



OFFICE OF THE CITY MANAGER

CITY OF BANGOR

Deborah A. Laurie
City Manager

Jan. 31, 2024

Alex Rosenberg
Enforcement Officer
Water Technical Unit
US Environmental Protection Agency, Region 1
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Mail Code OES04-4
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RE: Annual Report on Compliance for Calendar Year 2023
(Consent Decree, Civil Action No. 1:15-cv-00350-NT)

Dear Alex:

Enclosed please find the City of Bangor's Annual Report on Compliance for the 2023 calendar year reporting period (the "Annual Report"), as required by Paragraphs 20 and 21 of the above-referenced Consent Decree. For your convenience, each Consent Decree annual reporting deliverable and its location in the Annual Report are fully cross-referenced in the attached table.

We are currently monitoring the Davis Brook CSO Tank to further understand the impact this facility has on the operation of our overall collection system and wet weather flows to our treatment plant.

The Engineering Department is completing the design for a sewer/stormwater separation project on Cumberland Street that is scheduled for construction this summer. Please feel free to contact me if you have any questions concerning the attached Annual Report.

Sincerely,

Debbie Laurie
City Manager

cc: Tonia Bandrowicz, US EPA
Brian Kavanah, Director, Bureau of Water Quality, MEDEP
Sharon Newman, Preti Flaherty (via e-mail)

enc: Annual Report

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Consent Decree		Deliverable	Annual Compliance Report Section
Page	Paragraph		
18	9.b.(1)	summary of CCTV inspections completed	Appendix A
18	9.b.(1)	manhole inspections	Appendix B
19	9.b.(3)	list of repairs, replacements or upgrades identified by CCTV work even if already completed	Appendix C
19-20	9.b.(4)	summary of routine cleaning performed	Appendix D
20	9.b.(5) [and 21.e]	MIP update: Plan Updates	III.D.1.a-d
20	9.b.(5) [and 21.e]	MIP update: Performance Metrics, Monitoring Measurement and Program Modifications	III.D.2.a-d
22	9.c.(6)(i)	list of public and private I/I sources identified	V
22	9.c.(6)(ii)	scope of investigation (flow monitoring, CCTV, dye testing, etc.)	V
22	9.c.(6)(iii)	Identify sewer sections linked to SSOs or CSOs (potential impact areas)	V
23	9.c.(6)(iv)	private sources of excessive I/I	V
23	9.c.(6)(v)	list of portions of collection system from which exfiltration is known or suspected to occur	V
23	9.c.(6)(v)	description of methodology used to determine the scope of the list	n/a
25	9.c.(6)(vi)	assessment if I/I measures will remedy exfiltration	n/a
23	9.c.(6)(vii)	propose remedial methods where I/I measures not expected to be sufficient	n/a
27	16	itemized list of weir adjustments or regulator changes including description, location, and date	III.A.2
32	21.a	chronological list of SSOs (in certain categories)	IV.A, Appendix E
32	21.a	information regarding each listed SSO	Appendix E
33	21.f	LTCP Activities	III.A, VI
33	21.b [and 9.a]	GIS map for each SSO	Appendix F
33	21.b	GIS map for each MS4 illicit connection reported in the annual MS4 report submitted pursuant to 2013-2021 MS4 permit	n/a
33	21.c [and 15]	CSO flow monitoring data (Annual CSO Progress Report to MEDEP)	III.A.4
33	21.d [and 9.c.(6)]	SSES Report	V
33	21.e [and 9.b.(5)]	MIP Report	III.D
33	21.f [and 9.c.(6), 11, 12, 18]	description of activities undertaken to achieve compliance by reducing SSO and CSO volumes	III.A.1-3
33	21.g	identification of all reports, plans, submissions required by CD that the City completed and submitted	II.A
33	21.h	description of activities expected for next reporting period to achieve compliance	VII
34	21.i	identification of any noncompliance	II.B

2023
Annual Report on Compliance
City of Bangor, Maine

Pursuant to the requirements of
United States and State of Maine v. City of Bangor Consent Decree
Civil Action No. 1:15-cv-00350-NT

January 31, 2024



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- B. Manhole Inspection Log
- C. CCTV Repair, Replacement, and Upgrade Log
- D. Cleaning Log
- E. SSO Event Log
- F. Location Map of Sanitary Sewer Overflows

Certification Statement

City of Bangor, Maine

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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.

By: 
Debbie Laurie
City Manager

Date: 1/31/24

2023 Annual Report on Compliance

I. Introduction

The City of Bangor (the “City” or “Bangor”) is pleased to submit this Annual Report on Compliance, pursuant to the requirements of the *United States and State of Maine v. City of Bangor Consent Decree*, Civil Action No. 1:15-cv-00350-NT, entered on November 13, 2015 (the “Consent Decree”), for the reporting period beginning on January 1, 2023, and ending on December 31, 2023.

II. Status of Compliance

A. Submittals Required by the Consent Decree during the Reporting Period

<u>Date Submitted</u>	<u>Deliverable</u>
January 30, 2023	Annual Report on Compliance for calendar year 2022
March 1, 2023	Copy of Annual CSO Report to DEP for calendar year 2022
May 15, 2023	Mid-Year Summary Letter
June 30, 2023	GIS Deliverable (per Par. 9.a of the Consent Decree)
Various	ADS Flow Monitoring Reports (per Par. 22 of the CD)

B. Identification of any Non-Compliance

The City of Bangor is unaware of any incidences of non-compliance with the requirements of the Consent Decree identified for the 2023 reporting period.

III. Compliance Activities

A. Measures Taken to Reduce CSO and SSO Volumes

1. Capital Improvement Projects (CIP)

Davis Brook CSO Storage Tank and Post Construction Monitoring

The Davis Brook CSO Storage Tank (DBST) is the first CSO project identified in the City’s Phase II Long Term Control Plan (LTCP). The Tank was put into operation on October 24, 2022 and has functioned according to the intended design. The Davis Brook Tank provides 3.8 million gallons (MG) of storage capacity. The Tank is constructed immediately to the west of the existing Davis Brook Storage Conduit which currently provides 1.2 MG of storage capacity. The Davis Brook Tank has had a positive impact on the City’s collection system during wet weather.

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The City has contracted with AECOM to provide post construction monitoring of the Tank's operation to assist the City in developing best management practices to reduce CSO's through the tank operation. Seven temporary flow meters were installed at locations throughout the collection system to supplement data collected by permanent system instrumentation, and to support the post construction monitoring effort for the Davis Brook CSO Storage system. Temporary flow meters were installed in July 2023 by ADS Environmental at locations deemed to be hydraulically important to measure flows contributing flows to the Davis Brook Storage Tank, Davis Brook Storage Conduit, and the Wastewater Treatment Plant.

Following the installation of the meters, AECOM has been reviewing the data to assess its quality for model calibration. Flow metering is expected to continue through the Spring of 2024. As an initial review of the metering data, the existing model was run, and the results were compared to the summer 2023 meter data. Rainfall and USGS river gauge data from July 1, 2023, to September 30, 2023, was used to run the model to assess model calibration for meters 7, 8, 9 and the Barkersville CSO. These meters were selected because they directly impact the Barkersville Regulator and the Davis Brook CSO storage tank. Based on AECOM's review, the existing model tended to overpredict the flow during medium and large storm events at these meters, so model parameters including the minimum soil infiltration rate was increased to reduce the pervious flow. During this metering period, a large storm event occurred on August 8, 2023, where the model operations of the system could be evaluated compared to the SCADA data recorded during the storm event. Adjustments were made to the model's system operation at the Barkersville Drain Gate and WWTP based on SCADA operation.

Overall, with these adjustments, we compared the following: The baseline model for Barkersville, the updated model, and actual meter data. These results are presented in Table 1 below.

Table 1. Preliminary Comparison of Barkersville CSO Activations in Basline and Updated Model for 2023 Rainfall

Date	Meter Volume (MG)	Baseline Model Volume (MG)	Updated Model Volume (MG)
7/2/2023	0.01	0.67	0.29
7/16/2023	0.25	0	0
8/8/2023	3.24	7.49	4.92
8/13/2023	0.01	0	0
8/25/2023	0.0005	0.01	0
9/25/2023	0	0.16	0
SUM	3.50	8.33	5.21

It is anticipated that metering and model calibration/assessments will continue in 2024.

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SCADA Needs Assessment and Upgrades

The City is contracted with Wright Pierce for a SCADA needs assessment and implementation plan for upgrades for the wastewater treatment plant and the collection system. The needs assessment was completed on July 6, 2018. Based on the plan's recommendations, the City has completed Phase I of the SCADA upgrade project, critical components have been replaced at the WWTP, and control upgrades at Kenduskeag Pump Station have been installed. Phase II of the SCADA upgrade is currently under construction and approximately fifty percent complete. This work includes upgrades to the Bangor WWTP SCADA system, instrumentation and control systems, and the associated electrical upgrades. The City contracted with Wilcox Electric Inc. in October of 2022 to complete the system improvements at the WWTP. Final completion of this SCADA upgrade work is scheduled for the summer of 2024. This project is an SRF funded project with a total estimated budget of about \$1.85 million.

Meadowbrook Sewer Separation Project

The City of Bangor is currently working on the design for sewer separation project within the Meadow Brook subsection to reduce the amount of inflow into the collection system to help reduce CSOs. The design is anticipated to separate catch basins along Cumberland Street, Essex Street, North French Street, and Pine Street. Design is currently underway for this work with the first phase of this project anticipated to go out to bid in spring of 2024 with construction expected to begin during summer of 2024.

Barkersville Regulator Structure

AECOM completed an initial review of the Barkersville Regulator structure using a video obtained by ADS Environmental to assess the condition and the hydraulic efficiency of the existing regulator structure. The structure was found to be in acceptable physical condition and the next step was to assess the hydraulic efficiency of the existing regulator. One of the limiting factors of the regulator structure is that while there is space to increase the height of the existing weir in the structure, it may have a minimal effect on the CSO activation frequency and volume due to the slope of the influent pipe.

Asset Management Program and Implementation

In 2023, the City began work to develop an Asset Management program. The objective of this program is to answer important questions about where and when to maintain, replace, upgrade, or phase out different assets, infrastructure, and equipment. With help from our consultant Timmons Group and software provider Cityworks, we have begun analyzing the City's assets and the work we do to everything running. Initially, this is being undertaken by our Public Works, Sewer and Wastewater, and Engineering Departments, but we hope to eventually expand this program City-wide. Achievements include cataloging workflows for each functional department in the project scope, creating and deploying our Cityworks software environment, and developing GIS data for a number of previously unmapped

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assets. Progress on this project remains steady, but our original expected go-live date has been delayed to this coming summer. Our largest remaining deliverable is developing a GIS model of the City's waste water treatment facility which is currently underway.

Perry Road and K-Mart Pump Station

The City of Bangor is currently in the process of putting a study out to bid to provide engineering services to evaluate both the Perry Road Pump station located in the Hildreth – Perry sewershed, and the K-Mart Pump Station located in the Penjajawoc sewershed. The intent for the Perry Road pump station work is to evaluate current and future flows to this pump station and replace the structure with a more up to date facility. The study will provide the necessary sizing for pump station components as well as the most beneficial location for the new facility along Perry Road.

The engineering study for the K-mart pump station will include an evaluation for the possibility of eliminating the pump station and carrying existing flows via a new gravity sewer. A cost analysis for total replacement of the pump station versus a new gravity line will be determined and a recommendation will be provided for the most beneficial approach forward.

It is anticipated that these studies will take about 8 months to complete and then final design plans and bidding documents will be developed for both locations. The City anticipates that construction for both these pump station project will occur during the spring and summer of 2025.

Small Projects Improvements

In addition to projects funded by the City of Bangor as major capital improvements and projects funded through the SRF program, the City of Bangor maintains an account especially designated for smaller sewer improvements that typically do not exceed \$100,000/location. These projects are completed by a Contractor that is under a multi-year agreement with the City to complete this work as it becomes available.

These projects are usually a proactive effort and determined by the City's ongoing CCTV camera inspection work.

There are occasions however, when this work is also reactive when sewer emergencies do occur. The City has been maintaining this Small Project's Account for 9 years and has been successful in completing a significant amount of repair work to the collection system. The following table summarizes the work that has been completed during 2023. The work includes the installation of 4 new precast concrete manholes to replace existing brick or barrel block manholes, 13 new precast concrete manholes to improve access, 779.5 feet of 8" PVC sewer main, 198 feet of 10" PVC sewer main, 706 feet of 12" PVC sewer main, and

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29 feet of 24" PVC sewer main. The new PVC sewer pipe replaced existing brick and tile sewer main that was no longer functioning properly. This work also included removing 2 private catch basins from the collection system and connecting them to City stormwater system. The total cost of work completed under the Small Projects Account for the year 2023 was approximately \$751,250.

Small Projects Account - Year 2023 Summary

Street Name (Nearest to Project)	Work Completed	Date Completed
Griffin Road	Replaced 27' of old clay sewer with new 8" PVC	4-7-23
Royal Road	Replaced 98' of old clay sewer with new 8" PVC. Replaced existing brick manhole with concrete manhole and provided new concrete manhole for improved access.	5-16-23
Norway Road	Replaced 62' of old clay sewer with new 8" PVC. Installed one new precast concrete manhole to provide improved maintenance access.	5-18-23
Harthorn Avenue	Replaced 304' of old 8" clay sewer with new 8" PVC and replaced 46' of old 12" clay sewer with new 12" PVC. Replaced one old brick manhole with new precast concrete manhole.	5-26-23
Pine Street	Replaced 29' of old brick sewer with new 24" PVC and replaced 5' of old 8" clay sewer with new 8" PVC. Provided 2 new concrete manholes to improve maintenance access.	6-7-23
Hammond Street	Replaced 413.5' of old 12" clay sewer with new 12" PVC. Replaced 10.5' of old 10" clay sewer with new 10" PVC. Replaced 18' of old 8" clay sewer with new 8" PVC. Added four new precast concrete manholes to improve access for maintenance	8-3-23
Garland Street	Replaced 8' of old clay sewer with new 8" PVC. Replaced existing failed manhole with concrete manhole	8-24-23
Norway Road	Replaced 75' of old 8 clay sewer with new 8" PVC.	8-28-23
Seventh Street	Replaced 33' of old clay sewer with new 10" PVC.	8-29-23

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Silver Road	Replaced 19' of old 8" clay sewer with new 8" PVC and provided 2 new precast concrete manholes to improve maintenance access.	9-5-23
Maple Street	Replaced 170.5' of old 12" clay sewer with new 12" PVC. Replaced 4' of old 8" clay sewer with new 8" PVC. Replaced 2 brick manholes with new precast concrete manhole and added 1 new precast concrete manhole to improve access for maintenance.	9-12-23
Parkview Avenue	Replaced 111' of old 10" clay sewer with new 10" PVC. Added 1 new precast concrete manhole to improve access for maintenance.	9-15-23
Birch Street	Replaced 151' of old 8" clay sewer with new 8" PVC.	9-20-23
Seventh Street	Replaced 24.5' of old 10" clay sewer with new 10" PVC.	10-2-23
Elm Street	Replaced 14' of old 10" clay sewer with new 10" PVC.	10-25-23
Stillwater Avenue	Replaced 8' of old 8" clay sewer with new 8" PVC. Replaced concrete block manhole with new precast Concrete manhole.	11-13-23
Clinton Court	Replaced 76' of old 12" clay sewer with new 12" PVC. Added 1 new precast concrete manhole to improve access for maintenance.	11-20-23

The Bangor City Council is supportive of the City's efforts towards the reduction of CSO's. The Council continues to provide funding for wastewater and stormwater separation projects within the City's annual budget. In 2023, the Council approved a rate increase of 5% to residents and users of the city's collection system for the 2024 fiscal year.

2. Weir and Regulator Adjustments

All regulators and weir level instrumentation were visibly inspected in the spring of 2023 and found to be functioning properly. No adjustments have been made this past year. Inspection of regulators and weirs are completed on an annual basis.

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3. Other

- Continued clearing cross-country sewer easement areas. Cleared cross-country easements have been maintained.
- Performed visual inspections of the cross-country sewer easements three times in 2023. This work is typically completed in the spring, summer, and fall.

4. Annual CSO Progress Report

The City of Bangor monitors flow at each of its CSO outfalls, either through the Supervisory Control and Data Acquisition (SCADA) system, a contract with ADS Environmental Services for electronic flow meters, or visual means. This data was used to prepare the Annual CSO Progress Report for 2022, which was submitted to Maine DEP on March 1, 2023. This report was copied to EPA.

Pursuant to the requirements of the City's Maine Pollutant Discharge Elimination (MEPDES) permit ME0100781, as revised, dated August 8, 2016, the City will submit the Annual CSO Progress Report for 2023 to Maine DEP by March 1, 2024. A copy of the report will also be submitted to EPA.

B. Illicit Connections

1. List of Illicit Connections

No Illicit connections were found in either the City's sanitary or stormwater collection systems during 2023.

2. GIS Map of Each Illicit Connection

No Illicit connections were found in either the City's sanitary or stormwater collection systems during 2023.

C. Collection System Assessments and Maintenance

Based on the most current GIS data available, the length of the inspectable portion of the City's sewer collection system is approximately 713,271 linear feet, or 135.1 miles. The length of the remaining components of the sewer collection system, including interceptors, force mains, siphons, and leads, is approximately 75,276 linear feet, or approximately 14.3 miles. Generally, interceptors, force mains, siphons, and leads are not able to be inspected using CCTV or flushed under normal operating circumstances using standard industry practices.

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There are approximately 3,410 manholes in the collection system, including the new ones added this year.

1. CCTV Assessments

The City and/or its subcontractors completed 107,498 linear feet of CCTV inspections within the publicly owned sewer collection system. This amount includes repeat CCTV inspections. The total length of system pipe investigated is 97,813 linear feet, or about 13.7% of the inspectable portion of the sewer collection system. Refer to [Appendix A](#) (CCTV Inspection Log) for a complete listing of CCTV inspections completed during the reporting period.

The City Invested \$83,000 in a portable IBAK CCTV system to allow inspection of cross-country sewer lines.

2. Manhole Assessments

The City and/or its subcontractors completed manhole inspections on 481 publicly owned sewer collection system manholes in 2023, which is about 14% of the total number of public manholes in the system. Refer to [Appendix B](#) (Manhole Inspection Log) for a complete listing of inspections completed during the reporting period.

