

City of Baltimore
Department of Public Works

**Modified Consent Decree
Calendar Quarterly Report**

Sanitary Sewer Overflow Consent Decree
Civil Action No. JFM-02-1524

Calendar Quarterly Report No. 6
For Calendar Quarter ending March 31, 2019



BERNARD C. "JACK" YOUNG
EX OFFICIO MAYOR

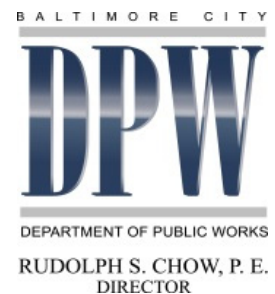


Table of Contents

1.0	Executive Summary	1
2.0	Sanitary Sewer Overflows	3
2.1	SSO Structures	3
2.2	Building Backups	6
3.0	Phase I Projects	7
4.0	Phase II Projects	10
5.0	Flow Monitoring and Information Management	11
6.0	Pumping Station Inspection and Repair	12
7.0	Illegal Connections to the Collection System	13
8.0	Sanitary Discharges of Unknown Origin	14
9.0	MCD Compliance Issues	15
10.0	Annual Costs for Appendix B Projects	16

List of Tables

Table 2-1.	Current SSO Structure Status	4
Table 2-2.	Expedited Reimbursement Program	6
Table 3-1.	Back River WWTP Headworks Milestones.....	8
Table 5-1.	Rainfall and Flow Monitoring	11
Table 6-1.	Pumping Station Progress Report for Calendar Quarter	12
Table 7-1.	Illegal Connection Status for Calendar Quarter.....	13
Table 10-1.	Costs Incurred to Date	16

List of Figures

Figure 3-1.	Phase I Project Work Completed during Calendar Quarter.....	9
-------------	---	---

List of Attachments

Attachment 1. Collection System SSO Events during the Calendar Quarter	20
Attachment 2. Engineered SSO Structure Overflows during the Calendar Quarter	26
Attachment 3. Reported Building Backups during the Calendar Quarter	27
Attachment 4. Map of Reported Building Backups during the Calendar Quarter	27
Attachment 5. Sanitary Discharges of Unknown Origin	77

1.0 Executive Summary

This Calendar Quarterly Report (Quarterly Report) is submitted pursuant to the requirements of a Modified Consent Decree (MCD) entered on October 6, 2017 by the United States District Court for the District of Maryland. This Quarterly Report is intended to provide an update on the progress of remedial measures and programs required by the MCD. The primary requirements for the Quarterly Report are specified in Paragraph 21 of the MCD. Baltimore City (City) has maintained compliance with the MCD throughout the Calendar Quarter, and progress on key MCD paragraphs is provided below. This Quarterly Report details the City's efforts for the Calendar Quarter ending March 31, 2019.

In addition to the information provided throughout this Quarterly Report, the attachments that follow detail SSO events, Building Backups, and Sanitary Discharges of Unknown Origin (SDUO) that occurred during the Calendar Quarter. A compact disk with flow monitoring data, rain gauge data, SSO overflow tables, and SSO 5-Day Reports will accompany this report.

Paragraph 8: Elimination of Sanitary Sewer Overflow Discharges:

The City has identified 15 Sanitary Sewer Overflow (SSO) Structures, following the initial listing of SSO Structures in the 2002 Consent Decree, and five (5) of those Structures have been eliminated. The City has also submitted corrective action plans for the newly discovered SSO Structures. Flow monitoring is ongoing and rainfall data continues to be collected from nine (9) citywide gauges to inform the planning for timely elimination of the remaining SSO Structures. The City has proposed new plans for elimination of SSO Structures #152 & #154.

Paragraph 9: Implementation of Sewershed Plans:

The City continues to progress with the design and construction of the Phase I projects during this Calendar Quarter. In total, the City has completed twenty-three (23) Phase I construction projects, with another five (5) projects in the pre-construction phase, and eleven (11) active Phase I construction projects. In addition, the Back River Wastewater Treatment Plant (WWTP) Headworks Project received Notice to Proceed (NTP) on June 29, 2017 and is progressing with concrete foundations and wall pours at the Influent Pumping Station, in conjunction with process mechanical installation.

Building Backups

During this Calendar Quarter, the City has utilized its electronic system to process applications for the Expedited Reimbursement Program. In accordance with Appendix E of the MCD, the program began in April 2018 and has processed over 70 applications since it began.

A reporting of Building Backups for the Calendar Quarter is included in Attachment 3. In order to address these issues proactively, the City will continue to implement ongoing measures for the Collection System to address grit/debris, fats/oils/grease, roots, and illegal connections through inspection, cleaning, education, and enforcement.

2.0 Sanitary Sewer Overflows

Sanitary Sewer Overflows (SSOs) are spills, releases, or discharges of wastewater from any portion of the Collection System. Unless discharged from an approved outfall in accordance with an NPDES permit, these discharges are violations of the Clean Water Act. The City reports SSOs per the requirements of the MCD, and accrues stipulated civil penalties in accordance with Paragraph 33 of the MCD. Attachment 1 lists the SSOs that occurred during the Calendar Quarter.

2.1 SSO Structures

Historically, many utilities, including Baltimore City, managed high sewage flows by constructing SSO Structures that provided relief to interceptor sewers by discharging excessive flows to adjacent receiving waters through overflow pipes. As such, SSOs often occur during wet weather (rainfall or snow melt). The excess water from these wet weather events may enter the Collection System from public or private assets and cause overflows into rivers and streams before reaching the City's wastewater treatment plants. Prior to the Clean Water Act, the approach for designing sewer systems was to place these SSO Structures at various locations within the system for these discharges to occur. Under sub-paragraph 8.b of the MCD, the City must eliminate all SSO Structures. To date, the City has eliminated 60 out of 62 SSO Structures identified in the 2002 Consent Decree. The remaining SSO Structures identified in the 2002 Consent Decree (#67 and #72) cannot be eliminated until the Back River Wastewater Treatment Plant (WWTP) Headworks Project is constructed. Since 2002, the City has discovered an additional 15 SSO Structures, and eliminated five (5) of those newly identified structures. Under sub-paragraph 8.b (iii) of the MCD, when a new SSO Structure is discovered, the City must submit a plan and schedule to EPA and MDE within 90 days after discovery to eliminate the SSO Structure. SSO Structures are monitored remotely, and any discharges from the Structure are reported to EPA and MDE. The discharges from SSO Structures that occurred during the Calendar Quarter are provided in Attachment 2. Progress on the Back River WWTP Headworks Project is provided in Section 3.0 (Phase I Projects).

