



# OFFICE OF THE CITY MANAGER

## CITY OF BANGOR

**Deborah A. Laurie**  
City Manager

January 30, 2023

Alex Rosenberg  
Enforcement Officer  
Water Technical Unit  
US Environmental Protection Agency, Region 1  
5 Post Office Square – Suite 100  
Mail Code OES04-4  
Boston, MA 02109-3912

RE: Annual Report on Compliance for Calendar Year 2022  
(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 2022 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.

The City of Bangor is proud of the work we have completed over the past year to reduce CSO's within our collection system. We are excited to monitor the New Davis Brook Tank in operation and determine the level of overall impact this structure has on our system in the coming year.

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

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	Appendix G
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

2022  
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, 2023



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# 2022 Annual Report on Compliance

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## **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
- G. Location Map of Illicit Connection

## 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: 1/26/23

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# 2022 Annual Report on Compliance

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## 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, 2022, and ending on December 31, 2022.

## II. Status of Compliance

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

<u>Date Submitted</u>	<u>Deliverable</u>
January 1, 2022	Bangor LTCP Plan B Update Memo
January 27, 2022	Annual Report on Compliance for calendar year 2021
January 28, 2022	Phase 3 SSES Report and Phase 4 SSES Scope of Work
February 28, 2022	Copy of Annual CSO Report to DEP for calendar year 2021
April 7, 2022	Bangor LTCP Plan B Update
June 29, 2022	GIS Deliverable (per Par. 9.a of the Consent Decree)
September 15, 2022	Copy of MS4 Permit Year 9 Report, 2021-2022 to DEP (per Par. 10 of the Consent Decree)
October 26, 2022	Meadowbrook Sewer Separation Memo
December 23, 2022	Bangor LTCP Plan B Update Memo
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 2022 reporting period.

## III. Compliance Activities

### A. Measures Taken to Reduce CSO and SSO Volumes

#### 1. Capital Improvement Projects (CIP)



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### Davis Brook CSO Storage Tank

The Davis Brook CSO Storage Tank (DBST) is the first CSO project identified in the City's Phase II Long Term Control Plan (LTCP). Construction of the Tank began in late February of 2020 and was substantially completed in October of 2022. 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 combined capacity of these two storage structures is 5.0 MG. The Davis Brook Tank has already had a positive impact on the City's collection system during wet weather. 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. This post construction monitoring will also assist the City with the design of future additional storage facilities.

The project was funded through the SRF program and the total construction cost for the project was about \$30 million.

### 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 project was advertised to Contractors in the summer of 2022. This work included the remaining 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.

### Wastewater Treatment Plant Generator

The City of Bangor completed the installation of a new natural gas backup generator system to provide auxiliary power to the treatment plant and all its operations. Substantial completion of the generator occurred in the early winter of 2021 with the backup generator placed into operation in the early spring of 2022. This project was a SRF funded project with a total estimated project budget of \$2.65 million.



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## 2022 Annual Report on Compliance

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### Water Street utility Improvements

In the spring and summer of 2022, the City of Bangor partnered with the Bangor Water District to complete a utility improvement project on Water Street. This project included constructing 440 linear feet of 8-inch diameter ductile iron water main replacement with appurtenances, removing and replacing 260 linear feet of 24-inch diameter brick sewer main, constructing 370 linear feet of 15-inch diameter storm drain, installing 2 sewer manholes, installing 4 catch basins, and pavement and sidewalk restoration.

This project separated stormwater flows from the sanitary sewer system in this portion of Water Street and also accounted for a future Main Street separation project. This project was a capital improvement project and cost the City of Bangor approximately \$530,000.

### Randolph Drive Sewer Replacement

During the spring and summer of 2022, Lou Silver Inc. completed a sanitary sewer replacement project on Randolph Drive for the City of Bangor. The project consisted of removing and replacing approximately 1,600 linear feet of 8-inch diameter clay tile sewer main, 900 linear feet of 4-inch diameter sewer laterals and installing 8 sewer manholes. This project was a capital improvement project with a construction cost of about \$360,000.

### Meadowbrook Sewer Separation Project

The City of Bangor and AECOM are 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 late fall of 2023 with construction anticipated to start in the spring of 2024.

### Barkersville Regulator Structure

The City of Bangor has contracted with AECOM to complete an evaluation of the Barkersville Regulator Structure to assess its current condition and determine if there are structural improvements that can be made to improve its hydraulic efficiency and reduce CSO discharge frequency and quantities. This work by AECOM is similar to the work they provided to the City for the Davis Brook Regulator Structure.

### 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.

## 2022 Annual Report on Compliance

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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 8 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 2022. The work includes the installation of 6 new precast concrete manholes to replace existing brick or barrel block manholes, 11 new precast concrete manholes to improve access, 604 feet of 8" PVC sewer main, 917 feet of 12" PVC sewer main, 219 feet of 15" PVC sewer main, and 232 feet of 24" PVC sewer main. The new PVC sewer pipe replaced existing brick and tile sewer main that was no longer functioning properly. The total cost of work completed under the Small Projects Account for the year 2022 was approximately \$699,855.

### Small Projects Account - Year 2022 Summary

Street Name (Nearest to Project)	Work Completed	Date Completed
West Street	Replaced 51' of old clay sewer with new 12" PVC. Replaced CB	4-12-22
School Street	Replaced 15' of old clay sewer with new 12" PVC, replaced one old barrel block manhole with one new precast concrete manhole.	4-27-22
French Street	Replaced 428' of old clay sewer with new 12" PVC, replaced one old brick manhole with new precast concrete manholes. Added two new precast manholes to improve access.	6-20-22
West Park Street	Replaced 169' of old clay sewer with new 8" PVC, added two new precast concrete manholes for access	6-28-22
Fifth Street	Replaced 26' and 69' of old 8" and 10" clay sewer with 8" and 10" PVC, added one new precast concrete manhole to improve access.	7-7-22
State Street	Replaced 232' of old brick sewer with new 24" PVC, added one new precast concrete manhole to improve access.	8-8-22
Lincoln Street	Replaced 366' of old clay sewer with new 8" PVC, added three new precast concrete manholes to improve access.	10-5-22

## 2022 Annual Report on Compliance

Norway Road	Replaced 423' of old clay sewer with 12" PVC, replaced one brick manhole with new precast concrete manhole. Added two new manholes to improve access.	11-2-22
Second Street	Replaced one brick manhole with a new precast concrete manhole.	11-8-22
Otis/Fruit Streets	Replaced 219' of old clay sewer with 15" PVC, replaced two old barrel block manholes with new precast manholes.	12-6-22

### Asset Management Program

The City of Bangor has contracted with Timmons Group and Cityworks to provide and implement an asset management software package to assist the City in the organizing and managing of City assets including the collection system, waste water treatment plant, stormwater system, and city transportation infrastructure. The City of Bangor has a robust GIS system and the intent of this asset management software is to complement our GIS system and help with further analysis of our systems. The City has a working group of staff from different City Departments that meet regularly with Timmons Group to work towards the implementation of the asset management software. Full implementation of the software package is a significant undertaking with full installation and operation currently scheduled for December of 2023.

The Bangor City Council is supportive of the City's efforts towards the reduction of CSO's. The Council supported a rate increase of 5.0% in 2022 and is aware that future rate hikes will be required to support our clean water goals in the future.

### **2. Weir and Regulator Adjustments**

All regulators and weir level instrumentation were visibly inspected in the spring of 2022 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.

### **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 2022. 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

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## 2022 Annual Report on Compliance

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for electronic flow meters, or visual means. This data was used to prepare the Annual CSO Progress Report for 2021, which was submitted to Maine DEP on February 28, 2022. 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 2022 to Maine DEP by March 1, 2023. A copy of the report will also be submitted to EPA.

### **B. Illicit Connections**

#### **1. List of Illicit Connections**

##### **67 Pine Street Cross Connection**

On October 4, 2022, during stormwater pipe repair work near Essex Street, a contractor for the City alerted the Stormwater Manager of a "laundry scent" in the pipe. The Stormwater Manager dye tested some of the larger buildings in the area on October 12, 2022. All services to these buildings were found to be connected to the sanitary sewer. More investigative work was completed in the area including existing plan review and CCTV inspection of both stormwater and sewer pipes.

It was noted that the number of sewer services in the sewer main on Pine Street between York and Hancock was one less than the number of buildings in the area. On November 29, 2022, a CCTV inspection of the stormwater mainline on Pine Street showed activity at a service in the vicinity of 67 Pine Street. A dye test confirmed the connection from the interior plumbing of the building at 67 Pine Street to the storm sewer system.

The City Stormwater Manager contacted the City's Small Projects Contractor to re-route the sewer service from the storm sewer to the sanitary sewer. The work was completed on December 8, 2022.

#### **2. GIS Map of Each Illicit Connection**

The location of the indirect illicit connection to the stormwater system that was repaired on Pine Street is provided in the Appendix G of this report.

### **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 712,607 linear feet, or 135.0 miles. The length of the remaining components of the sewer collection system, including interceptors, force mains, siphons, and leads, is approximately 77,463 linear feet, or approximately 14.7

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## 2022 Annual Report on Compliance

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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.

