27 CSO regulator structures discharging to the Susquehanna River are located within a public park, lending consideration to public access as well as park aesthetics.

In addition to the standard three-digit asset identification placard, there are five sign types available to notify and/or educate the public about CSO activity. By ensuring consistency in signage, residents and recreators can begin to recognize and anticipate overflow areas. Capital Region Water's objective is to alert the public to the potential health and environmental impacts of CSOs and raise public consciousness concerning the effect of CSO discharges on the receiving water bodies (i.e., Paxton Creek and Susquehanna River). Included below (Figures 3 - 7) are the five sign templates installed at and nearby each of the outfall locations.



Figure 3: 9" x 6" Warning Placard
(Posted at each outfall)



Figure 4: 18" x 24" Warning Notice
(deployed along Paxton Creek at 24 locations)



Figure 5: 18" x 24" Public Notice
(deployed along Susquehanna River at 6 locations)

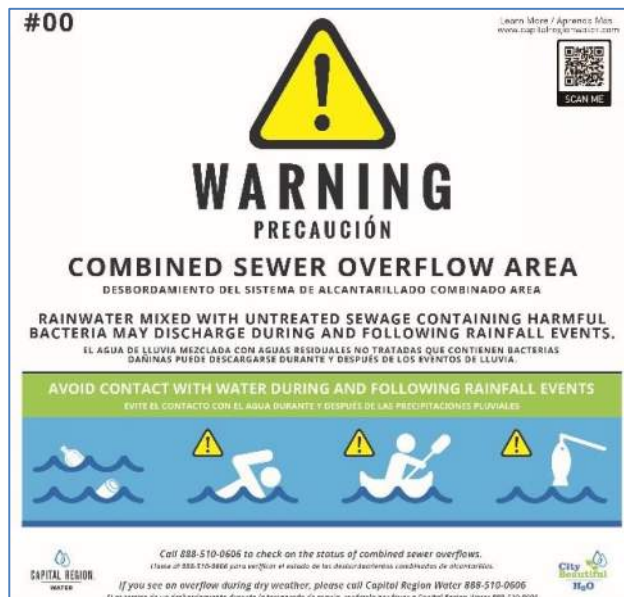
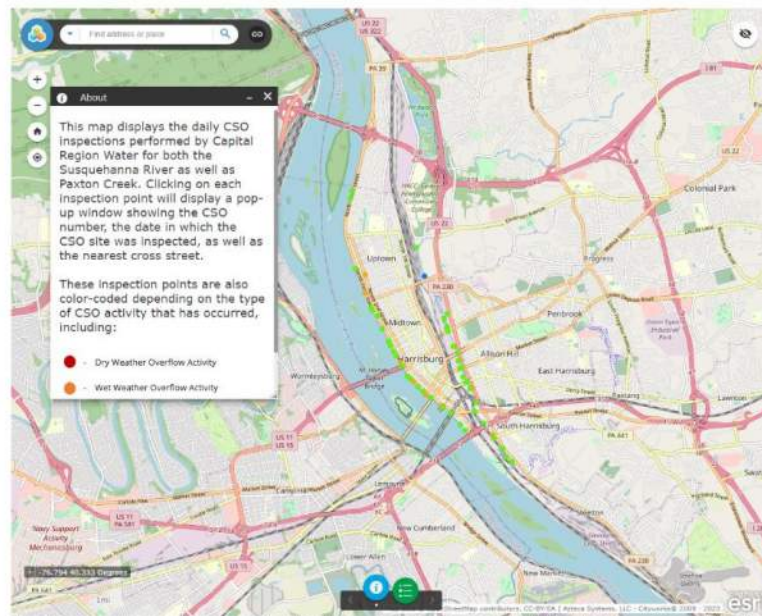


Figure 6: 36" x 36" Warning Sign
(deployed along both Susquehanna River & Paxton Creek at 13 locations)



Figure 7: 60" x 36" Educational Sign
(2 - 30" x 36" individual signs posted side-by-side at 4 locations along the Susquehanna River)

Each sign template provides warning and/or notice of combined sewer overflow activity and caution to avoid contact with water during and following rainfall events. Spanish language content as well as information to contact Capital Region Water is included. Signage also includes a QR code, a two-dimensional or matrix barcode, containing data that directs a user to a website or application by use of a smart phone or other electronic device. In this case, the user will be directed to Capital Region Water’s website at www.capitalregionwater.com for further information on CSOs and related activity. Users can cross-reference the CSO asset ID with data on an interactive map to learn more about relevant CSO activity within a 48-hour period. Figure 8 below includes a screenshot of the CSO information map and website landing page.



Check the map for updates on combined sewer overflow (CSO) activity occurring before swimming, wading, fishing, or boating near a CSO warning sign. Each site indicates a specific CSO within Capital Region Water's service territory.

Warning Code	Warning Description
● Dry Weather Overflow	CSO at this location discharged in stable conditions. Not caused by a weather event.
● Wet Weather Overflow	CSO at this location discharged during a weather event. (Rainfall or snowmelt)
● No Overflow	CSO at this location has not discharged.
● Inflow	CSO at this location has water entering the outfall.

Report a Problem

By reporting problems you see, you can help us to identify larger issues that need attention.

[Submit An Issue >](#)

Contact Customer Service

If you need support related to your service, please use our customer support area.

[Contact Form >](#)

Updates & Alerts

Sign up for our emergency alert system to get the most up-to-date emergency info.

[Sign Up Here >](#)

Figure 8: CSO Information Map and CRW Website Landing Page

An outfall identification number placard and warning placard will be maintained at each CSO outfall and within ten (10) feet of the outfall location. Each of the 60 permitted CSO outfalls (58 standard outfalls and the two emergency outfalls) will have additional signage installed and maintained. The following table (Table 1) documents the signage inventory by outfall and location. Any currently outstanding signage will be installed by December 31, 2023. As part of the CSO inspection and maintenance program, all outfall signs will be inspected annually. An annual signage inspection as documented through Capital Region Water’s existing maintenance management system (i.e., Cityworks) will be completed each year, with subsequent updates provided in the Semi-Annual Reports on Consent Decree Implementation. This annual inspection will ensure that signs are both present and legible. This information will serve to inform an annual review and subsequent recommendation and implementation schedule to replace and/or enhance signage. Outfall locations with missing and/or damaged signs will be scheduled for replacement and/or repair within 90 days by way of a documented work order system.

CSO Outfall Signage Strategy				
CSO Outfall ID	Receiving Waters	Location	Number of Signs	Sign Description
2 (Emergency Outfall)	Susquehanna River	Front Street Pump Station/Dock Street Boat Launch	2	9x6 Warning Placard; 60x36 Educational Sign
3 (Emergency Outfall)	Paxton Creek	Spring Creek Pump Station	2	9x6 Warning Placard; 36x36 Warning Sign
4	Susquehanna River	Front & Vaughn	2	9x6 Warning Placard; 36x36 Warning Sign
5	Susquehanna River	Front & Lewis	3	9x6 Warning Placard; (2) 36x36 Warning Sign
6	Susquehanna River	Front & Geiger	3	9x6 Warning Placard; 36x36 Warning Sign; 18x24 Public Notice
7	Susquehanna River	Front & Peffer	2	9x6 Warning Placard; 36x36 Warning Sign
8	Susquehanna River	Front & Muench	2	9x6 Warning Placard; 36x36 Warning Sign
9	Susquehanna River	Front & Hamilton	2	9x6 Warning Placard; 18x24 Public Notice
10	Susquehanna River	Front & Rely	2	9x6 Warning Placard; 18x24 Public Notice
11	Susquehanna River	Front & Calder	1	9x6 Warning Placard
12	Susquehanna River	Front & Verbeke	1	9x6 Warning Placard
13	Susquehanna River	Front & Cumberland	3	9x6 Warning Placard; 36x36 Warning Sign; 60x36 Educational Sign
14	Susquehanna River	Front & Boas	1	9x6 Warning Placard
15	Susquehanna River	Front & Forster	2	9x6 Warning Placard; 60x36 Educational Sign
16	Susquehanna River	Front & Liberty	1	9x6 Warning Placard
17	Susquehanna River	Front & Market	3	9x6 Warning Placard; 36x36 Warning Sign; 60x36 Educational Sign
18	Susquehanna River	Front & Mulberry	2	9x6 Warning Placard; 18x24 Public Notice
19	Susquehanna River	Front & Paxton	2	9x6 Warning Placard; 36x36 Warning Sign
20	Susquehanna River	Front & Hanna	1	9x6 Warning Placard
21	Paxton Creek	Cameron & Schuykill	1	9x6 Warning Placard
22	Paxton Creek	Cameron & Forrest	2	9x6 Warning Placard; 18x24 Warning Notice
23	Paxton Creek	Cameron & Calder	2	9x6 Warning Placard; 18x24 Warning Notice
24	Paxton Creek	Hill Chamber T.R.W.	2	9x6 Warning Placard; 18x24 Warning Notice
25	Paxton Creek	N. Cameron & Cumberland	2	9x6 Warning Placard; 18x24 Warning Notice
26	Paxton Creek	S. Cameron & Cumberland	2	9x6 Warning Placard; 18x24 Warning Notice
27	Paxton Creek	9th & Cumberland	2	9x6 Warning Placard; 18x24 Warning Notice
28	Paxton Creek	9th & Herr	1	9x6 Warning Placard
29	Paxton Creek	E. Cameron & North	2	9x6 Warning Placard; 18x24 Warning Notice
30	Paxton Creek	W. Cameron & North	2	9x6 Warning Placard; 18x24 Warning Notice
31	Paxton Creek	Cameron & State	2	9x6 Warning Placard; 18x24 Warning Notice
32	Paxton Creek	W. Cameron & Walnut	1	9x6 Warning Placard
33	Paxton Creek	E. Cameron & Walnut	1	9x6 Warning Placard
34	Paxton Creek	S. Market & Cameron	1	9x6 Warning Placard
37	Paxton Creek	10th & Market	1	9x6 Warning Placard
38	Paxton Creek	10th & Chestnut	2	9x6 Warning Placard; 18x24 Warning Notice
39	Paxton Creek	S. Mulberry & Cameron	2	9x6 Warning Placard; 18x24 Warning Notice
40	Paxton Creek	N. Mulberry & Cameron	2	9x6 Warning Placard; 18x24 Warning Notice
41	Paxton Creek	W. Mulberry & Cameron	2	9x6 Warning Placard; 18x24 Warning Notice
42	Paxton Creek	N. Kittatinny & Cameron	2	9x6 Warning Placard; 18x24 Warning Notice
43	Paxton Creek	S. Kittatinny & Cameron	2	9x6 Warning Placard; 18x24 Warning Notice
44	Paxton Creek	Cameron & Berryhill	2	9x6 Warning Placard; 18x24 Warning Notice
45	Paxton Creek	S. Paxton Street	2	9x6 Warning Placard; 18x24 Warning Notice
46	Paxton Creek	N. Paxton Street	2	9x6 Warning Placard; 18x24 Warning Notice
48	Paxton Creek	10th & Shannon	2	9x6 Warning Placard; 18x24 Warning Notice
49	Susquehanna River	Front & Schuykill	1	9x6 Warning Placard
50	Susquehanna River	Front & Seneca	2	9x6 Warning Placard; 36x36 Warning Sign
51	Susquehanna River	Woodbine & Front	1	9x6 Warning Placard
52	Susquehanna River	Front & State	1	9x6 Warning Placard
53	Susquehanna River	Front & South	2	9x6 Warning Placard; 18x24 Public Notice
54	Susquehanna River	Front & Pine	1	9x6 Warning Placard
55	Susquehanna River	Front & Locust	2	9x6 Warning Placard; 18x24 Public Notice
56	Susquehanna River	Front & Walnut	1	9x6 Warning Placard
57	Susquehanna River	Cherry & Mulberry	1	9x6 Warning Placard
58	Susquehanna River	Front & Tuscarora	2	9x6 Warning Placard; 36x36 Warning Sign
59	Paxton Creek	E. Kittatinny & Cameron	2	9x6 Warning Placard; 18x24 Warning Notice
60	Paxton Creek	Salmon Street	2	9x6 Warning Placard; 18x24 Warning Notice
61	Paxton Creek	10th & Sycamore	1	9x6 Warning Placard
62	Paxton Creek	Shanois Street	2	9x6 Warning Placard; 18x24 Warning Notice
63	Paxton Creek	Cameron & Hanover	3	9x6 Warning Placard; 36x36 Warning Sign; 18x24 Warning Notice
64	Paxton Creek	Cameron & Magnolia	2	9x6 Warning Placard; 18x24 Warning Notice

Table 1: CSO Outfall Signage Inventory by Location

Public Notification Signage maps for the Susquehanna River and Paxton Creek are included, respectively, as Appendix B and Appendix C. The maps indicate the location of CSO outfalls to the receiving waters and the posted and/or proposed signs, including sign type and description. Because certain CSO outfall locations are very close together, residents and recreators on land and in water are often at or near multiple regulator structures and outfall locations at the same time. The geospatial display provides further information and context surrounding the Paxton Creek and Susquehanna River corridors.