Table 2-1 lists the SSO Structures that must be eliminated under the MCD, along with the date of actual elimination for any SSO Structure(s) eliminated during the Calendar Quarter. After verification, newly discovered SSO Structures will be added to Table 2-1. The substantial completion and elimination dates will be assigned to each SSO Structure upon approval by EPA and MDE of the City's proposed corrective action plans. Once an SSO Structure is eliminated, the Structure will be removed from Table 2-1 in the following Calendar Quarterly Report.

Table 2-1. Current SSO Structure Status

SSO #	Manhole ID	Location ¹	Sewershed	Date of Substantial Completion of Construction	Date of Elimination
67	S31MM_013MH	Falls Road, approx. 1,100' northwest of US 1 bridge intersection	Jones Falls	Jan 1, 2021	July 1, 2022
72	S37GG_007MH	Rear of 428 East Preston St.	Jones Falls	Jan 1, 2021	July 1, 2022
135	S11UU_008MH	3104 Liberty Heights Ave.	High Level	Jan 1, 2021	July 1, 2022
137	S57UU_007MH	Shannon Dr. & Brehms La.	Herring Run	Jan 1, 2019	July 1, 2020
138	S07EE 1023MH	W. Cold Spring La. & Ayrdale Ave.	High Level	Jan 1, 2021	July 1, 2022
139	S11QQ 1002MH	W. Garrison Ave. & Queensberry Ave.	High Level	Jan 1, 2021	July 1, 2022
152	S33II_004MH	N. Charles St. & W. Lanvale St.	Jones Falls	Jan 1, 2019	July 1, 2020
154	S33KK_033MH	N. Charles St. & W. Lafayette Ave.	Jones Falls	Jan 1, 2019	July 1, 2020
155	S03WW1008MH	3404 Glen Avenue	Jones Falls	Jan. 1, 2023	July 1, 2024
156	S08G__001MH	Charing Cross Road & Greenwich Avenue	Gwynns Falls	Jan. 1, 2023	July 1, 2024
157	S35YY_036MH	East 32 nd Street & St. Paul/Hargrove Alley	Jones Falls	Jan. 1, 2023	July 1, 2024
158	S37GG_040MH	428 E. Preston St.	Jones Falls	Jan. 1, 2024	July 1, 2025

¹SSO Structure locations are shown on Figure 3-1 in the next section.

(A) - Actual date.

Four (4) recently discovered SSO Structures (#155, #156, #157, and #158, identified on September 13, 2016, June 6, 2017, September 19, 2017, and November 9, 2017 respectively) were not included in Appendix A of the MCD. Flow meters are installed at SSO Structures #155, #156, and #157, and these locations are monitored for overflow activity. SSO Structure #158 is currently part of an active bypass system that prevents any SSOs from occurring until a new downstream pipe is constructed to re-route the existing mainline. In order to expedite this process, the City is moving forward with construction under an existing on-call contract. Once the new downstream pipe is constructed, the City will abandon the existing mainline, including SSO Structure #158. The City proposed corrective plans for SSO Structures #155, #156, #157, which were approved by EPA and MDE on July 25, 2018. The City also submitted a corrective plan for SSO Structure #158, the plan was approved by MDE on November 15, 2018.

Substantial construction work needed to eliminate SSO #137 was completed in January 2017, under sanitary contract SC 911. Post-construction flow monitoring (PCFM) at the subject SSO structure commenced on December 14, 2017, and will be concluded after 18 months, on June 14, 2019. There have been no activations at this SSO structure during the PCFM, and this location will be eliminated or sealed, subsequent to the analysis of the completed PCFM data.

Preliminary corrective work needed to eliminate SSOs #152 and #154 was completed in December 2017. The corrective measures included removal of significant fat, oil and grease (FOG) from the 24" downstream interceptor system that was creating a hydraulic bottle neck, and diminished conveyance capacity. Nonetheless, after compiling and analyzing PCFM data, using the City's hydraulic model, the City has determined that these two SSO structures should not be eliminated until the Back River WWTP Headworks Improvement and Flow equalization Basin Project (SC 918) is completed. SC 918 is scheduled to be completed in January 2021. The City has submitted to EPA and MDE a revised corrective plan and schedule for eliminating SSOs #152 and #154 during this Calendar Quarter.

The City will continue to monitor and evaluate activity at all SSO structures and will continue to keep EPA and MDE advised of progress in future Calendar Quarterly Reports.

2.2 Building Backups

The MCD includes enhanced measures to investigate and address Building Backups. Appendix E of the MCD requires an Expedited Reimbursement Program to reimburse City residents for verified cleanup/disinfection costs arising from Building Backups caused by wet weather surcharging in the Collection System. Data from the program will be reported on an annual basis beginning in the Quarterly Report due following the one-year anniversary of the program. Per Appendix E, the program will begin 6 months after Date of Entry and data will be available in Quarterly Report No.7 for the Calendar Quarter ending June 30, 2019. The City has developed an electronic system and supporting documentation to process applications and correspondence under the Expedited Reimbursement Program.

The Expedited Reimbursement Program will be advertised through various media, including the DPW website, community outreach events, billing inserts, and the guide distributed to customers when the City responds to sewage backups. In accordance with sub-paragraph 16.b, the City will begin distribution of the guide within 30 days after approval of the Emergency Response Plan.

The attachments following this Quarterly Report summarize the required information for Building Backups that occurred in the Calendar Quarter. Table 2-2 will provide the current status of requests under the Expedited Reimbursement Program beginning in Quarterly Report No.7 for the Calendar Quarter ending June 30, 2019. The events noted in the attachments and Table 2-2 may have a variety of causes, including: roots; improper disposal of wipes, fats, oil, and grease (FOG), or other inappropriate items; infiltration and/or inflow; or issues in public or private infrastructure. Building Backups are addressed once they are reported to the City. DPW has several proactive programs to address Building Backups including targeted cleaning, FOG abatement, root control, and SSO root cause analysis. A rain event for the purposes of reporting in Table 2-2 is defined as 0.5 inches of rain.