There are approximately 3,385 manholes in the collection system, including the new ones added this year.

### **1. CCTV Assessments**

The City and/or its subcontractors completed 108,145 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 100,073 linear feet, or about 14% 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.

### **2. Manhole Assessments**

The City and/or its subcontractors completed manhole inspections on 382 publicly owned sewer collection system manholes in 2022, which is about 11% of the total number of public manholes in the system. This number includes thirteen repeat inspections. 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 180,081 linear feet of pipe within the publicly owned sewer collection system in 2022, including repeat cleanings. The total length of pipe cleaned excluding repeat cleanings and additional passes is 75,357 linear feet, or about 10.6% of the inspectable portion (712,607 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.

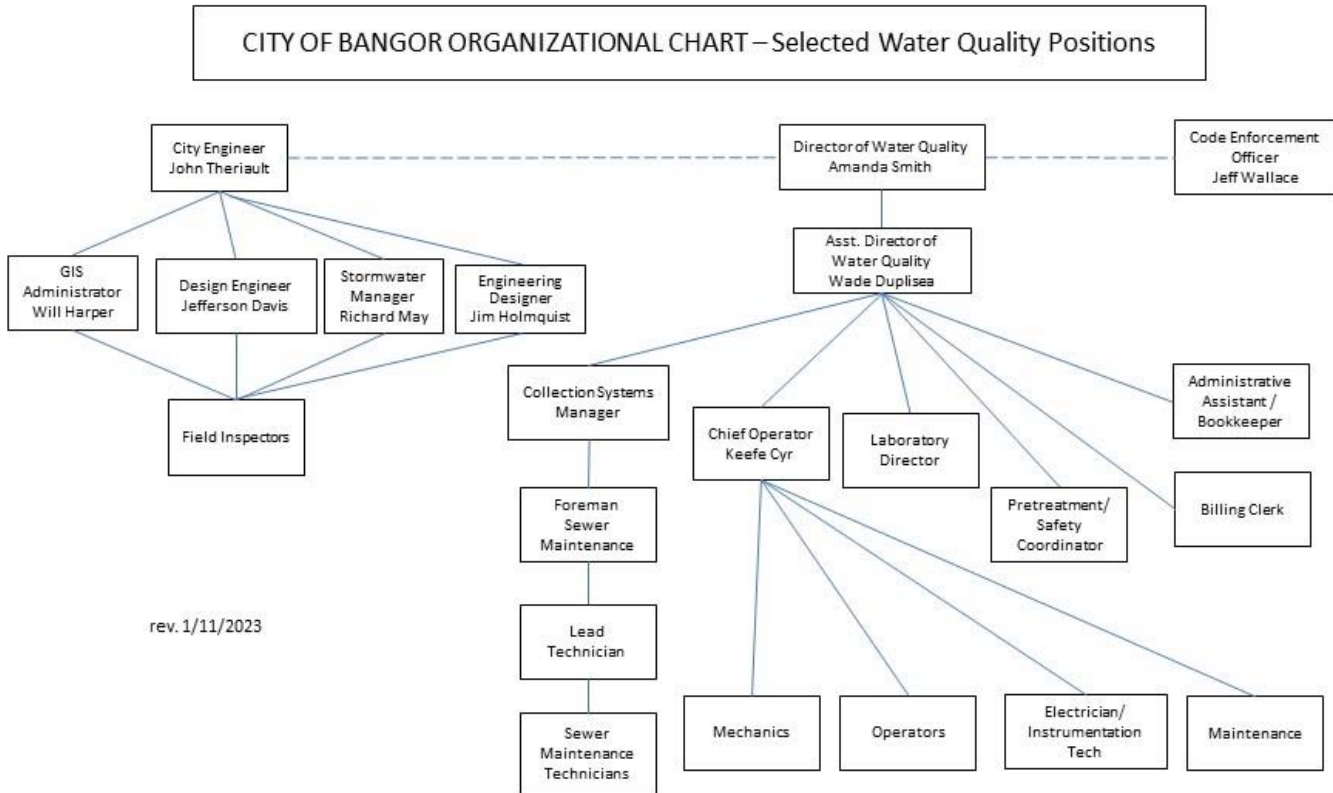
**D. Maintenance Improvement Plan (MIP)**

The City revises and updates the MIP on a yearly basis. The following substantive changes were made in 2022.

**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 pipe 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	7
Estimated total volume of SSOs (gallons)	10,974
Number of dry weather SSOs	1
Number of wet weather SSOs	6
Number of SSOs where weather was either unknown or irrelevant to type of incident	0
Number of SSOs caused primarily by pipe blockage (debris, grease)	2
Number of SSOs caused primarily by pipe failure	2

### **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 2022 reporting period, the City permitted the installation of two new interior grease traps and two replacement interior grease trap at four 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 seven SSOs that occurred during the reporting period. Six of these SSOs were wet weather occurrences and 1 was during dry weather. 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**

The City of Bangor is currently 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, the sewer crew completed 412 CCTV inspections. The breakdown of those inspections are as follows:

Meadowbrook: 221 inspections with about 56% of the Meadowbrook subsection complete

Cemetery: 107 inspections, with about 70% of the Cemetery subsection complete

Kenduskeag West: 97 inspections with about 28% of Kenduskeag West subsection complete

Hildreth Perry: 0 inspections

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## 2022 Annual Report on Compliance

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

The City has removed an estimated 582,020 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 maintenance and repair projects completed by the City.

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
TOTAL	14	582,020

*\* Projects included for 2022 estimate of reduction of infiltration include the Randolph Drive Sewer Replacement project, Water Street Utility Improvements, and the multiple projects completed under small project improvement program.*

*\*\*The 2022 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.*

The City worked this past year with AECOM, EPA, and DEP to modify/update the LTCP to allow for a period of monitoring the Davis Brook Tank project after being placed online in October of 2022 to determine this project's impacts on the collection system and the frequency of CSOs.

The City has also committed to completing a stormwater separation project in the Meadowbrook sewer shed during the Davis Brook Tank monitoring period as well as completing an evaluation and possible improvements to the Barkersville Regulator Structure.

### **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, 2023.
- Conduct 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.
- Begin development of design for stormwater separation project in Meadowbrook sewer shed.
- Begin evaluation of Barkersville Regulator Structure.

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**
- G. Location of (Indirect) Illicit Connection**

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
AB150	Arctic Brook	7/19/2022	108.4	Yes	Homeowner issue
AB151	Arctic Brook	9/7/2022	235.6	Yes	Pipe Condition Inspection
AB355	Arctic Brook	6/28/2022	90.4	No	
AB355	Arctic Brook	6/28/2022	46.7	Yes	Reversal
AB401	Arctic Brook	8/30/2022	345.5	Yes	Locating service connections
AB401A	Arctic Brook	8/30/2022	184.6	Yes	Locating service connections
AB503	Arctic Brook	11/4/2022	97.5	Yes	Homeowner issue
AB504	Arctic Brook	11/4/2022	150.3	Yes	Homeowner issue
AB504	Arctic Brook	11/8/2022	193.3	Yes	Locating jet hose, Reversal
AB504	Arctic Brook	11/14/2022	194.3	Yes	Checking on jet hose issue
AB504	Arctic Brook	11/17/2022	172.6	Yes	Checking on jet hose issue
AB505	Arctic Brook	12/1/2022	442.3	Yes	Infiltration Inspection
AB507	Arctic Brook	12/7/2022	230.1	Yes	Infiltration Inspection
AB508	Arctic Brook	12/7/2022	123.3	Yes	Infiltration Inspection
AB509	Arctic Brook	12/7/2022	143	Yes	Infiltration Inspection
AB509	Arctic Brook	12/7/2022	53.5	Yes	Infiltration Inspection, Reversal
AB512	Arctic Brook	12/8/2022	235.5	Yes	Infiltration Inspection
AB512	Arctic Brook	12/12/2022	22.3	Yes	Infiltration Inspection, Reversal
AB550	Arctic Brook	12/6/2022	377.3	Yes	Infiltration Inspection
AB551	Arctic Brook	12/6/2022	387.7	Yes	Infiltration Inspection
AB560	Arctic Brook	12/5/2022	330.1	Yes	Infiltration Inspection
AB561	Arctic Brook	12/5/2022	291.2	Yes	Infiltration Inspection
AB561	Arctic Brook	12/5/2022	239	Yes	Infiltration Inspection, Reversal
AB562	Arctic Brook	12/5/2022	78	Yes	Infiltration Inspection
AB562	Arctic Brook	12/7/2022	77	Yes	Flushed and re-inspected
AB570	Arctic Brook	12/8/2022	364.3	Yes	Infiltration Inspection
AB620	Arctic Brook	4/28/2022	60.2	Yes	Post Construction Inspection
AB621	Arctic Brook	4/28/2022	94.4	Yes	Post Construction Inspection
AB630	Arctic Brook	4/28/2022	0.6	Yes	Post Construction Inspection
AB700A	Arctic Brook	9/20/2022	42.7	No	Post Construction Inspection
AP240	Airport	2/14/2022	81.1	Yes	Locating buried manhole
AP240A	Airport	2/14/2022	67	No	
AP340	Airport	6/6/2022	129	Yes	Post Construction Inspection
AP341	Airport	6/6/2022	201.5	Yes	Post Construction Inspection
AP342	Airport	6/6/2022	275.7	Yes	Post Construction Inspection
AP343	Airport	6/6/2022	195.8	Yes	Post Construction Inspection
AP344	Airport	6/6/2022	197.3	Yes	Post Construction Inspection
AP345	Airport	6/6/2022	85	Yes	Post Construction Inspection
AP345	Airport	6/27/2022	295.1	Yes	Post Construction Inspection
AP346	Airport	6/7/2022	293.8	Yes	Post Construction Inspection
AP415	Airport	2/15/2022	158.1	Yes	Locating manhole connection
AP415A	Airport	8/23/2022	3.5	Yes	Pipe Condition Inspection
AP415A	Airport	8/23/2022	106.6	Yes	Pipe Condition Inspection, Reversal
AP416	Airport	2/15/2022	152.5	Yes	Locating manhole connection
AP507	Airport	6/27/2022	113.6	Yes	Post Construction Inspection
AP508	Airport	6/27/2022	198	Yes	Post Construction Inspection
AP530	Airport	6/27/2022	230	Yes	Post Construction Inspection
AP700A	Airport	1/12/2022	42	Yes	Replaced portion of line
AP700A	Airport	1/12/2022	225.5	Yes	Post Construction Inspection, Reversal
AP700A	Airport	1/19/2022	260.7	Yes	Repaired defect
AP701	Airport	1/18/2022	164.5	Yes	Replaced line