3. Repairs, Replacements, or Upgrades Identified by CCTV

Refer to [Appendix C](#) (CCTV Repair, Replacement, and Upgrade Log) for a listing of repairs, replacements, or upgrades that were identified during CCTV investigations, as well as a schedule for implementation for those repairs, replacements, or upgrades that were not completed during the reporting period.

4. Cleaning

The City and/or its subcontractors cleaned 246,022 linear feet of pipe within the publicly owned sewer collection system in 2023, including repeat cleanings. The total length of pipe cleaned excluding repeat cleanings and additional passes is 89,011 linear feet, or about 12.5% of the inspectable portion (713,271 feet) of the sewer collection system. Refer to [Appendix D](#) (Cleaning Log), for a complete listing of cleaning completed during the reporting period. This includes cleaning done in advance of CCTV work and performed as part of routine maintenance activities. Note that lines are not always cleaned in advance of CCTV work, as sometimes it is beneficial to perform a CCTV investigation on a pipe without prior cleaning.

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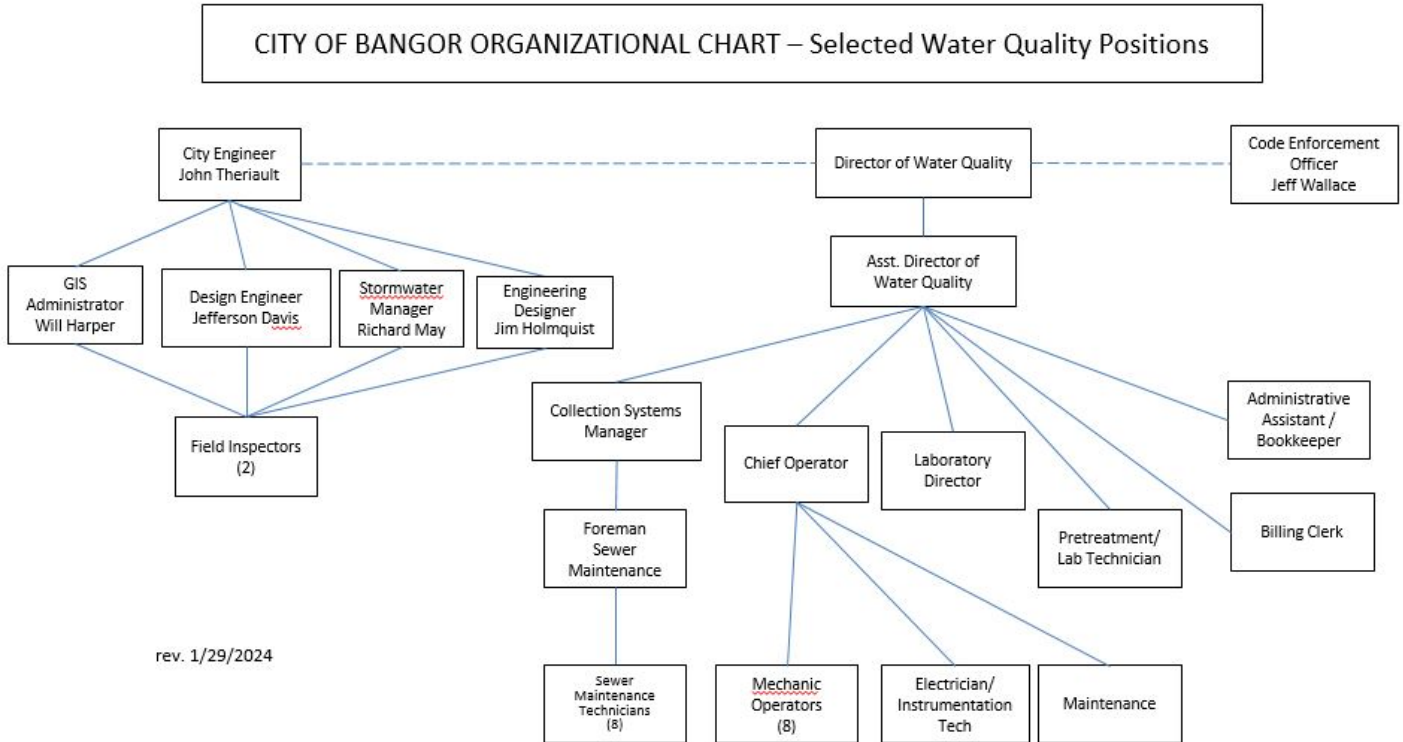
D. Maintenance Improvement Plan (MIP)

The City revises and updates the MIP on a yearly basis. The following substantive changes were made in 2023.

1. Plan Updates

a) *Organizational Structure, Information Management, Contacts*

The following is the current organization chart showing key positions.



b) *Changes to System Maps*

The collection system mapping is updated continuously throughout the year as part of the City's ongoing GIS infrastructure mapping program. The GIS dataset containing sewer, stormwater, and other relevant features is provided to EPA annually on July 1 pursuant to Par. 9.a. of the Consent Decree.

c) *Incorporation of Cleaning, Inspection, and Assessment Programs*

The City has a goal to clean, inspect, and assess 10% of its sewer collection system per year. The lists of pipes that were inspected and cleaned during the reporting period are included in [Appendix A](#) (CCTV Inspection Log) and [Appendix D](#) (Cleaning Log), respectively. The list of manholes that were inspected during the reporting period is included as [Appendix B](#) (Manhole Inspection Log).

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d) Changes to Sewer Use Ordinance or Fats, Oils, and Grease Program

There were no changes to the ordinance. The City continues to review CCTV footage and grease trap maintenance logs prior to renewal of victualer licenses. If necessary, the City captures additional CCTV inspections to determine if extra grease trap maintenance is required.

2. Performance Metrics

a) SSOs

SSO events that occurred during the reporting period are summarized in the table below. For a detailed listing of SSO events that occurred during the reporting period, refer to [Appendix E](#) (SSO Event Log).

Total number of SSOs	9
Estimated total volume of SSOs (gallons)	>427
Number of dry weather SSOs	0
Number of wet weather SSOs	4
Number of SSOs where weather was either unknown or irrelevant to type of incident	3
Number of SSOs caused primarily by pipe blockage (debris, grease)	2
Number of SSOs caused primarily by pipe failure	0

b) Routine Cleaning and CCTV Assessment

For the total amount of collections system pipe that was inspected by CCTV and cleaned during the reporting period, refer to [Appendix A](#) (CCTV Inspection Log) and [Appendix D](#) (Cleaning Log), respectively.

c) Pump Station Work Orders

There were 25 pump station work orders completed during the reporting period. Kenduskeag pump station is checked seven days per week. The other pump stations are visited a minimum of twice per week. During these checks, housekeeping, minor repairs, and adjustments are made that are not reflected on work orders.

d) Fats, Oils, and Grease (FOG)

During the 2023 reporting period, the City Code Office permitted the installation of six new interior grease traps and four replacement interior grease trap at ten locations. These grease traps were permitted and inspected through the Bangor City Code Department. The Bangor City Code Department requires and reviews grease trap maintenance logs at time of business license renewal. The Code office works with businesses to make sure they keep up-to-date with grease trap logs.

IV. Sanitary Sewer Overflows (SSOs)

A. Chronological List of SSOs

There were nine SSOs that occurred during the reporting period. Four of these SSOs were wet weather occurrences and two were due to blockages in the mains. Three SSOs occurred where weather had no impact to the SSOs and were a result of equipment failure and human error. Refer to [Appendix E \(SSO Event Log\)](#) for a complete listing of SSOs that occurred within the reporting period, as well as details regarding each incident.

B. GIS Map of Each SSO

Location maps of SSOs that occurred within the reporting period are included as [Appendix E \(Location Map of Sanitary Sewer Overflows\)](#).

V. Sanitary System Evaluation Survey (SSES) Update

For the past two years, the City of Bangor has been focused on conducting evaluations of the collection system within the sewer subsections of Meadowbrook, Cemetery, Kenduskeag West, and Hildreth-Perry. These sewer subsections are those that were prioritized in the Phase 4 SSES Scope of Work. During the spring of 2022 and 2023, the sewer crew completed 565 CCTV inspections. The breakdown of those inspections are as follows:

Meadowbrook: 326 inspections with about 87% of the Meadowbrook subsection complete

Cemetery: 149 inspections, with about 96% of the Cemetery subsection complete

Kenduskeag West: 92 inspections with about 55% of Kenduskeag West subsection complete

Hildreth Perry: 0 inspections

VI. CSO Long-Term Control Plan (LTCP) Update

The City has removed an estimated 601,528 GPD of infiltration and inflow from the system since 2015. This is a result of continued work on our collection system through projects outlined within the LTCP as well as ongoing annual maintenance and repair projects completed by the City.

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Year	No. of Projects	I/I removed (GPD)
2016	1	5,600
2017	3	5,800
2018	1	4,200
2019	3	394,000
2020	4	85,300
2021	2	33,300
2022	3	53,820
2023	1*	19,508
TOTAL	14	601,528

** Projects included for 2023 estimate of reduction of infiltration include the work associated with our small projects program as summarized earlier in this report.*

***The 2023 estimate is based on the length of new sewer installed that replaced older sewer and assumes a reduction of infiltration of 6,000 GPD * Inch Diameter * miles of sewer.*

VII. Compliance Activities Planned for Following Reporting Period

The following activities, in no particular order, are planned for the next reporting period in order to achieve compliance with the requirements of the Consent Decree and reduce CSO and SSO volumes:

- Locate and redirect illicit connections as part of Municipal Separate Storm Sewer System (MS4) permit compliance activities.
- Continue work under the City’s sewer spot repair contract (Small Projects Account) to prioritize and repair trouble spots and other defects in the collection system.
- Clean, perform CCTV inspections, and identify upgrades, repairs, or replacements needed in the collection system, covering a minimum of 10% of the collection system per year. Areas of focus for the next reporting period include Cemetery, Hildreth-Perry, Kenduskeag West, and Meadowbrook sewersheds as outlined in our Phase 4 SSES Scope of Work.
- Continue collection system maintenance activities such as easement clearing and easement inspections.
- Submit the Annual CSO Progress Report to DEP and EPA, due on or before March 1, 2024.

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- Continue monitoring of the Davis Brook CSO Storage Tank within the Davis Brook sewer subsection to determine impacts of Davis Brook Tank on CSO frequency and volumes within collection system.
- Continue to update WWTP and collection system SCADA system.
- Complete design for stormwater separation project in Meadowbrook sewer shed.
- Complete evaluation of Barkersville Regulator Structure and determine what improvements, if any, can be completed to reduce CSO's at this location prior to design of Barkersville CSO Tank.
- Review and evaluate future options for upgrades to K-Mart and Perry Road Pump Stations.

Note that certain of the above-described tasks planned for the next reporting period may be subject to adjustment due to changing priorities (including, among other things, the need to prioritize emergency repairs) and to take advantage of opportunities that may arise to align capital projects with other utility or roadway resurfacing work.

Appendices

- A. CCTV Inspection Log**
- B. Manhole Inspection Log**
- C. CCTV Repair, Replacement, and Upgrade Log**
- D. Cleaning Log**
- E. SSO Event Log**
- F. Location Map of Sanitary Sewer Overflows**

Appendix A
CCTV Inspection Log

APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine

Calendar Year 2023

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
AB002	Arctic Brook	1/10/2023	87	No	No	
AB003	Arctic Brook	1/10/2023	211.6	No	No	
AB004	Arctic Brook	1/10/2023	71.8	No	No	
AB023	Arctic Brook	1/10/2023	299.7	Yes	No	
AB024	Arctic Brook	1/10/2023	44.7	Yes	No	
AB035	Arctic Brook	1/31/2023	91	No	No	
AB057	Arctic Brook	1/30/2023	367.6	Yes	Yes	
AB083	Arctic Brook	1/19/2023	362.8	Yes	No	
AB085	Arctic Brook	5/11/2023	200.6	Yes	No	Sinkhole inspection
AB103	Arctic Brook	1/31/2023	30.8	No	No	
AB104	Arctic Brook	1/30/2023	203	Yes	No	
AB105	Arctic Brook	1/30/2023	13.5	Yes	No	
AB111	Arctic Brook	1/30/2023	130.6	Yes	No	
AB112	Arctic Brook	1/30/2023	14.3	No	No	
AB125	Arctic Brook	1/30/2023	1.1	No	No	
AB131	Arctic Brook	12/29/2023	241.5	Yes	No	
AB151	Arctic Brook	1/31/2023	235.1	Yes	No	
AB301	Arctic Brook	2/6/2023	736.9	Yes	No	Paving List Inspection
AB356	Arctic Brook	5/4/2023	288.7	Yes	No	Paving List Inspection
AB356	Arctic Brook	5/8/2023	345.8	Yes	Yes	Paving List Inspection
AB371	Arctic Brook	5/10/2023	43.5	Yes	No	Paving List Inspection
AB371	Arctic Brook	5/11/2023	114.3	Yes	No	Paving List Inspection
AB451	Arctic Brook	5/8/2023	5.3	No	No	
AB458	Arctic Brook	2/10/2023	115.9	Yes	No	Customer Issue
AB460	Arctic Brook	2/7/2023	313.7	Yes	No	
AB513	Arctic Brook	2/10/2023	129.8	Yes	Yes	
AB514	Arctic Brook	2/10/2023	37.5	No	No	
AB515	Arctic Brook	2/10/2023	124.8	No	No	
AB515	Arctic Brook	5/9/2023	267.7	Yes	No	Resurvey after flushing
AB516	Arctic Brook	5/9/2023	336.3	No	No	
AB591	Arctic Brook	2/7/2023	9.8	No	No	
AB608	Arctic Brook	2/9/2023	346.2	No	No	
AB609	Arctic Brook	2/9/2023	263	No	No	
AB610	Arctic Brook	2/9/2023	487.8	Yes	No	
AB620	Arctic Brook	2/7/2023	130.8	Yes	No	Post Rehab
AB624	Arctic Brook	2/1/2023	230.3	Yes	No	Paving List Inspection
AB625	Arctic Brook	2/8/2023	281	Yes	No	Paving List Inspection
AB650	Arctic Brook	2/8/2023	14.1	Yes	No	
AB651	Arctic Brook	2/8/2023	147	Yes	No	
AP021	Airport	9/13/2023	239.7	No	No	
AP025	Airport	6/22/2023	4.4	Yes	No	
AP025	Airport	6/26/2023	58.4	Yes	Yes	
AP026	Airport	6/22/2023	0.1	Yes	No	
AP026	Airport	6/22/2023	150.6	Yes	Yes	
AP050	Airport	2/16/2023	209.3	Yes	No	
AP051	Airport	2/16/2023	298	No	No	
AP052	Airport	2/16/2023	317/6	No	No	
AP072	Airport	6/22/2023	13.5	Yes	No	
AP072	Airport	6/22/2023	215	Yes	Yes	
AP101	Airport	7/19/2023	323.2	No	No	
AP102	Airport	7/19/2023	256.7	No	No	

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AP206	Airport	2/14/2023	353	Yes	No	
AP230	Airport	1/17/2023	32.4	Yes	No	Sewer backup investigation
AP231	Airport	1/11/2023	185.6	Yes	No	Sewer backup investigation
AP231	Airport	1/12/2023	183.8	Yes	No	Sewer backup investigation
AP231	Airport	1/13/2023	8.8	Yes	Yes	Sewer backup investigation
AP231	Airport	4/5/2023	183.3	Yes	No	Routine maintenance inspection
AP231	Airport	4/7/2023	194.8	Yes	No	Post Rehab
AP232	Airport	1/17/2023	193.5	Yes	No	Sewer backup investigation
AP233	Airport	1/17/2023	291.7	Yes	No	Sewer backup investigation
AP242	Airport	11/28/2023	282.2	Yes	No	Routine maintenance inspection
AP243	Airport	11/28/2023	44.5	Yes	No	Routine Maintenance Inspection
AP250	Airport	2/15/2023	252.8	Yes	No	
AP251	Airport	2/15/2023	287.5	Yes	No	
AP261	Airport	11/29/2023	135.8	Yes	No	Routine maintenance inspection
AP262	Airport	11/29/2023	173.3	Yes	No	Routine maintenance inspection
AP263	Airport	11/29/2023	228.3	Yes	No	Routine maintenance inspection
AP264	Airport	11/29/2023	277	Yes	No	Routine maintenance inspection
AP265	Airport	11/29/2023	40.5	Yes	No	Routine Maintenance Inspection
AP270	Airport	11/29/2023	135.8	Yes	No	Routine maintenance inspection
AP271	Airport	11/29/2023	171.5	Yes	No	Routine maintenance inspection
AP280	Airport	11/28/2023	167.5	Yes	No	Routine Maintenance Inspection
AP281	Airport	11/28/2023	86	Yes	No	Routine Maintenance Inspection
AP282	Airport	11/28/2023	156.1	Yes	No	Routine Maintenance Inspection
AP283	Airport	11/28/2023	230.3	Yes	No	Routine Maintenance Inspection
AP284	Airport	11/22/2023	105.5	Yes	No	Routine Maintenance Inspection
AP285	Airport	11/22/2023	192.8	Yes	No	Routine Maintenance Inspection
AP286	Airport	11/22/2023	298	Yes	No	Routine Maintenance Inspection
AP286	Airport	11/22/2023	104.3	Yes	Yes	Routine Maintenance Inspection
AP290	Airport	11/29/2023	155.5	Yes	No	Routine maintenance inspection
AP291	Airport	11/29/2023	38.4	Yes	No	Routine Maintenance Inspection
AP304	Airport	2/15/2023	140.6	No	No	
AP305	Airport	2/15/2023	270.2	No	No	
AP306	Airport	2/15/2023	190.1	No	No	
AP307	Airport	2/15/2023	4.3	No	No	
AP324	Airport	2/16/2023	214.1	No	No	
AP325	Airport	12/1/2023	241.8	Yes	No	Routine Maintenance Inspection
AP326	Airport	12/1/2023	143.3	Yes	No	Routine Maintenance Inspection
AP327	Airport	11/30/2023	59.4	Yes	No	Routine Maintenance Inspection
AP328	Airport	11/30/2023	305.7	Yes	No	Routine Maintenance Inspection
AP329	Airport	11/30/2023	247.3	Yes	No	Routine Maintenance Inspection
AP330	Airport	11/21/2023	236.6	Yes	No	Routine Maintenance Inspection
AP330	Airport	11/30/2023	236.8	Yes	No	Routine Maintenance Inspection
AP331	Airport	11/21/2023	70.5	Yes	No	Routine maintenance inspection
AP331	Airport	11/30/2023	246.8	Yes	No	Routine Maintenance Inspection - Resurvey
AP332	Airport	11/21/2023	15.1	Yes	No	Routine Maintenance Inspection
AP332	Airport	11/30/2023	299.7	Yes	No	Routine Maintenance Inspection - Resurvey
AP332	Airport	11/30/2023	1.1	Yes	Yes	Routine Maintenance Inspection - Resurvey
AP333	Airport	11/21/2023	3	Yes	No	Routine maintenance inspection