Notification Protocol

Daily CSO Regulator Inspection

Inspections of the CSO regulator structures are completed daily by CRW staff to check and verify that they are operating properly, identify whether a combined sewer overflow has occurred since the last inspection, identify whether river intrusion has entered into the interceptor system since the last inspection, identify and correct operational problems, and identify and schedule required maintenance.

To identify combined sewer overflows that may have occurred between the daily inspections, CRW utilizes overflow detection devices (ODDs). The ODDs consist of small wooden blocks positioned on the weirs and tethered to the chamber walls. Movement of an ODD is indicative of a possible combined sewer overflow. For CSO regulator structures in which the weir is not easily visible from the manhole, the ODDs are positioned on a platform in the diversion chamber, which is mounted at the same height as the weir crest.

CSO regulator structures are inspected once per day, seven days per week. Daily inspections typically begin around 07:00 AM and are typically completed within four hours. Additional inspection time may be required during high flows within the sewers or receiving waters, during inclement weather, or when problems have been identified during inspections. On rare occasions, an executive decision may be made by the Field Operations Supervisor to forego individual CSO regulator structure inspections due to an emergency resulting in staff limitations (e.g., a dry weather overflow at another CSO regulator structure) or during severe flooding when overflows can be reasonably assumed. Further description of this daily activity can be found in the current version of Capital Region Water's Operation and Maintenance Manual for the Collection and Conveyance System.

Daily CSO regulator inspection activity is documented in Cityworks. Recorded information includes confirmation that the inspection was completed; start/stop times, duration, and volume of any CSOs; ODD codes; backflow codes; and information regarding the staff members who performed the inspections. Any required maintenance identified during inspections is noted.

CSO Monitoring/Activation

As required in the Modification to the Partial Consent Decree, specifically Paragraph V.B.10(f)iv,⁸ Capital Region Water is committed to installing monitors that include real-time alert/notification systems at ten (10) selected locations. ADS ECHO monitors will be installed at the selected sites. This is an ultrasonic-based monitor, which includes a real-time alert/notification system. A similar ADS monitor was installed and tested as part of the 2016 CSO Activation Monitoring Pilot (CAMP) Study, which was found to perform well for monitoring CSO activity. To measure CSO activity, the ultrasonic monitors will be installed near the diversion chamber rim of each selected CSO regulator (i.e., the chamber where the diversion weir is located). The elevation of the water surfaces in the diversion chambers will be measured by the meter, and given the known diversion weir elevations, overflows will be determined to occur whenever the elevations of the water surfaces exceed the diversion weir elevations.

The following criteria were considered for selecting the CSO activity monitoring sites:

- **Geographic distribution** – To create a network for public notification, the sites should cover both the Susquehanna River and Paxton Creek, and be roughly evenly spaced apart (i.e., to avoid selecting CSO regulators with outfalls adjacent to each other).
- **Overflow frequency** – To be able to reliably notify the public when a CSO is occurring within the CRW system, those CSO regulators with the highest annual overflow frequencies are included; additionally, to achieve an accurate representation of the entire system, CSO regulators with moderate overflow frequencies are also included.
- **Overflow volume** – Given that large volume overflows can have a greater impact on water quality, CSO regulators with particularly large annual overflow volumes are included.

The following CSO regulators have been selected for CSO activity monitoring:

CSO Regulator	Water Body	CSO Regulator	Water Body
CSO-004	Susquehanna	CSO-024	Paxton Creek
CSO-051	Susquehanna	CSO-031	Paxton Creek
CSO-010	Susquehanna	CSO-042	Paxton Creek
CSO-054	Susquehanna	CSO-048	Paxton Creek
CSO-020	Susquehanna	CSO-061	Paxton Creek

⁸ According to Paragraph V.B.10(f)iv, *To aid in notifying the public of CSO activity, CRW shall install monitors that include real-time alert/notification systems at 10 selected locations, in accordance with the Public Notification Plan. The monitors will be installed at CSO regulator locations near the diversion chamber rim of each selected CSO regulator (i.e., the chamber where the diversion weir is located). The elevation of the water surfaces in the diversion chambers will be measured by the meter, and given the known diversion weir elevations, the public and the City will be notified of possible CSO overflows whenever the elevations of the water surfaces exceed the diversion weir elevations.*

Within 180 days of submission of the Public Notification Plan, Capital Region Water will procure and install the ADS ECHO monitors. Note that the list of selected CSO regulators may need to be modified if it is determined during field installations that a particular site is not suitable for the monitoring technology. If this occurs, a replacement site will be selected using the same criteria previously defined. Within 12 months of submission of the Public Notification Plan, the selected CSO regulators and associated data will be integrated into the publicly available CSO Status Map and Website Landing Page as described above and represented in Figure 8 and Figure 9, providing the public with information and notification of possible CSO overflows whenever the elevations of the water surfaces exceed the diversion weir elevations.

Issuance of Public Notification

As required in the Modification to the Partial Consent Decree, specifically Paragraph V.B.10(f)v,⁹ Capital Region Water is committed developing written procedures and providing the public and the City with information concerning CSO discharges and their impacts on water quality. Discharges from CSO outfalls consist, or likely consist, of untreated sewage containing harmful bacteria. The public is advised to avoid contact with impacted receiving waters during and following rainfall events.

Website and Mapping Notification

Initial and supplemental notification will be provided through Capital Region Water's website. As presented above, a link on the website displays a map showing daily CSO activation status using a color-coded system. If a user clicks on any CSO icon on the map, an informational window provides information about the CSO location and recent inspection date. The color coding represents the type of CSO activity that has occurred. Figure 9 below is a screenshot of the map taken from the website.

Access to the map and additional information regarding CSOs can be found at Capital Region Water's website or by way of the direct link provided here: <https://capitalregionwater.com/resources/cso/>.

⁹ According to Paragraph V.B.10(f)v, *CRW shall develop written procedures and provide the public and the City with information concerning CSO discharge occurrences and their impacts on water quality in the Receiving Water(s) in accordance with the Public Notification Plan. Furthermore, Paragraph V.B.10(f)ix states, CRW shall consider implementation of email and/or text message public notification systems for CSO, DWO, and Unauthorized Release events.*

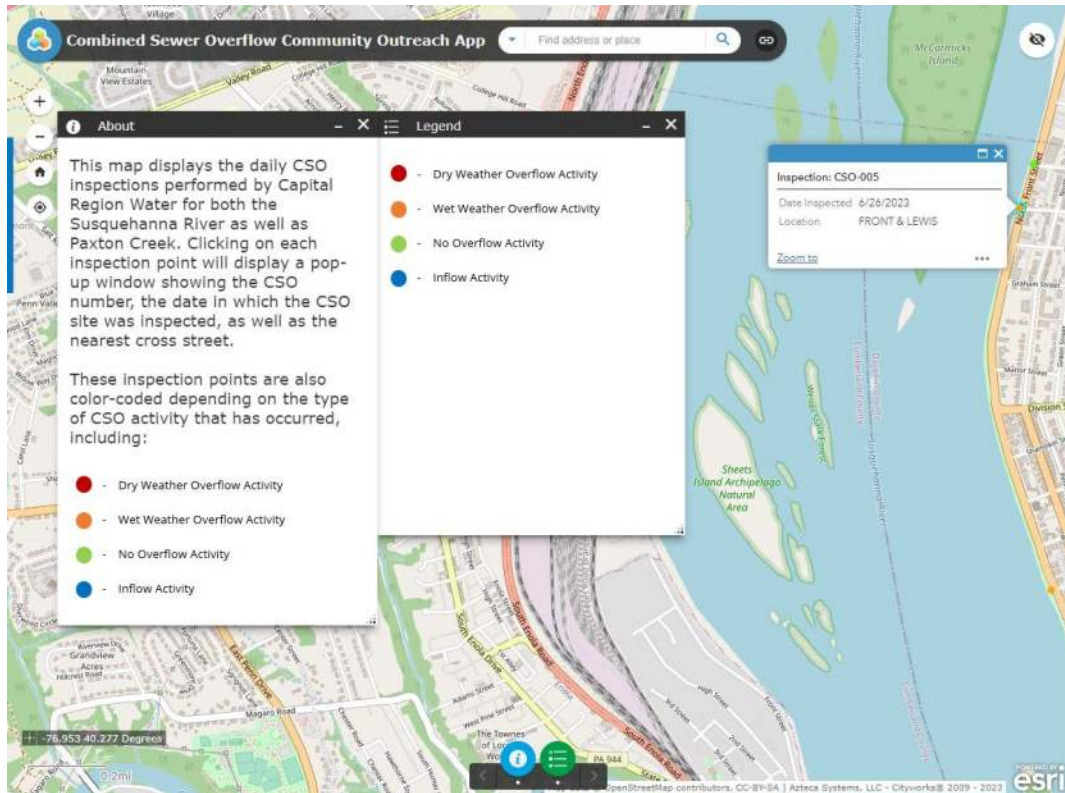


Figure 9: CSO Information Map with Sample Information

Audio and Subscription Notification

Capital Region Water utilizes the Everbridge emergency notification system (a critical event management system) to notify customers and subscribers about potential water concerns and critical service updates. In an emergency, an alert message or notification can be sent via telephone, text message, or email. The Everbridge system also provides for an audio bulletin board feature which enables an audience (e.g., customer, resident, recreator, etc.) to retrieve an audio message at their convenience.

Capital Region Water provides notifications that can be retrieved by calling the Customer Service Center anytime at 888-510-0606 to listen for the prompt and hear the message. This notification is utilized daily to provide an update/alert on CSO activity immediately following the daily CSO inspections completed by the Field Operations team. The audio information provides a summary of CSO activity within the last 24 hours. There are seven possible scenarios which represent potential CSO activity within the combined sewer system and impact on receiving waters. This includes the following potential system scenarios for CSO activity:

- 1) No CSO Observed – No CSO activity has been observed within the last 24 hours.
- 2) Single Active CSO Observed – A single active CSO event has been observed.

- 3) Single Non-Active CSO Observed – A single CSO event has been observed within the last 24 hours but is not active.
- 4) Multiple Active CSOs Observed – Two or more active CSO events have been observed.
- 5) Multiple Non-Active CSOs Observed – Two or more CSO events have been observed within the past 24 hours but are not active.
- 6) Active and Non-Active CSOs Observed – CSO event activity has been observed within the last 24 hours; there is a combination of active and non-active CSO activity.
- 7) Dry Weather Overflow/Unauthorized Release – CSO activity observed that cannot be attributed to a precipitation event.