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AP702	Airport	1/18/2022	26.7	Yes	Replaced portion of line
AP708	Airport	3/8/2022	355.1	No	System layout
AP740	Airport	1/12/2022	110.5	Yes	Replaced line
AP740A	Airport	1/12/2022	134.6	Yes	Replaced line
AP741	Airport	1/18/2022	105	Yes	Replaced line
BS012	Blanchard Street	11/7/2022	373.2	Yes	Homeowner issue
BS900	Blanchard Street	1/18/2022	224.8	Yes	Sewer backup
BS901	Blanchard Street	1/18/2022	221.8	Yes	Sewer backup, Reversal
BS901	Blanchard Street	1/18/2022	2.4	Yes	Sewer backup
BS902	Blanchard Street	1/18/2022	98.8	Yes	Sewer backup
BS903	Blanchard Street	1/18/2022	95.5	Yes	Sewer backup
BU023	Burleigh	8/9/2022	293.6	Yes	Sinkhole investigation
BV107	Barkersville	6/23/2022	178.6	Yes	Homeowner issue
BV108	Barkersville	6/23/2022	12.6	Yes	Homeowner issue
BV108	Barkersville	6/28/2022	103.5	Yes	Homeowner issue
BV108	Barkersville	6/28/2022	10.6	Yes	Homeowner issue, Reversal
BV108	Barkersville	12/15/2022	103.4	Yes	Fuel Oil smell
BV108	Barkersville	12/15/2022	11.1	Yes	Fuel Oil smell, Reversal
BV109	Barkersville	6/23/2022	568.7	Yes	Homeowner issue
BV110	Barkersville	12/15/2022	261.2	Yes	Locating service connections
BV125	Barkersville	11/28/2022	183.6	Yes	Locating service connections
BV129	Barkersville	4/19/2022	52.2	Yes	Sinkhole investigation
BV129	Barkersville	4/20/2022	245.3	Yes	Post Construction Inspection
BV131	Barkersville	4/20/2022	6.1	No	
BV421	Barkersville	3/2/2022	51.5	Yes	Homeowner issue
BV466	Barkersville	2/14/2022	488	Yes	
BV535	Barkersville	1/26/2022	62.2	Yes	Homeowner issue
BV535	Barkersville	10/6/2022	152.6	Yes	Replaced line
BV536	Barkersville	10/6/2022	146.6	No	Post Construction Inspection
BV537	Barkersville	10/6/2022	63	No	Post Construction Inspection
BV540	Barkersville	8/17/2022	231.6	Yes	Sinkhole investigation
BV587	Barkersville	4/15/2022	259.5	Yes	Post Construction Inspection
BV602	Barkersville	7/12/2022	22.6	Yes	Locating service connections
BV602	Barkersville	8/9/2022	35.2	Yes	Locating service connections
BV603	Barkersville	5/26/2022	118	Yes	Locating service connections
BV603	Barkersville	5/26/2022	306.5	Yes	Locating service connections, Reversal
BV603	Barkersville	7/12/2022	95.7	Yes	Locating BV645 main
BV626	Barkersville	9/6/2022	323.6	Yes	Locating service connections
BV635	Barkersville	7/12/2022	189.9	Yes	Locating service connections
BV635	Barkersville	7/27/2022	177.8	Yes	Locating end of sewer main
BV640	Barkersville	7/12/2022	7	Yes	Locating service connections
BV640	Barkersville	8/3/2022	49.9	Yes	Locating service connections
BV650	Barkersville	11/1/2022	175.4	Yes	Post Construction Inspection
BV655	Barkersville	11/1/2022	149.1	Yes	Post Construction Inspection
BV715	Barkersville	2/14/2022	62.7	No	
BV715	Barkersville	2/16/2022	80	Yes	Flushed and re-inspected
BV762	Barkersville	8/22/2022	83.6	Yes	Protruding service identification
CB106	Carr Brook	1/20/2022	301.7	Yes	Homeowner issue
CB107	Carr Brook	1/20/2022	300.5	Yes	Homeowner issue
CB112B	Carr Brook	3/16/2022	52.9	No	Homeowner issue
CB201A	Carr Brook	5/2/2022	147.3	Yes	Post Construction Inspection

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CB201B	Carr Brook	6/16/2022	45.2	Yes	Locating service connections
CB201B	Carr Brook	7/11/2022	72.8	Yes	Locating service connections
CB201B	Carr Brook	7/11/2022	46.1	Yes	Locating service connections, Reversal
CB201C	Carr Brook	6/16/2022	32	Yes	Locating service connections
CB201C	Carr Brook	7/11/2022	33.4	Yes	Locating service connections
CB201D	Carr Brook	8/11/2022	72	Yes	Locating service connections
CB202	Carr Brook	5/2/2022	0.6	No	Post Construction Inspection
CB210	Carr Brook	9/30/2022	16	Yes	Locating service connections, Reversal
CB210	Carr Brook	9/30/2022	137.3	Yes	Locating service connections
CB210	Carr Brook	12/12/2022	114.6	Yes	Post Construction Inspection
CB210A	Carr Brook	12/8/2022	26.6	Yes	Post Construction Inspection
CB210A	Carr Brook	12/12/2022	92	Yes	Post Construction Inspection, Reversal
CB280	Carr Brook	2/7/2022	171.6	Yes	Homeowner issue
CB601	Carr Brook	7/14/2022	67	Yes	Sinkhole investigation
CB702	Carr Brook	2/11/2022	5.8	Yes	Homeowner issue
CB702	Carr Brook	4/14/2022	68.3	Yes	Replaced portion of line
CB750	Carr Brook	3/23/2022	200.5	Yes	Homeowner issue
CB750	Carr Brook	3/24/2022	304.2	Yes	Homeowner issue
CB851	Carr Brook	2/15/2022	390.8	Yes	Spot Repair scoping
CB851	Carr Brook	2/16/2022	25.6	Yes	Spot Repair scoping, Reversal
CM005	Cemetery	3/1/2022	167.6	Yes	Infiltration Inspection
CM006	Cemetery	3/1/2022	125.3	Yes	Infiltration Inspection
CM007	Cemetery	3/1/2022	224.3	Yes	Infiltration Inspection
CM008	Cemetery	3/30/2022	279	Yes	Infiltration Inspection
CM012	Cemetery	3/10/2022	230.5	Yes	Infiltration Inspection
CM012A	Cemetery	3/10/2022	31.7	Yes	Infiltration Inspection
CM013	Cemetery	3/10/2022	160.8	Yes	Infiltration Inspection
CM100	Cemetery	3/29/2022	41.2	Yes	Infiltration Inspection
CM104A	Cemetery	2/15/2022	23.2	No	
CM104A	Cemetery	3/21/2022	24.2	Yes	Infiltration Inspection
CM104B	Cemetery	2/15/2022	319.2	No	
CM104B	Cemetery	3/21/2022	316.2	Yes	Infiltration Inspection
CM104C	Cemetery	2/15/2022	184.6	No	
CM104C	Cemetery	3/21/2022	178.8	Yes	Infiltration Inspection
CM105	Cemetery	3/21/2022	22.7	No	Infiltration Inspection
CM350	Cemetery	3/1/2022	327.7	Yes	Infiltration Inspection
CM351	Cemetery	3/1/2022	50.2	Yes	Infiltration Inspection
CM351A	Cemetery	3/1/2022	238.3	Yes	Infiltration Inspection
CM400	Cemetery	3/29/2022	24.7	Yes	Infiltration Inspection
CM451	Cemetery	3/9/2022	185.6	Yes	Infiltration Inspection
CM452	Cemetery	3/9/2022	181.1	Yes	Infiltration Inspection
CM501	Cemetery	3/28/2022	232.1	Yes	Infiltration Inspection
CM502	Cemetery	3/28/2022	231	Yes	Infiltration Inspection
CM503	Cemetery	3/28/2022	7.8	Yes	Infiltration Inspection
CM504	Cemetery	3/28/2022	119	Yes	Infiltration Inspection
CM505	Cemetery	5/4/2022	297.7	Yes	Infiltration Inspection
CM506	Cemetery	5/4/2022	247.8	Yes	Infiltration Inspection
CM507	Cemetery	5/4/2022	260.6	Yes	Infiltration Inspection
CM508	Cemetery	5/4/2022	219.6	Yes	Infiltration Inspection
CM509	Cemetery	3/3/2022	153.5	Yes	Infiltration Inspection
CM510	Cemetery	3/3/2022	301.7	Yes	Infiltration Inspection