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AP333	Airport	11/30/2023	158	Yes	No	Routine Maintenance Inspection - Resurvey
AP340	Airport	11/21/2023	131	Yes	No	Routine maintenance inspection
AP341	Airport	11/21/2023	204.6	Yes	No	Routine maintenance inspection
AP342	Airport	11/21/2023	280.1	Yes	No	Routine maintenance inspection
AP343	Airport	11/21/2023	196.8	Yes	No	Routine maintenance inspection
AP344	Airport	11/21/2023	199.1	Yes	No	Routine maintenance inspection
AP345	Airport	11/21/2023	298.1	Yes	No	Routine maintenance inspection
AP346	Airport	11/21/2023	299	Yes	No	Routine maintenance inspection
AP350	Airport	12/1/2023	50.2	Yes	No	Routine Maintenance Inspection
AP351	Airport	5/30/2023	130.6	Yes	No	Sewer backup investigation
AP351	Airport	5/30/2023	157.3	Yes	No	Sewer backup investigation - Resurvey
AP351	Airport	12/1/2023	157	Yes	No	Routine Maintenance Inspection
AP352	Airport	5/30/2023	324.7	Yes	No	Sewer backup investigation
AP352	Airport	12/1/2023	321.6	Yes	No	Routine Maintenance Inspection
AP353	Airport	5/30/2023	264.2	Yes	No	Sewer Backup investigation
AP354	Airport	5/30/2023	44.2	Yes	No	Sewer Backup investigation
AP360	Airport	12/1/2023	130.3	Yes	No	Routine Maintenance Inspection
AP370	Airport	11/28/2023	204.1	Yes	No	Routine maintenance inspection
AP371	Airport	11/28/2023	186.5	Yes	No	Routine maintenance inspection
AP372	Airport	11/28/2023	166	Yes	No	Routine maintenance inspection
AP373	Airport	11/28/2023	296.5	Yes	No	Routine maintenance inspection
AP374	Airport	11/29/2023	259.7	Yes	No	Routine maintenance inspection
AP390	Airport	11/29/2023	213.5	Yes	No	Routine maintenance inspection
AP450	Airport	6/8/2023	78.9	Yes	No	Routine maintenance inspection
AP472	Airport	2/17/2023	150.3	No	No	
AP480	Airport	2/17/2023	227.1	No	No	
AP482	Airport	2/21/2023	377	Yes	No	
AP504	Airport	2/27/2023	9.6	No	No	High flow investigation
AP504	Airport	2/27/2023	446.2	Yes	Yes	High flow investigation
AP505	Airport	2/28/2023	12	Yes	No	High flow investigation
AP505	Airport	2/28/2023	158.1	Yes	No	High flow investigation
AP505A	Airport	10/12/2023	10.3	Yes	No	High flow investigation
AP506	Airport	3/13/2023	63.5	Yes	No	Sinkhole inspection
AP506	Airport	3/13/2023	161.3	Yes	No	Sinkhole inspection - resurvey
AP506	Airport	10/12/2023	64.5	Yes	No	High flow investigation
AP507	Airport	10/18/2023	117.9	Yes	No	High flow investigation
AP508	Airport	10/18/2023	203.3	Yes	No	High flow investigation
AP511	Airport	2/22/2023	1.5	No	No	
AP512	Airport	2/28/2023	133.8	No	No	
AP512A	Airport	2/22/2023	91.5	No	No	
AP514	Airport	2/22/2023	87.1	Yes	Yes	
AP515	Airport	2/22/2023	362.7	Yes	No	
AP520	Airport	2/21/2023	13.1	Yes	No	High flow investigation
AP530	Airport	10/18/2023	216.5	Yes	No	High flow investigation
AP532	Airport	2/28/2023	37	Yes	No	Locating service connections
AP532	Airport	2/28/2023	26.6	Yes	Yes	Locating service connections
AP533	Airport	2/28/2023	144.8	Yes	No	Locating service connections
AP540	Airport	2/28/2023	7.5	No	Yes	Reversal
AP540	Airport	10/18/2023	152	Yes	No	High flow investigation

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AP541A	Airport	2/28/2023	151.3	Yes	No	
AP545	Airport	2/28/2023	65	No	No	
AP621	Airport	6/20/2023	66.1	Yes	No	Locating u/s mh
AP621	Airport	6/21/2023	173.6	Yes	Yes	Reversal
AP622	Airport	6/21/2023	279.3	Yes	No	Locating d/s mh
AP622	Airport	6/21/2023	280.8	Yes	No	Resurvey after flushing
AP652	Airport	2/28/2023	316.6	Yes	No	Paving List Inspection
AP705A	Airport	6/6/2023	13.3	No	No	
AS001	Autumn Street	6/8/2023	50	No	No	
AS003	Autumn Street	6/8/2023	384.8	Yes	No	Inspection complete
BS015	Blanchard Street	6/8/2023	359	Yes	No	
BS016	Blanchard Street	6/8/2023	54.2	Yes	No	
BS800	Blanchard Street	6/8/2023	162.3	Yes	No	
BS801	Blanchard Street	6/8/2023	348.3	Yes	No	
BU012	Burleigh	6/6/2023	72.8	Yes	No	
BU020	Burleigh	7/11/2023	155.8	Yes	No	Locating d/s mh
BU022	Burleigh	6/6/2023	211.3	Yes	No	Sinkhole inspection
BU022	Burleigh	7/7/2023	211.6	Yes	No	Sinkhole inspection
BU023	Burleigh	7/7/2023	297.7	Yes	No	Sinkhole inspection
BU027	Burleigh	6/9/2023	2	Yes	Yes	
BU027	Burleigh	6/12/2023	279.5	Yes	No	Resurvey after flushing
BU027	Burleigh	6/12/2023	54.9	Yes	Yes	Resurvey after flushing
BU028	Burleigh	6/12/2023	291.6	No	No	
BU028	Burleigh	6/13/2023	373.7	No	Yes	After maintenance
BU029	Burleigh	6/13/2023	348.3	Yes	No	
BU030	Burleigh	6/13/2023	311.8	Yes	No	
BU031	Burleigh	6/13/2023	420.7	Yes	No	
BU032	Burleigh	6/13/2023	299.5	Yes	No	
BU100	Burleigh	6/14/2023	107.1	No	No	Paving List Inspection
BU101	Burleigh	6/14/2023	228.8	No	No	Paving List Inspection
BU102	Burleigh	6/14/2023	296.3	No	No	Paving List Inspection
BU103	Burleigh	6/14/2023	295.7	No	No	Paving List Inspection
BU104	Burleigh	6/14/2023	292.7	No	No	Paving List Inspection
BU105	Burleigh	6/15/2023	314.2	No	No	Paving List Inspection
BU106	Burleigh	6/15/2023	30.5	No	No	Paving List Inspection
BU106	Burleigh	6/15/2023	230	No	Yes	Paving List Inspection
BU107	Burleigh	6/15/2023	280.2	No	No	Paving List Inspection
BU200	Burleigh	6/15/2023	259.5	Yes	No	Paving List Inspection
BU201	Burleigh	6/15/2023	250.1	No	No	Paving List Inspection
BU202	Burleigh	6/21/2023	303.7	No	No	Paving List Inspection
BU203	Burleigh	6/21/2023	299.8	No	No	Paving List Inspection
BU204	Burleigh	6/21/2023	300.1	No	No	Paving List Inspection
BU516	Burleigh	6/20/2023	32.9	Yes	No	
BU700	Burleigh	6/6/2023	208.1	No	No	
BU703	Burleigh	6/5/2023	229	Yes	No	Investigating u/s mh connection
BV011	Barkersville	4/4/2023	87.5	No	No	Locating d/s mh
BV012	Barkersville	4/4/2023	20	No	No	Locating d/s mh
BV013	Barkersville	4/4/2023	181.6	No	No	Locating d/s mh
BV028	Barkersville	6/13/2023	293.7	Yes	No	Locating u/s mh
BV028A	Barkersville	6/14/2023	399.2	Yes	No	Locating d/s mh
BV035	Barkersville	10/24/2023	0.2	Yes	No	Locating service connections

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BV035	Barkersville	10/27/2023	4.8	Yes	No	Locating service connections
BV055	Barkersville	12/26/2023	713.9	Yes	No	Paving List Inspection
BV056	Barkersville	12/26/2023	172.1	Yes	No	Paving List Inspection
BV130	Barkersville	6/15/2023	146.8	Yes	No	
BV407	Barkersville	9/7/2023	170	Yes	No	Post Rehab
BV420	Barkersville	9/5/2023	257	Yes	No	Post Rehab
BV425	Barkersville	9/5/2023	377	Yes	No	Post Rehab
BV484	Barkersville	7/11/2023	49.2	No	No	Post Rehab
BV485	Barkersville	1/12/2023	59.2	Yes	No	Customer Issue
BV485	Barkersville	1/12/2023	183.5	Yes	No	Customer Issue
BV485	Barkersville	6/5/2023	339.7	Yes	No	Post Rehab
BV485A	Barkersville	6/5/2023	0.2	Yes	No	Post Rehab
BV507	Barkersville	5/17/2023	193.3	Yes	No	Checking sewer main layout
BV511	Barkersville	4/13/2023	11	Yes	No	Sinkhole inspection
BV535	Barkersville	3/17/2023	150.3	Yes	No	Customer Issue
BV535	Barkersville	3/23/2023	1.3	Yes	No	Post Rehab
BV565A	Barkersville	5/16/2023	1.4	No	No	Checking sewer main layout
BV565A	Barkersville	5/16/2023	0.1	No	Yes	Checking sewer main layout
BV565A	Barkersville	5/16/2023	43.2	Yes	No	Resurvey after flushing
BV577	Barkersville	5/18/2023	216.6	Yes	No	Looking for connection
BV600	Barkersville	5/12/2023	479	Yes	No	Paving List Inspection
BV603	Barkersville	10/3/2023	314.7	Yes	No	Post Rehab
BV603	Barkersville	10/5/2023	117.9	Yes	Yes	Post Rehab - Reversal
BV604	Barkersville	10/3/2023	319.8	Yes	No	Post Rehab
BV626	Barkersville	10/5/2023	263.7	Yes	No	Post Rehab
BV640	Barkersville	5/16/2023	68	Yes	No	Post Rehab
BV645	Barkersville	5/10/2023	72.6	No	No	Locating end of line
BV645	Barkersville	5/16/2023	46.7	Yes	Yes	Post Rehab
BV650	Barkersville	10/3/2023	184.1	Yes	Yes	Post Rehab - Reversal
BV655	Barkersville	10/3/2023	192.8	Yes	Yes	Post Rehab - Reversal
BV660	Barkersville	9/7/2023	88	Yes	No	Post Rehab
BV670	Barkersville	5/9/2023	156.8	Yes	No	
BV700	Barkersville	5/8/2023	95	No	No	
BV700	Barkersville	8/8/2023	100.9	Yes	No	Post Rehab
BV700A	Barkersville	8/8/2023	5.9	No	No	Post Rehab
BV701	Barkersville	10/5/2023	309.2	Yes	No	Post Rehab
BV704	Barkersville	5/4/2023	22.2	Yes	No	
BV705	Barkersville	5/4/2023	579.5	Yes	No	
BV705	Barkersville	6/27/2023	317.6	Yes	No	Post Rehab
BV705A	Barkersville	6/27/2023	188.1	Yes	No	Post Rehab
BV715A	Barkersville	6/27/2023	196.3	No	No	
BV725	Barkersville	6/27/2023	312.2	Yes	Yes	
BV752	Barkersville	6/22/2023	30	Yes	No	
BV762	Barkersville	12/20/2023	357	Yes	No	Sinkhole inspection
CB100A	Carr Brook	8/16/2023	73.1	Yes	No	Post Rehab
CB122	Carr Brook	9/26/2023	50.2	Yes	No	Routine maintenance inspection
CB122	Carr Brook	9/26/2023	52	Yes	No	Routine Maintenance Inspection - Resurvey
CB123	Carr Brook	9/26/2023	49	Yes	No	Routine maintenance inspection
CB125	Carr Brook	9/25/2023	331.7	Yes	No	Routine maintenance inspection
CB126	Carr Brook	9/25/2023	357.3	Yes	No	Routine maintenance inspection

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CB603	Carr Brook	10/4/2023	2.2	Yes	No	Post Rehab
CB603	Carr Brook	10/4/2023	531.5	Yes	Yes	Post Rehab - Reversal
CB604	Carr Brook	5/3/2023	106.4	Yes	No	
CB701	Carr Brook	9/14/2023	226	Yes	No	Post Rehab
CB701A	Carr Brook	9/14/2023	114	Yes	No	Post Rehab
CB701B	Carr Brook	9/14/2023	43.2	No	No	Post Rehab
CB702	Carr Brook	9/7/2023	91.3	Yes	No	Post Rehab
CB702	Carr Brook	9/8/2023	70.3	Yes	Yes	Routine maintenance inspection
CB702	Carr Brook	9/8/2023	92.6	Yes	No	Resurvey after flushing
CB702	Carr Brook	9/8/2023	72	Yes	Yes	Resurvey after flushing
CB750	Carr Brook	5/2/2023	212.3	Yes	No	Customer Issue
CB851	Carr Brook	10/4/2023	309.5	Yes	No	Post Rehab
CB851A	Carr Brook	10/4/2023	97	No	No	Post Rehab
CM009	Cemetery	5/16/2023	134.8	Yes	No	I/I Inspection
CM009A	Cemetery	5/16/2023	312.5	Yes	No	I/I Inspection
CM010	Cemetery	5/16/2023	21.6	Yes	No	I/I Inspection
CM010A	Cemetery	5/16/2023	192.6	Yes	No	I/I Inspection
CM011	Cemetery	5/16/2023	221.3	Yes	No	I/I Inspection
CM014	Cemetery	5/16/2023	204.6	Yes	No	I/I Inspection
CM100A	Cemetery	5/16/2023	15.8	Yes	No	I/I Inspection
CM100A	Cemetery	5/16/2023	37.4	Yes	Yes	I/I Inspection
CM101	Cemetery	5/16/2023	211.1	Yes	No	I/I Inspection
CM102	Cemetery	5/16/2023	253	Yes	No	I/I Inspection
CM103	Cemetery	5/16/2023	299	Yes	No	I/I Inspection
CM103A	Cemetery	5/16/2023	148.6	Yes	No	I/I Inspection
CM104	Cemetery	5/16/2023	94.9	Yes	No	I/I Inspection
CM106	Cemetery	5/18/2023	83.1	Yes	No	I/I Inspection
CM107	Cemetery	5/18/2023	125.6	Yes	No	I/I Inspection
CM107A	Cemetery	5/18/2023	262	Yes	No	I/I Inspection
CM107B	Cemetery	5/18/2023	193.1	Yes	No	I/I Inspection
CM250	Cemetery	5/17/2023	127.5	Yes	No	I/I Inspection
CM251	Cemetery	5/17/2023	351.7	Yes	No	I/I Inspection
CM252	Cemetery	5/16/2023	435.7	Yes	No	I/I Inspection
CM301	Cemetery	5/17/2023	69.3	Yes	No	I/I Inspection
CM301	Cemetery	5/18/2023	381.1	Yes	Yes	I/I Inspection
CM302	Cemetery	5/17/2023	305.2	Yes	No	I/I Inspection
CM303	Cemetery	5/17/2023	228.8	Yes	No	I/I Inspection
CM352	Cemetery	5/17/2023	248.3	Yes	No	I/I Inspection
CM401	Cemetery	5/17/2023	11.6	Yes	No	I/I Inspection
CM402	Cemetery	5/17/2023	297.3	Yes	No	I/I Inspection
CM517	Cemetery	5/18/2023	320.1	Yes	No	I/I Inspection
CM519	Cemetery	5/18/2023	226.1	Yes	No	I/I Inspection
CM520	Cemetery	5/18/2023	187	Yes	No	I/I Inspection
CM571	Cemetery	5/18/2023	118.1	Yes	No	I/I Inspection
CM580	Cemetery	5/24/2023	305.6	Yes	No	I/I Inspection
CM581	Cemetery	5/24/2023	196.6	Yes	No	I/I Inspection
CM590	Cemetery	5/18/2023	209.3	Yes	No	I/I Inspection
CM591	Cemetery	5/18/2023	188.6	Yes	No	I/I Inspection
CM602	Cemetery	5/22/2023	252.5	Yes	No	I/I Inspection
CM603	Cemetery	5/22/2023	237	Yes	No	I/I Inspection
CM650	Cemetery	5/22/2023	37	Yes	No	I/I Inspection

APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine
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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
CM651	Cemetery	5/22/2023	252.3	Yes	No	I/I Inspection
CM652	Cemetery	5/22/2023	284.6	Yes	No	I/I Inspection
CM691	Cemetery	5/23/2023	298.2	Yes	No	I/I Inspection
CM704	Cemetery	5/24/2023	254.3	Yes	No	I/I Inspection
CM790	Cemetery	5/24/2023	261.7	Yes	No	I/I Inspection
CM791	Cemetery	5/24/2023	256.1	Yes	No	I/I Inspection
CM800	Cemetery	5/23/2023	245.8	Yes	No	I/I Inspection
CM801	Cemetery	5/23/2023	247.6	Yes	No	I/I Inspection
CM802	Cemetery	5/23/2023	319.2	Yes	No	I/I Inspection
CM870	Cemetery	5/23/2023	214.1	Yes	No	I/I Inspection
CM880	Cemetery	5/23/2023	168.3	Yes	No	I/I Inspection
DB015	Davis Brook	1/4/2023	36.5	Yes	No	Sinkhole inspection
DB024A	Davis Brook	1/24/2023	79.9	Yes	No	Customer Issue
DB025	Davis Brook	7/25/2023	37.4	Yes	No	Post Rehab
DB025	Davis Brook	7/28/2023	341.7	Yes	No	Post Rehab - Resurvey
DB026	Davis Brook	5/8/2023	76.8	Yes	No	Looking for connection
DB237	Davis Brook	9/21/2023	441.3	Yes	No	Sewer backup investigation
DB241	Davis Brook	9/28/2023	467.2	Yes	No	Dye confirming service connections
DB242	Davis Brook	9/21/2023	197.1	Yes	No	Dye confirming service connections
DB243R01	Davis Brook	10/24/2023	3	No	No	
DB306	Davis Brook	7/25/2023	339.8	Yes	No	Dye confirming service connections
DB350	Davis Brook	9/19/2023	13.8	Yes	No	
DB350	Davis Brook	10/5/2023	5.3	Yes	Yes	
DB350	Davis Brook	11/17/2023	139.3	Yes	No	Locating line
DB350A	Davis Brook	10/5/2023	104.6	Yes	Yes	
DB505	Davis Brook	7/11/2023	142.3	Yes	No	Customer Issue
DB506	Davis Brook	7/11/2023	157.1	Yes	No	Customer Issue
DB507	Davis Brook	7/11/2023	93.5	Yes	No	Customer Issue
DB563	Davis Brook	5/16/2023	166.3	Yes	No	
DB563	Davis Brook	5/16/2023	60.4	Yes	Yes	
DB630	Davis Brook	5/4/2023	96.3	Yes	Yes	
DB701	Davis Brook	10/16/2023	32	Yes	No	
DB704	Davis Brook	5/11/2023	58.3	Yes	No	Continued from left off location
DB704	Davis Brook	5/11/2023	359	Yes	No	Checking sewer main layout
DB704	Davis Brook	5/12/2023	91.6	Yes	Yes	Checking sewer main layout
DB730	Davis Brook	3/23/2023	40	Yes	No	Customer Issue
DB730	Davis Brook	10/17/2023	348.3	Yes	Yes	
DB850	Davis Brook	1/24/2023	66.5	Yes	No	Customer Issue
DB950	Davis Brook	5/8/2023	107	Yes	No	Locating line
DW203	Dow	2/15/2023	333.6	Yes	No	Locating service connections
DW250	Dow	7/28/2023	6.4	Yes	No	
DW250	Dow	7/28/2023	223.6	Yes	Yes	
DW251	Dow	7/28/2023	262.1	Yes	No	
DW277	Dow	5/18/2023	58.5	No	No	Post Rehab
DW278	Dow	10/4/2023	436.2	Yes	No	Post Rehab
FK902	Franklin Street	8/31/2023	165.6	Yes	No	Grease investigation
HD010	Hampden	11/7/2023	106	No	No	Locating line
HD010R01	Hampden	11/7/2023	26.1	No	No	Looking for connection
HK012	Hancock Street	6/23/2023	402.8	Yes	No	Customer Issue
HK031	Hancock Street	4/13/2023	12.3	Yes	No	
HK032	Hancock Street	4/13/2023	130.3	Yes	No	

APPENDIX A: CCTV INSPECTION LOG

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
HK033	Hancock Street	4/13/2023	101.8	Yes	No	
HK213	Hancock Street	10/3/2023	373.7	Yes	No	Customer Issue
HK230	Hancock Street	12/14/2023	127.9	Yes	No	
HK521	Hancock Street	1/6/2023	187.8	Yes	No	Customer Issue
HK522	Hancock Street	1/6/2023	184.1	Yes	No	Customer Issue
HK626	Hancock Street	8/10/2023	192.6	Yes	No	Sinkhole inspection
HP222	Hildreth Perry	11/8/2023	251.3	Yes	No	Grease investigation
HP407	Hildreth Perry	11/9/2023	124	Yes	No	Sinkhole inspection
HP408	Hildreth Perry	11/9/2023	398.6	Yes	No	Sinkhole inspection
KE500	Kenduskeag East	6/16/2023	2.5	Yes	No	Post Rehab
KE500	Kenduskeag East	6/16/2023	367.6	Yes	Yes	Post Rehab - Reversal
KE500A	Kenduskeag East	6/16/2023	1	No	No	Post Rehab
KE701	Kenduskeag East	5/4/2023	390.8	Yes	No	
KW019	Kenduskeag West	7/18/2023	282	Yes	No	Grease investigation
KW071	Kenduskeag West	7/28/2023	66.5	Yes	No	Post Rehab
KW101	Kenduskeag West	3/28/2023	303.6	Yes	No	Sinkhole inspection
KW182	Kenduskeag West	5/17/2023	9.8	No	No	I/I Inspection
KW183	Kenduskeag West	5/18/2023	68.4	No	No	I/I Inspection
KW184	Kenduskeag West	5/17/2023	131	No	No	I/I Inspection
KW186A	Kenduskeag West	5/17/2023	3.9	No	No	I/I Inspection
KW187	Kenduskeag West	5/18/2023	73.4	No	No	I/I Inspection
MB003	Meadowbrook	3/2/2023	247.1	Yes	No	I/I Inspection
MB003	Meadowbrook	5/8/2023	246.3	Yes	No	Sinkhole inspection
MB004	Meadowbrook	3/2/2023	131.6	Yes	No	I/I Inspection
MB005	Meadowbrook	3/2/2023	143.3	Yes	No	I/I Inspection
MB006	Meadowbrook	3/2/2023	227.5	Yes	No	I/I Inspection
MB007	Meadowbrook	3/2/2023	191.8	Yes	No	I/I Inspection
MB008	Meadowbrook	3/2/2023	194	Yes	No	I/I Inspection
MB009	Meadowbrook	3/2/2023	179.1	Yes	No	I/I Inspection
MB011	Meadowbrook	3/6/2023	79.6	Yes	No	I/I Inspection
MB012	Meadowbrook	3/6/2023	91.6	Yes	No	I/I Inspection
MB013	Meadowbrook	3/6/2023	136.6	Yes	No	I/I Inspection
MB014	Meadowbrook	3/6/2023	180.6	Yes	No	I/I Inspection
MB015	Meadowbrook	3/6/2023	137	Yes	No	I/I Inspection
MB018	Meadowbrook	3/6/2023	176.6	Yes	Yes	I/I Inspection
MB019	Meadowbrook	3/6/2023	192.5	Yes	No	I/I Inspection
MB019A	Meadowbrook	3/6/2023	42.4	Yes	No	I/I Inspection
MB020	Meadowbrook	3/6/2023	117.8	Yes	No	I/I Inspection
MB021	Meadowbrook	3/6/2023	216.8	Yes	No	I/I Inspection
MB022	Meadowbrook	3/6/2023	112.5	Yes	No	I/I Inspection
MB024	Meadowbrook	3/6/2023	368.2	Yes	No	I/I Inspection
MB025	Meadowbrook	3/7/2023	72.1	No	No	I/I Inspection
MB026	Meadowbrook	3/7/2023	17	Yes	No	I/I Inspection
MB027	Meadowbrook	3/7/2023	124.3	Yes	No	I/I Inspection
MB028	Meadowbrook	3/7/2023	115.3	Yes	No	I/I Inspection
MB029	Meadowbrook	3/1/2023	41.7	Yes	No	I/I Inspection
MB030	Meadowbrook	3/1/2023	209.8	Yes	No	I/I Inspection
MB031	Meadowbrook	3/1/2023	315.7	Yes	No	I/I Inspection
MB032	Meadowbrook	3/1/2023	321.7	Yes	No	I/I Inspection
MB034	Meadowbrook	3/7/2023	237.6	Yes	No	I/I Inspection
MB035	Meadowbrook	3/7/2023	265.8	Yes	No	I/I Inspection

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
MB036	Meadowbrook	3/7/2023	334.2	Yes	No	I/I Inspection
MB037	Meadowbrook	3/7/2023	297.7	Yes	No	I/I Inspection
MB038	Meadowbrook	3/7/2023	214.8	Yes	No	I/I Inspection
MB039	Meadowbrook	3/7/2023	0.1	Yes	No	I/I Inspection
MB040	Meadowbrook	3/7/2023	160.3	Yes	No	I/I Inspection
MB041	Meadowbrook	3/8/2023	190.1	Yes	No	I/I Inspection
MB042	Meadowbrook	3/8/2023	284	Yes	No	I/I Inspection
MB043	Meadowbrook	3/7/2023	249.8	Yes	No	I/I Inspection
MB045	Meadowbrook	3/9/2023	143.8	Yes	No	I/I Inspection
MB046	Meadowbrook	3/9/2023	248	Yes	No	I/I Inspection
MB047	Meadowbrook	3/9/2023	174.3	Yes	No	I/I Inspection
MB100	Meadowbrook	3/8/2023	12.8	Yes	No	I/I Inspection
MB101	Meadowbrook	3/8/2023	16.6	Yes	No	I/I Inspection
MB102	Meadowbrook	3/8/2023	94	Yes	No	I/I Inspection
MB103	Meadowbrook	3/8/2023	167.1	Yes	No	I/I Inspection
MB105	Meadowbrook	3/8/2023	24.5	Yes	No	I/I Inspection
MB106	Meadowbrook	3/8/2023	181.5	Yes	No	I/I Inspection
MB107	Meadowbrook	3/8/2023	176.8	Yes	No	I/I Inspection
MB141	Meadowbrook	3/9/2023	340.1	Yes	No	I/I Inspection
MB145	Meadowbrook	3/13/2023	200.8	Yes	No	I/I Inspection
MB200	Meadowbrook	3/13/2023	78.9	Yes	No	I/I Inspection
MB208	Meadowbrook	3/13/2023	168.8	Yes	No	I/I Inspection
MB221	Meadowbrook	3/14/2023	121.9	Yes	No	I/I Inspection
MB222	Meadowbrook	3/14/2023	108.3	Yes	No	I/I Inspection
MB252	Meadowbrook	3/9/2023	193.8	Yes	No	I/I Inspection
MB262	Meadowbrook	3/16/2023	34.7	Yes	No	I/I Inspection
MB263	Meadowbrook	3/16/2023	293.1	Yes	No	I/I Inspection
MB263	Meadowbrook	6/8/2023	299.7	Yes	No	Locating u/s mh
MB264	Meadowbrook	3/16/2023	121.8	Yes	No	I/I Inspection
MB264	Meadowbrook	6/8/2023	127.5	Yes	No	Locating u/s mh
MB302	Meadowbrook	6/23/2023	217.3	Yes	No	Sinkhole inspection
MB307	Meadowbrook	4/13/2023	23.2	Yes	No	I/I Inspection
MB321	Meadowbrook	11/13/2023	340.1	Yes	No	Routine maintenance inspection
MB322	Meadowbrook	3/10/2023	117.5	Yes	No	I/I Inspection
MB322	Meadowbrook	4/7/2023	161.5	Yes	No	I/I Inspection - Resurvey
MB322	Meadowbrook	11/13/2023	161.3	Yes	No	Routine maintenance inspection
MB330	Meadowbrook	3/14/2023	144.8	Yes	No	I/I Inspection
MB335	Meadowbrook	3/15/2023	43	Yes	No	I/I Inspection
MB340	Meadowbrook	3/15/2023	4.4	Yes	No	I/I Inspection - Resurvey
MB340	Meadowbrook	4/11/2023	190.5	Yes	Yes	I/I Inspection - Resurvey
MB346	Meadowbrook	4/12/2023	13.3	Yes	No	I/I Inspection
MB365	Meadowbrook	4/12/2023	92	Yes	No	I/I Inspection
MB372	Meadowbrook	4/12/2023	236.5	Yes	No	I/I Inspection
MB372	Meadowbrook	7/18/2023	236.6	Yes	No	Paving List Inspection
MB373	Meadowbrook	7/18/2023	115.4	Yes	No	Paving List Inspection
MB400	Meadowbrook	8/23/2023	175.8	Yes	No	Grease investigation
MB406	Meadowbrook	4/13/2023	153.8	Yes	Yes	I/I Inspection - Reversal
MB407	Meadowbrook	4/13/2023	159.3	Yes	Yes	I/I Inspection - Reversal
MB416	Meadowbrook	4/13/2023	137.3	Yes	No	I/I Inspection
MB417	Meadowbrook	4/13/2023	99.6	No	No	I/I Inspection
MB420	Meadowbrook	4/14/2023	262.2	Yes	No	I/I Inspection

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
MB425	Meadowbrook	4/13/2023	190.8	Yes	No	I/I Inspection
MB450	Meadowbrook	4/14/2023	134.3	Yes	No	I/I Inspection
MB452	Meadowbrook	4/18/2023	111.5	Yes	No	I/I Inspection - Resurvey
MB475	Meadowbrook	4/18/2023	188.8	Yes	No	I/I Inspection
MB476	Meadowbrook	4/18/2023	248.8	Yes	No	I/I Inspection
MB477	Meadowbrook	4/18/2023	202.8	Yes	No	I/I Inspection
MB500	Meadowbrook	3/29/2023	74.3	Yes	No	I/I Inspection
MB501	Meadowbrook	3/29/2023	151.6	Yes	No	I/I Inspection
MB502	Meadowbrook	3/29/2023	74.4	Yes	No	I/I Inspection
MB503	Meadowbrook	3/29/2023	100.5	Yes	No	I/I Inspection
MB504	Meadowbrook	3/30/2023	242.1	Yes	No	I/I Inspection
MB505	Meadowbrook	3/30/2023	141.9	Yes	No	I/I Inspection
MB506	Meadowbrook	3/31/2023	305.5	Yes	No	I/I Inspection
MB507	Meadowbrook	3/31/2023	307	Yes	No	I/I Inspection
MB508	Meadowbrook	3/31/2023	284.2	Yes	No	I/I Inspection
MB509	Meadowbrook	3/31/2023	191.6	Yes	No	I/I Inspection
MB515	Meadowbrook	4/5/2023	121	Yes	No	I/I Inspection
MB516	Meadowbrook	4/6/2023	174.6	Yes	No	I/I Inspection
MB517	Meadowbrook	4/6/2023	52.2	Yes	No	I/I Inspection
MB518	Meadowbrook	4/6/2023	26.8	Yes	No	I/I Inspection
MB519	Meadowbrook	4/6/2023	118.8	Yes	No	I/I Inspection
MB521	Meadowbrook	4/6/2023	112.1	Yes	No	I/I Inspection
MB559	Meadowbrook	4/6/2023	21.6	Yes	No	I/I Inspection
MB561	Meadowbrook	4/13/2023	42.9	Yes	No	I/I Inspection
MB600	Meadowbrook	4/13/2023	193.6	Yes	No	I/I Inspection
MB604	Meadowbrook	4/18/2023	299.8	Yes	No	I/I Inspection
MB651	Meadowbrook	4/19/2023	254.3	Yes	No	I/I Inspection
MB651	Meadowbrook	9/17/2023	252.8	Yes	No	Customer Issue
MB652	Meadowbrook	4/18/2023	232.3	Yes	No	I/I Inspection
MB700	Meadowbrook	4/4/2023	4.8	Yes	No	I/I Inspection
MB701	Meadowbrook	4/5/2023	44.4	Yes	No	I/I Inspection
MB706	Meadowbrook	4/5/2023	194.3	Yes	No	I/I Inspection
MB754	Meadowbrook	4/19/2023	272	Yes	No	I/I Inspection
MB756	Meadowbrook	4/12/2023	37.2	Yes	No	I/I Inspection
MB757	Meadowbrook	4/12/2023	225.5	Yes	No	I/I Inspection
MB758	Meadowbrook	4/12/2023	182.3	Yes	No	I/I Inspection
MB759	Meadowbrook	4/13/2023	1	Yes	No	I/I Inspection
MB761	Meadowbrook	10/6/2023	295.8	Yes	No	Customer Issue
MB761	Meadowbrook	10/26/2023	296.1	Yes	No	Post Rehab
MB776	Meadowbrook	4/13/2023	423.7	Yes	No	I/I Inspection - Resurvey
MB804	Meadowbrook	4/24/2023	4.5	No	No	I/I Inspection
MB805	Meadowbrook	4/19/2023	193.3	Yes	No	I/I Inspection
MB806	Meadowbrook	4/19/2023	384.9	Yes	No	I/I Inspection
MB807	Meadowbrook	4/19/2023	358.2	Yes	No	I/I Inspection
MB807	Meadowbrook	4/19/2023	7.8	Yes	Yes	I/I Inspection
MB812	Meadowbrook	4/20/2023	350.5	Yes	No	I/I Inspection - Resurvey
MB821	Meadowbrook	4/20/2023	127	No	No	I/I Inspection
MB821	Meadowbrook	4/20/2023	316.8	Yes	No	I/I Inspection - Resurvey
MB822	Meadowbrook	4/20/2023	286.6	No	No	I/I Inspection
MB823	Meadowbrook	4/24/2023	150.5	No	No	I/I Inspection
MB825	Meadowbrook	4/27/2023	118.6	No	No	I/I Inspection