Each of the above scenarios requires public notification and has an associated message template that can be updated and posted as an audio notification. Appendix D includes the seven notification templates, and an associated example, utilized by Capital Region Water. Each notification message includes the following content/information:

- Date/time of recent CSO system inspection/observation;
- Status of observed CSO event activity;
- Description of discharge or overflow locations(s), and outfall number(s) (as applicable; would not apply if no activity);
- Impacted receiving waters (as applicable; would not apply if no activity); and
- Precautionary language to avoid contact with waterways and/or further direction (as applicable; would not apply if no activity).

In addition to the current audio notifications and consistent with the Modification to the Partial Consent Decree, specifically Paragraph V.B.10(f)ix,¹⁰ Capital Region Water is implementing a subscription notification option utilizing Everbridge, the automated messaging system. This allows a user to opt-in to receiving direct text messages or email alerts regarding CSO activity. Any interested user would create a portal profile and then select the option to subscribe to receive updates and/or alerts when a CSO has been observed. Similar to the audio bulletin board notification, subscription notifications will correspond to the daily CSO inspections completed by the Field Operations team and reflect the information available through the audio bulletin feature. Subscription alerts will not be utilized if overflow activity has not been observed (i.e., no CSO observed). Subscription alerts shall reflect the following potential system scenarios for CSO activity:

- 1) Single Active CSO Observed – A single active CSO event has been observed.
- 2) Single Non-Active CSO Observed – A single CSO event has been observed within the last 24 hours but is not active.
- 3) Multiple Active CSOs Observed – Two or more active CSO events have been observed.

¹⁰ According to Paragraph V.B.10(f)ix, *CRW shall consider implementation of email and/or text message public notification systems for CSO, DWO, and Unauthorized Release events.*

- 4) Multiple Non-Active CSOs Observed – Two or more CSO events have been observed within the past 24 hours but are not active.
- 5) Active and Non-Active CSOs Observed – CSO event activity has been observed within the last 24 hours; there is a combination of active and non-active CSO activity.
- 6) Dry Weather Overflow/Unauthorized Release – CSO activity observed that cannot be attributed to a precipitation event.

Capital Region Water is committed to maintaining the audio bulletin board notification feature and providing for subscription notifications within 12 months of submission of the Public Notification Plan. This 12-month schedule provides adequate time for system setup/implementation, staff training, and an associated outreach campaign.

Educational Outreach & Public Engagement

As required in the Modification to the Partial Consent Decree, specifically Paragraph V.B.10(f)vi-vii,¹¹ Capital Region Water is committed to ensuring that the public and any potentially affected stakeholder has access to information regarding a combined sewer system and impact of CSO discharge (both occurrences and impact on receiving waters) as well as information on how to learn more, receive notification, and provide comment to Capital Region Water.

Educational Information

Capital Region Water utilizes various methods of communication with the public. This includes, but is not limited to: a website, CapitalRegionWater.com, an 888-telephone number, an email mailing list, social media, bill stuffers, direct mailings, educational flyers, door hangers, event participation, earned media/press, and an Everbridge emergency notification system. An integrated outreach and education program ensures that customers and stakeholders are provided with information concerning CSO discharge occurrences and impacts on water quality in the receiving waters.

The following methods of routine outreach and communication are identified for annual use:

- Capital Region Water includes a bilingual educational insert in each hard copy mailing of the monthly bill. An e-newsletter with similar content is distributed to customers electing to receive electronic monthly bills as well as interested partners and stakeholders that have signed up to receive this monthly

¹¹ According to Paragraph V.B.10(f)vi, *CRW shall distribute CSO pamphlets for education of the general public.* Furthermore, Paragraph V.B.10(f)vii states, *CRW shall evaluate and document any CSO public education programs and the community's response to such programs and any follow-up plans addressing public education based on public response.* Paragraph V.B.10(f)viii states, *CRW shall investigate and document any public involvement including any concerns expressed, and comments or suggestions made by the public concerning CSOs, and take any corrective measures warranted.*

communication. No less than one bill insert and corresponding electronic newsletter per year shall serve to notify stakeholders about the combined sewer system and alert the public to avoid contact with water near or downstream of outfalls during and immediately after wet weather events. See Appendix E for a recent example of outreach material and bilingual messaging.

- Capital Region Water’s website (CapitalRegionWater.com and specifically [About CBH2O - Capital Region Water](#)) is maintained and enhanced to provide educational materials, information about the combined sewer system and CSO events, and regulatory and compliance documents and updates. On or before May 1 of each year, Capital Region Water will post information on its website regarding CSO activity for the previous year. This will include information from the Semi-Annual Report related to capture/discharge metrics. This information also serves to provide the public and the City information concerning CSO discharge occurrence and the impact on water quality in the receiving waters.
- Written communications such as fact sheets, pamphlets, and door hangers.
- Social media, including Facebook, Twitter, Instagram, and Nextdoor.com are continually utilized to provide education, encourage public participation, and interact with customers and stakeholders.
- Participation in community events provides critical opportunities to share information and provide educational resources.
- Meetings include both presentations and attendance at community-wide meetings, with neighborhood associations and community groups, convened meetings with Community Ambassadors, and facilitated stakeholder and town hall meetings. PowerPoint presentations, oral remarks, and educational materials are utilized during these meetings.

Publicly available information as provided by Capital Region Water is translated into Spanish or access is provided for Spanish translation to ensure English language proficiency is not a barrier to receiving information.

Capital Region Water will evaluate and document any CSO public education programs and the community’s response to such programs and any follow-up plans addressing public education based on public response. Capital Region Water will also investigate and document any public involvement including any concerns expressed, and comments or suggestions made by the public concerning CSOs, and take any corrective measures warranted. Community engagement activity, along with stakeholder interactions, are logged within the Cityworks management system. Similar to a maintenance work order, community engagement work orders capture relevant details on events, meetings, notifications, etc. designed to inform and involve the public in Capital Region Water’s work stewarding the wastewater and stormwater systems in and around Harrisburg.

Potentially Affected Stakeholders

Capital Region Water has identified the following key audiences and stakeholders which may be affected by the occurrence of CSO events:

- Customers, including tenants and multi-dwelling residents
- Recreators
- Community Groups and NGOs
 - Neighborhood Associations and Action Councils
 - Faith-based Organizations
 - Environmental NGOs
 - Community Improvement Organizations
- Volunteers
 - Board of Directors
 - Community Ambassadors: Community Ambassadors are neighborhood residents and representatives that have become leading voices and advocates in their communities. Capital Region Water works with these super volunteers on an ongoing basis. Meetings are hosted monthly to discuss matters and empower them with the education and knowledge to reach out to their own neighbors and communities. Ambassadors also serve to provide direct input to Capital Region Water on issues affecting their constituencies.
 - Event Volunteers
- Local Government Partners
 - City of Harrisburg
 - Dauphin County
 - Dauphin County Conservation District
- Elected Officials
 - City of Harrisburg Mayor and Administration
 - City Council
 - County Commissioners
 - State Representative
 - State Senator
 - Members of Congress
- Regulatory Agencies
 - PADEP
 - USEPA
 - Susquehanna River Basin Commission

This list is routinely maintained by and available through Capital Region Water’s Community Relations staff.

Public Feedback & Reporting

Within seven days of submission of this Public Notification Plan, a copy of the Plan will be made available at Capital Region Water's website for public review.

Any amended and successive versions of the Plan will be made publicly available. Subsequent implementation of this Public Notification Plan and the procedures set forth in the NMC Plan and the CSO Policy will be documented in the Semi-Annual Reports submitted under Section VII of the Consent Decree.



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USEPA EJSscreen Report

EJScreen Report (Version 2.11)



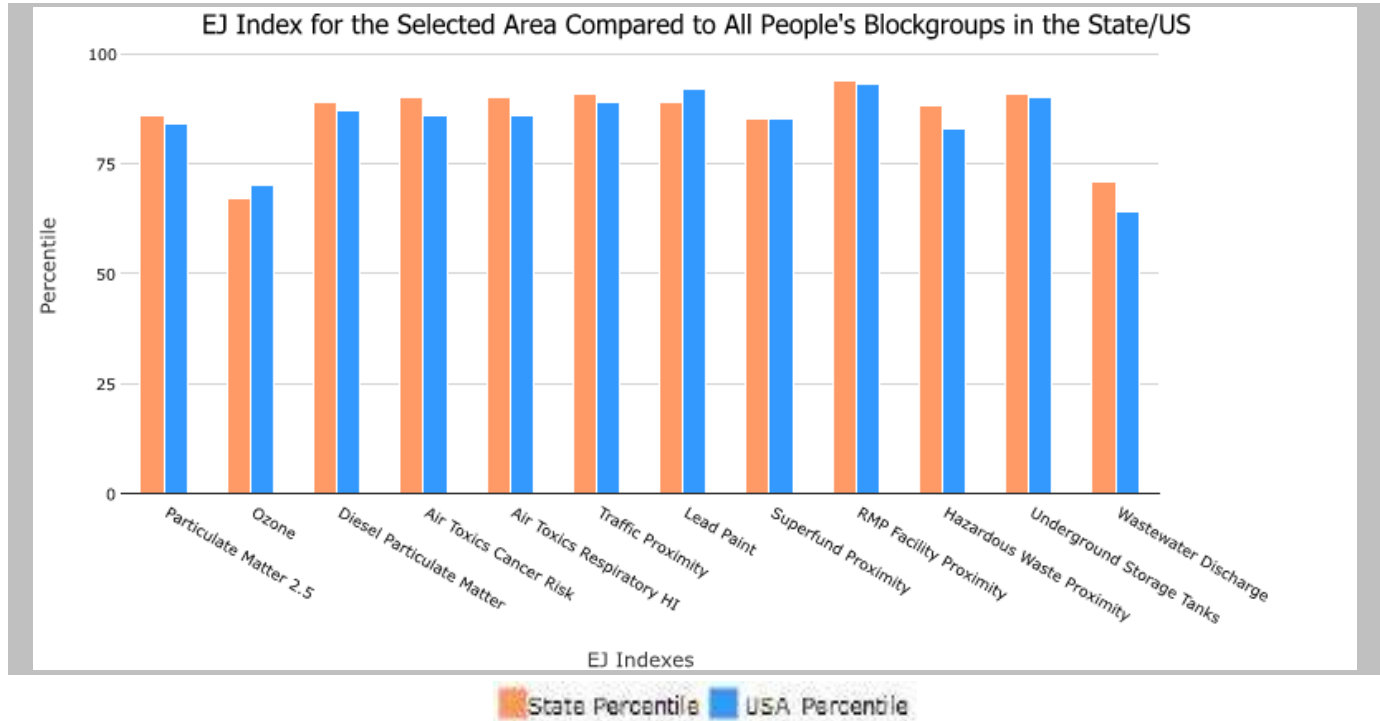
City: Harrisburg, PENNSYLVANIA, EPA Region 3

Approximate Population: 49,247

Input Area (sq. miles): 11.86

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	86	84
Ozone EJ index	67	70
Diesel Particulate Matter EJ index*	89	87
Air Toxics Cancer Risk EJ index*	90	86
Air Toxics Respiratory HI EJ index*	90	86
Traffic Proximity EJ index	91	89
Lead Paint EJ index	89	92
Superfund Proximity EJ index	85	85
RMP Facility Proximity EJ index	94	93
Hazardous Waste Proximity EJ index	88	83
Underground Storage Tanks EJ index	91	90
Wastewater Discharge EJ index	71	64