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CM511	Cemetery	3/3/2022	304.8	Yes	Infiltration Inspection
CM512	Cemetery	3/2/2022	290	Yes	Infiltration Inspection
CM513	Cemetery	3/2/2022	250	Yes	Infiltration Inspection
CM513	Cemetery	3/2/2022	57.5	Yes	Infiltration Inspection, Reversal
CM514	Cemetery	3/2/2022	318.3	Yes	Infiltration Inspection
CM515	Cemetery	3/2/2022	288.1	Yes	Infiltration Inspection
CM516	Cemetery	3/2/2022	40.5	Yes	Infiltration Inspection
CM518	Cemetery	3/3/2022	344	Yes	Infiltration Inspection
CM550	Cemetery	3/21/2022	234.5	Yes	Infiltration Inspection
CM551	Cemetery	3/21/2022	226.1	Yes	Infiltration Inspection
CM570	Cemetery	3/2/2022	39	Yes	Infiltration Inspection
CM600	Cemetery	3/21/2022	94.8	Yes	Infiltration Inspection
CM601	Cemetery	3/9/2022	126.5	Yes	Infiltration Inspection
CM604	Cemetery	3/28/2022	32.2	Yes	Infiltration Inspection
CM605	Cemetery	2/16/2022	122	No	
CM605	Cemetery	3/25/2022	123.3	Yes	Infiltration Inspection
CM606	Cemetery	2/16/2022	274.7	No	
CM606	Cemetery	3/25/2022	269.2	Yes	Infiltration Inspection
CM607	Cemetery	2/16/2022	198.6	No	
CM607	Cemetery	3/25/2022	195.6	Yes	Infiltration Inspection
CM608	Cemetery	3/25/2022	189.6	Yes	Infiltration Inspection
CM609	Cemetery	3/25/2022	216	Yes	Infiltration Inspection
CM610	Cemetery	3/22/2022	40.5	Yes	Infiltration Inspection
CM611	Cemetery	3/22/2022	267	Yes	Infiltration Inspection
CM612	Cemetery	3/22/2022	316.2	Yes	Infiltration Inspection
CM613	Cemetery	3/28/2022	288.8	Yes	Infiltration Inspection
CM614	Cemetery	3/17/2022	37.7	Yes	Infiltration Inspection
CM614A	Cemetery	3/17/2022	78.8	Yes	Infiltration Inspection
CM614A	Cemetery	3/18/2022	161.8	Yes	Completed inspection
CM615	Cemetery	3/18/2022	140	Yes	Infiltration Inspection
CM615A	Cemetery	3/18/2022	15.1	No	Infiltration Inspection
CM616	Cemetery	3/28/2022	139.3	No	Infiltration Inspection
CM620	Cemetery	3/28/2022	1.1	No	Infiltration Inspection
CM640	Cemetery	3/30/2022	64.8	No	Infiltration Inspection
CM651A	Cemetery	3/17/2022	18.5	Yes	Infiltration Inspection
CM660	Cemetery	3/22/2022	56.2	Yes	Infiltration Inspection
CM670	Cemetery	3/28/2022	32.2	Yes	Infiltration Inspection
CM671	Cemetery	3/8/2022	240.1	Yes	Infiltration Inspection
CM672	Cemetery	3/8/2022	221.3	Yes	Infiltration Inspection
CM680	Cemetery	3/8/2022	30.8	Yes	Infiltration Inspection
CM681	Cemetery	3/8/2022	298.5	Yes	Infiltration Inspection
CM682	Cemetery	3/8/2022	223.1	Yes	Infiltration Inspection
CM690	Cemetery	3/17/2022	35.9	Yes	Infiltration Inspection
CM700	Cemetery	3/7/2022	29	Yes	Infiltration Inspection
CM701	Cemetery	3/7/2022	221.1	Yes	Infiltration Inspection
CM702	Cemetery	3/7/2022	405.2	Yes	Infiltration Inspection
CM703	Cemetery	3/7/2022	228.1	Yes	Infiltration Inspection
CM705	Cemetery	3/7/2022	246.3	Yes	Infiltration Inspection
CM706	Cemetery	3/7/2022	25.2	Yes	Infiltration Inspection
CM707	Cemetery	3/7/2022	234.8	Yes	Infiltration Inspection
CM708	Cemetery	3/7/2022	240.1	Yes	Infiltration Inspection

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CM709	Cemetery	3/7/2022	325.2	Yes	Infiltration Inspection
CM710	Cemetery	3/7/2022	343.7	Yes	Infiltration Inspection
CM711	Cemetery	3/17/2022	296.2	Yes	Infiltration Inspection
CM712	Cemetery	3/17/2022	203.1	Yes	Infiltration Inspection
CM720	Cemetery	3/11/2022	175.1	Yes	Infiltration Inspection
CM730	Cemetery	3/14/2022	246.8	Yes	Infiltration Inspection
CM731	Cemetery	3/14/2022	237.8	Yes	Infiltration Inspection
CM740	Cemetery	3/15/2022	32.7	Yes	Infiltration Inspection
CM741	Cemetery	3/15/2022	370.3	Yes	Infiltration Inspection
CM750	Cemetery	3/8/2022	259.2	Yes	Infiltration Inspection
CM751	Cemetery	3/8/2022	181.6	Yes	Infiltration Inspection
CM760	Cemetery	3/15/2022	22.2	No	Infiltration Inspection
CM761	Cemetery	3/15/2022	225.1	Yes	Infiltration Inspection
CM761	Cemetery	3/15/2022	122.4	Yes	Infiltration Inspection, Reversal
CM770	Cemetery	3/8/2022	216	Yes	Infiltration Inspection
CM771	Cemetery	3/8/2022	236.3	Yes	Infiltration Inspection
CM780	Cemetery	3/15/2022	31.2	Yes	Infiltration Inspection
CM781	Cemetery	3/16/2022	74.8	Yes	Infiltration Inspection
CM781	Cemetery	3/16/2022	231.3	Yes	Infiltration Inspection, Reversal
CM850	Cemetery	3/3/2022	156.3	Yes	Infiltration Inspection
CM860	Cemetery	3/17/2022	265.1	Yes	Infiltration Inspection
CM900	Cemetery	3/10/2022	291.2	Yes	Infiltration Inspection
CM900	Cemetery	7/18/2022	295.5	Yes	Completed inspection
CM901	Cemetery	3/10/2022	296.5	Yes	Infiltration Inspection
CM902	Cemetery	3/10/2022	192.3	Yes	Infiltration Inspection
CM903	Cemetery	3/11/2022	8.6	Yes	Infiltration Inspection
CM904	Cemetery	3/11/2022	116.6	Yes	Infiltration Inspection
CM925	Cemetery	3/14/2022	16.8	No	Infiltration Inspection
CM925	Cemetery	3/14/2022	226.8	Yes	Infiltration Inspection, Reversal
CM926	Cemetery	3/14/2022	296.2	No	Infiltration Inspection
CM950	Cemetery	3/11/2022	16.3	Yes	Infiltration Inspection
CM951	Cemetery	3/11/2022	173.6	Yes	Infiltration Inspection
DB025	Davis Brook	6/2/2022	19.5	Yes	Sinkhole investigation
DB304B	Davis Brook	8/25/2022	300.8	Yes	Sinkhole investigation
DB404	Davis Brook	1/24/2022	134.8	Yes	Water main break
DB405	Davis Brook	1/24/2022	71.6	Yes	Water main break
DB406	Davis Brook	1/22/2022	666.4	Yes	Water main break
DB550	Davis Brook	1/20/2022	141.6	Yes	Spot Repair
DB630	Davis Brook	8/3/2022	9.6	Yes	Post Construction Inspection
DB630A	Davis Brook	8/3/2022	61.7	Yes	Post Construction Inspection
DB632	Davis Brook	8/3/2022	2.7	No	Post Construction Inspection
DB917	Davis Brook	7/27/2022	46.9	Yes	Post Service Trimming Inspection
DN501	Dutton Street	7/13/2022	67	No	
DN501	Dutton Street	8/11/2022	65.3	No	Reversal
DW005A	Dow	6/27/2022	98.3	No	
DW276	Dow	9/6/2022	270.3	Yes	Locating service connections
DW305	Dow	7/18/2022	250.1	Yes	Grease inspection
DW306	Dow	7/18/2022	203.3	Yes	Grease inspection
DW307	Dow	7/18/2022	334.7	Yes	Grease inspection
DW308	Dow	7/18/2022	336.2	Yes	Grease inspection
FK351	Franklin Street	4/6/2022	178.8	Yes	Sinkhole investigation