- Attachment 3, Reported Building Backups during the Calendar Quarter, pursuant to sub-paragraph 21.i.
- Attachment 4, Map of Reported Building Backups during the Calendar Quarter, pursuant to sub-paragraph 21.i.

Table 2-2. Expedited Reimbursement Program

This table not applicable to this Calendar Quarter.

4.0 Phase II Projects

The City is implementing an adaptive management approach for the Modified Consent Decree. Upon completion of the Phase I projects as addressed in Section 3, the City will perform post-construction flow and rainfall monitoring to determine the effectiveness of the Phase I projects. At that point, the City will be able to develop the Phase II projects and/or corrective actions. The Phase II Plan must be submitted to EPA and MDE by December 31, 2022. Specifically, the Phase II Plan must address any remaining deficiencies identified during the sewershed studies performed under the 2002 Consent Decree that are necessary to achieve the required five-year Level of Protection (LOP), with additional measures to achieve a ten-year LOP in identified sensitive areas.

Although no specific Phase II activities were conducted during this Calendar Quarter, the City is planning to perform post-construction flow monitoring (PCFM) at select basins and evaluate data to enable accurate planning for Phase II. Accordingly, a PCFM strategic plan has been prepared to validate assumptions regarding the effectiveness of sewer rehabilitation projects following Phase I construction completion. An early installation of PCFM meters have been deployed during this Calendar Quarter in the Dundalk sewershed where comprehensive rehabilitation work under Phase I has been completed.

5.0 Flow Monitoring and Information Management

Under sub-paragraph 9.h., the City is required to report on rainfall and flow monitoring up to two (2) years following completion of all Phase I and Phase II Projects.

Table 5-1 summarizes rainfall and flow monitoring data for the three (3) month period ending 30 days before the end of the Calendar Quarter. An electronic data table provided as an attachment via compact disk to this Quarterly Report contains this information.

Table 5-1. Rainfall and Flow Monitoring

Flow Monitoring Location	Average Daily Flow (MGD)	Peak Flow (MGD)	Rain Gauge Location	Average Hourly Rainfall Amounts (in)	Peak Hourly Rainfall Intensity (in/hr)
P8_04_67S	0.074	13.111	JF12	0.006	0.420
P8_07_72S	0.328	16.890	JF12	0.006	0.420
P8_10_135S	0.000	0.000	GF09	0.006	0.290
P8_22_137S	0.000	0.000	HR15	0.006	0.320
P8_HL_SW01	0.000	0.000	GF07	0.006	0.240
P8_HL_SW02	0.000	0.000	GF07	0.006	0.240
SSO_152_CHARLES	0.000	0.000	JF12	0.006	0.420
SSO_154_CHARLES	0.000	0.000	JF12	0.006	0.420
SSO_155_GLEN	0.000	0.027	GF09	0.006	0.290
P8_05_SRPS	3.777	12.323	JF12	0.006	0.420
SSO_156_CHARING_CROSS	0.000	0.000	JF1		

6.0 Pumping Station Inspection and Repair

Paragraph 11, Pumping Station Inspection, Rehabilitation and Repair, requires inspection of each Pumping Station within the Collection System on a daily basis and continuous monitoring through a Supervisory Control and Data Acquisition (SCADA) system. Additionally, a preventive maintenance program is required to ensure proper operation and maintenance of the stations. Potential disruptions of Pumping Station operations requires a failure analysis with the results reported as part of the Calendar Quarterly Report.

The City of Baltimore remains in compliance with the inspection, monitoring, preventive maintenance, and failure analysis requirements of the MCD. The Wastewater Facilities Division (WWF Division) maintains a computerized maintenance management system (CMMS) for tracking work order information. The WWF Division will submit copies of files and failure report analyses to EPA and MDE upon failure occurrence.

Table 6-1 summarizes the status of the Progress Report requirements as stated in MCD subparagraph 11.d (i) through (v).

Table 6-1. Pumping Station Progress Report for Calendar Quarter

Pumping Station	Number of Inspections	Date of Completion of Inspections	Number of Repair Work Orders ¹	Number of PS-Related SSO Events and Failure Analyses	Failure Analyses Result Summary
Eastern Avenue	180	3/31/18	0	0	N/A
Brooklyn	180	3/31/18	0	0	N/A
Dundalk	180	3/31/18	0	0	N/A
Jones Falls	180	3/31/18	0	0	N/A
Locust Point	180	3/31/18	0	0	N/A
Quad Avenue	180	3/31/18	0	0	N/A
McComas Street	180	3/31/18	0	0	N/A
Westport	180	3/31/18	0	0	N/A
Stony Run ²	13	3/31/18	0	0	N/A

¹ Number of Repair Work Orders reported represents maintenance classified by priority 1 & 2

7.0 Illegal Connections to the Collection System

Paragraph 10 of the MCD mandates the City to identify and address illegal connections to the Collection System as required by the City's approved Illegal Sewer Connection Detection and Enforcement Plan. Article 25, Section 2-3 of the Baltimore City Code prohibits the discharge of "any stormwater, ground water, roof run-off, subsurface drainage, uncontaminated cooling water, or unpolluted water in any sanitary sewer." Connections that discharge these flows are illegal unless authorized by the Department of Public Works. During the sewershed studies performed under the 2002 Consent Decree, the City identified and abated a number of illegal connections to the Collection System. The City continues to enforce these requirements. If the City verifies an illegal connection, the City will mandate the abatement of the connection or issue a permit as appropriate under the circumstances. The City may discover illegal connections while performing inspections, maintenance, or construction activity.

Table 7-1 summarizes the Illegal Connection Status for this Calendar Quarter. All illegal connections identified to date have been abated, no activity to report for the Calendar Quarter.

Table 7-1. Illegal Connection Status for Calendar Quarter

This table not applicable to this Calendar Quarter.

8.0 Sanitary Discharges of Unknown Origin

Paragraph 15 of the MCD requires the City to investigate and eliminate Sanitary Discharges of Unknown Origin (SDUOs). SDUOs may be composed of numerous public or private sources that contribute to a combined discharge through the storm sewer system. Any discharge source that is verified as a Collection System asset must be reported as an SSO pursuant to sub-paragraph 17.e of the MCD, and is subject to stipulated penalties.