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
MB826	Meadowbrook	4/27/2023	287.2	No	No	I/I Inspection
MB827	Meadowbrook	4/27/2023	353.5	No	No	I/I Inspection
MB828	Meadowbrook	4/27/2023	383.1	No	No	I/I Inspection
MB830	Meadowbrook	4/19/2023	319	Yes	No	I/I Inspection
MB831	Meadowbrook	4/19/2023	255	Yes	No	I/I Inspection
MB835	Meadowbrook	4/13/2023	278	Yes	No	I/I Inspection - Resurvey
MB880	Meadowbrook	4/12/2023	255.1	Yes	No	I/I Inspection
MB881	Meadowbrook	4/12/2023	10	Yes	No	I/I Inspection
MB902	Meadowbrook	7/19/2023	238.1	Yes	No	Paving List Inspection
MB903	Meadowbrook	7/19/2023	236.8	Yes	No	Paving List Inspection
MB904	Meadowbrook	7/19/2023	247.1	Yes	No	Paving List Inspection
MB905	Meadowbrook	7/26/2023	300.1	Yes	No	Paving List Inspection
MB906	Meadowbrook	7/26/2023	356.7	Yes	No	Paving List Inspection
MB910	Meadowbrook	7/19/2023	254.8	Yes	No	Paving List Inspection
MB923	Meadowbrook	4/27/2023	293	Yes	No	I/I Inspection
MB930	Meadowbrook	7/17/2023	158.5	Yes	No	Paving List Inspection
MB970	Meadowbrook	4/19/2023	26.2	Yes	Yes	I/I Inspection - Reversal
MB975	Meadowbrook	4/19/2023	154.6	Yes	No	I/I Inspection
MB976	Meadowbrook	4/19/2023	221.6	Yes	No	I/I Inspection
MB982	Meadowbrook	4/19/2023	168.1	Yes	Yes	I/I Inspection
OC035	Old Capehart	7/19/2023	315.5	Yes	No	Paving List Inspection
OC037	Old Capehart	7/19/2023	144.3	Yes	No	Paving List Inspection
OC408	Old Capehart	5/10/2023	199.5	Yes	Yes	Reversal
OC408	Old Capehart	5/10/2023	58.2	Yes	No	
OC450	Old Capehart	9/21/2023	71.3	Yes	No	Sewer backup investigation
OC451	Old Capehart	9/21/2023	162.1	Yes	No	Sewer backup investigation
OC452	Old Capehart	9/21/2023	162.8	Yes	No	Sewer backup investigation
OC453	Old Capehart	9/21/2023	236.5	Yes	No	Sewer backup investigation
OC460	Old Capehart	9/21/2023	133.8	Yes	No	Sewer backup investigation
OC461	Old Capehart	9/21/2023	145	Yes	No	Sewer backup investigation
OC462	Old Capehart	9/18/2023	147.3	Yes	No	Sewer backup investigation
OC462	Old Capehart	9/21/2023	235.6	Yes	No	Sewer backup investigation
OC463	Old Capehart	9/21/2023	207.6	Yes	No	Sewer backup investigation
OC465	Old Capehart	9/21/2023	11.6	Yes	No	Sewer backup investigation
OC501	Old Capehart	2/13/2023	250	Yes	No	Customer Issue
OC501	Old Capehart	2/14/2023	247.8	Yes	No	Customer Issue
OC900	Old Capehart	7/19/2023	51.4	Yes	No	Paving List Inspection
OC902	Old Capehart	2/2/2023	388.5	Yes	No	Routine maintenance inspection
OC903	Old Capehart	2/2/2023	162.8	Yes	No	Routine maintenance inspection
OC904	Old Capehart	2/2/2023	300.2	Yes	No	Routine maintenance inspection
OC905	Old Capehart	2/2/2023	283.7	Yes	No	Routine maintenance inspection
PI007	Penobscot Interceptor	10/10/2023	226.5	No	No	
PI008	Penobscot Interceptor	10/10/2023	296.3	No	No	
PI009	Penobscot Interceptor	10/10/2023	542.5	No	No	Sinkhole inspection
PJ563	Penjajawoc	7/26/2023	164.6	Yes	No	Paving List Inspection
PJ906	Penjajawoc	12/5/2023	252.5	Yes	No	
PJ907	Penjajawoc	12/5/2023	223.8	Yes	No	
PJ908	Penjajawoc	12/5/2023	247.8	Yes	No	
PJ909	Penjajawoc	12/5/2023	252.3	Yes	No	
PJ910	Penjajawoc	12/5/2023	249.8	Yes	No	
PJ911	Penjajawoc	12/5/2023	249.6	Yes	No	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Is Reversal	Justification for Repeat Inspection
PJ912	Penjajawoc	12/5/2023	254.5	Yes	No	
PJ913	Penjajawoc	12/5/2023	245.6	Yes	No	
PJ950	Penjajawoc	10/19/2023	172.6	Yes	No	Paving List Inspection
PJ951	Penjajawoc	10/19/2023	127.5	Yes	No	Paving List Inspection
PJ951	Penjajawoc	10/19/2023	153.1	Yes	Yes	Paving List Inspection
PJ952	Penjajawoc	10/19/2023	78.4	Yes	No	Paving List Inspection
PJ953	Penjajawoc	10/19/2023	144.6	Yes	No	Paving List Inspection
PJ955	Penjajawoc	10/19/2023	14	Yes	No	Paving List Inspection
PJ956	Penjajawoc	10/19/2023	319.6	Yes	No	Paving List Inspection
SL002	Strickland	5/8/2023	167.3	No	No	
SL003	Strickland	7/17/2023	303.7	Yes	No	Paving List Inspection
SL004	Strickland	7/17/2023	355.1	Yes	No	Paving List Inspection
SL051	Strickland	7/17/2023	304.5	Yes	No	Paving List Inspection
SL052	Strickland	7/17/2023	304.6	Yes	No	Paving List Inspection
WL006	Woodlawn	7/18/2023	226	No	No	Paving List Inspection
WL007	Woodlawn	7/18/2023	154.6	No	No	Paving List Inspection
WL008	Woodlawn	7/18/2023	112.6	No	No	
WL106	Woodlawn	7/12/2023	23.5	Yes	No	Paving List Inspection
WL107	Woodlawn	7/12/2023	295.5	Yes	No	Paving List Inspection
WL107	Woodlawn	7/12/2023	110.5	Yes	Yes	Paving List Inspection
WL130	Woodlawn	7/12/2023	162.6	Yes	No	Paving List Inspection
WL150	Woodlawn	7/12/2023	201	Yes	No	Paving List Inspection
WL151	Woodlawn	7/12/2023	2	Yes	No	Paving List Inspection
WL151	Woodlawn	7/18/2023	209.5	Yes	Yes	Paving List Inspection
WL152	Woodlawn	7/18/2023	22.7	Yes	No	Paving List Inspection
WL200	Woodlawn	7/17/2023	38.2	Yes	No	Paving List Inspection
WL201	Woodlawn	7/17/2023	263.2	Yes	No	Paving List Inspection
WL401	Woodlawn	7/11/2023	311.5	Yes	No	Paving List Inspection
WL450	Woodlawn	11/17/2023	307.6	Yes	No	Post rehab - root removal
WL503	Woodlawn	9/26/2023	235.8	Yes	No	
WL504	Woodlawn	9/26/2023	315.3	Yes	No	
WL505	Woodlawn	9/26/2023	349.6	Yes	No	
WL603	Woodlawn	3/30/2023	73.3	No	No	Sinkhole inspection
Total Feet			107498.1			
Total Miles			20.4			

Appendix B
Manhole Inspection Log

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
AB002	Arctic Brook	1/10/2023		
AB017	Arctic Brook	2/7/2023		
AB023	Arctic Brook	1/10/2023		
AB024	Arctic Brook	1/10/2023		
AB035	Arctic Brook	1/18/2023		
AB036	Arctic Brook	1/18/2023		
AB037	Arctic Brook	1/18/2023		
AB038	Arctic Brook	1/18/2023		
AB039	Arctic Brook	1/18/2023		
AB040	Arctic Brook	1/17/2023		
AB042	Arctic Brook	1/17/2023		
AB043	Arctic Brook	1/17/2023		
AB050	Arctic Brook	1/19/2023		
AB051	Arctic Brook	1/19/2023		
AB056	Arctic Brook	1/19/2023		
AB057	Arctic Brook	1/25/2023		
AB061	Arctic Brook	2/7/2023		
AB083	Arctic Brook	2/7/2023		
AB100	Arctic Brook	1/9/2023		
AB101	Arctic Brook	1/9/2023		
AB102	Arctic Brook	1/9/2023		
AB103	Arctic Brook	1/9/2023		
AB104	Arctic Brook	1/9/2023		
AB105	Arctic Brook	1/9/2023		
AB106	Arctic Brook	1/9/2023		
AB107	Arctic Brook	1/9/2023		
AB108	Arctic Brook	1/9/2023		
AB109	Arctic Brook	1/9/2023		
AB110	Arctic Brook	1/5/2023		
AB120	Arctic Brook	1/5/2023		
AB121	Arctic Brook	1/5/2023		
AB122	Arctic Brook	1/5/2023		
AB123	Arctic Brook	1/5/2023		
AB125	Arctic Brook	2/7/2023		
AB130	Arctic Brook	1/9/2023		
AB131	Arctic Brook	1/5/2023		
AB132	Arctic Brook	1/9/2023		
AB135	Arctic Brook	1/9/2023		
AB136	Arctic Brook	1/9/2023	Yes	Pre-existing inspection

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
AB140	Arctic Brook	1/5/2023		
AB141	Arctic Brook	1/5/2023	Yes	Pre-existing inspection
AB142	Arctic Brook	1/5/2023	Yes	Pre-existing inspection
AB150	Arctic Brook	1/5/2023		
AB160	Arctic Brook	1/5/2023		
AB161	Arctic Brook	1/5/2023		
AB200	Arctic Brook	1/9/2023		
AB202	Arctic Brook	1/5/2023		
AB203	Arctic Brook	1/5/2023		
AB206	Arctic Brook	1/5/2023		
AB207	Arctic Brook	1/5/2023		
AB208	Arctic Brook	1/5/2023		
AB209	Arctic Brook	1/5/2023		
AB210	Arctic Brook	1/5/2023		
AB220	Arctic Brook	1/9/2023		
AB221	Arctic Brook	1/9/2023		
AB230	Arctic Brook	1/5/2023		
AB231	Arctic Brook	1/5/2023		
AB232	Arctic Brook	1/5/2023		
AB233	Arctic Brook	1/5/2023		
AB234	Arctic Brook	1/5/2023		
AB235	Arctic Brook	1/5/2023		
AB236	Arctic Brook	1/5/2023		
AB240	Arctic Brook	1/5/2023		
AB241	Arctic Brook	1/5/2023		
AB250	Arctic Brook	1/5/2023		
AB251	Arctic Brook	1/5/2023		
AB301	Arctic Brook	2/7/2023		
AB402A	Arctic Brook	2/8/2023		
AB404	Arctic Brook	2/8/2023		
AB410	Arctic Brook	2/8/2023		
AB460	Arctic Brook	2/9/2023		
AB506	Arctic Brook	2/9/2023		
AB508	Arctic Brook	2/8/2023		
AB509	Arctic Brook	2/8/2023		
AB513	Arctic Brook	2/9/2023		
AB514	Arctic Brook	2/9/2023		
AB590	Arctic Brook	1/9/2023	Yes	Pre-existing inspection
AB591	Arctic Brook	1/9/2023		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
AB650	Arctic Brook	2/9/2023		
AB651	Arctic Brook	1/26/2023		
AB655	Arctic Brook	2/9/2023		
AP050	Airport	2/21/2023		
AP051	Airport	2/21/2023		
AP052	Airport	2/21/2023		
AP305	Airport	2/21/2023		
AP306	Airport	2/21/2023		
AP410	Airport	2/21/2023		
AP417	Airport	2/21/2023		
AP445	Airport	6/8/2023		
AP447	Airport	2/22/2023		
AP451	Airport	2/22/2023		
AP460	Airport	2/22/2023		
AP461	Airport	2/22/2023		
AP470	Airport	2/22/2023		
AP471	Airport	2/22/2023		
AP472	Airport	2/22/2023		
AP480	Airport	2/22/2023		
AP481	Airport	2/22/2023		
AP504	Airport	2/22/2023		
AP506A	Airport	2/22/2023		
AP514	Airport	2/22/2023		
AP530	Airport	6/8/2023		
AP533	Airport	2/28/2023		
AP536	Airport	6/8/2023		
AP541A	Airport	2/22/2023		
AP620	Airport	6/8/2023		
AP630	Airport	6/8/2023		
AP652	Airport	6/8/2023		
AP653	Airport	6/8/2023		
AP704	Airport	6/8/2023		
AP720	Airport	6/13/2023		
AP723	Airport	6/13/2023		
AP740	Airport	1/9/2023	Yes	Post Rehaul Survey
AP740A	Airport	1/9/2023	Yes	Post Rehaul Survey
AP751	Airport	12/26/2023		
AS001	Autumn Street	6/13/2023		
AS003	Autumn Street	6/13/2023		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
BS015	Blanchard Street	6/13/2023		
BS801	Blanchard Street	6/13/2023		
BU027	Burleigh	6/13/2023		
BU100	Burleigh	6/13/2023		
BU101	Burleigh	6/13/2023		
BU102	Burleigh	6/13/2023		
BU103	Burleigh	6/13/2023		
BU104	Burleigh	6/13/2023		
BU105	Burleigh	6/13/2023		
BU106	Burleigh	6/13/2023		
BU107	Burleigh	6/13/2023		
BU200	Burleigh	6/14/2023		
BU201	Burleigh	6/14/2023		
BU202	Burleigh	6/14/2023		
BU203	Burleigh	6/14/2023		
BU204	Burleigh	6/14/2023		
BU300	Burleigh	6/14/2023		
BU301	Burleigh	6/15/2023		
BU302	Burleigh	6/15/2023		
BU303	Burleigh	6/15/2023		
BU304	Burleigh	6/15/2023		
BU306	Burleigh	6/15/2023		
BU307	Burleigh	6/15/2023		
BU311A	Burleigh	6/15/2023		
BU312	Burleigh	6/15/2023		
BU315	Burleigh	6/15/2023		
BU461	Burleigh	6/15/2023		
BU751	Burleigh	2/2/2023		
BV022	Barkersville	6/15/2023		
BV023	Barkersville	1/9/2023		
BV026	Barkersville	6/20/2023		
BV332	Barkersville	1/12/2023		
BV503	Barkersville	1/9/2023		
BV535	Barkersville	1/9/2023		
BV536	Barkersville	1/9/2023		
BV537	Barkersville	1/9/2023		
BV554	Barkersville	5/16/2023		
BV999	Barkersville	3/31/2023		
CB150	Carr Brook	1/12/2023		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
CM101	Cemetery	5/31/2023		
CM102	Cemetery	5/31/2023		
CM103	Cemetery	5/31/2023		
CM103A	Cemetery	5/31/2023	Yes	Infiltration / Inflow Investigation
CM250	Cemetery	5/31/2023		
CM251	Cemetery	5/31/2023		
CM252	Cemetery	5/31/2023		
CM301	Cemetery	5/26/2023	Yes	Infiltration / Inflow Investigation
CM302	Cemetery	5/26/2023	Yes	Infiltration / Inflow Investigation
CM303	Cemetery	5/26/2023	Yes	Infiltration / Inflow Investigation
CM350	Cemetery	5/31/2023		
CM351	Cemetery	5/31/2023	Yes	Infiltration / Inflow Investigation
CM351A	Cemetery	5/31/2023		
CM352	Cemetery	5/31/2023		
CM400	Cemetery	5/31/2023		
CM401	Cemetery	5/31/2023	Yes	Infiltration / Inflow Investigation
CM402	Cemetery	5/31/2023		
CM451	Cemetery	5/31/2023		
DB803	Davis Brook	1/9/2023		
DN150	Dutton Street	1/4/2023	Yes	Pre-existing inspection
KE500	Kenduskeag East	6/20/2023		
KE500A	Kenduskeag East	6/20/2023		
KW071	Kenduskeag West	7/25/2023		
MB001	Meadowbrook	3/3/2023	Yes	Infiltration / Inflow Investigation
MB002	Meadowbrook	3/29/2023	Yes	Infiltration / Inflow Investigation
MB003	Meadowbrook	3/2/2023	Yes	Infiltration / Inflow Investigation
MB004	Meadowbrook	3/29/2023	Yes	Infiltration / Inflow Investigation
MB005	Meadowbrook	3/2/2023	Yes	Infiltration / Inflow Investigation
MB007	Meadowbrook	3/29/2023	Yes	Infiltration / Inflow Investigation
MB009	Meadowbrook	3/30/2023	Yes	Infiltration / Inflow Investigation
MB010	Meadowbrook	3/30/2023	Yes	Infiltration / Inflow Investigation
MB011	Meadowbrook	3/30/2023	Yes	Infiltration / Inflow Investigation
MB012	Meadowbrook	3/30/2023	Yes	Infiltration / Inflow Investigation
MB013	Meadowbrook	3/30/2023	Yes	Infiltration / Inflow Investigation
MB014	Meadowbrook	3/6/2023	Yes	Infiltration / Inflow Investigation
MB015	Meadowbrook	3/30/2023	Yes	Infiltration / Inflow Investigation
MB016	Meadowbrook	3/8/2023	Yes	Infiltration / Inflow Investigation
MB017	Meadowbrook	3/30/2023		
MB018	Meadowbrook	3/30/2023		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB019	Meadowbrook	3/31/2023		
MB020	Meadowbrook	3/31/2023		
MB021	Meadowbrook	3/31/2023		
MB023	Meadowbrook	3/31/2023	Yes	Infiltration / Inflow Investigation
MB025	Meadowbrook	4/3/2023	Yes	Infiltration / Inflow Investigation
MB027	Meadowbrook	4/3/2023		
MB028	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB029	Meadowbrook	3/1/2023	Yes	Infiltration / Inflow Investigation
MB030	Meadowbrook	3/1/2023	Yes	Infiltration / Inflow Investigation
MB031	Meadowbrook	3/1/2023	Yes	Infiltration / Inflow Investigation
MB032	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB034	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB035	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB040	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB042	Meadowbrook	4/4/2023		
MB043	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB044	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB060	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB100	Meadowbrook	3/8/2023	Yes	Infiltration / Inflow Investigation
MB101	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB102	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB103	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB104	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB105	Meadowbrook	3/8/2023	Yes	Infiltration / Inflow Investigation
MB106	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB107	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB108	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB109	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB110	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB112	Meadowbrook	3/8/2023	Yes	Infiltration / Inflow Investigation
MB114	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB120	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB125	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB130	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB135	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB140	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB141	Meadowbrook	3/9/2023	Yes	Infiltration / Inflow Investigation
MB145	Meadowbrook	3/13/2023	Yes	Infiltration / Inflow Investigation
MB146	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation

APPENDIX B: MANHOLE INSPECTION LOG

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB147	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB200	Meadowbrook	3/13/2023	Yes	Infiltration / Inflow Investigation
MB201	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB202	Meadowbrook	4/20/2023	Yes	Infiltration / Inflow Investigation
MB203	Meadowbrook	4/20/2023	Yes	Infiltration / Inflow Investigation
MB204	Meadowbrook	4/20/2023	Yes	Infiltration / Inflow Investigation
MB205	Meadowbrook	4/20/2023	Yes	Infiltration / Inflow Investigation
MB206	Meadowbrook	4/20/2023	Yes	Infiltration / Inflow Investigation
MB207	Meadowbrook	3/13/2023	Yes	Infiltration / Inflow Investigation
MB208	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB209	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB210	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB220	Meadowbrook	3/14/2023	Yes	Infiltration / Inflow Investigation
MB222	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB250	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB252	Meadowbrook	3/9/2023	Yes	Infiltration / Inflow Investigation
MB260	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB262	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB300	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB301	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB302	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB303	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB304	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB305	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB306	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB307	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB308	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB309	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB310	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB311	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB312	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB313	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB314	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB315	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB316	Meadowbrook	4/4/2023	Yes	Infiltration / Inflow Investigation
MB321	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB322	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB325	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB326	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB327	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB328	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB329	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB330	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB335	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB340	Meadowbrook	3/15/2023	Yes	Infiltration / Inflow Investigation
MB345	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB350	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB351	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB352	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB353	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB355	Meadowbrook	4/6/2023	Yes	Infiltration / Inflow Investigation
MB365	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB366	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB367	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB370	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB371	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB372	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB400	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB401	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB403	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB404	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB405	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB406	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB407	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB408	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB409	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB410	Meadowbrook	4/25/2023		
MB415	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB420	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB450	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB451	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB475	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB476	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB477	Meadowbrook	4/25/2023		
MB478	Meadowbrook	4/25/2023		
MB480	Meadowbrook	4/25/2023		
MB481	Meadowbrook	4/25/2023		
MB500	Meadowbrook	3/31/2023	Yes	Infiltration / Inflow Investigation