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

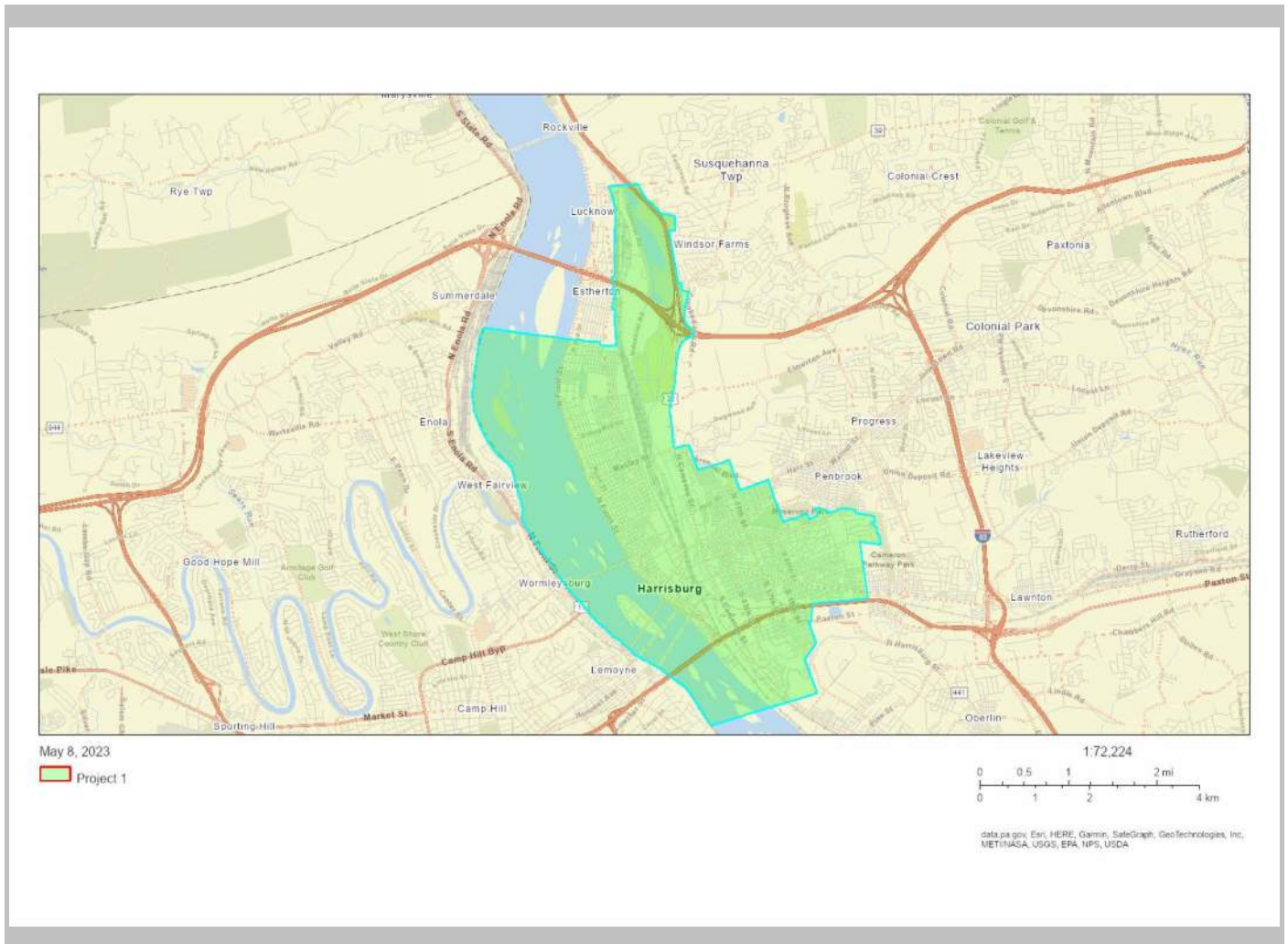
EJScreen Report (Version 2.11)



City: Harrisburg, PENNSYLVANIA, EPA Region 3

Approximate Population: 49,247

Input Area (sq. miles): 11.86



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	2

EJScreen Report (Version 2.11)

City: Harrisburg, PENNSYLVANIA, EPA Region 3

Approximate Population: 49,247

Input Area (sq. miles): 11.86



Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	9	8.7	55	8.67	62
Ozone (ppb)	40.3	42.1	21	42.5	33
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.365	0.27	76	0.294	70-80th
Air Toxics Cancer Risk* (lifetime risk per million)	30	31	83	28	80-90th
Air Toxics Respiratory HI*	0.39	0.32	95	0.36	70-80th
Traffic Proximity (daily traffic count/distance to road)	1400	660	89	760	86
Lead Paint (% Pre-1960 Housing)	0.71	0.47	72	0.27	86
Superfund Proximity (site count/km distance)	0.088	0.18	48	0.13	62
RMP Facility Proximity (facility count/km distance)	2.5	0.82	92	0.77	93
Hazardous Waste Proximity (facility count/km distance)	1.5	1.5	70	2.2	65
Underground Storage Tanks (count/km ²)	7.7	3.6	84	3.9	85
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0014	77	44	12	52
Socioeconomic Indicators					
Demographic Index	63%	26%	90	35%	85
Supplemental Demographic Index	22%	13%	89	15%	83
People of Color	76%	24%	90	40%	81
Low Income	50%	28%	84	30%	80
Unemployment Rate	8%	5%	78	5%	77
Limited English Speaking Households	8%	2%	90	5%	81
Less Than High School Education	19%	9%	87	12%	78
Under Age 5	9%	5%	84	6%	80
Over Age 64	11%	18%	23	16%	32
Low Life Expectancy	24%	20%	85	20%	85

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

EJScreen Report (Version 2.11)



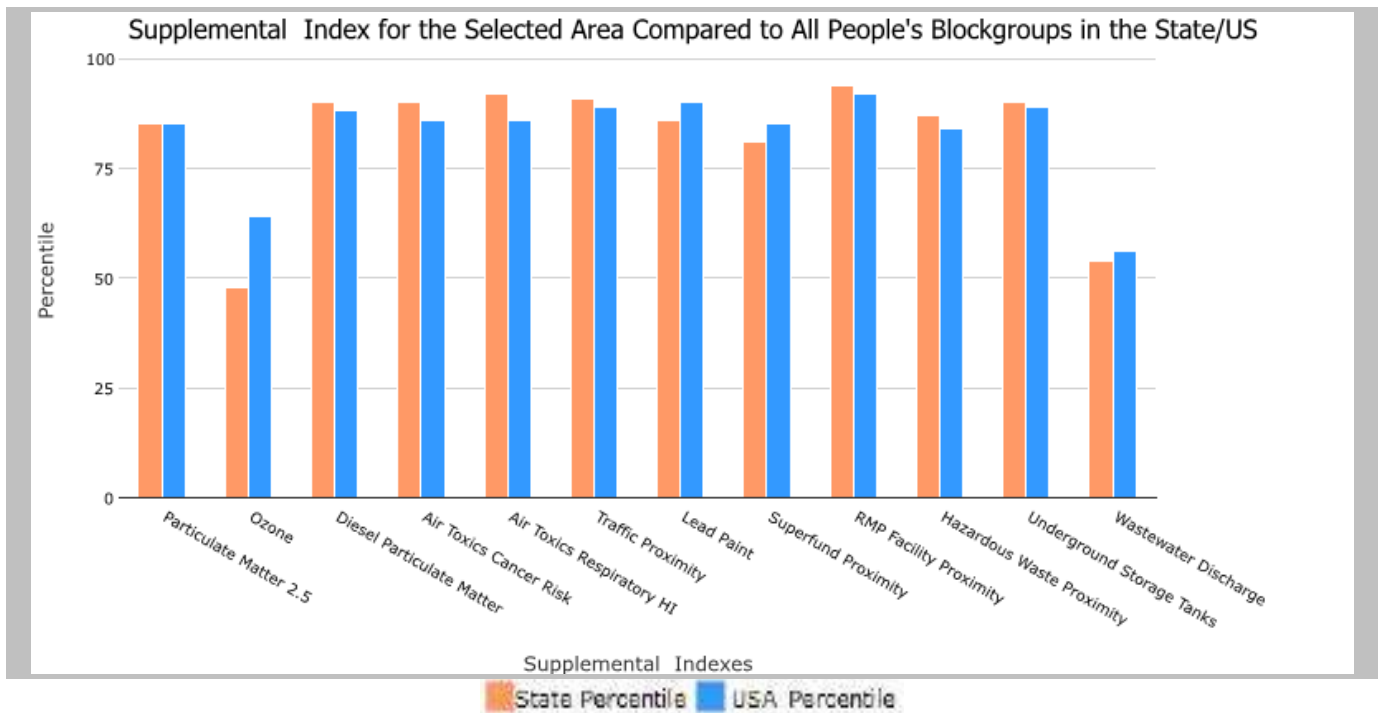
City: Harrisburg, PENNSYLVANIA, EPA Region 3

Approximate Population: 49,247

Input Area (sq. miles): 11.86

Selected Variables	State Percentile	USA Percentile
Supplemental Indexes		
Particulate Matter 2.5 Supplemental Index	85	85
Ozone Supplemental Index	48	64
Diesel Particulate Matter Supplemental Index*	90	88
Air Toxics Cancer Risk Supplemental Index*	90	86
Air Toxics Respiratory HI Supplemental Index*	92	86
Traffic Proximity Supplemental Index	91	89
Lead Paint Supplemental Index	86	90
Superfund Proximity Supplemental Index	81	85
RMP Facility Proximity Supplemental Index	94	92
Hazardous Waste Proximity Supplemental Index	87	84
Underground Storage Tanks Supplemental Index	90	89
Wastewater Discharge Supplemental Index	54	56

Supplemental Indexes - The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on low-income, limited English speaking, less than high school education, unemployed, and low life expectancy populations with a single environmental indicator.



This report shows the values for environmental and demographic indicators, EJScreen indexes, and supplemental indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. For additional information, see: www.epa.gov/environmentaljustice.