Under sub-paragraph 15.a, the City must submit a SDUO Plan for approval within 120 days of Date of Entry, and will implement the SDUO Plan upon receipt of approval from EPA and MDE. If a discharge is confirmed as a cross-connection (i.e., a direct, piped connection between the Collection System and storm sewer system), the City must submit a schedule within 60 days to eliminate the cross-connection.

The SDUO Plan was submitted to EPA and MDE on February 2, 2018. The table in the following attachment to this Quarterly Report summarizes the required information for SDUOs that occurred or were identified in the Calendar Quarter, including previously reported SDUOs confirmed during the Calendar Quarter as SSOs.

- Attachment 5, Sanitary Discharges of Unknown Origin, pursuant to sub-paragraph 15.f, sub-paragraph 21.g., and sub-paragraph 21.h.

9.0 MCD Compliance Issues

Sub-paragraphs 21.c and 21.d require the City to describe any problems anticipated with respect to meeting the requirements of Section VI, of the MCD (Remedial Measures), and to bring any additional matters that the City believes should be brought to the attention of EPA and MDE. This section highlights the City's concerns.

The City remains concerned that the Baltimore County Consent Decree implementation schedule requires the City to make planning and design assumptions based on the anticipated amount of future flow from the County. The amount of flow entering the City's Collection System is affected by the County's Consent Decree schedule and the effectiveness of County projects in reducing extraneous flow and SSOs from the County's Collection System. Since the County's flow accounts for approximately 50 percent of the flow entering the City's wastewater treatment plants, the success (or failure) of the County's Consent Decree projects has the potential to require significant design or construction changes late in the City's project implementation cycle. The City has used reasonable, conservative assumptions to project the County's future flows based on best engineering practices, but the impact of potential changes based on actual results late in the City's project implementation schedule would be significant.

The City continues to be challenged by a lack of contractor capacity to meet the demand for wastewater utility contracts. There are a significant number of Collection System Consent Decrees in Maryland and the nearby region, including Baltimore City, Baltimore County, the Washington Suburban Sanitary Commission (WSSC), DC Water, and a number of other large jurisdictions. Each of these entities is issuing a significant amount of wastewater utility contracts, and the local contracting community has limited resources available to meet these escalating demands. In particular, the City has experienced the following adverse impacts associated with contracting capacity:

- Unbalanced project bids;
- Fewer prospective bidders;
- Insufficient numbers of crews assigned to projects;
- Untrained or inexperienced crews assigned to projects; and
- Increased need for re-work due to poor quality installation.

These issues potentially create significant project completion delays and much higher costs associated with both initial project bidding and on-going project re-work. The City continues to utilize best practices to mitigate the aforementioned challenges and is currently on track to meet the January 1, 2021 deadline for completion of Phase 1 projects.

10.0 Annual Costs for Appendix B Projects

This section was updated after the fourth quarter following the October 6, 2017 Date of Entry of the MCD and will be updated annually thereafter. Reported costs incurred reflect capital expenditures, i.e., funds disbursed by the City of Baltimore Finance Department, for the Calendar Quarter ending September 30, 2018.

Table 10-1. Costs Incurred to Date

ID #	Project	Baltimore City Contract Number (for reference)	Construction Completion Date	Costs incurred as of 09/30/2018 (millions)
WWTP Improvement Project				
1	Back River WWTP Headworks Modifications and Flow Equalization Project	SC 918	1/1/2021	\$143.4
Heavy Cleaning Projects				
2	Lower Jones Falls Cleaning - Large diameter pipe cleaning of the Lower Jones Falls Sewer	SC 876	Completed October 2011	\$1.7
3	Outfall Interceptor Cleaning - Large diameter pipe cleaning of the Outfall Interceptor – Phase I	SC 894	Completed April 2014	\$11.0
4	Low Level Interceptor Cleaning - Large diameter pipe cleaning of the Low Level Interceptor	SC 922R	Completed November 2016	\$1.6
5	High Level Interceptor Cleaning - Large diameter pipe cleaning of the High Level Interceptor	SC 933	Completed December 2016	\$4.5
6	Outfall Interceptor Cleaning – City and County Portions - Large diameter pipe cleaning of the Outfall Interceptor – Phase II	SC 934	1/1/2019	\$9.3
Structural Improvement Projects				
7	Gwynns Run D-Branch Sewer Improvements - Improvements to the Gwynns Run D-branch interceptor in the high level sewershed by means of replacement of pipe	SC 879	Completed January 2016	\$4.8
8	Maryland Avenue Sewer Rehab in Jones Falls Sewershed - Rehabilitation and replacement of sanitary sewer lines by cured-in-place pipe (CIPP) lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 895	Completed January 2016	\$3.7
9	Sewer Rehab in Greenmount			

ID #	Project	Baltimore City Contract Number (for reference)	Construction Completion Date	Costs incurred as of 09/30/2018 (millions)
Structural Improvement Projects (continued)				
12	Upper Jones Falls and Maryland Avenue Sewer Rehab in Jones Falls Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 900	Completed August 2016	\$15.3
13	Sewer Rehab in Upper Gwynns Run Area of High Level Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 905	Completed January 2016	\$11.2
14	Sewer Rehab in Northern Portion of High Level Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 906	Completed July 2016	\$22.8
15	Sewer Rehab in Eastern Portion High Level Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 907	Completed January 2017	\$7.5
16	Sewer Rehab in Herring Run Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 908	Completed January 2017	\$14.1
17	Sewer Rehab in Eastern Portion of Herring Run Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 909	Completed July 2016	\$14.2
18	Sewer Rehab in Central Portion of Herring Run Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 911	Completed January 2017	\$7.5
19	Sewer Rehab in Western Portion of Low Level Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 912	Completed August 2016	\$6.5
20	Sewer Rehab in Eastern Portion of Low Level Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 913	Completed October 2016	\$7.1
21	Sewer Rehab in Southern Portion of Gwynns Falls Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 920	1/1/201	