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
FS001	Fourteenth Street	7/6/2022	2	No	
FS002A	Fourteenth Street	7/6/2022	359.1	No	
FS003	Fourteenth Street	7/6/2022	295.1	No	
FS004	Fourteenth Street	7/6/2022	339.6	No	
FS005	Fourteenth Street	7/6/2022	397	No	
FS006	Fourteenth Street	7/6/2022	297	No	
FS007	Fourteenth Street	7/6/2022	228.9	No	
FS011	Fourteenth Street	12/28/2022	245.1	No	Homeowner issue
HK041	Hancock Street	11/30/2022	323.3	Yes	Locating service connections
HK080	Hancock Street	11/8/2022	221	No	
HK111	Hancock Street	8/2/2022	1.1	No	
HK111	Hancock Street	8/2/2022	82.1	No	Reversal
HK112	Hancock Street	8/2/2022	5.4	No	
HK214	Hancock Street	5/18/2022	103	Yes	Sinkhole investigation
HK522	Hancock Street	8/16/2022	32.7	Yes	Homeowner issue
HK525	Hancock Street	5/10/2022	89.5	Yes	Sinkhole investigation
HK575	Hancock Street	5/3/2022	35.9	Yes	Sinkhole investigation
HK652	Hancock Street	10/24/2022	204.8	Yes	Homeowner issue
HK704	Hancock Street	7/11/2022	109.4	Yes	Locating service connections
HK705	Hancock Street	7/11/2022	27.5	Yes	Locating service connections
HP081	Hildreth Perry	1/26/2022	348.3	Yes	Removed crossbore
HP226A	Hildreth Perry	1/20/2022	300.3	No	
HP407	Hildreth Perry	12/14/2022	21.7	Yes	Grease inspection
HP407	Hildreth Perry	12/14/2022	132	Yes	Grease inspection, Reversal
HP407	Hildreth Perry	12/14/2022	88.6	Yes	Grease inspection
HP407	Hildreth Perry	12/14/2022	319.1	Yes	Grease inspection
HP408	Hildreth Perry	10/24/2022	151.6	Yes	Sinkhole investigation
KE208	Kenduskeag East	8/23/2022	31.3	Yes	Post Construction Inspection
KE208D	Kenduskeag East	8/23/2022	197.6	No	Post Construction Inspection
KE302	Kenduskeag East	11/28/2022	580.7	Yes	Homeowner issue
KE500	Kenduskeag East	8/23/2022	7.8	no	Post Construction Inspection
KE500	Kenduskeag East	8/30/2022	17.1	Yes	Attempting completion
KW003	Kenduskeag West	3/28/2022	60.5	Yes	Infiltration Inspection
KW004	Kenduskeag West	3/28/2022	132.3	Yes	Infiltration Inspection
KW005	Kenduskeag West	3/28/2022	52.7	Yes	Infiltration Inspection
KW006	Kenduskeag West	3/9/2022	82.5	Yes	Infiltration Inspection
KW006	Kenduskeag West	9/15/2022	106	Yes	Sinkhole investigation
KW007	Kenduskeag West	3/9/2022	293	Yes	Infiltration Inspection
KW008	Kenduskeag West	3/9/2022	68.4	Yes	Infiltration Inspection
KW009	Kenduskeag West	3/9/2022	263.8	Yes	Infiltration Inspection
KW009A	Kenduskeag West	3/9/2022	51	Yes	Infiltration Inspection
KW014	Kenduskeag West	3/11/2022	66.3	Yes	Infiltration Inspection
KW015	Kenduskeag West	2/28/2022	348.2	No	
KW015	Kenduskeag West	3/11/2022	349.2	Yes	Infiltration Inspection
KW016	Kenduskeag West	2/28/2022	351.2	No	
KW016	Kenduskeag West	3/25/2022	352.3	Yes	Infiltration Inspection
KW017	Kenduskeag West	3/25/2022	357.1	No	Infiltration Inspection
KW018	Kenduskeag West	3/25/2022	160.1	No	Infiltration Inspection
KW019	Kenduskeag West	2/28/2022	43	No	
KW019	Kenduskeag West	3/25/2022	140.5	Yes	Infiltration Inspection
KW019	Kenduskeag West	3/25/2022	6.5	Yes	Infiltration Inspection, Reversal

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KW020	Kenduskeag West	2/28/2022	196.6	No	
KW040	Kenduskeag West	3/28/2022	32.7	Yes	Infiltration Inspection
KW041	Kenduskeag West	3/28/2022	1.7	No	Infiltration Inspection
KW050A	Kenduskeag West	6/29/2022	196.3	Yes	Verifying flow
KW051	Kenduskeag West	3/9/2022	175.6	Yes	Infiltration Inspection
KW060A	Kenduskeag West	3/17/2022	86.1	Yes	Infiltration Inspection
KW065	Kenduskeag West	3/17/2022	47	Yes	Infiltration Inspection
KW070	Kenduskeag West	3/28/2022	94.6	Yes	Infiltration Inspection
KW071	Kenduskeag West	3/28/2022	198.5	Yes	Infiltration Inspection
KW075	Kenduskeag West	3/21/2022	160.5	Yes	Infiltration Inspection
KW090	Kenduskeag West	3/21/2022	75.8	Yes	Infiltration Inspection
KW100	Kenduskeag West	3/1/2022	45.2	Yes	Infiltration Inspection
KW100A	Kenduskeag West	3/1/2022	270.5	Yes	Infiltration Inspection
KW100B	Kenduskeag West	3/1/2022	227.3	Yes	Infiltration Inspection
KW101	Kenduskeag West	3/1/2022	301.3	Yes	Infiltration Inspection
KW101A	Kenduskeag West	3/1/2022	264.2	Yes	Infiltration Inspection
KW102	Kenduskeag West	3/1/2022	18.5	Yes	Infiltration Inspection
KW102A	Kenduskeag West	3/1/2022	117.5	Yes	Infiltration Inspection
KW102B	Kenduskeag West	3/1/2022	23.8	Yes	Infiltration Inspection
KW102B	Kenduskeag West	3/2/2022	10.3	Yes	Infiltration Inspection, Reversal
KW102C	Kenduskeag West	3/2/2022	9.3	Yes	Infiltration Inspection
KW103	Kenduskeag West	3/14/2022	348.7	Yes	Infiltration Inspection
KW104	Kenduskeag West	3/14/2022	12.8	Yes	Infiltration Inspection
KW104	Kenduskeag West	3/14/2022	116.5	No	Infiltration Inspection, Reversal
KW105	Kenduskeag West	3/14/2022	147	No	Infiltration Inspection
KW110	Kenduskeag West	3/28/2022	16.1	No	Infiltration Inspection
KW160	Kenduskeag West	3/30/2022	144.3	Yes	Infiltration Inspection
KW171	Kenduskeag West	3/21/2022	316.8	No	Infiltration Inspection
KW172	Kenduskeag West	3/21/2022	26.5	No	Infiltration Inspection
KW200	Kenduskeag West	3/17/2022	17.7	Yes	Infiltration Inspection
KW200	Kenduskeag West	3/18/2022	50	Yes	Infiltration Inspection, Reversal
KW201	Kenduskeag West	3/16/2022	782.4	Yes	Infiltration Inspection
KW201	Kenduskeag West	3/17/2022	8.5	Yes	Infiltration Inspection, Reversal
KW203	Kenduskeag West	3/14/2022	55.2	Yes	Infiltration Inspection
KW203	Kenduskeag West	3/15/2022	185	Yes	Infiltration Inspection
KW203	Kenduskeag West	3/15/2022	10.8	Yes	Infiltration Inspection, Reversal
KW204	Kenduskeag West	3/14/2022	73.4	Yes	Infiltration Inspection
KW204	Kenduskeag West	3/14/2022	14.1	Yes	Infiltration Inspection, Reversal
KW220	Kenduskeag West	3/30/2022	4.8	No	Infiltration Inspection
KW240	Kenduskeag West	3/3/2022	110.5	Yes	Infiltration Inspection
KW240	Kenduskeag West	3/11/2022	113.1	Yes	Homeowner issue
KW250	Kenduskeag West	3/15/2022	123.9	Yes	Infiltration Inspection
KW251	Kenduskeag West	3/15/2022	210	Yes	Infiltration Inspection
KW295	Kenduskeag West	3/2/2022	80	Yes	Infiltration Inspection
KW296	Kenduskeag West	3/2/2022	0.5	Yes	Infiltration Inspection
KW296	Kenduskeag West	3/22/2022	55.2	Yes	Homeowner issue
KW301	Kenduskeag West	3/22/2022	94.8	Yes	Infiltration Inspection
KW301A	Kenduskeag West	3/22/2022	11.8	Yes	Infiltration Inspection
KW301A	Kenduskeag West	3/22/2022	3.5	Yes	Infiltration Inspection, Reversal
KW302	Kenduskeag West	3/22/2022	31.5	Yes	Infiltration Inspection
KW302	Kenduskeag West	3/22/2022	173.6	Yes	Flushed and re-inspected