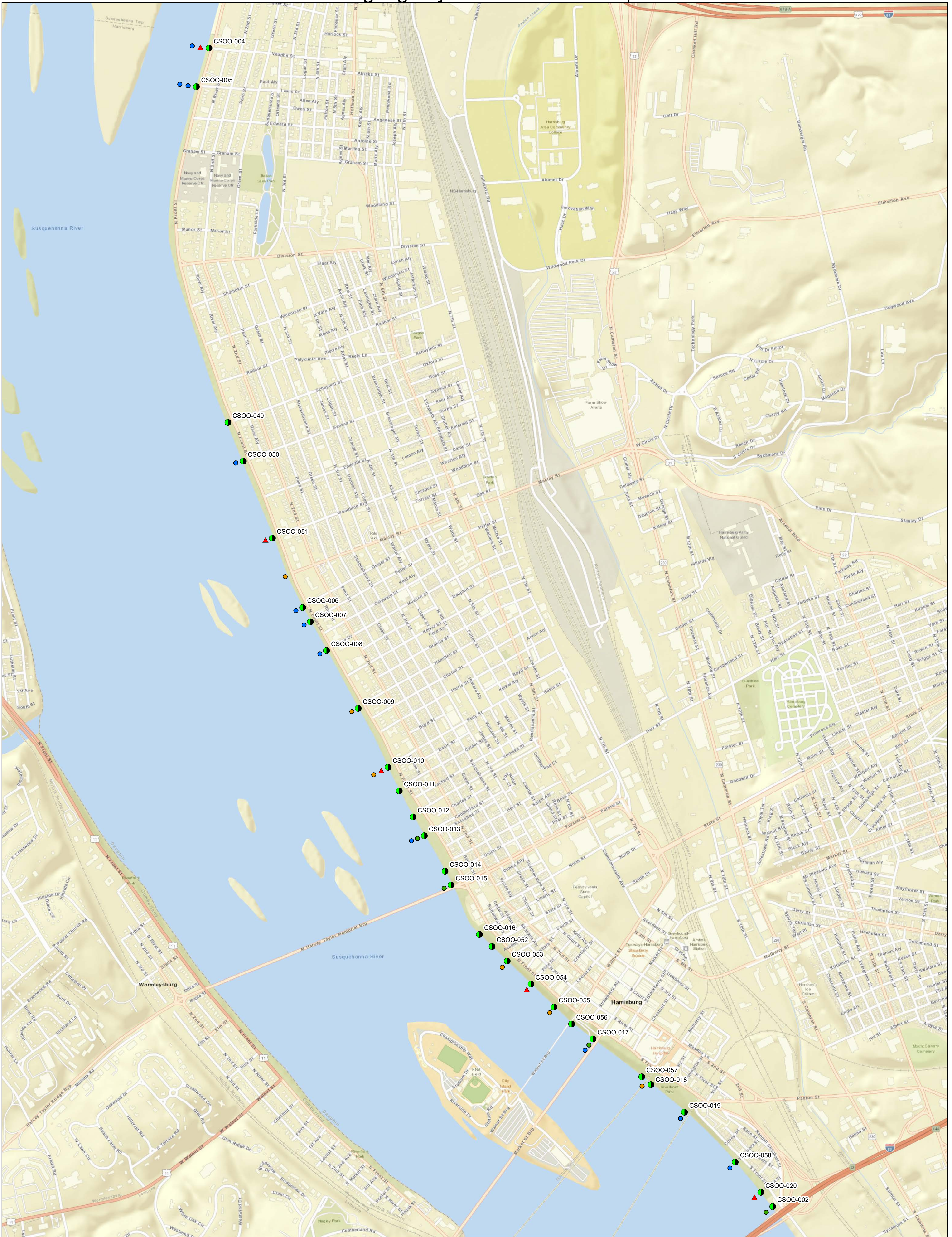


CAPITAL REGION[™]

WATER

Public Notification Signage by CSO Outfall - Susquehanna River

Public Notification Signage by CSO Outfall – Susquehanna River



Legend

- CSO Outfall
- ▲ CSO Activity Monitoring Site
- 18 x 24 Public Notice
- 36 x 36 Warning Sign
- 60 x 36 Educational Sign

A 9 x 6 Warning Placard and CSO outfall identification placard are posted at each outfall location.

Points plotted on this map do not necessarily represent the exact geographic locations of combined sewer overflow signs along Capital Region Water's system in Susquehanna River.

However, points are intended to provide clarity on the number of related signs posted along the waterway.

0 700 1,400 2,800 Feet

1 inch equals 700 feet



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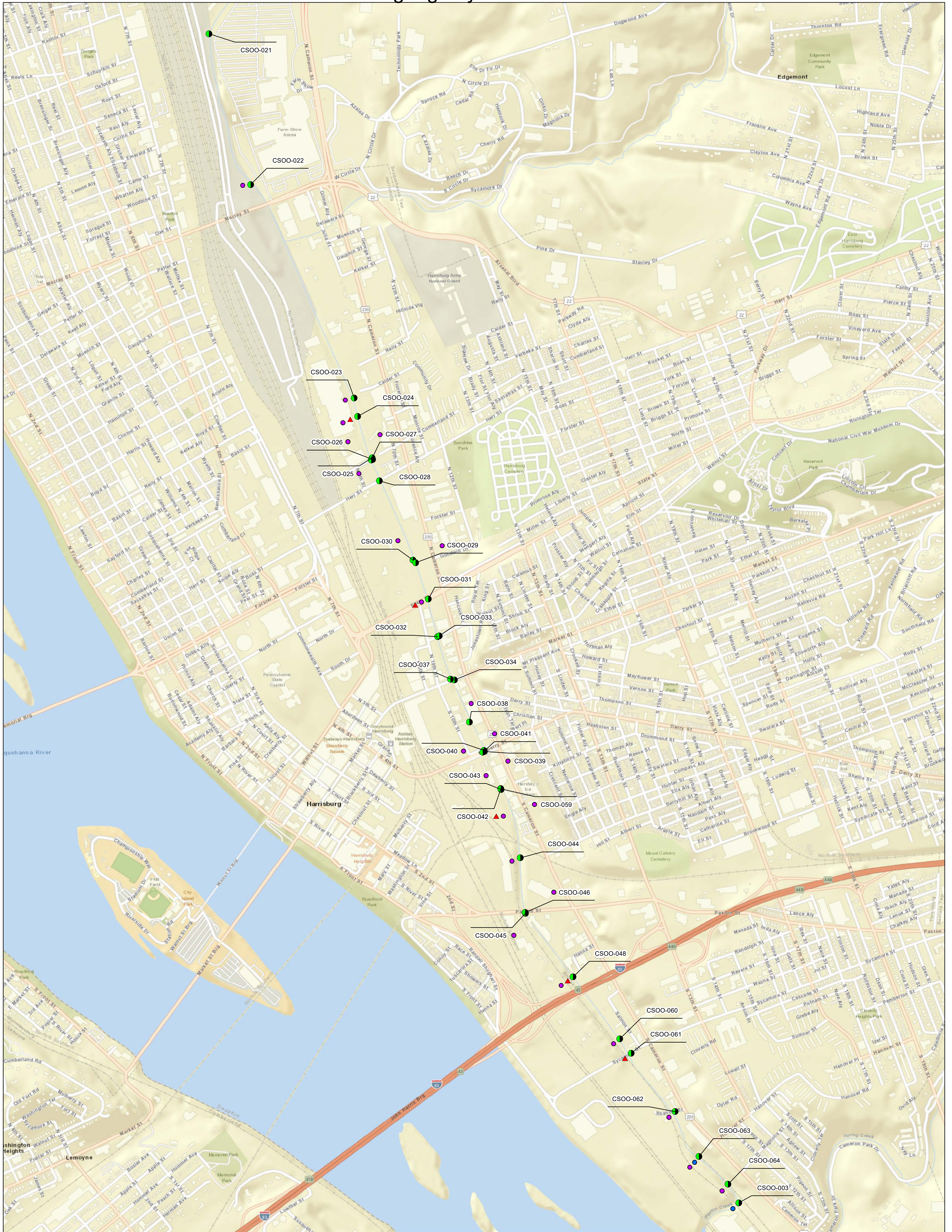


CAPITAL REGION™

WATER

Public Notification Signage by CSO Outfall - Paxton Creek

Public Notification Signage by CSO Outfall – Paxton Creek



Legend

- CSO Outfall
- ▲ CSO Activity Monitoring Site
- 18 x 24 Warning Notice
- 36 x 36 Warning Sign

A 9 x 6 Warning Placard and CSO outfall identification placard are posted at each outfall location.

Points plotted on this map do not necessarily represent the exact geographic locations of combined sewer overflow signs along Capital Region Water's system in Paxton Creek.

However, points are intended to provide clarity on the number of related signs posted along the waterway.

0 620 1,240 2,480 Feet

1 inch equals 620 feet



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CAPITAL REGION™

WATER

Public Notification Templates

Notification Templates for Everbridge:

There are seven templates available for use to ensure that the Everbridge CSO audio bulletin (i.e., hotline) is updated every day. Similar templates will be deployed for subscription notifications. Each template includes a description of its application for use as well as a completed example as it should appear for publishing. The highlighted text represents the information that must be updated.

The daily update to the Everbridge notification system is completed after the daily inspection of the CSO regulator structures.

Template language and notifications are subject to change.

1 - No CSO Observed; No CSO activity observed within the last 24 hours

Notification Template:

Thank you for your interest in Capital Region Water's Combined Sewer System.

As of **weekday, month day** at **_: _ AM**, there were no active combined sewer overflows observed within the last 24 hours. This status will not change until a combined sewer overflow is observed.

Example:

Thank you for your interest in Capital Region Water's Combined Sewer System.

*As of **Friday, May 7** at **9:30 AM**, there were no active combined sewer overflows observed within the last 24 hours. This status will not change until a combined sewer overflow is observed.*

2 - Single Active CSO Observed; A single active CSO has been observed

Notification Template:

Thank you for your interest in Capital Region Water's Combined Sewer System.

A single active combined sewer overflow was observed on **weekday, month, day** at **_: _ AM** at outfall number **4** near the cross streets of **_____ & _____** along the **waterway**.

Avoid contact with waterways when there are active combined sewer overflows.

Example:

Thank you for calling Capital Region Water's Combined Sewer Overflow hotline.

*A combined sewer overflow was observed on **Friday, May 7** at **9:30 AM** at outfall number **4** near the cross streets of **Front & Vaughn** along the **Susquehanna River**.*

Avoid contact with waterways when there are active combined sewer overflows.

3 - Single Non-Active CSO Observed; A single CSO has been observed within the last 24 hours but is not active

Notification Template:

Thank you for your interest in Capital Region Water's Combined Sewer System.

A combined sewer overflow occurred within the last 24 hours before **weekday, month, day** at **_: _ AM** at outfall number **█** near the cross streets of **█ & █** along the **waterway** but is not active.

Avoid contact with waterways when there are active combined sewer overflows.

Example:

Thank you for calling Capital Region Water's Combined Sewer Overflow hotline.

*A combined sewer overflow occurred within the last 24 hours before **Friday, May 7** at **9:30 AM** at outfall number **4** near the cross streets of **Front & Vaughn** along the **Susquehanna River** but is not active.*

Avoid contact with waterways when there are active combined sewer overflows.

4 - Multiple Active CSOs Observed; Two or more active CSOs have been observed*

Notification Template:

Thank you for your interest in Capital Region Water's Combined Sewer System.

Active combined sewer overflows were observed on **weekday, month, day** at **_: _ AM**, between outfall number **█** near the upstream cross streets of **█ & █** and outfall number **█** near the downstream cross streets of **█ & █** along the Susquehanna River. Also, at outfall numbers **█ & █** near the cross streets of **█ & █** and the cross streets **█ & █** along the Paxton Creek.

Avoid contact with waterways when there are active combined sewer overflows.

Example:

Thank you for calling Capital Region Water's combined sewer overflow hotline.

*Active combined sewer overflows were observed on **Friday, May 7** at **9:30 AM** between outfall number **4** near the upstream cross streets of **Front & Vaughn** and outfall number **17** near the downstream cross streets of **Front & Market** along the Susquehanna River. Also, at outfall **numbers 23 & 37** near the cross streets of **Cameron & Calder** and cross streets **Tenth & Market** streets along the Paxton Creek.*

Avoid contact with waterways when there are active combined sewer overflows.

*** Please Note:** If CSOs have only been observed along either the Susquehanna or the Paxton Creek, any additional text may need to be deleted.

5 - Multiple Non-Active CSOs Observed; Two or more CSOs have been observed within the past 24 hours but are not active*

Notification Template:

Thank you for your interest in Capital Region Water's Combined Sewer System.

Combined sewer overflows occurred within the last 24 hours before **weekday, month, day** at **: _ AM**, between outfall number **_** near the upstream cross streets of **_____ & _____** and outfall number **_** near the downstream cross streets of **_____ & _____** along the Susquehanna River, but are not active. Also, at outfall numbers **__ & __** near the cross streets **_____ & _____** and the cross streets **_____ & _____** along the Paxton Creek, but are not active.

Avoid contact with waterways when there are active combined sewer overflows.

Example:

Thank you for calling Capital Region Water's combined sewer overflow hotline.

*Combined sewer overflows occurred within the last 24 hours before **Friday, June 4 at 8:45 AM**, between outfall number **11** near the upstream cross streets of **Front & Calder** and outfall number **14** near the downstream cross streets of **Front & Boas** along the Susquehanna River, but are not active. Also, at outfall numbers **60 & 61** near the cross streets of **Salmon & Cameron** and the cross streets **10th & Sycamore** along the **Paxton Creek**, but are not active.*

Avoid contact with waterways when there are active combined sewer overflows.