ID #	Project	Baltimore City Contract Number (for reference)	Construction Completion Date	Costs incurred as of 09/30/2018 (millions)
Structural and Priority Meter Basin Rehabilitation Projects				
23	Sewer Rehab in Dundalk Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 902	Completed November 2017	\$19.7
24	Sewer Rehab in Patapsco Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 903	1/1/2021	\$23.9
25A	Improvements to the Sanitary Sewer Collection System in the Herring Run Sewershed, Part 2 Chinquapin Run	SC 910	1/1/2021	\$7.4
25B	Improvements to the Sanitary Sewer Collection System in the Herring Run Sewershed, Part 1 Sanitary Sewers	SC 956 ^a	1/1/2021	\$ -
26	Sewer Rehab in Western Portion of Low Level Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to laterals and manholes	SC 914	1/1/2021	\$13.9
27	Sewer Rehab in Outfall Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to point repairs, laterals, and manholes	SC 919	1/1/2021	\$16.3
28A	Improvements to the Gwynns Falls Sewershed Collection System - Area B	SC 921	1/1/2021	\$2.4
28B	Powder Mill Interceptor Improvements and Stream Restoration in the Gwynns Falls Sewershed.	SC 955 ^b	1/1/2021	\$ -
29	Sewer Rehab in Herring Run Sewershed - Rehabilitation and replacement of sanitary sewer lines by CIPP lining and open cut methods of pipe in addition to laterals	SC 937	Completed December 2017	\$6.4
30A	Hydraulic Improvements to the High Level Sewershed Collection System	SC 940	1/1/2021	\$1.4
30B	Sanitary Sewer Collection System Improvements in the High Level Sewershed	SC 953 ^c	1/1/2021	\$5.0
31	Sewer Rehab in Western Run, Greenmount, Hampden & Bolton Hill Areas of Jones Falls Sewershed -			

ID #	Project	Baltimore City Contract Number (for reference)	Construction Completion Date	Costs incurred as of 09/30/2018 (millions)
Structural and Priority Meter Basin Rehabilitation Projects (continued)				
32	Improvements to the Sanitary Sewers in the Southeast area of Baltimore City A4	SC 962 ^d	1/1/2020	\$ -
33	Improvements to the Sanitary Sewers in the Southwest area of Baltimore City, Maidens Choice Pressure Sewer Assessment, and Uplands Sewer Replacement	SC 963 ^d	1/1/2020	\$0.8
34	Improvements to the Sanitary Sewers in the Northwest area of Baltimore City	SC 964 ^d	1/1/2020	\$0.6
35	Improvements to the Sanitary Sewers in the Northeast area of Baltimore City	SC 965 ^d	1/1/2020	\$ -
36	Sewer Collection System Improvements in the Greenmount, Hampden, and Bolton Hill areas of the Jones Falls Sewershed	SC 976 ^e	1/1/2020	\$1.9
Phase I Total Costs incurred as of September 30, 2018				\$462.2

^d Project re-scoped, costs incurred for repackaging reported under select original contracts (SC 897R, 898, SC 909, and 912).

^e Project re-scoped, costs incurred for repackaging reported under SC 897R.

Attachment 1. Collection System SSO Events during the Calendar Quarter

Date	Location	Zip	Cause (Wet or Dry Weather)	Volume (gallons)
1/1/2019	2543 Marbourne Ave	21230	Wet Weather	5
1/2/2019	436 Kane St	21224	Wet Weather	5
1/3/2019	700 Chesapeake Ave	21225	Wet Weather	1,150
1/3/2019	1901 Chesapeake Ave	21226	Wet Weather	10
1/5/2019	1603 N Broadway	21213	Dry Weather	10
1/5/2019	3917 Carlisle Ave	21216	Dry Weather	5
1/5/2019	421 S Wickham Rd	21229	Dry Weather	5
1/7/2019	4006 Raymonn Ave	21213	Dry Weather	5
1/8/2019	3130 Foster Ave	21224	Dry Weather	3
1/8/2019	436 Kane St	21224	Dry Weather	10
1/9/2019	3305 Taney Rd	21215	Wet Weather	2
1/9/2019	1904 N Pulaski St	21217	Wet Weather	5
1/9/2019	1525 Edmondson Ave	21223	Wet Weather	206
1/9/2019	2105 Louise Ave	21214	Wet Weather	4
1/10/2019	808 N Hilton St	21229	Wet Weather	316
1/10/2019	2702 E Strathmore Ave	21214	Wet Weather	480
1/14/2019	1007 N Iris Ave	21205	Wet Weather	5
1/15/2019				

Date	Location	Zip	Cause (Wet or Dry Weather)	Volume (gallons)
1/16/2019	W Lexington St & N Warwick Ave	21223	Wet Weather	596
1/18/2019	922 W North Ave	21217	Dry Weather	10
1/19/2019	519 Brisbane Rd	21229	Dry Weather	33
1/20/2019	3100 Chestnut Ave	21211	Wet Weather	666
1/21/2019	480 Brunswick St	21223	Wet Weather	1,380
1/24/2019	3102 Chestnut Ave	21211	Wet Weather	2,190
1/24/2019	5740 Cross Country Blvd	21209	Wet Weather	10
1/24/2019	3900 Belair Rd	21206	Wet Weather	1,357,000
1/26/2019	1520 Clipper Rd	21211	Wet Weather	1,380
1/28/2019	428 E Preston St	21202	Dry Weather	34,002
1/29/2019	4300 Hayward Ave	21215	Wet Weather	10
1/30/2019	5618 Frankford Ave	21206	Wet Weather	8
2/3/2019	3903 8th St	21225	Dry Weather	134
2/4/2019	428 E Preston St	21218	Dry Weather	123
2/4/2019	504 S Clinton St	21224	Dry Weather	10
2/5/2019	436 Kane St	21224	Dry Weather	752
2/5/2019	3738 Manchester Ave	21215	Dry Weather	8
2/6/2019	6714 Holabird Ave	21222	Wet Weather	

Date	Location	Zip	Cause (Wet or Dry Weather)	Volume (gallons)
2/8/2019	5924 Smith Ave	21209	Wet Weather	7
2/9/2019	1248 N Gay St	21213	Wet Weather	5
2/14/2019	2850 Round Rd	21225	Wet Weather	2
2/15/2019	3822 Ferndale Ave	21207	Wet Weather	4
2/15/2019	1820 Spence St	21230	Wet Weather	610
2/16/2019	110 S Clinton St	21224	Dry Weather	1
2/16/2019	3708 7th St	21225	Dry Weather	6
2/17/2019	6011 Falls Rd	21209	Dry Weather	6,300
2/18/2019	2529 Oswego Ave	21215	Wet Weather	936
2/18/2019	5108 The Alameda	21239	Wet Weather	20
2/18/2019	6309 Eunice Ave	21214	Wet Weather	7
2/18/2019	2724 Wilkens Ave	21223	Wet Weather	5
2/18/2019	4213 Menlo Dr	21215	Wet Weather	9
2/19/2019	436 Kane St	21224	Wet Weather	2,975
2/19/2019	659 E 25th St	21218	Wet Weather	216
2/19/2019	2001 Broening Hwy	21224	Wet Weather	57
2/19/2019	4123 Roland Ave	21211	Wet Weather	9,005
2/21/2019	201 N Central Ave	21231	Wet Weather	1