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
KW304B	Kenduskeag West	3/30/2022	81.5	Yes	Infiltration Inspection
KW320	Kenduskeag West	3/30/2022	11.8	No	Infiltration Inspection
KW350	Kenduskeag West	3/9/2022	59.5	Yes	Infiltration Inspection
KW350A	Kenduskeag West	3/9/2022	174.3	Yes	Infiltration Inspection
KW351	Kenduskeag West	3/9/2022	11.3	Yes	Infiltration Inspection
KW351A	Kenduskeag West	3/2/2022	179.3	Yes	Infiltration Inspection
KW360	Kenduskeag West	3/2/2022	11.3	Yes	Infiltration Inspection
KW360A	Kenduskeag West	3/2/2022	183.8	Yes	Infiltration Inspection
KW361	Kenduskeag West	3/2/2022	177.3	Yes	Infiltration Inspection
KW370	Kenduskeag West	3/3/2022	10.3	Yes	Infiltration Inspection
KW381	Kenduskeag West	3/23/2022	21.2	Yes	Infiltration Inspection
KW382	Kenduskeag West	3/23/2022	68.6	Yes	Infiltration Inspection
KW383	Kenduskeag West	3/23/2022	225	Yes	Infiltration Inspection
KW385	Kenduskeag West	3/23/2022	16.2	Yes	Infiltration Inspection
KW386	Kenduskeag West	3/23/2022	174.3	Yes	Infiltration Inspection
KW400	Kenduskeag West	3/22/2022	180.1	Yes	Infiltration Inspection
KW400	Kenduskeag West	5/23/2022	50	Yes	Service issue
KW400	Kenduskeag West	5/23/2022	81	Yes	Service issue
KW448	Kenduskeag West	3/22/2022	10.1	Yes	Infiltration Inspection
KW449	Kenduskeag West	3/23/2022	21.2	Yes	Infiltration Inspection
KW450	Kenduskeag West	3/23/2022	9.3	Yes	Infiltration Inspection
KW501	Kenduskeag West	3/23/2022	23.6	Yes	Infiltration Inspection
KW502	Kenduskeag West	3/23/2022	19.5	Yes	Infiltration Inspection
KW502	Kenduskeag West	5/11/2022	3.2	Yes	Service issue
KW502	Kenduskeag West	5/17/2022	148.6	Yes	Service issue
KW550	Kenduskeag West	3/24/2022	156.8	Yes	Infiltration Inspection
KW551	Kenduskeag West	3/24/2022	141.1	Yes	Infiltration Inspection
KW551	Kenduskeag West	5/6/2022	136.6	Yes	Service issue
KW551	Kenduskeag West	5/19/2022	129.1	Yes	Locating u/s of main
KW605A	Kenduskeag West	9/8/2022	254	No	Post Construction Inspection
KW605B	Kenduskeag West	3/30/2022	84	Yes	Pre Construction Inspection
KW605B	Kenduskeag West	9/8/2022	220.8	Yes	Post Construction Inspection
KW652	Kenduskeag West	3/15/2022	26.3	Yes	Infiltration Inspection
KW660	Kenduskeag West	3/15/2022	1.1	Yes	Infiltration Inspection
KW703	Kenduskeag West	3/24/2022	8.8	Yes	Infiltration Inspection
KW703	Kenduskeag West	3/24/2022	116.2	Yes	Infiltration Inspection, Reversal
KW704	Kenduskeag West	3/24/2022	62.7	No	Infiltration Inspection
KW902	Kenduskeag West	3/21/2022	295.8	No	Infiltration Inspection
KW903	Kenduskeag West	3/18/2022	165.6	No	Infiltration Inspection
KW920	Kenduskeag West	3/29/2022	67.1	Yes	Infiltration Inspection
KW921	Kenduskeag West	3/29/2022	6	Yes	Infiltration Inspection
KW940	Kenduskeag West	3/29/2022	69.4	Yes	Infiltration Inspection
KW941	Kenduskeag West	3/29/2022	19.7	Yes	Infiltration Inspection
KW999	Kenduskeag West	3/29/2022	7.8	Yes	Infiltration Inspection
MB016	Meadowbrook	5/16/2022	21.5	Yes	Infiltration Inspection
MB017	Meadowbrook	5/16/2022	269.1	Yes	Infiltration Inspection
MB018	Meadowbrook	5/16/2022	123.3	Yes	Infiltration Inspection
MB022	Meadowbrook	3/16/2022	109.6	No	Homeowner issue
MB023	Meadowbrook	3/16/2022	40.5	Yes	Homeowner issue
MB044	Meadowbrook	5/16/2022	303.2	Yes	Infiltration Inspection
MB104	Meadowbrook	4/1/2022	249.1	Yes	Infiltration Inspection

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
MB108	Meadowbrook	3/31/2022	29.2	Yes	Infiltration Inspection
MB109	Meadowbrook	3/31/2022	237.6	Yes	Infiltration Inspection
MB110	Meadowbrook	3/31/2022	200.3	Yes	Infiltration Inspection
MB111	Meadowbrook	3/31/2022	2.9	Yes	Infiltration Inspection
MB111	Meadowbrook	3/31/2022	221.6	Yes	Infiltration Inspection, Reversal
MB112	Meadowbrook	3/31/2022	222.3	Yes	Infiltration Inspection
MB113	Meadowbrook	4/1/2022	361.8	Yes	Infiltration Inspection
MB114	Meadowbrook	4/1/2022	298.2	Yes	Infiltration Inspection
MB115	Meadowbrook	4/1/2022	133.1	Yes	Infiltration Inspection
MB120	Meadowbrook	4/1/2022	371.2	Yes	Infiltration Inspection
MB125	Meadowbrook	4/1/2022	136.8	Yes	Infiltration Inspection
MB130	Meadowbrook	3/31/2022	251.6	Yes	Infiltration Inspection
MB135	Meadowbrook	3/31/2022	210.8	Yes	Infiltration Inspection
MB140	Meadowbrook	3/31/2022	205.8	Yes	Infiltration Inspection
MB146	Meadowbrook	5/18/2022	125.6	Yes	Infiltration Inspection
MB147	Meadowbrook	5/18/2022	191.1	Yes	Infiltration Inspection
MB201	Meadowbrook	5/19/2022	68.5	Yes	Infiltration Inspection
MB202	Meadowbrook	5/19/2022	80	Yes	Infiltration Inspection
MB203	Meadowbrook	5/19/2022	73.6	Yes	Infiltration Inspection
MB204	Meadowbrook	5/19/2022	114	Yes	Infiltration Inspection
MB205	Meadowbrook	5/19/2022	69.1	Yes	Infiltration Inspection
MB206	Meadowbrook	5/19/2022	164.3	Yes	Infiltration Inspection
MB207	Meadowbrook	5/19/2022	242.8	Yes	Infiltration Inspection
MB209	Meadowbrook	5/23/2022	103	Yes	Infiltration Inspection
MB210	Meadowbrook	5/23/2022	43	Yes	Infiltration Inspection
MB260	Meadowbrook	5/19/2022	213.6	Yes	Infiltration Inspection
MB300	Meadowbrook	5/23/2022	75.9	Yes	Infiltration Inspection
MB301	Meadowbrook	5/23/2022	93	Yes	Infiltration Inspection
MB302	Meadowbrook	5/23/2022	213.3	Yes	Infiltration Inspection
MB303	Meadowbrook	4/1/2022	204.8	Yes	Infiltration Inspection
MB304	Meadowbrook	4/1/2022	80.6	Yes	Infiltration Inspection
MB305	Meadowbrook	5/11/2022	187.3	Yes	Infiltration Inspection
MB306	Meadowbrook	5/12/2022	27.2	Yes	Infiltration Inspection
MB308	Meadowbrook	5/12/2022	133.1	Yes	Infiltration Inspection
MB309	Meadowbrook	5/12/2022	57.9	Yes	Infiltration Inspection
MB310	Meadowbrook	5/12/2022	345	Yes	Infiltration Inspection
MB311	Meadowbrook	5/12/2022	249.6	Yes	Infiltration Inspection
MB312	Meadowbrook	5/23/2022	232.1	Yes	Infiltration Inspection
MB313	Meadowbrook	5/23/2022	184	Yes	Infiltration Inspection
MB314	Meadowbrook	5/23/2022	26.8	Yes	Infiltration Inspection
MB315	Meadowbrook	5/23/2022	313.5	Yes	Infiltration Inspection
MB316	Meadowbrook	5/23/2022	356	Yes	Infiltration Inspection
MB320	Meadowbrook	4/6/2022	19.3	Yes	Infiltration Inspection
MB321	Meadowbrook	4/7/2022	225.1	Yes	Infiltration Inspection
MB321	Meadowbrook	4/7/2022	101.8	Yes	Infiltration Inspection, Reversal
MB325	Meadowbrook	3/31/2022	15.8	Yes	Infiltration Inspection
MB326	Meadowbrook	3/31/2022	385.6	Yes	Infiltration Inspection
MB327	Meadowbrook	3/31/2022	72.3	Yes	Infiltration Inspection
MB328	Meadowbrook	3/31/2022	2.2	Yes	Infiltration Inspection
MB329	Meadowbrook	3/31/2022	188.8	Yes	Infiltration Inspection
MB336	Meadowbrook	5/25/2022	438.3	Yes	Sinkhole investigation