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB501	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB502	Meadowbrook	4/25/2023		
MB503	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB504	Meadowbrook	4/25/2023		
MB505	Meadowbrook	4/25/2023		
MB506	Meadowbrook	4/25/2023		
MB507	Meadowbrook	4/25/2023		
MB508	Meadowbrook	4/25/2023		
MB509	Meadowbrook	4/25/2023		
MB515	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB516	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB517	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB518	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB519	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB520	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB521	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB530	Meadowbrook	4/14/2023		
MB550	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB551	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB552	Meadowbrook	4/14/2023		
MB559	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB560	Meadowbrook	4/14/2023		
MB575	Meadowbrook	4/14/2023	Yes	Infiltration / Inflow Investigation
MB576	Meadowbrook	4/14/2023		
MB600	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB601	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB602	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB603	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB604	Meadowbrook	4/26/2023		
MB605	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB606	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB607	Meadowbrook	4/26/2023		
MB608	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB609	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB650	Meadowbrook	4/27/2023		
MB651	Meadowbrook	4/27/2023		
MB652	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB653	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB654	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2023

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB657	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB700	Meadowbrook	4/3/2023	Yes	Infiltration / Inflow Investigation
MB701	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB702	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB704	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB705	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB706	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB710	Meadowbrook	4/26/2023		
MB711	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB726	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB727	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB728	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB729	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB730	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB732	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB733	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB750	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB751	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB752	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB753	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB754	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB755	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB756	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB757	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB758	Meadowbrook	4/27/2023		
MB760	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB761	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB762	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB763	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB765	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB766	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB767	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB768	Meadowbrook	4/25/2023	Yes	Infiltration / Inflow Investigation
MB770	Meadowbrook	5/25/2023	Yes	Infiltration / Inflow Investigation
MB771	Meadowbrook	5/25/2023	Yes	Infiltration / Inflow Investigation
MB772	Meadowbrook	5/25/2023		
MB775	Meadowbrook	5/25/2023		
MB776	Meadowbrook	5/25/2023	Yes	Infiltration / Inflow Investigation
MB804	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2023

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB805	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB806	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB807	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB808	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB809	Meadowbrook	5/25/2023	Yes	Infiltration / Inflow Investigation
MB811	Meadowbrook	5/25/2023	Yes	Infiltration / Inflow Investigation
MB820	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB821	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB822	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB823	Meadowbrook	5/25/2023	Yes	Infiltration / Inflow Investigation
MB826	Meadowbrook	5/26/2023		
MB831	Meadowbrook	5/22/2023		
MB832	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB835	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB840	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB850	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB851	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB852	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB853	Meadowbrook	4/26/2023	Yes	Infiltration / Inflow Investigation
MB854	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB855	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB856	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB857	Meadowbrook	4/27/2023		
MB858	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB860	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB861	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB863	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB864	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB865	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB866	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB870	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB880	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB900	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB901	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB902	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB903	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB904	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB905	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB906	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2023

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB911	Meadowbrook	4/27/2023		
MB913	Meadowbrook	4/28/2023		
MB914	Meadowbrook	4/28/2023	Yes	Infiltration / Inflow Investigation
MB915	Meadowbrook	4/28/2023	Yes	Infiltration / Inflow Investigation
MB920	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB921	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation
MB923	Meadowbrook	4/28/2023	Yes	Infiltration / Inflow Investigation
MB931	Meadowbrook	5/11/2023	Yes	Infiltration / Inflow Investigation
MB932	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB933	Meadowbrook	5/11/2023	Yes	Infiltration / Inflow Investigation
MB934	Meadowbrook	5/11/2023	Yes	Infiltration / Inflow Investigation
MB950	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB951	Meadowbrook	5/11/2023	Yes	Infiltration / Inflow Investigation
MB952	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB953	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB954	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB955	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB956	Meadowbrook	5/22/2023	Yes	Infiltration / Inflow Investigation
MB960	Meadowbrook	5/22/2023		
MB961	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB962	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB963	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB964	Meadowbrook	4/27/2023		
MB965	Meadowbrook	4/27/2023	Yes	Infiltration / Inflow Investigation
MB966	Meadowbrook	4/27/2023		
MB970	Meadowbrook	4/27/2023		
MB975	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB976	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB977	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB978	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB980	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB981	Meadowbrook	5/5/2023		
MB982	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB985	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB986	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB995	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB996	Meadowbrook	5/5/2023	Yes	Infiltration / Inflow Investigation
MB998	Meadowbrook	5/9/2023		
MB999	Meadowbrook	5/9/2023	Yes	Infiltration / Inflow Investigation

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2023

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
PJ018	Penjawoc	9/19/2023	Yes	Capital Improvement Program Assessment
PJ019	Penjawoc	9/19/2023	Yes	Capital Improvement Program Assessment
PJ020	Penjawoc	9/20/2023	Yes	Capital Improvement Program Assessment
PJ021	Penjawoc	9/20/2023	Yes	Capital Improvement Program Assessment
PJ021	Penjawoc	9/20/2023	Yes	Capital Improvement Program Assessment
PJ022	Penjawoc	9/20/2023	Yes	Capital Improvement Program Assessment
PJ023	Penjawoc	9/19/2023	Yes	Capital Improvement Program Assessment
PJ024	Penjawoc	9/19/2023	Yes	Capital Improvement Program Assessment
PJ025	Penjawoc	9/19/2023	Yes	Capital Improvement Program Assessment
PJ026	Penjawoc	9/26/2023	Yes	Capital Improvement Program Assessment
PJ027	Penjawoc	9/19/2023	Yes	Capital Improvement Program Assessment
PJ500	Penjawoc	9/26/2023	Yes	Capital Improvement Program Assessment
WL600	Woodlawn	1/25/2023		
TOTAL MANHOLES INSPECTED			481	

Appendix C
CCTV Repair, Replacement, and Upgrade Log

APPENDIX C: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine
Calendar Year 2023

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
Airport	AP231		0' u/s of mh AP230	Replaced 27' of existing line with 8" PVC	4/7/2023
Barkersville		BV635	End of line	Installed 4' dia dead end manhole	5/11/2023
Barkersville		BV645	End of line	Installed 4' dia dead end manhole	5/12/2023
Barkersville		BV645	0' d/s of mh mh BV645	Installed 20' of 8" PVC	5/12/2023
Barkersville		BV645A	15' u/s of int BV645 and BV603	Installed new 4' dia access manhole	5/12/2023
Barkersville	BV640		Entire segment	Replaced 70' of existing line with 8" PVC	5/16/2023
Barkersville		BV640	End of line	Installed 4' dia dead end manhole	5/16/2023
Dow	DW277			Installed 60' of new 8" PVC	5/18/2023
Dow		DW277		Installed 4' dia manhole	5/18/2023
Barkersville		BV626A		Installed 4' dia dead end manhole	5/18/2023
Barkersville	BV627			Abandoned 55' of existing 10" line	5/18/2023
Barkersville		BV626		Abandoned 4' dia manhole	5/18/2023
Barkersville	BV626			Abandoned 55' of existing 10" line	5/18/2023
Barkersville	BV485A			Replaced 46' of existing main with 12" PVC	5/26/2023
Barkersville		BV484		Installed 4' dia manhole	5/26/2023
Barkersville	BV485			Replaced 327' of existing line with 8" PVC	5/26/2023
Kenduskeag East	KE500A			Replaced 18' of existing main with 24" PVC	6/2/2023
Kenduskeag East		KE500A		Installed new 4' dia manhole	6/2/2023
Kenduskeag East	KE500			Replaced 11' of existing main with 24" PVC	6/2/2023
Kenduskeag East		KE500		Installed new 4' dia dead end manhole	6/7/2023
Dow	DW278			Replaced 8.5' of existing main with 10" PVC	6/9/2023
Dow	DW278			Redirected 1 stormwater basin	6/9/2023
Barkersville		BV705A		Installed new 4' dia access manhole	6/15/2023
Barkersville	BV705A			Replaced 24' of existing line with 10" PVC	6/21/2023
Barkersville		BV705B		Installed new 4' dia access manhole	6/22/2023
Barkersville	BV705			Abandoned 73' of existing 10" clay main	6/22/2023
Kenduskeag West		KW071	End of line	Installed 4' dia manhole	6/29/2023
Davis Brook	DB025		Various	Replaced 260.5' of existing main with 12" PVC	7/21/2023
Barkersville	BV700A		Entire segment	Replaced 10' of main with 10" PVC	7/28/2023
Barkersville		BV700A		Installed new 4' diam manhole	7/28/2023
Barkersville	BV700		Entire segment	Replaced 91' of existing main with 12" PVC	7/28/2023
Barkersville		BV700		Replaced 4' dia manhole (new location)	7/28/2023
Barkersville	BV701			Replaced 57' of existing main with 12" PVC	7/31/2023
Barkersville	BV704			Replaced 36' of existing main with 10" PVC	8/3/2023
Davis Brook		DB026A		Installed new 4' dia access manhole	8/8/2023
Woodlawn		WL150		Replaced 4' dia manhole	8/24/2023
Barkersville	BV425			Replaced 75' of existing main with 8" PVC	8/28/2023
Barkersville	BV420			Replaced 33' of existing main with 10" PVC	8/29/2023
Barkersville	BV407			Replaced 43' of existing main with 8" PVC	8/31/2023
Barkersville		BV605		Installed new 4' dia access manhole	9/5/2023
Barkersville		BV660A		Replaced existing manhole in new location - 4' dia	9/5/2023
Carr Brook		CB702		Installed new 4' dia access manhole	9/6/2023
Carr Brook	CB701A			Replaced 98.5' of existing main with 12" PVC	9/12/2023
Carr Brook		CB701A		Installed new 4' dia access manhole	9/12/2023
Carr Brook	CB701B			Replaced 45' of existing main with 12" PVC	9/12/2023
Carr Brook		CB701B		Installed new 4' dia access manhole	9/12/2023
Carr Brook	CB701			Replaced 13' of existing main with 12" PVC	9/12/2023
Carr Brook	CB851A			Replaced 80' of existing main with 10" PVC	9/15/2023
Carr Brook		CB851A		Installed new 4' dia manhole	9/15/2023
Carr Brook	CB851			Replaced 31' of existing main with 10" PVC	9/15/2023
Carr Brook	CB603			Replaced 136' of existing main with 8" PVC	9/20/2023
Barkersville	BV420			Replaced 24.5' of existing main with 10" PVC	10/02/2023
Meadowbrook	MB761			Replaced 14' of existing main with 10" PVC	10/25/2023
Davis Brook	DB350			Replaced 76' of existing main with 12" PVC	11/20/2023
Davis Brook		DB350A		Installed new access manhole	11/7/2023
Meadowbrook		MB811		Replaced 4' dia manhole	11/13/2023

Appendix D
Cleaning Log

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AB002	Arctic Brook	1/10/23 1:11 PM	96	2	192		
AB003	Arctic Brook	1/10/23 12:41 PM	210	2	420		
AB004	Arctic Brook	1/10/23 12:42 PM	81	2	162		
AB020	Arctic Brook	1/10/23 6:12 PM	451	2	902		
AB021	Arctic Brook	1/10/23 6:12 PM	367	2	734		
AB023	Arctic Brook	1/10/23 3:36 PM	298	2	596		
AB035	Arctic Brook	1/10/23 8:12 PM	109	2	218		
AB036	Arctic Brook	1/10/23 8:12 PM	346	2	692		
AB055	Arctic Brook	1/18/23 2:15 PM	17	2	34		
AB056	Arctic Brook	1/18/23 1:14 PM	282	2	564		
AB057	Arctic Brook	1/18/23 1:34 PM	366	2	732		
AB061	Arctic Brook	1/18/23 6:44 PM	277	2	554		
AB083	Arctic Brook	1/18/23 7:07 PM	364	2	728		
AB085	Arctic Brook	1/19/23 12:47 PM	447	2	894		
AB104	Arctic Brook	2/9/23 4:17 PM	205	2	410		
AB111	Arctic Brook	1/19/23 3:08 PM	134	2	268		
AB112	Arctic Brook	1/19/23 3:08 PM	39	2	78		
AB125	Arctic Brook	1/19/23 1:14 PM	41	2	82		
AB131	Arctic Brook	12/29/23 12:33 PM	243	2	486		
AB132	Arctic Brook	12/29/23 11:59 AM	333	2	666		Routine Flushing
AB135	Arctic Brook	12/29/23 12:32 PM	315	2	630		
AB136	Arctic Brook	12/29/23 12:16 PM	15	2	30		
AB137	Arctic Brook	12/29/23 12:16 PM	273	2	546		
AB151	Arctic Brook	1/24/23 5:52 PM	239	2	478		
AB241	Arctic Brook	6/30/23 12:29 PM	132	1	132		
AB356	Arctic Brook	5/4/23 6:22 PM	343	1	343		
AB356	Arctic Brook	5/8/23 4:14 PM	343	2	686	Yes	
AB371	Arctic Brook	5/11/23 5:37 PM	230	2	460		
AB404	Arctic Brook	2/9/23 7:06 PM	436	2	872		
AB410	Arctic Brook	2/9/23 7:06 PM	445	2	890		
AB436A	Arctic Brook	3/15/23 7:16 PM	210	2	420		
AB453	Arctic Brook	2/13/23 1:14 PM	252	2	504		
AB460	Arctic Brook	2/13/23 1:15 PM	314	2	628		
AB490	Arctic Brook	4/20/23 4:52 PM	333	1	333		
AB490	Arctic Brook	4/24/23 5:06 PM	333	1	333	Yes	
AB490	Arctic Brook	5/3/23 7:19 PM	333	1	333	Yes	
AB490	Arctic Brook	6/30/23 12:41 PM	333	1	333	Yes	
AB490	Arctic Brook	8/21/23 11:13 AM	333	1	333	Yes	
AB490	Arctic Brook	9/20/23 11:52 AM	333	1	333	Yes	
AB490	Arctic Brook	10/16/23 3:03 PM	333	1	333	Yes	
AB506	Arctic Brook	2/13/23 1:47 PM	315	2	630		
AB509	Arctic Brook	2/13/23 2:51 PM	398	2	796		
AB512	Arctic Brook	2/9/23 1:24 PM	247	2	494		
AB512	Arctic Brook	5/9/23 11:40 AM	247	2	494	Yes	
AB513	Arctic Brook	5/9/23 11:40 AM	306	2	612		
AB620	Arctic Brook	2/8/23 6:53 PM	426	4	1704		

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AB624	Arctic Brook	1/24/23 6:26 PM	233	2	466		
AB624	Arctic Brook	2/8/23 3:39 PM	233	2	466	Yes	
AB625	Arctic Brook	2/8/23 3:41 PM	349	2	698		
AP026	Airport	6/22/23 5:13 PM	296	2	592		
AP072	Airport	6/22/23 4:38 PM	239	2	478		
AP206	Airport	2/14/23 7:10 PM	352	2	704		
AP327	Airport	12/1/23 3:46 PM	71	2	142		
AP328	Airport	11/30/23 4:05 PM	306	2	612		
AP329	Airport	11/30/23 3:05 PM	247	2	494		Routine Flushing
AP330	Airport	11/28/23 8:22 PM	238	4	952		Routine Flushing
AP331	Airport	11/28/23 4:16 PM	248	4	992		
AP332	Airport	11/28/23 1:33 PM	302	4	1208		
AP333	Airport	11/28/23 5:52 PM	156	4	624		
AP346	Airport	11/28/23 12:41 PM	302	2	604		
AP350	Airport	12/1/23 3:45 PM	61	2	122		
AP351	Airport	5/30/23 4:42 PM	161	4	644		
AP351	Airport	12/1/23 3:44 PM	161	2	322	Yes	
AP352	Airport	12/1/23 3:43 PM	322	2	644		
AP355	Airport	12/13/23 2:03 PM	340	2	680		Routine Flushing
AP356	Airport	12/13/23 2:04 PM	349	2	698		
AP360	Airport	12/1/23 1:18 PM	340	4	1360		
AP450	Airport	6/8/23 3:05 PM	278	2	556		
AP505A	Airport	10/12/23 2:57 PM	50	4	200		
AP505A	Airport	10/18/23 11:54 AM	50	4	200	Yes	
AP506	Airport	10/12/23 2:58 PM	124	4	496		
AP506	Airport	10/18/23 11:55 AM	124	4	496	Yes	
AP506A	Airport	10/17/23 7:58 PM	34	4	136		
AP507	Airport	10/17/23 7:58 PM	118	4	472		
AP508	Airport	10/17/23 8:19 PM	203	4	812		
AP509	Airport	10/17/23 6:23 PM	103	4	412		
AP510	Airport	10/17/23 6:23 PM	299	4	1196		
AP520	Airport	6/13/23 11:42 AM	350	6	2100		
AP521	Airport	12/28/23 11:35 AM	190	1	190		
AP522	Airport	6/13/23 4:32 PM	262	2	524		
AP530	Airport	10/17/23 7:56 PM	247	4	988		
AP531	Airport	10/17/23 7:57 PM	213	4	852		
AP532	Airport	12/28/23 11:30 AM	71	1	71		
AP533	Airport	6/21/23 4:23 PM	149	2	298		
AP540	Airport	10/17/23 5:49 PM	154	2	308		
AP621	Airport	6/21/23 1:18 PM	215	2	430		
AP622	Airport	6/21/23 1:16 PM	306	2	612		
AP630	Airport	6/21/23 5:35 PM	250	2	500		
AP631	Airport	6/21/23 5:22 PM	301	2	602		
AP652	Airport	6/21/23 7:31 PM	315	2	630		
AP653	Airport	6/21/23 6:56 PM	447	2	894		
AP660	Airport	6/22/23 11:11 AM	344	2	688		Trouble Spot