Date	Location	Zip	Cause (Wet or Dry Weather)	Volume (gallons)
2/22/2019	2731 N Calvert St	21218	Wet Weather	10
2/23/2019	708 Glen Allen Dr	21229	Wet Weather	6
2/24/2019	2200 N Forest Park Ave	21207	Wet Weather	610
2/25/2019	1707 Brunt St	21217	Wet Weather	242
2/26/2019	2107 E Lombard St	21231	Wet Weather	10
2/26/2019	432 Kane St	21224	Wet Weather	670
2/27/2019	6320 Wirt Ave	21215	Wet Weather	Ongoing
2/27/2019	200 Font Hill Ave	21223	Wet Weather	2,490
2/27/2019	3500 Parkdale Ave	21211	Wet Weather	1,350
3/3/2019	3900 Belair Rd	21206	Wet Weather	2,024,000
3/5/2019	519 Brisbane Rd	21229	Wet Weather	5
3/5/2019	4309 Springdale Ave	21207	Wet Weather	4
3/7/2019	6303 Pimlico Rd	21209	Dry Weather	162
3/7/2019	4000 Groveland Ave	21215	Wet Weather	3
3/8/2019	513 W Mulberry St	21201	Dry Weather	10
3/10/2019	1206 W Northern Pkwy	21209	Dry Weather	10
3/11/2019	4576 Derby Manor Dr	21215	Wet Weather	7
3/11/2019	5302 Ethelbert St	21215	Wet Weather	

Date	Location	Zip	Cause (Wet or Dry Weather)	Volume (gallons)
3/12/2019	1937 E North Ave	21213	Wet Weather	15
3/13/2019	500 Chateau Ave	21212	Wet Weather	1,115
3/14/2019	2304 N Forest Park Ave	21207	Dry Weather	263
3/14/2019	500 Kane St	21224	Dry Weather	546
3/14/2019	1800 Ensor St	21202	Dry Weather	535
3/14/2019	436 Kane St	21224	Dry Weather	2,130
3/14/2019	1802 Guilford Ave	21202	Dry Weather	8
3/15/2019	6550 Pioneer Dr	21214	Dry Weather	306
3/15/2019	3440 Virginia Ave	21215	Dry Weather	2
3/15/2019	313 S Augusta Ave	21229	Dry Weather	10
3/18/2019	DuPont Ave & Greenspring Ave	21215	Dry Weather	3
3/19/2019	6303 Pimlico Rd	21209	Dry Weather	2,201
3/19/2019	1711 Guilford Ave	21202	Dry Weather	5
3/20/2019	2807 Elgin Ave	21216	Dry Weather	69
3/20/2019	515 E 38th St	21218	Dry Weather	21
3/21/2019	3310 Ridgewood Ave	21215	Wet Weather	3,940
3/21/2019	3700 Tudor Arms Ave	21211	Wet Weather	72,080
3/21/2019	1731 E Chase St	21213	Wet Weather	4,00

Date	Location	Zip	Cause (Wet or Dry Weather)	Volume (gallons)
3/21/2019	3900 Belair Rd	21206	Wet Weather	8,788,000
3/24/2019	2131 W Mulberry St	21223	Wet Weather	5
3/25/2019	1200 N Franklinton Rd	21216	Wet Weather	1,750
3/26/2019	17 W Barre St	21201	Dry Weather	5
3/26/2019	1613 Gwynns Falls Pkwy	21217	Dry Weather	272
3/26/2019	1214 Homewood Ave	21202	Dry Weather	310
3/27/2019	N Franklinton Rd & W Fairmount Ave	21223	Dry Weather	213
3/27/2019	6303 Pimlico Rd	21209	Dry Weather	5,804
3/27/2019	16 Elmwood Rd	21210	Dry Weather	3,690
3/27/2019	5007 Midwood Ave	21212	Dry Weather	3
3/28/2019	1105 Argonne Dr	21218	Dry Weather	5
3/29/2019	2300 Garrison Blvd	21216	Dry Weather	19
3/29/2019	Greenspring Ave & DuPont Ave	21209	Dry Weather	22
3/30/2019	3836 Bank St	21224	Dry Weather	252
3/30/2019	2219 E Lombard St	21231	Dry Weather	5
Total				24,067,740

Per sub-paragraph 21.f of the MCD, the five-day reports required under sub-paragraph 17.a are submitted to EPA and M

Attachment 2. SSO Structure Overflows during the Calendar Quarter

Date	Location	Zip	Cause (Wet or Dry Weather)	Volume (gallons)
1/20/2019	3404 Glen Ave - SSO Site #155	21215	Wet Weather Capacity Limitation	500
1/20/2019	1901 Falls Rd - SSO Site #67	21211	Wet Weather Capacity Limitation	164,000
1/24/2019	1901 Falls Road - SSO Site #67	21211	Wet Weather Capacity Limitation	1,477,000
1/24/2019	428 E Preston St - SSO Site #72	21202	Wet Weather Capacity Limitation	2,784,000
1/25/2019	3404 Glen Ave - SSO #155	21215	Wet Weather Capacity Limitation	27,000
2/12/2019	428 E Preston St - SSO Site #72	21202	Wet Weather Capacity Limitation	2,987,000
2/12/2019	1901 Falls Rd - SSO Site #67	21211	Wet Weather Capacity Limitation	207,000
2/24/2019	428 E Preston St - SSO Site #72	21202	Wet Weather Capacity Limitation	71,000
3/3/2019	428 E Preston St - SSO Site #72	21202	Wet Weather Capacity Limitation	2,700,000
3/3/2019	1901 Falls Rd - SSO Site #67	21211	Wet Weather Capacity Limitation	350,000
3/21/2019	428 E Preston St - SSO Site #72	21202	Wet Weather Capacity Limitation	18,000,000
3/21/2019	1901 Falls Rd - SSO Site #67	21211	Wet Weather Capacity Limitation	6,487,000
3/21/2019	N Charles St & W Lanvale St - SSO #152	21202	Wet Weather Capacity Limitation	33,000