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
MB337	Meadowbrook	5/25/2022	31.5	Yes	Infiltration Inspection
MB340	Meadowbrook	4/1/2022	187.8	Yes	Infiltration Inspection
MB345	Meadowbrook	4/7/2022	385.3	Yes	Infiltration Inspection
MB350	Meadowbrook	3/31/2022	34	Yes	Infiltration Inspection
MB351	Meadowbrook	3/31/2022	205.6	Yes	Infiltration Inspection
MB352	Meadowbrook	3/31/2022	239	Yes	Infiltration Inspection
MB353	Meadowbrook	3/31/2022	105	Yes	Infiltration Inspection
MB355	Meadowbrook	4/1/2022	28.7	Yes	Infiltration Inspection
MB356	Meadowbrook	4/1/2022	141	Yes	Infiltration Inspection
MB360	Meadowbrook	4/1/2022	212.8	Yes	Infiltration Inspection
MB366	Meadowbrook	4/4/2022	130	Yes	Infiltration Inspection
MB367	Meadowbrook	4/4/2022	94.5	Yes	Infiltration Inspection
MB370	Meadowbrook	4/4/2022	286.7	Yes	Infiltration Inspection
MB371	Meadowbrook	4/4/2022	298.1	Yes	Infiltration Inspection
MB373	Meadowbrook	4/4/2022	114.9	Yes	Infiltration Inspection
MB400	Meadowbrook	4/5/2022	170.6	Yes	Infiltration Inspection
MB401	Meadowbrook	4/5/2022	314.7	Yes	Infiltration Inspection
MB402	Meadowbrook	4/5/2022	10.1	Yes	Infiltration Inspection
MB403	Meadowbrook	4/5/2022	22.2	Yes	Infiltration Inspection
MB404	Meadowbrook	4/5/2022	15.8	Yes	Infiltration Inspection
MB405	Meadowbrook	4/5/2022	307.7	Yes	Infiltration Inspection
MB406	Meadowbrook	4/5/2022	8.3	Yes	Infiltration Inspection
MB407	Meadowbrook	5/11/2022	158.1	Yes	Infiltration Inspection
MB408	Meadowbrook	5/11/2022	255.1	Yes	Infiltration Inspection
MB409	Meadowbrook	5/10/2022	93.6	Yes	Infiltration Inspection
MB410	Meadowbrook	5/10/2022	90.8	Yes	Infiltration Inspection
MB415	Meadowbrook	4/5/2022	17	Yes	Infiltration Inspection
MB451	Meadowbrook	5/18/2022	3.2	Yes	Infiltration Inspection
MB452	Meadowbrook	5/18/2022	116.6	Yes	Infiltration Inspection
MB477	Meadowbrook	5/10/2022	346.7	Yes	Infiltration Inspection
MB477	Meadowbrook	6/23/2022	205	Yes	Post Construction Inspection
MB477	Meadowbrook	7/11/2022	85.8	Yes	Homeowner issue
MB477	Meadowbrook	7/25/2022	26.7	Yes	Post Construction Inspection
MB478	Meadowbrook	6/23/2022	212	No	Post Construction Inspection
MB480	Meadowbrook	7/14/2022	35.7	No	Post Construction Inspection
MB481	Meadowbrook	7/11/2022	62.1	No	Post Construction Inspection
MB481	Meadowbrook	7/14/2022	65.6	No	Post Construction Inspection, Reversal
MB481	Meadowbrook	7/25/2022	66.4	Yes	Post Construction Inspection
MB481	Meadowbrook	7/26/2022	63.2	Yes	Post Construction Inspection, Reversal
MB504	Meadowbrook	4/27/2022	55.5	Yes	Homeowner issue
MB520	Meadowbrook	4/1/2022	296.7	Yes	Infiltration Inspection
MB550	Meadowbrook	1/26/2022	32.5	Yes	Replaced portion of line
MB550	Meadowbrook	4/8/2022	31.7	Yes	Infiltration Inspection
MB551	Meadowbrook	4/8/2022	91	Yes	Infiltration Inspection
MB551	Meadowbrook	4/8/2022	180.1	Yes	Infiltration Inspection, Reversal
MB552	Meadowbrook	4/8/2022	383.7	Yes	Infiltration Inspection
MB553	Meadowbrook	4/8/2022	20.5	Yes	Infiltration Inspection
MB559	Meadowbrook	4/7/2022	21.2	Yes	Infiltration Inspection
MB560	Meadowbrook	4/7/2022	235.3	Yes	Infiltration Inspection
MB575	Meadowbrook	5/9/2022	212.6	Yes	Infiltration Inspection
MB576	Meadowbrook	5/9/2022	327.2	Yes	Infiltration Inspection



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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
MB601	Meadowbrook	4/6/2022	25.2	Yes	Infiltration Inspection
MB601	Meadowbrook	7/21/2022	25.3	Yes	Sinkhole investigation
MB602	Meadowbrook	4/6/2022	279.1	Yes	Infiltration Inspection
MB603	Meadowbrook	4/6/2022	313.2	Yes	Infiltration Inspection
MB605	Meadowbrook	4/5/2022	294.1	Yes	Infiltration Inspection
MB606	Meadowbrook	4/5/2022	260.1	Yes	Infiltration Inspection
MB607	Meadowbrook	4/5/2022	29.7	Yes	Infiltration Inspection
MB608	Meadowbrook	4/6/2022	113	Yes	Infiltration Inspection
MB609	Meadowbrook	4/6/2022	165.8	Yes	Infiltration Inspection
MB653	Meadowbrook	5/31/2022	24.3	Yes	Infiltration Inspection
MB654	Meadowbrook	5/31/2022	186.8	Yes	Infiltration Inspection
MB655	Meadowbrook	5/31/2022	127.9	Yes	Infiltration Inspection
MB702	Meadowbrook	4/12/2022	260.2	Yes	Infiltration Inspection
MB703	Meadowbrook	5/11/2022	44.9	Yes	Infiltration Inspection
MB710	Meadowbrook	5/4/2022	259.2	Yes	Infiltration Inspection
MB711	Meadowbrook	5/4/2022	126.8	Yes	Infiltration Inspection
MB725	Meadowbrook	4/12/2022	72.4	Yes	Infiltration Inspection
MB726	Meadowbrook	4/12/2022	177	Yes	Infiltration Inspection
MB727	Meadowbrook	4/12/2022	14.6	Yes	Infiltration Inspection
MB728	Meadowbrook	4/12/2022	223	Yes	Infiltration Inspection
MB729	Meadowbrook	4/12/2022	234	Yes	Infiltration Inspection
MB730	Meadowbrook	4/12/2022	264.7	Yes	Infiltration Inspection
MB731	Meadowbrook	4/11/2022	293.7	Yes	Infiltration Inspection
MB732	Meadowbrook	5/9/2022	337.1	Yes	Infiltration Inspection
MB733	Meadowbrook	5/9/2022	274.5	Yes	Infiltration Inspection
MB734	Meadowbrook	5/9/2022	1.1	Yes	Infiltration Inspection
MB750	Meadowbrook	4/12/2022	35.4	Yes	Infiltration Inspection
MB751	Meadowbrook	4/12/2022	299.8	Yes	Infiltration Inspection
MB752	Meadowbrook	4/12/2022	300.2	Yes	Infiltration Inspection
MB753	Meadowbrook	4/12/2022	208	Yes	Infiltration Inspection
MB755	Meadowbrook	4/11/2022	217.1	Yes	Infiltration Inspection
MB760	Meadowbrook	5/4/2022	299.2	Yes	Infiltration Inspection
MB760	Meadowbrook	11/7/2022	299	Yes	Homeowner issue
MB761	Meadowbrook	5/4/2022	295.6	Yes	Infiltration Inspection
MB762	Meadowbrook	5/4/2022	298.2	Yes	Infiltration Inspection
MB763	Meadowbrook	5/4/2022	314.2	Yes	Infiltration Inspection
MB765	Meadowbrook	4/11/2022	284.7	Yes	Infiltration Inspection
MB766	Meadowbrook	4/11/2022	307.2	Yes	Infiltration Inspection
MB767	Meadowbrook	4/11/2022	221.3	Yes	Infiltration Inspection
MB768	Meadowbrook	4/11/2022	218.3	Yes	Infiltration Inspection
MB770	Meadowbrook	4/11/2022	325.1	Yes	Infiltration Inspection
MB771	Meadowbrook	4/11/2022	207	Yes	Infiltration Inspection
MB772	Meadowbrook	4/11/2022	116.3	Yes	Infiltration Inspection
MB775	Meadowbrook	5/4/2022	224.1	Yes	Infiltration Inspection
MB776	Meadowbrook	5/4/2022	269.6	Yes	Infiltration Inspection
MB808	Meadowbrook	5/9/2022	401.3	Yes	Infiltration Inspection
MB808A	Meadowbrook	5/18/2022	23.3	No	Infiltration Inspection
MB811	Meadowbrook	4/13/2022	362.2	Yes	Infiltration Inspection
MB812	Meadowbrook	4/13/2022	345.2	Yes	Infiltration Inspection
MB813	Meadowbrook	5/26/2022	100	Yes	Infiltration Inspection
MB813	Meadowbrook	5/26/2022	344	Yes	Infiltration Inspection