*** Please Note:** If CSOs have only been observed along either the Susquehanna or the Paxton Creek, any additional text may need to be deleted.

6 - Active and Non-Active CSOs Observed; CSOs have been observed within the last 24 hours but are not active and there is at least one active CSO

Notification Template:

Thank you for your interest in Capital Region Water's Combined Sewer System.

Combined sewer overflows occurred within the last 24 hours before **weekday, month, day** at **: _ AM**, at outfall number **_** near the cross streets of **_____ & _____** along the Susquehanna River and at outfall number **_** near **_____ & _____** streets along the Paxton Creek but are not active.

An active combined sewer overflow was observed on **weekday, month, day** at **: _ AM** at outfall number **_** near the cross streets of **_____ & _____** along the **waterway**.

Avoid contact with waterways when there are active combined sewer overflows.

Example:

Thank you for calling Capital Region Water's combined sewer overflow hotline.

*Combined sewer overflows occurred within the last 24 hours before, **Friday, June 4 at 8:45 AM**, at outfall number **13** the cross streets **Front & Cumberland** along the Susquehanna River and at outfall number **40** near **N. Mulberry & Cameron** streets along the Paxton Creek but are not active.*

*An active combined sewer overflow was observed on **Friday, June 4 at 9:30 AM**, at outfall number **28** near the cross streets of **9th & Herr** along the **Paxton Creek**.*

Avoid contact with waterways when there are active combined sewer overflows.

7 - Unauthorized Release; Dry Weather Overflow or unauthorized discharge

Notification Template:

Thank you for your interest in Capital Region Water's Combined Sewer System.

An unauthorized combined sewer discharge occurred within the last 24 hours before **weekday, month, day** at **__: __ AM** at outfall number **__** near the cross streets of **_____ & _____** along the **waterway**.

Avoid contact with waterways when there is an unauthorized sewer discharge.

Example:

Thank you for calling Capital Region Water's combined sewer overflow hotline.

*An unauthorized sewer overflow was observed on **Monday, June 7 at 9:30 AM** at outfall number **56** near the cross streets of **Front & Walnut** along the **Susquehanna River**.*

Avoid contact with waterways when there is an unauthorized sewer discharge.



What's on Tap, Monthly Newsletter for Capital Region Water, May 2023

What's on Tap

Monthly Newsletter for Capital Region Water Customers and Stakeholders



WHAT IS A COMBINED SEWER AND WHY DOES IT OVERFLOW?

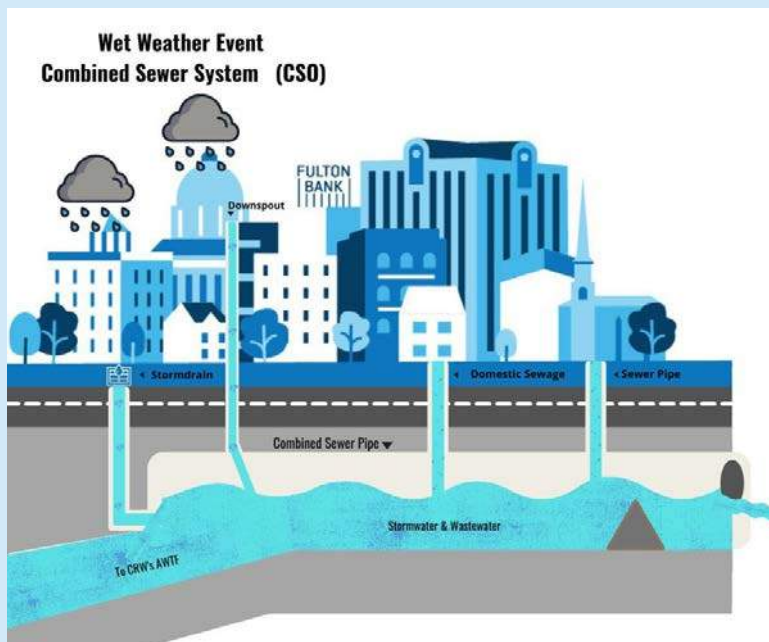
About 60 percent of Capital Region Water’s sewer system is combined, meaning it carries a combination of wastewater and stormwater in the same pipes. Under normal circumstances, that mixture is conveyed to CRW’s Advanced Wastewater Treatment Facility. However, during wet weather, the volume of stormwater flowing into inlets and drains can sometimes exceed the system’s capacity. The increased flow then triggers a combined sewer overflow, commonly called a CSO, discharging the untreated mixture of stormwater and wastewater through outfalls directly into the Susquehanna River and Paxton Creek. CRW’s system has a total of 58 outfalls.

The combined system and its outfalls predate CRW (formed in 2013) by many decades, dating back to a time when combined pipes were common in sewer design. In fact, about 800 U.S. cities have combined systems.

WHAT IS THE PROBLEM WITH COMBINED SEWERS, AND WHAT IS THE SOLUTION?

Now, we know that CSO discharge can be harmful, threatening public health and polluting local waterways, as well as those downstream. For those reasons, Capital Region Water is committed to reducing CSOs and has been making system improvements to achieve that goal. CRW also is required to capture and control CSOs by law and through a legal agreement with state and federal regulators called a Partial Consent Decree.

Earlier this year, CRW submitted an update to that agreement, planning to implement \$200 million worth of system improvements over the next decade to drastically increase CSO capture. The plan, called City Beautiful H2O, includes traditional sewer upgrades and repairs, as well as the increased implementation of green infrastructure — engineered combinations of plants and detention infrastructure that capture and slow the release of stormwater into the combined system. CRW will continue to work with state and federal regulators to meet water quality targets.



WHERE ARE THE CSO OUTFALLS?

Warning signs have been posted at CSO outfall locations along the Susquehanna River and Paxton Creek as part of a public notification strategy stipulated by CRW’s agreement with regulators. The purpose of the signs is to alert members of the public to avoid contact with water near or downstream of outfalls during and immediately after wet weather events. CRW is in the process of developing a plan to install additional signs along the river with hopes of further educating the public about CSOs.



Qué hay en Tap

Capital Region Water Boletín mensual para clientes y partes interesadas



¿QUÉ ES UNA ALCANTARILLA COMBINADA Y POR QUÉ SE DESBORDA?

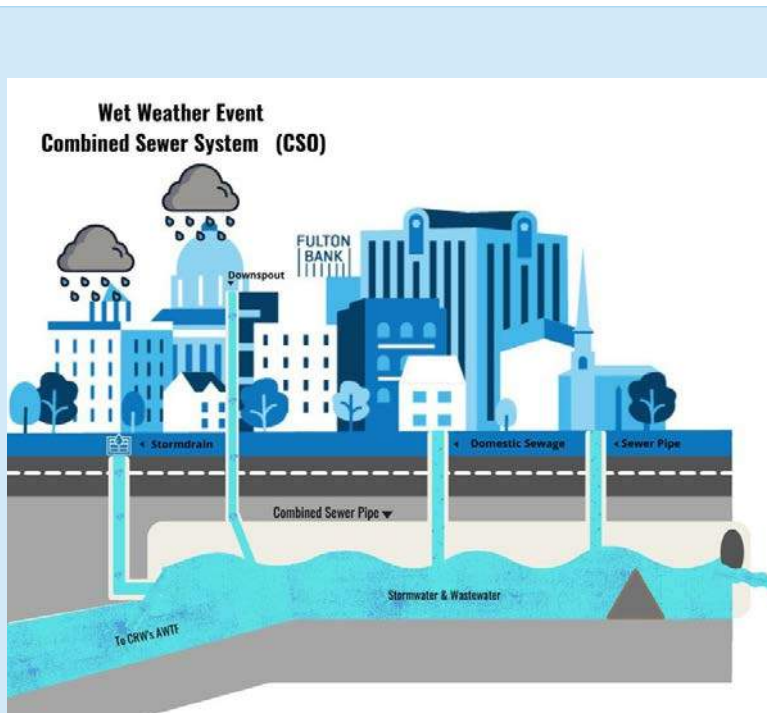
Alrededor del 60 por ciento del sistema de alcantarillado de Capital Region Water está combinado, lo que significa que transporta una combinación de aguas residuales y aguas pluviales en las mismas tuberías. En circunstancias normales, esa mezcla se transporta a la Instalación de Tratamiento de Agua Avanzada de CRW. Sin embargo, durante el clima lluvioso, el volumen de aguas pluviales que fluyen hacia las entradas y desagües a veces puede exceder la capacidad del sistema. El aumento del flujo luego desencadena un desbordamiento combinado de alcantarillado, comúnmente llamado CSO, descargando la mezcla no tratada de aguas pluviales y aguas residuales a través de los desagües directamente en el río Susquehanna y riachuelo Paxton. El sistema de CRW tiene un total de 58 desaguadero.

El sistema combinado y su desaguadero son anteriores a CRW (fundada en 2013) por muchas décadas, que se remonta a una época en que las tuberías combinadas eran comunes en el diseño de alcantarillado. De hecho, alrededor de 800 ciudades estadounidenses tienen sistemas combinados.

¿QUÉ ES EL PROBLEMA CON ALCANTARILLADO COMBINADO Y CUAL ES LA SOLUCIÓN?

Ahora, sabemos que la descarga de CSO puede ser dañina, amenazar la salud pública y contaminar las vías fluviales locales, así como el río más abajo. Por esas razones, Capital Region Water se compromete a reducir el CSO y ha estado realizando mejoramientos en el sistema para lograr ese objetivo. CRW también está obligado a capturar y controlar el CSO por ley y a través de un acuerdo legal con los reguladores estatales y federales llamado Decreto de Consentimiento Parcial (Partial Consent Decree).

A principios de este año, CRW presentó una actualización de ese acuerdo, planeando implementar mejoras del sistema por valor de \$ 200 millones durante la próxima década para aumentar drásticamente la captura de CSO. El plan, llamado City Beautiful H2O, incluye mejoras y reparaciones tradicionales de alcantarillado, así como una mayor implementación de infraestructura verde: combinaciones de ingeniería de plantas e infraestructura de detención que capturan y ralentizan la liberación de aguas pluviales en el sistema combinado. CRW continuará trabajando con los reguladores estatales y federales para cumplir con los objetivos de calidad del agua.



¿DÓNDE ESTÁN LOS DESAGÜES DEL CSO?

Se han colocado señales de advertencia en los desagües de CSO a lo largo del río Susquehanna y riachuelo Paxton como parte de una estrategia de notificación pública estipulada por el acuerdo de CRW con los reguladores. El propósito de las señales es alertar a los miembros del público para evitar el contacto con el agua cerca o aguas abajo de los desagües durante e inmediatamente después de los eventos de clima lluviosos. CRW está en el proceso de desarrollar un plan para instalar letreros adicionales a lo largo del río con la esperanza de educar aún más al público sobre el CSO.



Appendix Q



September 22, 2023

Via Email:

DOJ EES Case Management Unit, eescdcopy.enrd@usdoj.gov
USEPA Chief, NPDES Section (3ED32), Steve Maslowski - Maslowski.Steven@epa.gov
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PADEP Environmental Program Manager, Summer Kunkel - sukunkel@pa.gov
CRW CEO, Charlotte Katzenmoyer - Charlotte.Katzenmoyer@capitalregionwater.com
CRW Counsel, Frederic P. Andes - Fredric.Andes@btlaw.com
City of Harrisburg, Mayor - mayor@harrisburgpa.gov

RE: DJ# 90-5-1-1-10157 - Civil Action No. 1:15-cv-00291-CCC: Sensitive Areas Report

To Plaintiffs, Civil Action No. 1:15-cv-00291-CCC,

Capital Region Water (CRW) is required to submit to a list of deadlines under Paragraph V(D)(18) of the Modification to partial Consent Decree(MPCD) lodged February 13, 2023:

18. *Sensitive Areas/Priority Areas. Within thirty (30) Days of the Effective Date, CRW shall submit to Plaintiffs for review and approval in accordance with the requirements of Section VI (Review and Approval of Deliverables) a report or technical memorandum that addresses the topics of Sensitive Areas/Priority Areas in the Harrisburg Receiving Waters. CRW shall carry out adequate and appropriate investigation of each type of Sensitive Area, including inquiries of appropriate state and federal agencies, and shall include detailed documentation of those efforts.*

Please see the enclosed PDF of the Sensitive Areas Report for your review.