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AP661	Airport	6/22/23 11:16 AM	416	2	832		
AP664	Airport	6/22/23 11:43 AM	316	2	632		
AP703	Airport	6/22/23 2:14 PM	78	2	156		
AP704	Airport	6/22/23 2:13 PM	299	4	1196		
AP707	Airport	6/30/23 4:54 PM	232	2	464		
BS012	Blanchard Street	12/28/23 3:39 PM	374	2	748		
BS013	Blanchard Street	12/28/23 2:46 PM	294	2	588		
BS401	Blanchard Street	12/29/23 6:01 PM	136	2	272		
BS402	Blanchard Street	12/29/23 6:01 PM	352	2	704		
BS403	Blanchard Street	12/29/23 5:40 PM	336	2	672		
BS404	Blanchard Street	12/29/23 5:41 PM	173	2	346		
BS600	Blanchard Street	12/28/23 1:06 PM	295	2	590		
BS601	Blanchard Street	12/28/23 1:07 PM	199	2	398		
BS602	Blanchard Street	12/28/23 12:50 PM	297	2	594		
BS603	Blanchard Street	12/28/23 12:49 PM	130	2	260		
BS610	Blanchard Street	12/28/23 12:29 PM	86	2	172		
BS620	Blanchard Street	12/28/23 12:25 PM	67	2	134		
BS700	Blanchard Street	12/28/23 2:29 PM	210	2	420		
BS701	Blanchard Street	12/28/23 2:30 PM	297	2	594		
BS702	Blanchard Street	12/28/23 2:22 PM	269	2	538		
BS703	Blanchard Street	12/28/23 2:23 PM	181	2	362		
BS801	Blanchard Street	6/30/23 5:40 PM	340	2	680		
BU022	Burleigh	6/30/23 6:43 PM	210	2	420		
BU027	Burleigh	6/9/23 3:38 PM	338	4	1352		
BU027	Burleigh	6/13/23 5:14 PM	338	2	676	Yes	
BU101	Burleigh	6/15/23 7:22 PM	231	3	693		
BU702	Burleigh	12/26/23 5:58 PM	269	2	538		
BU703	Burleigh	12/26/23 5:58 PM	231	2	462		
BU750	Burleigh	6/30/23 6:44 PM	251	2	502		
BU751	Burleigh	6/30/23 6:45 PM	206	2	412		
BV131	Barkersville	4/11/23 2:37 PM	386	2	772		
BV131	Barkersville	5/26/23 5:55 PM	386	1	386	Yes	
BV131	Barkersville	8/21/23 11:51 AM	386	1	386	Yes	
BV335	Barkersville	12/15/23 5:10 PM	107	2	214		
BV451	Barkersville	6/15/23 7:19 PM	403	3	1209		
BV507	Barkersville	5/17/23 5:17 PM	187	4	748		
BV554	Barkersville	5/16/23 5:49 PM	46	6	276		
BV626	Barkersville	10/5/23 11:24 AM	330	2	660		
BV715	Barkersville	6/27/23 2:11 PM	394	4	1576		
BV725	Barkersville	6/27/23 12:43 PM	319	4	1276		
CB027	Carr Brook	9/6/23 5:51 PM	338	2	676		
CB028	Carr Brook	9/6/23 5:51 PM	402	2	804		
CB036	Carr Brook	1/3/23 5:48 PM	195	2	390		
CB037	Carr Brook	1/3/23 12:28 PM	626	2	1252		
CB122	Carr Brook	9/25/23 7:21 PM	213	4	852		
CB122	Carr Brook	9/26/23 12:41 PM	213	4	852	Yes	

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
CB123	Carr Brook	9/26/23 12:40 PM	295	4	1180		
CB124	Carr Brook	9/25/23 6:37 PM	347	2	694		
CB125	Carr Brook	9/25/23 1:33 PM	331	4	1324		
CB126	Carr Brook	9/25/23 1:09 PM	356	2	712		Trouble Spot
CB130	Carr Brook	9/26/23 5:41 PM	220	2	440		Trouble Spot
CB131	Carr Brook	9/26/23 5:40 PM	240	2	480		
CB133	Carr Brook	9/26/23 11:55 AM	634	2	1268		
CB134	Carr Brook	9/25/23 7:37 PM	347	2	694		Trouble Spot
CB135	Carr Brook	9/26/23 5:16 PM	189	2	378		
CB140	Carr Brook	9/1/23 6:27 PM	675	2	1350		
CB141	Carr Brook	9/26/23 2:44 PM	192	2	384		
CB145	Carr Brook	9/1/23 6:16 PM	263	2	526		
CB162	Carr Brook	5/26/23 7:46 PM	272	1	272		
CB302	Carr Brook	9/1/23 6:00 PM	320	2	640		
CB303	Carr Brook	9/1/23 5:45 PM	319	2	638		
CB603	Carr Brook	9/6/23 12:06 PM	533	2	1066		
CB702	Carr Brook	9/13/23 10:57 AM	432	6	2592		
CB801	Carr Brook	9/7/23 5:14 PM	280	2	560		
CB802	Carr Brook	9/7/23 4:58 PM	401	2	802		
CM009	Cemetery	5/11/23 2:53 PM	139	2	278		
CM010	Cemetery	5/11/23 2:24 PM	29	2	58		
CM010A	Cemetery	5/11/23 2:24 PM	194	2	388		
CM011	Cemetery	5/11/23 2:25 PM	223	2	446		
CM012A	Cemetery	5/11/23 1:52 PM	38	2	76		
CM013	Cemetery	5/11/23 1:53 PM	161	2	322		
CM014	Cemetery	5/11/23 1:53 PM	204	2	408		
CM100A	Cemetery	5/18/23 6:06 PM	63	2	126		
CM101	Cemetery	5/18/23 6:07 PM	212	2	424		
CM102	Cemetery	5/11/23 6:50 PM	250	2	500		
CM103	Cemetery	5/11/23 6:50 PM	300	2	600		
CM103A	Cemetery	5/11/23 6:33 PM	148	4	592		
CM104	Cemetery	5/11/23 6:34 PM	97	4	388		
CM106	Cemetery	5/18/23 2:34 PM	92	2	184		
CM107	Cemetery	5/18/23 2:35 PM	123	2	246		
CM107A	Cemetery	5/18/23 2:35 PM	261	2	522		
CM107B	Cemetery	5/18/23 2:36 PM	190	2	380		
CM251	Cemetery	5/18/23 4:39 PM	348	2	696		
CM252	Cemetery	5/18/23 5:00 PM	432	2	864		
CM352	Cemetery	5/31/23 5:12 PM	248	2	496		
CM401	Cemetery	5/31/23 5:11 PM	316	2	632		
CM517	Cemetery	5/31/23 2:35 PM	319	2	638		
CM519	Cemetery	5/17/23 6:55 PM	227	2	454		
CM520	Cemetery	5/17/23 6:53 PM	186	2	372		
CM580	Cemetery	5/31/23 2:34 PM	306	2	612		
CM801	Cemetery	9/13/23 2:02 PM	251	2	502		
CM802	Cemetery	9/13/23 2:03 PM	319	2	638		

APPENDIX D: CLEANING LOG

City of Bangor, Maine
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
CM850	Cemetery	9/13/23 6:12 PM	161	2	322		
CM870	Cemetery	9/13/23 1:50 PM	217	2	434		
CM880	Cemetery	9/13/23 1:42 PM	167	2	334		
CM901	Cemetery	9/13/23 11:43 AM	298	2	596		
CM902	Cemetery	9/13/23 11:43 AM	192	2	384		
CM903	Cemetery	9/13/23 11:31 AM	15	2	30		
CM925	Cemetery	9/13/23 11:31 AM	253	2	506		
CM950	Cemetery	9/13/23 11:32 AM	21	2	42		
DB025	Davis Brook	7/27/23 11:58 AM	343	2	686		
DB241	Davis Brook	9/28/23 1:16 PM	467	6	2802		
DB242	Davis Brook	9/22/23 6:15 PM	262	10	2620		
DB704	Davis Brook	5/11/23 11:51 AM	325	2	650		
DB730	Davis Brook	10/16/23 2:08 PM	550	2	1100		
DW201	Dow	7/28/23 6:38 PM	218	2	436		
DW202	Dow	7/28/23 6:39 PM	87	2	174		
DW203	Dow	7/28/23 6:39 PM	336	2	672		
DW204	Dow	7/28/23 5:07 PM	269	2	538		
DW250	Dow	7/28/23 5:08 PM	230	2	460		
DW251	Dow	7/28/23 5:09 PM	262	2	524		
DW252	Dow	7/28/23 1:29 PM	386	2	772		
DW252A	Dow	7/28/23 1:12 PM	73	2	146		
DW252B	Dow	7/28/23 1:11 PM	83	2	166		
DW253	Dow	7/28/23 1:11 PM	103	2	206		
DW255	Dow	7/28/23 5:06 PM	263	2	526		
DW255A	Dow	7/28/23 5:05 PM	46	2	92		
DW256	Dow	7/28/23 6:41 PM	102	2	204		
DW259	Dow	7/28/23 1:29 PM	187	2	374		
DW260	Dow	7/28/23 1:08 PM	248	2	496		Trouble Spot
DW261	Dow	7/28/23 1:08 PM	305	2	610		
DW262	Dow	7/28/23 12:37 PM	398	2	796		
DW265	Dow	4/5/23 11:51 AM	109	4	436		Trouble Spot
DW265	Dow	7/28/23 1:09 PM	109	2	218	Yes	Trouble Spot
DW305	Dow	3/30/23 5:49 PM	255	2	510		Routine Flushing
DW306	Dow	3/30/23 5:49 PM	249	2	498		
DW307	Dow	3/30/23 5:30 PM	339	2	678		Routine Flushing
DW307	Dow	9/13/23 10:55 AM	339	2	678	Yes	Routine Flushing
DW308	Dow	3/30/23 5:12 PM	340	2	680		
DW308	Dow	9/13/23 10:56 AM	340	2	680	Yes	
EP060	East Penobscot	10/18/23 6:32 PM	227	2	454		
EP061	East Penobscot	10/18/23 5:56 PM	53	4	212		
EP062	East Penobscot	10/18/23 5:56 PM	345	4	1380		
EP063	East Penobscot	10/18/23 5:55 PM	228	4	912		
EP064	East Penobscot	10/18/23 3:07 PM	113	2	226		
EP065	East Penobscot	10/18/23 3:07 PM	358	2	716		
EP066	East Penobscot	10/18/23 2:18 PM	390	2	780		
FK304	Franklin	8/30/23 2:23 PM	188	2	376		

APPENDIX D: CLEANING LOG

City of Bangor, Maine
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
FK305	Franklin	8/30/23 2:24 PM	215	2	430		
HD004	Hampden	10/6/23 2:50 PM	87	6	522		
HD010	Hampden	10/6/23 4:39 PM	234	4	936		
HD010	Hampden	10/17/23 6:04 PM	234	10	2340	Yes	
HK261	Hancock Street	9/7/23 6:27 PM	297	4	1188		
HK262	Hancock Street	9/7/23 6:28 PM	283	4	1132		
HK291	Hancock Street	1/3/23 6:45 PM	297	2	594		
HK292	Hancock Street	1/3/23 6:37 PM	225	2	450		
HK295	Hancock Street	1/3/23 6:51 PM	90	2	180		
HK513	Hancock Street	9/7/23 11:26 AM	280	2	560		
HK514	Hancock Street	9/7/23 11:27 AM	305	2	610		
HK516	Hancock Street	9/7/23 11:42 AM	199	2	398		
HK519	Hancock Street	8/31/23 10:59 AM	197	1	197		
HK519	Hancock Street	9/7/23 11:59 AM	197	2	394	Yes	
HK521	Hancock Street	8/30/23 1:29 PM	189	2	378		
HK521	Hancock Street	9/7/23 12:31 PM	189	2	378	Yes	
HK522	Hancock Street	8/30/23 1:29 PM	187	2	374		
HK522	Hancock Street	9/7/23 12:31 PM	187	2	374	Yes	
HK577	Hancock Street	8/31/23 11:31 AM	233	2	466		
HK578	Hancock Street	8/31/23 11:32 AM	283	2	566		
HP051	Hildreth Perry	12/26/23 2:57 PM	390	4	1560		
HP055	Hildreth Perry	12/26/23 2:57 PM	143	2	286		
HS009	Husson	3/29/23 4:42 PM	317	2	634		
HS500	Husson	11/16/23 9:23 PM	301	2	602		Trouble Spot
KW070	Kenduskeag West	7/27/23 12:00 PM	101	2	202		
KW902	Kenduskeag West	4/24/23 6:20 PM	293	1	293		
MB002	Meadowbrook	3/1/23 2:23 PM	189	1	189		
MB003	Meadowbrook	3/1/23 2:42 PM	251	2	502		
MB004	Meadowbrook	3/1/23 2:42 PM	134	2	268		
MB005	Meadowbrook	3/1/23 3:35 PM	148	2	296		
MB006	Meadowbrook	3/1/23 3:35 PM	230	2	460		
MB007	Meadowbrook	4/12/23 11:57 AM	195	2	390		
MB008	Meadowbrook	4/5/23 1:51 PM	196	2	392		
MB008	Meadowbrook	4/12/23 11:59 AM	196	2	392	Yes	
MB009	Meadowbrook	4/5/23 1:52 PM	183	2	366		
MB010	Meadowbrook	3/2/23 12:58 PM	271	2	542		
MB011	Meadowbrook	3/2/23 12:59 PM	85	2	170		
MB012	Meadowbrook	3/2/23 1:00 PM	92	2	184		
MB013	Meadowbrook	3/2/23 1:00 PM	141	2	282		
MB014	Meadowbrook	3/29/23 4:46 PM	182	2	364		
MB015	Meadowbrook	3/29/23 4:45 PM	140	2	280		
MB019A	Meadowbrook	3/2/23 4:01 PM	343	2	686		
MB020	Meadowbrook	3/2/23 3:22 PM	119	2	238		
MB021	Meadowbrook	3/2/23 3:22 PM	220	2	440		
MB022	Meadowbrook	3/2/23 3:21 PM	116	2	232		
MB023	Meadowbrook	3/2/23 3:21 PM	47	2	94		

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB024	Meadowbrook	4/12/23 1:08 PM	372	3	1116		
MB029	Meadowbrook	4/12/23 3:03 PM	40	2	80		
MB030	Meadowbrook	4/12/23 3:03 PM	213	2	426		
MB031	Meadowbrook	3/1/23 6:01 PM	317	2	634		
MB032	Meadowbrook	3/1/23 6:01 PM	319	2	638		
MB036	Meadowbrook	3/8/23 11:40 AM	335	4	1340		
MB045	Meadowbrook	3/8/23 11:42 AM	147	2	294		
MB046	Meadowbrook	3/7/23 1:06 PM	248	2	496		
MB046	Meadowbrook	3/8/23 11:42 AM	248	2	496	Yes	
MB047	Meadowbrook	3/8/23 11:43 AM	176	2	352		
MB048	Meadowbrook	3/8/23 11:43 AM	8	2	16		
MB100	Meadowbrook	3/13/23 5:26 PM	22	2	44		
MB101	Meadowbrook	3/13/23 5:26 PM	24	2	48		
MB102	Meadowbrook	3/13/23 5:25 PM	96	2	192		
MB103	Meadowbrook	3/13/23 5:24 PM	168	2	336		
MB106	Meadowbrook	3/13/23 6:03 PM	189	2	378		
MB113	Meadowbrook	3/14/23 12:41 PM	359	2	718		
MB141	Meadowbrook	3/14/23 1:14 PM	342	2	684		
MB145	Meadowbrook	3/14/23 2:53 PM	203	2	406		
MB208	Meadowbrook	3/14/23 3:26 PM	171	2	342		
MB220	Meadowbrook	3/14/23 5:21 PM	34	2	68		
MB221	Meadowbrook	3/14/23 5:21 PM	126	2	252		
MB252	Meadowbrook	3/15/23 5:13 PM	196	2	392		
MB261	Meadowbrook	12/28/23 7:28 PM	91	2	182		
MB321	Meadowbrook	3/10/23 10:25 PM	337	6	2022		
MB321	Meadowbrook	3/29/23 4:38 PM	337	2	674	Yes	
MB321	Meadowbrook	8/25/23 6:45 PM	337	4	1348	Yes	
MB321	Meadowbrook	11/13/23 4:17 PM	337	2	674	Yes	
MB322	Meadowbrook	1/27/23 3:16 PM	163	2	326		
MB322	Meadowbrook	3/10/23 10:23 PM	163	6	978	Yes	
MB322	Meadowbrook	3/15/23 5:41 PM	163	2	326	Yes	
MB322	Meadowbrook	3/28/23 2:29 PM	163	2	326	Yes	
MB322	Meadowbrook	3/29/23 4:39 PM	163	2	326	Yes	
MB322	Meadowbrook	4/5/23 12:12 PM	163	2	326	Yes	
MB322	Meadowbrook	4/20/23 3:11 PM	163	1	163	Yes	
MB322	Meadowbrook	4/24/23 5:02 PM	163	1	163	Yes	
MB322	Meadowbrook	5/3/23 7:12 PM	163	1	163	Yes	
MB322	Meadowbrook	5/9/23 6:37 PM	163	1	163	Yes	
MB322	Meadowbrook	5/26/23 5:56 PM	163	1	163	Yes	
MB322	Meadowbrook	6/30/23 12:29 PM	163	1	163	Yes	
MB322	Meadowbrook	8/21/23 11:08 AM	163	1	163	Yes	
MB322	Meadowbrook	8/25/23 6:46 PM	163	4	652	Yes	
MB322	Meadowbrook	9/20/23 12:00 PM	163	1	163	Yes	
MB322	Meadowbrook	10/16/23 2:55 PM	163	1	163	Yes	
MB322	Meadowbrook	11/1/23 11:21 AM	163	1	163	Yes	
MB322	Meadowbrook	11/13/23 4:17 PM	163	2	326	Yes	