Attachment 3. Reported Building Backups during the Calendar Quarter

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
0 BELLEMORE RD	2/24/2019	2/24/19 8:25 PM	Yes	2/24/2019, 3/31/2019	Mainline	N/A	Unknown	No	
0 BELLEMORE RD	3/31/2019	3/31/19 9:55 PM	No	2/24/2019, 3/31/2019	Mainline	N/A	Unknown	No	
0 BLYTHEWOOD RD	2/26/2019	2/26/19 5:32 PM	No	2/26/2019, 3/2/2019, 3/5/2019	Mainline	N/A	Unknown	No	
0 BLYTHEWOOD RD	3/2/2019	3/2/19 6:33 PM	Yes	2/26/2019, 3/2/2019, 3/5/2019	Mainline and Lateral	N/A	Unknown	No	
0 BLYTHEWOOD RD	3/5/2019	Not recorded	Yes	2/26/2019, 3/2/2019, 3/5/2019	Lateral	N/A	Unknown	No	
0 BRACKENRIDGE CT	3/2/2019	3/2/19 10:01 AM	Yes		Lateral	N/A	Unknown	No	
0 E 39TH ST	2/6/2019	2/7/19 5:28 PM	No		Lateral	N/A	Unknown	No	
0 E 39TH ST	1/20/2019	1/20/19 11:20 AM	Yes	3/23/2018, 1/20/2019	Mainline and Lateral	N/A	Unknown	No	
0 E READ ST	2/4/2019	2/6/19 7:33 AM	No		Mainline				

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
100 N POPPLETON ST	3/15/2019	3/15/19 12:16 PM	No	3/15/2019, 3/17/2019	Mainline	N/A	Unknown	No	
100 N POPPLETON ST	3/17/2019	Not recorded	No	3/15/2019, 3/17/2019	Mainline	N/A	Unknown	No	
100 RIDGEWOOD RD	2/18/2019	2/18/19 11:04 AM	No		Mainline	N/A	Unknown	No	
100 RIDGEWOOD RD	2/18/2019	2/18/19 2:01 PM	No		Mainline	N/A	Unknown	No	
100 S CALHOUN ST	3/25/2019	3/25/19 5:02 PM	No		Mainline	N/A	Unknown	No	
100 S CENTRAL AVE	3/18/2019	3/18/19 4:49 PM	No		Mainline	N/A	Unknown	No	
100 S CLINTON ST	2/16/2019	2/16/19 3:23 PM	No		Lateral	N/A	Unknown	No	
100 S COLLINS AVE	2/27/2019	2/27/19 1:41 PM	No		Mainline	N/A	Unknown	No	
100 S COLLINS AVE	2/20/2019	2/20/19 11:00 AM	No	2/21/2018, 3/27/2018, 2/20/2019	Lateral	N/A	Unknown	No	
100 S GILMOR ST	1/1/2019	1/1/19 12:08 PM	Yes		Mainline	N/A	Unknown	No	
100 TUNBRIDGE RD	1/28/2019								

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
1000 LANCASTER ST	1/11/2019	1/12/19 8:20 AM	No	8/28/2016, 12/19/2016, 1/1/2017, 2/20/2017, 12/29/2017, 1/2/2018, 7/18/2018, 8/14/2018, 10/23/2018, 1/16/2019	Mainline	N/A	Unknown	No	
1000 MARLAU DR	1/16/2019	1/16/19 6:04 PM	No		Lateral	N/A	Unknown	No	
1000 MCDONOGH ST	3/7/2019	3/7/19 8:39 PM	No	9/7/2016, 9/23/2016, 3/7/2019	Mainline	N/A	Unknown	No	
1000 N ARLINGTON AVE	1/6/2019	1/6/19 7:26 PM	No	12/20/2018, 12/24/2018, 1/6/2019	Lateral	N/A	Unknown	No	
1000 N ARLINGTON AVE	1/8/2019	1/8/19 9:16 PM	No		Lateral	N/A	Unknown	No	
1000 N CENTRAL AVE	1/24/2019	1/24/19 10:59 PM	Yes	1/24/2019, 1/30/2019	Mainline	N/A	Unknown	No	
1000 N CENTRAL AVE	1/30/2019	1/30/19 10:40 PM	No	1/24/2019, 1/30/2019	Mainline and Lateral	N/A	Unknown	No	
1000 N PAYSON ST	1/24/2019	1/24/19 11:11 PM	Yes	2/4/2017, 2/6/2017, 1/24/2019	Lateral	N/A	Unknown</		

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
1200 GLENHAVEN RD	1/1/2019	1/1/19 1:19 PM	Yes		Lateral	N/A	Unknown	No	
1200 GLENWOOD AVE	1/14/2019	1/14/19 9:16 PM	No		Lateral	N/A	Unknown	No	
1200 GLYNDON AVE	2/8/2019	Not recorded	No		Mainline	N/A	Unknown	No	
1200 HAVERHILL RD	3/22/2019	3/23/19 9:14 PM	Yes	6/1/2018, 10/28/2018, 3/22/2019	Lateral	N/A	Unknown	No	
1200 HULL ST	3/22/2019	3/23/19 11:55 AM	Yes		Lateral	N/A	Unknown	No	
1200 KEVIN RD	3/9/2019	3/9/19 2:21 PM	No	4/19/2016, 9/25/2018, 3/9/2019	Lateral	N/A	Unknown	No	
1200 LIMIT AVE	2/5/2019	2/5/19 1:25 PM	No	1/15/2017, 2/5/2019	Lateral	N/A	Unknown	No	
1200 LIMIT AVE	2/5/2019	Not recorded	No	1/15/2017, 2/5/2019	Lateral	N/A	Unknown	No	
1200 MERIDENE DR	3/27/2019	3/27/19 6:24 PM	No		Lateral	N/A	Unknown	No	
1200 MERIDENE DR	1/13/2019	1/13/19 5:30 PM	No	12/28/2016, 7/30/2017, 5/31/2018, 10/1					