Please contact me directly to discuss any questions or concerns you may have.

Sincerely yours,

A handwritten signature in blue ink that reads "Claire Maulhardt". The signature is written in a cursive style.

Claire Maulhardt, PLA
City Beautiful H2O Program Manager
717-216-5269



Introduction

Capital Region Water (CRW) is required to perform a review of the Sensitive Areas/Priority Areas in the Harrisburg Receiving Waters under Paragraph V(D)(18) of the Modification to Partial Consent Decree (MPCD) lodged August 25, 2023:

18. Sensitive Areas/Priority Areas. Within thirty (30) Days of the Effective Date, CRW shall submit to Plaintiffs for review and approval in accordance with the requirements of Section VI (Review and Approval of Deliverables) a report or technical memorandum that addresses the topics of Sensitive Areas/Priority Areas in the Harrisburg Receiving Waters. CRW shall carry out adequate and appropriate investigation of each type of Sensitive Area, including inquiries of appropriate state and federal agencies, and shall include detailed documentation of those efforts.

The MPCD defines Sensitive Areas as follows: *“Sensitive Areas” shall mean those areas designated by PADEP, in coordination with state and federal agencies, as appropriate, Outstanding National Resource Waters, National Marine Sanctuaries, waters with threatened or endangered species and their habitat, waters with primary contact recreation, public drinking water intakes or their designated protection areas, and shellfish beds, as set forth in Section II.C.3. of the CSO Policy.*

This letter report is CRW's review of Sensitive Areas/Priority Areas in the Harrisburg Receiving Waters, in fulfillment of Paragraph V(D)(18).

Overview of CRW Combined Sewer System, Outfall Locations, and Receiving Waters

Capital Region Water owns and operates 58 permitted CSO outfalls which discharge combined stormwater and wastewater to the Susquehanna River or Paxton Creek (tributary of Susquehanna River). In addition, two emergency outfalls are located at the Front Street Pumping Station and Spring Creek Pumping Station. Of these 60 total CSO outfalls, 28 outfalls discharge to the Susquehanna River and 32 outfalls discharge to Paxton Creek. **Figure 1** shows the location of each outfall.

In the Susquehanna River, the outfall furthest upstream is located near Vaughn Street and the furthest downstream outfall is at the Front Street Pumping Station located near the Interstate 83 bridge, approximately 4,400 feet upstream of the mouth of Paxton Creek. Overall, the outfalls span approximately 21,000 feet of the eastern bank of the Susquehanna River.

In Paxton Creek, the outfall furthest upstream is on the west bank of the creek south of Elmerton Avenue off Industrial Road and the outfall furthest downstream is on the east bank of the creek near the Spring Creek Pumping Station just upstream of the Paxton Creek confluence with the River. The Paxton-Susquehanna confluence is approximately 5,600 feet upstream of the Steelton intake.

Overall, the outfalls span approximately 19,000 feet of Paxton Creek. CRW is participating in proposed efforts to naturalize the Paxton Creek channel and corridor through the Paxton Creek Greenway Partnership. CRW intends to take the opportunity to build a new interceptor to replace the existing hundred-plus-year-old interceptor and to address CSO outfalls in conjunction with the stream naturalization project.

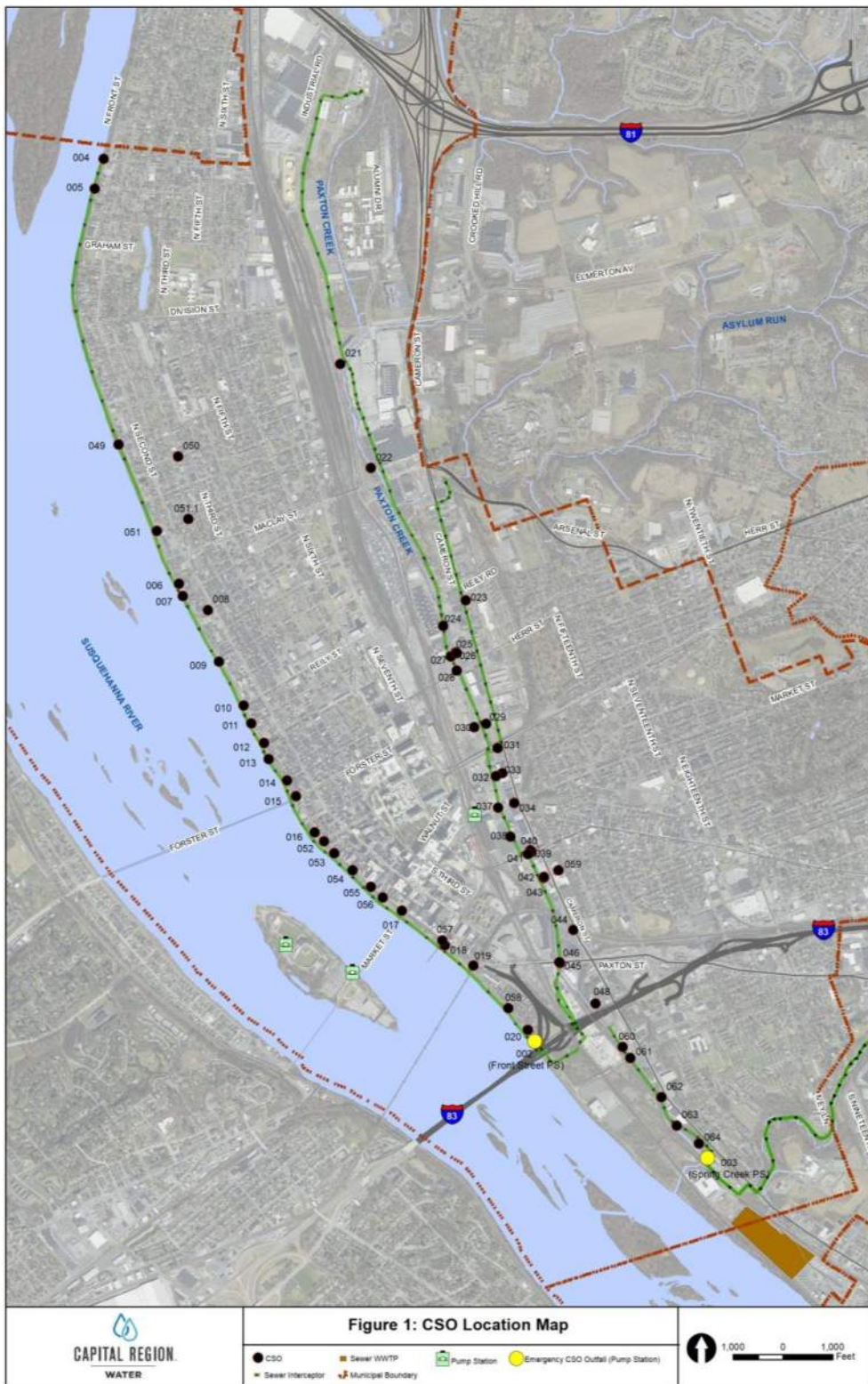


Figure 1. Locations of the Combined Sewer Overflow Outfalls

Chapter 93 of the Pennsylvania Code defines designated uses of the Waters of the Commonwealth, which are listed for Paxton Creek and the Susquehanna River below:

- Aquatic Life: Warm Water Fishes, Migratory Fishes
- Water Supply: Potable, Industrial, Livestock, Wildlife, Irrigation
- Recreation: Boating, Fishing, Water Contact Sports, Esthetics

Outstanding National Resource Waters

Neither of the two receiving waters, the Susquehanna River and Paxton Creek, is designated as an Outstanding National Resource Water.

National Marine Sanctuary

Neither of the two receiving waters, the Susquehanna River or Paxton Creek, is designated as a National Marine Sanctuary.

Public Water Intakes

The primary source of drinking water for CRW's water system is the William T. DeHart Dam and Reservoir located 20 miles northeast of the city in the Clarks Valley watershed. The Susquehanna River provides CRW with backup water supply and is currently only in use in cases of severe drought or other emergency and routine short-term operational exercises that occur in the fall of each year. This water intake is approximately 775 feet downstream of CSO-004 & CSO-005. CRW takes precautions to avoid periods of CSO activity when scheduling the river run for annual operational exercises. If a storm should arise during the river run, we cease the intake operations until the CSO activity has stopped for 24 hours.

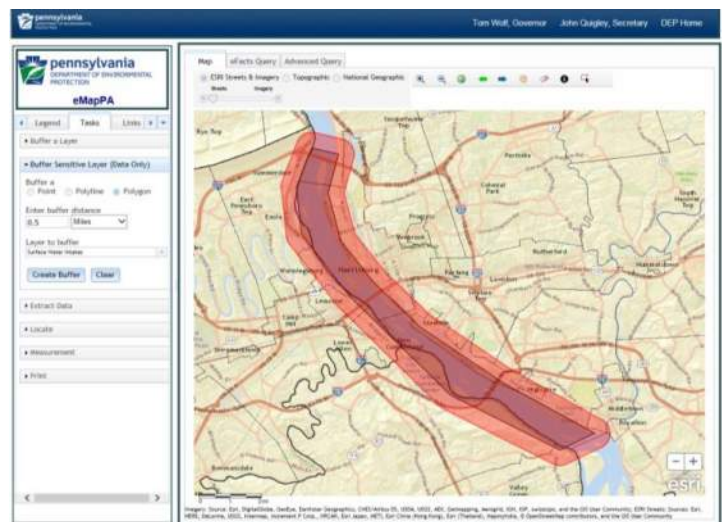


Figure 2. Surface Water Intakes Downstream of Harrisburg. The red area indicates the river area investigated in the eMapPA assessment. (Source: eMapPA)

There are no public water intakes on Paxton Creek. The nearest downstream public water intake in the Susquehanna River is for Steelton Borough. The intake is located approximately 1,150 feet from the eastern shore of the river near Stucker Island. This is approximately 6,000 feet downstream of the nearest CSO outfall (from Paxton Creek). The Pennsylvania Department of Environmental

Protection's (PADEP's) online mapping tool eMapPA was utilized to conduct a surface intake map query of the area shown in **Figure 2**. The Steelton intake was the only viable search result. The intake is located in the center of the channel to avoid potential impacts from any pollutant plume traveling along the shoreline. There are no known impacts to the Steelton intake from CRW's CSO shoreline discharges on the Susquehanna River. The confluence of Paxton Creek and the Susquehanna River is approximately 5,600 feet upstream of the Steelton intake.

Public Access Points/Primary Contact Recreation

A definition of primary contact recreation is provided in EPA's 2012 Recreational Water Quality Criteria (RWQC) document as "*activities where immersion and ingestion are likely and there is a high degree of bodily contact with the water, such as swimming, bathing, surfing, water skiing, tubing, skin diving, water play by children, or similar water-contact activities*" (EPA, 2012). PADEP defines "Water Contact Sports" as "*Use of the water for swimming and related activities*" (25 PA Code § 93.4, see Chapter 93).