APPENDIX D: CLEANING LOG

City of Bangor, Maine
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB322	Meadowbrook	11/30/23 6:54 PM	163	1	163	Yes	
MB330	Meadowbrook	3/15/23 5:57 PM	153	2	306		
MB335	Meadowbrook	3/16/23 11:56 AM	49	2	98		
MB340	Meadowbrook	3/16/23 12:55 PM	194	4	776		
MB346	Meadowbrook	3/16/23 3:55 PM	89	4	356		
MB372	Meadowbrook	4/12/23 5:51 PM	239	2	478		
MB450	Meadowbrook	3/29/23 11:26 AM	138	2	276		
MB475	Meadowbrook	3/29/23 11:13 AM	189	2	378		
MB476	Meadowbrook	3/29/23 4:29 PM	249	2	498		
MB480	Meadowbrook	3/29/23 4:50 PM	107	2	214		
MB509	Meadowbrook	4/20/23 5:07 PM	191	1	191		
MB516	Meadowbrook	4/6/23 1:38 PM	176	2	352		
MB517	Meadowbrook	4/6/23 1:38 PM	55	2	110		
MB550	Meadowbrook	3/2/23 4:00 PM	37	2	74		
MB551	Meadowbrook	3/29/23 5:18 PM	278	2	556		
MB552	Meadowbrook	8/30/23 1:26 PM	389	4	1556		
MB560	Meadowbrook	3/29/23 5:35 PM	242	2	484		
MB560	Meadowbrook	4/6/23 6:45 PM	290	1	290	Yes	
MB560	Meadowbrook	8/30/23 12:07 PM	242	2	484	Yes	
MB561	Meadowbrook	3/29/23 5:35 PM	50	2	100		
MB561	Meadowbrook	4/6/23 7:04 PM	50	2	100	Yes	
MB561	Meadowbrook	8/30/23 12:07 PM	50	2	100	Yes	
MB576	Meadowbrook	8/30/23 11:44 AM	328	2	656		
MB602	Meadowbrook	8/31/23 11:22 AM	285	2	570		
MB603	Meadowbrook	8/31/23 11:22 AM	317	2	634		
MB604	Meadowbrook	8/31/23 11:32 AM	293	2	586		
MB605	Meadowbrook	8/31/23 11:33 AM	306	2	612		
MB654	Meadowbrook	4/12/23 5:10 PM	190	2	380		
MB705	Meadowbrook	4/6/23 5:19 PM	210	2	420		
MB706	Meadowbrook	4/6/23 5:19 PM	197	2	394		
MB707	Meadowbrook	4/13/23 6:07 PM	246	3	738		
MB757	Meadowbrook	1/3/23 6:21 PM	226	2	452		
MB757	Meadowbrook	3/30/23 12:26 PM	226	2	452	Yes	
MB758	Meadowbrook	1/3/23 6:07 PM	182	2	364		
MB758	Meadowbrook	3/30/23 12:10 PM	182	2	364	Yes	
MB759	Meadowbrook	3/30/23 12:11 PM	66	2	132		
MB776	Meadowbrook	3/30/23 1:05 PM	411	2	822		
MB821	Meadowbrook	4/20/23 1:39 PM	317	2	634		
MB822	Meadowbrook	4/20/23 1:41 PM	285	2	570		
MB835	Meadowbrook	4/20/23 2:20 PM	281	1	281		
MB840	Meadowbrook	4/12/23 6:34 PM	266	2	532		
MB923	Meadowbrook	4/26/23 5:29 PM	295	2	590		
MB956	Meadowbrook	4/26/23 4:48 PM	355	2	710		
MB970	Meadowbrook	4/20/23 6:22 PM	257	2	514		
MB975	Meadowbrook	4/20/23 6:04 PM	154	2	308		
MB975	Meadowbrook	4/24/23 5:21 PM	154	1	154	Yes	

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB978	Meadowbrook	9/25/23 12:50 PM	243	2	486		
MB980	Meadowbrook	9/25/23 12:49 PM	205	2	410		
MB981	Meadowbrook	4/20/23 6:05 PM	450	2	900		
MB981	Meadowbrook	9/25/23 12:19 PM	450	1	450	Yes	
MB982	Meadowbrook	9/25/23 11:50 AM	175	2	350		Trouble Spot
OC037	Old Capehart	9/13/23 1:45 PM	146	4	584		
OC450	Old Capehart	9/18/23 2:30 PM	201	4	804		
OC451	Old Capehart	9/18/23 1:59 PM	164	2	328		
OC452	Old Capehart	9/29/23 5:35 PM	165	4	660		
OC453	Old Capehart	9/29/23 1:06 PM	236	4	944		Trouble Spot
OC455	Old Capehart	9/29/23 1:49 PM	191	4	764		Trouble Spot
OC460	Old Capehart	9/17/23 2:46 AM	137	4	548		
OC460	Old Capehart	9/18/23 1:39 PM	137	4	548	Yes	
OC460	Old Capehart	9/20/23 8:48 PM	137	4	548	Yes	
OC461	Old Capehart	9/18/23 12:21 PM	148	2	296		
OC461	Old Capehart	9/20/23 8:49 PM	148	4	592	Yes	
OC462	Old Capehart	9/18/23 12:21 PM	233	2	466		
OC462	Old Capehart	9/20/23 8:50 PM	233	4	932	Yes	
OC463	Old Capehart	9/18/23 11:37 AM	226	4	904		
OC465	Old Capehart	9/29/23 5:34 PM	162	4	648		
OC466	Old Capehart	9/29/23 5:34 PM	155	4	620		
OC501	Old Capehart	2/14/23 6:12 PM	249	6	1494		
OC801	Old Capehart	5/3/23 5:44 PM	203	1	203		Trouble Spot
OC801	Old Capehart	5/9/23 6:49 PM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	5/26/23 7:45 PM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	6/30/23 1:28 PM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	8/21/23 10:51 AM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	9/20/23 11:33 AM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	9/29/23 3:15 PM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	10/16/23 2:40 PM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	10/30/23 12:36 PM	203	1	203	Yes	Trouble Spot
OC801	Old Capehart	12/20/23 12:36 PM	203	1	203	Yes	Trouble Spot
OC904	Old Capehart	9/14/23 11:10 AM	301	2	602		
OC905	Old Capehart	9/13/23 5:32 PM	283	2	566		
OC906	Old Capehart	9/13/23 5:09 PM	235	2	470		
OC907	Old Capehart	5/3/23 5:53 PM	235	1	235		Trouble Spot
OC907	Old Capehart	5/9/23 6:55 PM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	5/26/23 7:44 PM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	6/30/23 1:36 PM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	8/21/23 10:42 AM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	9/6/23 11:19 AM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	9/13/23 5:04 PM	235	2	470	Yes	Trouble Spot
OC907	Old Capehart	9/20/23 11:22 AM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	9/29/23 3:08 PM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	10/16/23 2:34 PM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	10/30/23 12:29 PM	235	1	235	Yes	Trouble Spot

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
OC907	Old Capehart	11/16/23 3:14 PM	235	1	235	Yes	Trouble Spot
OC907	Old Capehart	12/11/23 8:03 PM	235	1	235	Yes	Trouble Spot
OC910	Old Capehart	9/14/23 10:52 AM	233	2	466		
OC911	Old Capehart	9/14/23 10:52 AM	237	2	474		
OC920	Old Capehart	9/13/23 5:40 PM	238	2	476		
OC921	Old Capehart	9/13/23 5:39 PM	237	2	474		
OC950	Old Capehart	9/13/23 1:44 PM	336	2	672		
OC951	Old Capehart	9/13/23 1:17 PM	334	2	668		
OC952	Old Capehart	9/13/23 12:00 PM	129	2	258		Routine Flushing
OC954	Old Capehart	1/3/23 3:53 PM	347	1	347		Trouble Spot
OC954	Old Capehart	4/24/23 5:51 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	5/3/23 6:53 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	5/9/23 7:01 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	5/26/23 6:34 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	7/3/23 4:41 PM	347	2	694	Yes	Trouble Spot
OC954	Old Capehart	8/21/23 10:33 AM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	8/30/23 12:28 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	9/13/23 11:29 AM	347	2	694	Yes	Trouble Spot
OC954	Old Capehart	9/13/23 11:29 AM	347	2	694	Yes	Trouble Spot
OC954	Old Capehart	9/20/23 11:13 AM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	9/29/23 3:09 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	10/16/23 2:27 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	10/30/23 12:19 PM	347	1	347	Yes	Trouble Spot
OC954	Old Capehart	11/30/23 6:35 PM	347	2	694	Yes	Trouble Spot
OC954	Old Capehart	12/11/23 8:04 PM	347	1	347	Yes	Trouble Spot
PJ052	Penjajawoc	12/28/23 2:09 PM	301	2	602		
PJ053	Penjajawoc	12/28/23 2:08 PM	196	2	392		
PJ054	Penjajawoc	12/28/23 1:29 PM	110	2	220		
PJ055	Penjajawoc	12/28/23 1:28 PM	300	2	600		
PJ056	Penjajawoc	12/28/23 1:28 PM	262	2	524		
PJ058	Penjajawoc	12/28/23 1:11 PM	212	2	424		
PJ059	Penjajawoc	12/28/23 1:12 PM	192	2	384		
PJ770	Penjajawoc	12/28/23 3:57 PM	167	2	334		
PJ771	Penjajawoc	12/28/23 3:57 PM	295	2	590		
PJ950	Penjajawoc	10/20/23 1:17 PM	176	4	704		
PJ951	Penjajawoc	10/20/23 1:18 PM	280	4	1120		
PJ952	Penjajawoc	10/18/23 2:17 PM	86	4	344		
PJ953	Penjajawoc	10/18/23 2:17 PM	141	4	564		
PJ955	Penjajawoc	10/18/23 2:16 PM	18	2	36		
PJ956	Penjajawoc	10/18/23 1:21 PM	321	2	642		
PJ960	Penjajawoc	10/18/23 6:22 PM	42	2	84		
SL052	Strickland	7/17/23 7:02 PM	300	2	600		
WL502	Woodlawn	10/4/23 5:13 PM	231	2	462		
WL503	Woodlawn	10/4/23 5:13 PM	236	2	472		
WL504	Woodlawn	10/4/23 4:58 PM	315	2	630		
WL505	Woodlawn	10/4/23 2:43 PM	347	2	694		

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2023

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
WL506	Woodlawn	10/4/23 2:41 PM	329	2	658		
WL510	Woodlawn	10/4/23 5:10 PM	50	2	100		
WL511	Woodlawn	10/4/23 5:10 PM	198	2	396		
WL512	Woodlawn	10/3/23 4:12 PM	201	4	804		
WL513	Woodlawn	10/3/23 12:40 PM	214	2	428		
WL520	Woodlawn	10/3/23 12:27 PM	336	2	672		
WL521	Woodlawn	9/26/23 6:13 PM	270	2	540		
WL530	Woodlawn	9/27/23 2:59 PM	244	2	488		
WL531	Woodlawn	9/27/23 2:18 PM	371	2	742		
WL532	Woodlawn	9/27/23 1:42 PM	353	2	706		
WL600A	Woodlawn	4/19/23 7:23 PM	56	1	56		Routine Flushing
WS104	Westland	8/21/23 11:29 AM	299	1	299		
WS104	Westland	11/1/23 11:22 AM	299	1	299	Yes	
WS104	Westland	11/16/23 4:20 PM	299	1	299	Yes	
Total feet					246,022		
Total miles					46.6		

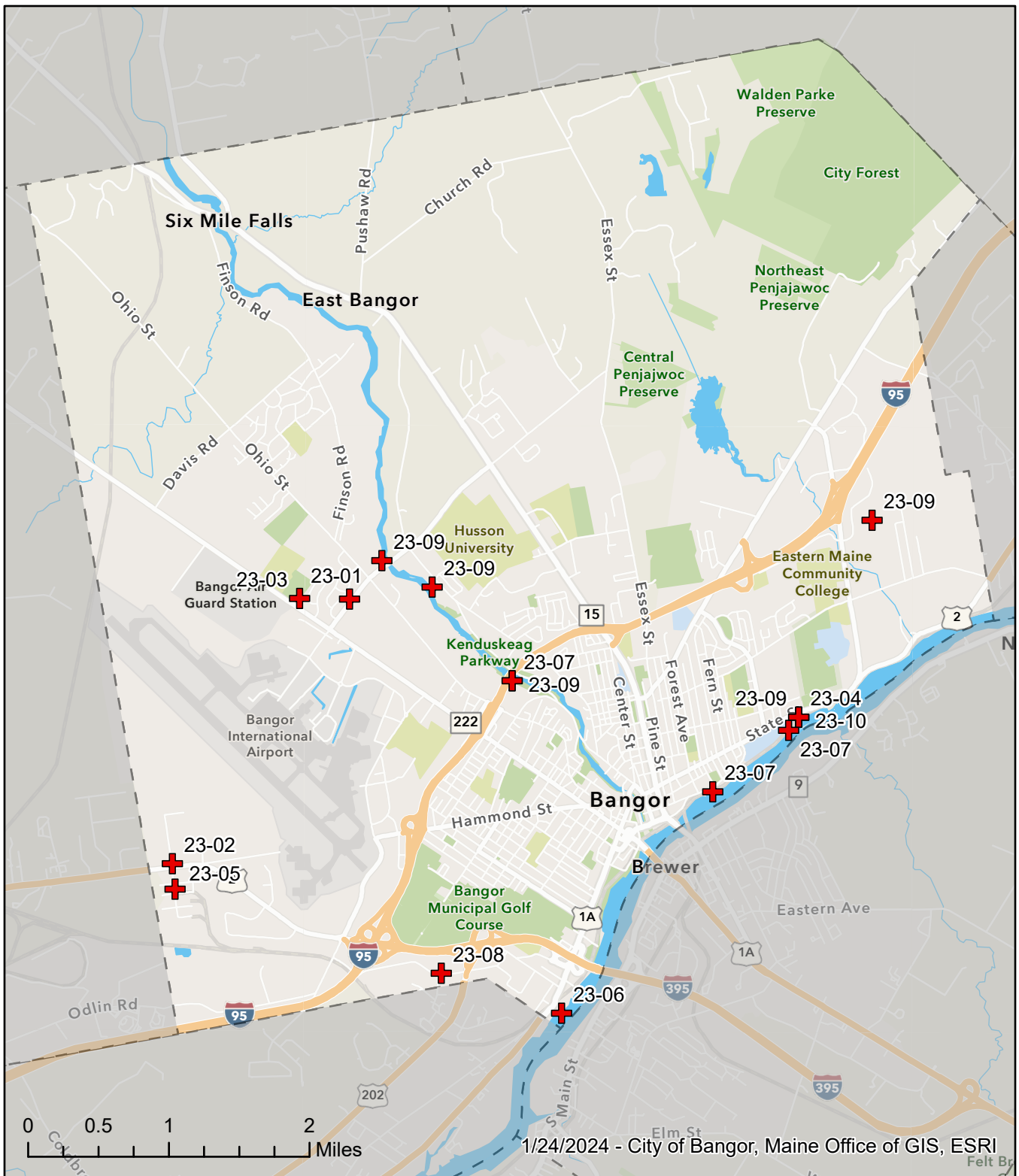
Appendix E
SSO Event Log

APPENDIX E: SSO EVENT LOG

City of Bangor, Maine
Calendar Year 2023

Event No.	Date/Time Reported or Discovered	Date/Time Stopped	Location (Nearest Address)	Final Disposition (Ground, Street, MS4, Surface Water)	Source of Notification	Suspected Cause of Event	Due to blockage or hydraulic limitation within publicly owned Collection System	Measures Taken to Stop Event	Estimated Release Volume (gal)/ Methodology	Date of Most Recent Prior SSO Event at Location
23-01	1/10/2023	1/10/2023	219, 221, 223, 225 Griffin Road	Apartment Basement through floor drains	Nichols Plumbing to Sewer Department	Root Blockage in City Sewer Main	Yes	Cleared blockage and spoke to Apartment Manager to remove floor drains or provide back flow preventers.	162 Gallons	None
23-02	1/30/2023	1/30/2023	7 Hildreth Street Pump Station	Ground	Sewer Department	Malfunction of Vacuum Truck	No	Repaired Vacuum Truck	5 Gallons	None
23-03	5/28/2023	5/28/2023	247 Randolph Drive	Ground	Resident	Root Blockage in City Sewer Main	Yes	Cleared blockage and added sewer line to yearly cleaning and inspection list	10 Gallons	3/26/2016
23-04	8/9/2023	8/9/2023	489 State Street Manhole EP038	Ground	Sewer Crew walking cross country lines after rain event	Damaged Manhole and Heavy Rain Event	Yes	Repaired Manhole and placed riser on structure and bolted cover. Continue to inspect cross country lines after heavy rain events	Unknown	10/19/2022
23-05	8/15/2023	8/15/2023	65 Hildreth Street	Ground	Contractor working for outside entity	Contractor struck sewer main while working on water main	No	Contractor immediately repaired damaged sewer line and cleaned site.	250 Gallons	None
23-06	10/7/2023 to 10/8/2023	10/8/2023	Two manholes on cross country line adjacent to Penobscot River, one manhole on cross country line between I-95 and Valley Avenue	Ground	Sewer Crew during Cross Country Inspection	3.06 inches of rain over 6 hour period	No	Continue to inspect cross country lines after rain events and make repairs when necessary. The City is working to reduce overflows through projects included in our LTCP.	Unknown	10/19/2022
23-07	10/8/2023	10/8/2023 - Total duration of discharge was about 17 minutes	229 Perry Road Pump Station	Ground	High Level Alarm through SCADA System	Pump 1 failed and pump 2 was inadvertently left in "Off" position rather than "Auto" after routine inspection.	No	Pump station is being reviewed by the City for future replacement due to age.	unknown	4/20/2021
23-08	12/10/2023 to 12/11/2023	12/11/2023	Various manholes along cross country lines	Ground	Sewer Crew walking cross country lines after rain event	3.35 inches of rain and snow melt in 18 hour period	No	Continue to inspect cross country lines after rain events and make repairs when necessary. The City is working to reduce overflows through projects included in our LTCP.	Unknown	10/8/2023
23-9	12/18/2023	12/18/2023	489 State Street Manhole EP038	Ground	Sewer Crew walking cross country lines after rain event	2.56 inches of heavy rain	No	Continue to inspect cross country lines after rain events and make repairs when necessary. The City is working to reduce overflows through projects included in our LTCP.	Unknown	12/11/2023

Appendix F
Location Map of Sanitary Sewer Overflows



Location of SSO Events 2023