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
1200 WINSTON AVE	3/17/2019	Not recorded	No		Lateral	N/A	Unknown	No	
1200 WOODBOURNE AVE	1/10/2019	1/10/19 9:46 AM	No		Lateral	N/A	Unknown	No	
1200 WOODBOURNE AVE	2/4/2019	Not recorded	No		Lateral	N/A	Unknown	No	
1300 CAMBRIA ST	3/13/2019	3/14/19 2:18 PM	No	10/25/2017, 11/27/2018, 3/13/2019	Lateral	N/A	Unknown	No	
1300 CROFTON RD	1/8/2019	1/8/19 8:26 PM	No		Mainline	N/A	Unknown	No	
1300 GITTINGS AVE	1/12/2019	1/12/19 6:45 PM	No	10/23/2016, 3/3/2017, 1/12/2019	Lateral	N/A	Unknown	No	
1300 GITTINGS AVE	1/23/2019	1/23/19 5:36 PM	No	3/5/2017, 1/23/2019	Lateral	N/A	Unknown	No	
1300 GITTINGS AVE	3/27/2019	3/27/19 11:19 AM	No	5/19/2017, 5/23/2017, 11/7/2017, 3/27/2019	Lateral	N/A	Unknown	No	
1300 GLENWOOD AVE	2/16/2019	2/16/19 7:55 PM	No		Lateral	N/A	Unknown	No	
1300 JAMES ST	1/4/2019	1/4/19 2:26 PM	No		Mainline and Lateral	N/A			

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
1300 W OSTEND ST	2/4/2019	2/5/19 8:51 PM	No		Mainline	N/A	Unknown	No	
1300 WALKER AVE	2/22/2019	2/23/19 12:04 PM	Yes	10/28/2016, 2/22/2019	Lateral	N/A	Unknown	No	
1300 WALKER AVE	3/6/2019	3/6/19 2:00 PM	No	4/20/2017, 6/30/2017, 3/6/2019	Lateral	N/A	Unknown	No	
1300 WALKER AVE	1/17/2019	1/17/19 8:20 PM	No	8/6/2018, 1/17/2019	Lateral	N/A	Unknown	No	
1300 WALKER AVE	1/17/2019	Not recorded	No	8/6/2018, 1/17/2019	Lateral	N/A	Unknown	No	
1300 WALKER AVE AVE	3/7/2019	3/9/19 7:00 PM	No		Lateral	N/A	Unknown	No	
1300 WALTERS AVE	2/3/2019	2/3/19 5:53 PM	No		Lateral	N/A	Unknown	No	
1300 WINSTON AVE	3/5/2019	3/5/19 5:48 PM	Yes	2/17/2018, 3/5/2019	Lateral	N/A	Unknown	No	
1400 MERIDENE DR	1/20/2019	1/20/19 8:04 PM	Yes	1/20/2019, 2/18/2019	Lateral	N/A	Unknown	No	
1400 MERIDENE DR	2/18/2019	2/18/19 8:30 PM	No	1/					

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
1600 HEATHFIELD RD	1/12/2019	1/13/19 5:20 PM	No	9/27/2017, 10/25/2017, 6/2/2018, 1/12/2019	Lateral	N/A	Unknown	No	
1600 MORELAND AVE	3/18/2019	3/18/19 2:03 PM	No	2/17/2017, 4/7/2017, 2/23/2018, 3/18/2019	Mainline and Lateral	N/A	Unknown	No	
1600 N BROADWAY	1/22/2019	1/23/19 6:21 PM	No		Mainline	N/A	Unknown	No	
1600 PARK AVE	1/14/2019	1/14/19 5:17 PM	No	4/12/2018, 4/16/2018, 1/14/2019	Mainline	N/A	Unknown	No	
1600 PENTWOOD RD	1/28/2019	1/28/19 12:51 PM	No		Mainline and Lateral	N/A	Unknown	No	
1600 POPLAR GROVE ST	3/4/2019	3/4/19 10:10 PM	Yes	10/24/2016, 10/12/2017, 10/27/2017, 3/4/2019	Lateral	N/A	Unknown	No	
1600 POPLAR GROVE ST	3/4/2019	Not recorded	Yes	3/22/2018, 3/24/2018, 4/25/2018, 5/3/2018, 3/4/2019, 3/30/2019	Mainline	N/A	Unknown	No	
1600 POPLAR GROVE ST	3/30/2019	3/30/19 2:57 PM	No	3/22/2018, 3/24/2018, 4/25/2018, 5/3/2018, 3/4/2019, 3/30/2019					

Block Name	Date Reported	Response Date and Time	Rain Event in Prior 48 Hours	Dates of Other Building Backups (within last 36 months)	Cause, if identified	If unknown, efforts to identify	Estimated volume released into the building	Claim Filed (Y/N)	Status of Claim (if applicable)
1700 W BALTIMORE ST	1/5/2019	1/5/19 10:27 PM	No		Mainline	N/A	Unknown	No	
1800 APPLETON ST	1/20/2019	1/20/19 5:59 PM	Yes	1/20/2019, 3/19/2019	Mainline	N/A	Unknown	No	
1800 APPLETON ST	3/19/2019	3/19/19 6:33 PM	No	1/20/2019, 3/19/2019	Mainline	N/A	Unknown	No	
1800 DRUID HILL AVE	1/19/2019	1/19/19 11:28 AM	No	10/30/2016, 10/24/2017, 1/19/2019, 2/10/2019	Mainline and Lateral	N/A	Unknown	No	
1800 DRUID HILL AVE	2/10/2019	2/14/19 4:54 AM	No	10/30/2016, 10/24/2017, 1/19/2019, 2/10/2019	Lateral	N/A	Unknown	No	
1800 E PRATT ST	1/21/2019	1/21/19 10:22 PM	Yes	4/8/2016, 10/15/2016, 8/16/2017, 4/22/2018, 1/21/2019	Lateral	N/A	Unknown	No	
1800 GREENBERRY RD	1/4/2019	1/5/19 9:39 AM	No		Mainline	N/A	Unknown	No	
1800 GUILFORD AVE	3/16/2019	3/16/19 5:56 PM	No		Lateral	N/A	Unknown	No	
1800 N ROSEDALE ST	1/25/2019	Not recorded	Yes						