The following public access points along the Susquehanna River have been identified:

- **Dock Street Dam Boat Launch:** This boat ramp is located at the Interstate 83 bridge and provides public access for boating, including canoeing and kayaking.
- **City Island Boat Launch:** This boat ramp is located on City Island, which is more than 1,500 feet from the eastern shore where the CSO outfalls are located.
- **City Island Public Beach:** This public park area includes a sloped concrete apron providing access to the Susquehanna River for canoeing and kayaking. The City of Harrisburg does not currently permit swimming and signs are posted prohibiting swimming. The access point is more than 1,500 feet from the eastern shore where the CSO outfalls are located.
- **Riverfront Park/Capital Area Greenbelt:** The Riverfront Park extends from Vaughn Street to Paxton Street along the eastern shore of the river. Concrete steps extend to the waterfront for much of the park, beginning at MacClay Street and extending to the Interstate 83 bridge. The steps are primarily used for fishing and do not readily facilitate entry into the water.

Because of these public access points for recreation, CRW will develop a CSO LTCP implementation schedule, as part of the ongoing Long Term Control Plan (LTCP) development process, that gives higher priority to controlling CSOs to the Susquehanna River. However, CRW would like to clarify that the points of potential (though prohibited by posted signage) primary contact within the Susquehanna River are located on City Island at the public beach. The best available information indicates these locations are not susceptible to discharges from CRW's CSO outfalls due to the shallow depth and high velocity in the Susquehanna River, which limits the extent of lateral mixing of a CSO plume. This limited lateral mixing was evaluated by PADEP, in the agency's 2016 Integrated

Report, and by CRW's predecessor agency, The Harrisburg Authority, in its 2005 LTCP. In the 2005 LTCP, longitudinal transect monitoring and water quality modeling found that nearshore CSO discharges to the Susquehanna do not migrate or disperse far from the shore. Furthermore, the points of use are typically not utilized during wet weather events.

In preparation of its LTCP update, CRW is further evaluating the potential for lateral mixing of the CSO plume. It should be noted there will be other criteria, such as financial capability, construction sequencing considerations, cost-effectiveness, the structural condition of CRW's assets, and susceptibility to river intrusion, that will also be key criteria for properly phasing the recommended system enhancements under the updated plan.

There are no designated public access points along Paxton Creek. The majority of the creek channel within the area of CSO outfalls is a concrete lined channel that makes public access difficult. Furthermore, the flashy nature of the watershed, high creek depths during wet weather flows, and velocities in the concrete channel make Paxton Creek unsafe for public recreation during wet weather events.

Waters with Threatened or Endangered Species

The Pennsylvania Natural Heritage Program's online search tool was utilized to search the subject area. The results are summarized below:

- Wildwood Lake – *American Lotus*: This site is upstream of all CRW outfalls, and therefore this location and species is not considered to be a sensitive area for this analysis.
- City of Harrisburg – *Peregrine Falcon*: The nesting sites are within the City on rooftops, and therefore this location and species is not considered to be a sensitive area for this analysis.
- Susquehanna River – *Seven Species of Concern (four freshwater mussels, toothcup (plant), and two additional species (unnamed))*: The aquatic and riparian habitats among the river's islands support these species of concern. However, the islands are typically more than 1,000 feet from the eastern shore of the river and the best available information indicates that these areas are not directly influenced by the CSO outfalls.

Based upon these findings, there are not any sensitive areas in the Susquehanna River or Paxton Creek due to threatened or endangered species.

Water Quality Summary

For convenience, this section provides a summary of water quality information supporting the analysis of sensitive areas above. As part of the ongoing LTCP update, CRW prepared two technical memoranda and a Water Quality Modeling Plan that reviewed available data on the water quality of the receiving waters. Complete details are available in the December 22, 2014, July 27, 2015, and June 10, 2022, submissions to the regulatory agencies.

- The Susquehanna River in the vicinity of Harrisburg is listed by PADEP as impaired for pH, bacteria, and PCBs. The Susquehanna River pollutants of concern, as listed in the current modification to the MPCD, are bacteria (fecal coliform and *E. coli*), total suspended solids (TSS), nitrogen, and phosphorus.
- In the Susquehanna River, prior analysis by The Harrisburg Authority has indicated that the bacteria plume generated by CRW CSOs remains in the nearshore portion of the river adjacent to the City of Harrisburg and persists in the nearshore area for only a few hours following a CSO event (EPA, 2008).
- Paxton Creek is listed by PADEP as impaired for suspended solids (siltation), dissolved oxygen/biochemical oxygen demand (DO/BOD), bacteria, water/flow variability, and other habitat alterations. Nutrients were identified as a cause of impairment in the total maximum daily load (TMDL) by EPA (2008). However, in the 2010 assessment cycle, PADEP reevaluated water quality monitoring data in Paxton Creek and determined that the previously issued nutrient impairment was in 'error' and no longer supported by data (EPA 2013, pg. 2). This remains the case in the 2022 PADEP Integrated Report, where the DO impairment cause is listed as BOD (PADEP, 2022). Pollutants of concern, as listed in the current modification to the MPCD, are bacteria, DO, TSS, nitrogen, and phosphorus.
- The 2008 TMDL Report for Paxton Creek reported DO sags and attributed them to discharges from the combined sewer system. DO grab samples were collected periodically by the Susquehanna River Basin Commission (SRBC) at three locations between 1985 and 2015 (n = 56), with most of the data collected between 2006 and 2015. Additional DO data were collected by PADEP in 2006 associated with the TMDL, including continuous DO metering. The continuous DO meter was deployed in the vicinity of Shanois Street, near the historical USGS monitoring station (USGS 01571090, Paxton Creek at Harrisburg, PA) (CRW, 2023). PADEP conducted continuous DO metering between five and six stations such as PS0 (upstream of Wildwood Lake - range: 3.93 – 5.99 mg/L), and PC03 (before feeding into Susquehanna River - range: 1.77 – 4.96 mg/L), over three days in May, August, and September 2006 (EPA, 2008).
- The 2008 Paxton Creek TMDL Report indicates that sediment is the primary pollutant of concern in Paxton Creek. The sediment impairments in Paxton Creek are primarily caused by mobilization and deposition of stream channel materials, which in turn are caused by friction and high velocities resulting from urban wet weather discharges.

Flow Characteristics along the Susquehanna River

The Susquehanna River is wide (nearly a mile across near Harrisburg), but shallow due to the influence of the low head Dock Street Dam. Therefore, vertical mixing can be assumed to be rapid, and lateral mixing relatively slow. The 2-dimensional RMA water quality modeling completed by The Harrisburg Authority in 2005 to support its Combined Sewer Overflow Management and Control

Program Act 537 Plan Update Revision/Long Term Control Plan indicated that the CSO plume remains along the eastern shore through the Dock Street Dam and does not impact City Island (Figure 3). The lateral mixing extent observed in the 2005 modeling concurs with DEP's observations.

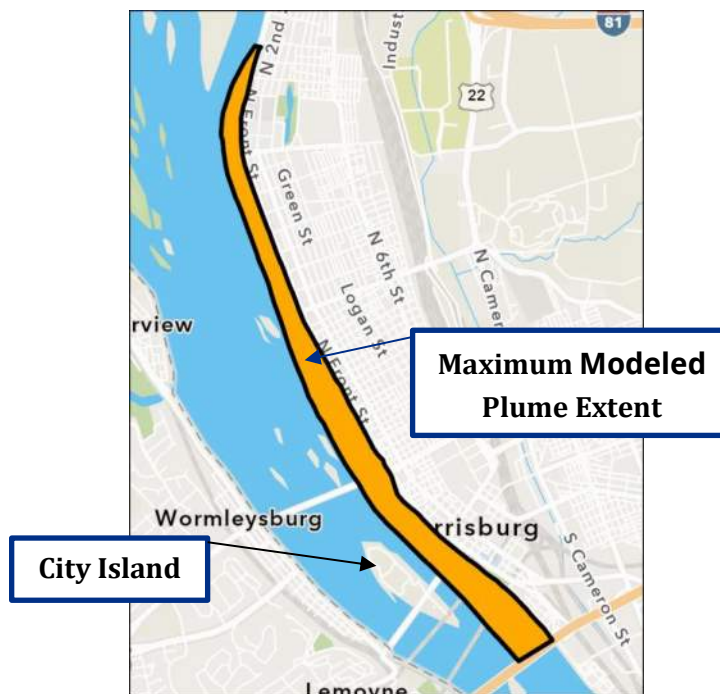


Figure 3. Maximum Extent of Fecal Coliform Plume Adapted from Harrisburg CSO Discharges from The Harrisburg Authority's Combined Sewer Overflow Management and Control Program Act 537 Plan Update Revision/Long Term Control Plan Water Quality Model Report

A prior study by PADEP (2016) also indicated that lateral mixing is minimal in the Susquehanna River between the confluence of the Juniata River and Marietta. PADEP collected conductivity data at transects along the Lower Susquehanna River and major tributaries to evaluate lateral mixing, including transects on the Susquehanna River near Harrisburg (Rockville, City Island, Route 83 downstream of the dam, and Marietta). PADEP's reports indicate that little lateral mixing occurs across the Susquehanna River, with inputs from the Juniata River, the West Branch Susquehanna River, and mainstem Susquehanna River, and smaller tributaries. PADEP describes five distinct flow regimes through the Harrisburg reach of the Susquehanna River. This is demonstrated graphically in **Figure 4**, reproduced from the 2016 DEP *Integrated Report* (PADEP, 2016), which summarizes PADEP's analysis based on data collected at a transect located at Rockville.

Approximate delineation of distinct water quality differences on the Susquehanna River at Rockville, PA.



Figure 4. Approximate Extent of Lateral Mixing in the Susquehanna River at Rockville (PADEP, 2016)

Flow Characteristics along Paxton Creek

To provide flood control, the quantity of Paxton Creek flow allowed to be conveyed through the City of Harrisburg is regulated by the Wildwood Lake outlet structure. It is a Morning Glory spillway, which consists of a one square foot low flow control orifice and a 20 square foot high flow orifice. When wet weather flow exceeds the capacity of the morning glory outlet control, it backs up into Wildwood Lake and is diverted to the Susquehanna River via a flood control outlet located at the northern end of the lake.

The Paxton Creek channel is narrow, shallow, vertically and laterally well-mixed. The channel is concrete lined for much of its length to reduce friction and to provide additional flood conveyance. The channel is not safe or appropriate for public recreation. Base flows are minimal because of the morning glory outlet structure, and the channel is hydraulically disconnected from the overbanks.

Conclusions

The analysis presented above does not support designation of Sensitive Areas within CRW's combined sewer overflow receiving waters.

CRW intends to develop a CSO LTCP implementation schedule that, among other criteria, gives higher priority to controlling CSOs to the Susquehanna River.

While completing its LTCP update, CRW will evaluate whether there are any outfalls along the receiving waters that would require more attention than others in evaluating control options. CRW is continuing to develop the updated plan, which will include evaluating possibilities to consolidate and eliminate individual outfalls.

References

Capital Region Water (CRW) (2023). Water Quality Modeling Plan.

Environmental Protection Agency (EPA) (2008). Nutrient and Sediment Total Maximum Daily Load in Paxton Creek Watershed, Pennsylvania. Prepared by the Louis Berger Group, Inc.

Environmental Protection Agency (EPA) (2012). Recreational Water Quality Criteria.

Environmental Protection Agency (EPA) (2013). Decision Rationale for the Withdrawal of the Nutrient TMDLs for the Paxton Creek Watershed, Pennsylvania.

The Harrisburg Authority (THA). 2005. Act 537 Plan Update Revision/Long-Term Control Plan. Attachment K: Susquehanna River Fecal Coliform Technical Memorandum.

PADEP (2016). Integrated Water Quality Report.

PADEP (2022). Integrated Water Quality Report.

Pennsylvania Code (2023). 25 PA. Chapter 93. Water Quality Standards.