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
MB832	Meadowbrook	4/19/2022	233.5	Yes	Infiltration Inspection
MB835	Meadowbrook	5/18/2022	252	Yes	Infiltration Inspection
MB836	Meadowbrook	5/9/2022	120.4	Yes	Infiltration Inspection
MB840	Meadowbrook	4/14/2022	260.1	Yes	Infiltration Inspection
MB850	Meadowbrook	4/13/2022	301.3	Yes	Infiltration Inspection
MB851	Meadowbrook	4/14/2022	415.8	Yes	Infiltration Inspection
MB852	Meadowbrook	4/14/2022	244.6	Yes	Infiltration Inspection
MB853	Meadowbrook	4/14/2022	255.3	Yes	Infiltration Inspection
MB854	Meadowbrook	4/14/2022	407.7	Yes	Infiltration Inspection
MB855	Meadowbrook	5/25/2022	226.8	Yes	Infiltration Inspection
MB856	Meadowbrook	5/25/2022	119.5	Yes	Infiltration Inspection
MB857	Meadowbrook	5/25/2022	245.1	Yes	Infiltration Inspection
MB858	Meadowbrook	5/25/2022	56.2	Yes	Infiltration Inspection
MB860	Meadowbrook	4/14/2022	234.1	Yes	Infiltration Inspection
MB861	Meadowbrook	4/19/2022	192.3	Yes	Infiltration Inspection
MB862	Meadowbrook	4/19/2022	214	Yes	Infiltration Inspection
MB863	Meadowbrook	4/19/2022	223.6	Yes	Infiltration Inspection
MB864	Meadowbrook	4/19/2022	100.9	Yes	Infiltration Inspection
MB865	Meadowbrook	4/14/2022	336.5	Yes	Infiltration Inspection
MB866	Meadowbrook	4/14/2022	324.7	Yes	Infiltration Inspection
MB870	Meadowbrook	4/14/2022	139.3	Yes	Infiltration Inspection
MB875	Meadowbrook	1/12/2022	31.8	No	
MB902	Meadowbrook	4/21/2022	234.8	Yes	Infiltration Inspection
MB903	Meadowbrook	4/21/2022	232.5	Yes	Infiltration Inspection
MB904	Meadowbrook	4/21/2022	242.8	Yes	Infiltration Inspection
MB905	Meadowbrook	4/21/2022	294.5	Yes	Infiltration Inspection
MB906	Meadowbrook	4/21/2022	351.7	Yes	Infiltration Inspection
MB906	Meadowbrook	11/10/2022	356	Yes	Homeowner issue
MB910	Meadowbrook	4/26/2022	252	Yes	Infiltration Inspection
MB911	Meadowbrook	4/26/2022	141	Yes	Infiltration Inspection
MB911	Meadowbrook	5/2/2022	140.8	Yes	Flushed and re-inspected
MB912	Meadowbrook	5/2/2022	62.5	Yes	Infiltration Inspection
MB913	Meadowbrook	5/2/2022	85	Yes	Infiltration Inspection
MB913	Meadowbrook	5/2/2022	163.6	Yes	Infiltration Inspection, Reversal
MB914	Meadowbrook	5/2/2022	251.5	Yes	Infiltration Inspection
MB915	Meadowbrook	5/2/2022	87.4	Yes	Infiltration Inspection
MB920	Meadowbrook	4/26/2022	242.3	Yes	Infiltration Inspection
MB921	Meadowbrook	5/3/2022	326.6	Yes	Infiltration Inspection
MB922	Meadowbrook	5/3/2022	28.9	Yes	Infiltration Inspection
MB922	Meadowbrook	5/10/2022	164.8	Yes	Infiltration Inspection
MB922	Meadowbrook	5/10/2022	160	Yes	Infiltration Inspection, Reversal
MB923	Meadowbrook	5/4/2022	152.3	Yes	Infiltration Inspection
MB923	Meadowbrook	5/10/2022	268.8	Yes	Infiltration Inspection
MB925	Meadowbrook	4/26/2022	252.3	Yes	Infiltration Inspection
MB930	Meadowbrook	4/27/2022	156.8	Yes	Infiltration Inspection
MB931	Meadowbrook	4/27/2022	58.4	Yes	Infiltration Inspection
MB932	Meadowbrook	4/27/2022	88.8	Yes	Infiltration Inspection
MB933	Meadowbrook	4/27/2022	256.3	Yes	Infiltration Inspection
MB934	Meadowbrook	4/27/2022	228	Yes	Infiltration Inspection
MB950	Meadowbrook	4/27/2022	265.7	Yes	Infiltration Inspection
MB951	Meadowbrook	4/27/2022	329.1	Yes	Infiltration Inspection

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
MB952	Meadowbrook	4/27/2022	302.7	Yes	Infiltration Inspection
MB953	Meadowbrook	4/28/2022	297.7	Yes	Infiltration Inspection
MB954	Meadowbrook	4/28/2022	222.6	Yes	Infiltration Inspection
MB955	Meadowbrook	4/28/2022	296.1	Yes	Infiltration Inspection
MB956	Meadowbrook	4/29/2022	333.7	Yes	Infiltration Inspection
MB960	Meadowbrook	4/29/2022	294.1	Yes	Infiltration Inspection
MB961	Meadowbrook	4/29/2022	184.8	Yes	Infiltration Inspection
MB962	Meadowbrook	4/29/2022	207.3	Yes	Infiltration Inspection
MB963	Meadowbrook	4/29/2022	261.2	Yes	Infiltration Inspection
MB964	Meadowbrook	4/29/2022	294.7	Yes	Infiltration Inspection
MB965	Meadowbrook	4/29/2022	177	Yes	Infiltration Inspection
MB966	Meadowbrook	5/11/2022	180.3	Yes	Infiltration Inspection
MB970	Meadowbrook	5/11/2022	228	Yes	Infiltration Inspection
MB976	Meadowbrook	5/3/2022	106.6	Yes	Infiltration Inspection
MB977	Meadowbrook	5/3/2022	221.6	Yes	Infiltration Inspection
MB978	Meadowbrook	5/3/2022	237.8	Yes	Infiltration Inspection
MB980	Meadowbrook	3/11/2022	75.6	Yes	Sinkhole investigation
MB980	Meadowbrook	5/9/2022	204.1	Yes	Infiltration Inspection
MB981	Meadowbrook	5/9/2022	447.7	Yes	Infiltration Inspection
MB982	Meadowbrook	5/9/2022	23.1	Yes	Infiltration Inspection
MB985	Meadowbrook	5/31/2022	215.6	Yes	Infiltration Inspection
MB986	Meadowbrook	5/31/2022	266.5	Yes	Infiltration Inspection
MB990	Meadowbrook	5/10/2022	239.8	Yes	Infiltration Inspection
MB995	Meadowbrook	4/28/2022	333.7	Yes	Infiltration Inspection
MB996	Meadowbrook	5/3/2022	347.7	Yes	Infiltration Inspection
OC443	Old Capehart	4/4/2022	255.8	Yes	Homeowner issue
OC445	Old Capehart	1/11/2022	4	Yes	Homeowner issue
OC445	Old Capehart	2/7/2022	2.4	Yes	Homeowner issue
PI024	Penobscot Interceptor	10/25/2022	284	Yes	Post Construction Inspection
PJ575	Penjawoc	10/4/2022	231.3	Yes	Grease inspection
PJ576	Penjawoc	10/4/2022	153.6	Yes	Grease inspection
WL014	Woodlawn	9/28/2022	225.1	No	Locating service connections
WL015	Woodlawn	9/28/2022	263.3	No	Locating service connections
WL016	Woodlawn	9/28/2022	258.5	Yes	Locating service connections
WL017	Woodlawn	9/28/2022	131.6	Yes	Locating service connections
WL018	Woodlawn	9/28/2022	114	Yes	Locating service connections
WL050	Woodlawn	9/28/2022	464.5	Yes	Locating service connections
WL102	Woodlawn	10/19/2022	214	Yes	Water seep on surface
WL103	Woodlawn	10/19/2022	294.7	Yes	Water seep on surface
<b>Total Feet</b>			<b>108145.1</b>		
<b>Total Miles</b>			<b>20.5</b>		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2022

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
AB025	Arctic Brook	1/24/2022		
AB026	Arctic Brook	2/9/2022		
AB027	Arctic Brook	1/26/2022		
AB029	Arctic Brook	1/28/2022		
AB034	Arctic Brook	2/8/2022		
AB124	Arctic Brook	2/9/2022		
AB204	Arctic Brook	1/5/2022		
AB205	Arctic Brook	1/24/2022		
AB260	Arctic Brook	1/5/2022		
AB261	Arctic Brook	2/9/2022		
AB620	Arctic Brook	4/28/2022		
AB622A	Arctic Brook	1/28/2022		
AB622B	Arctic Brook	1/28/2022		
AB640	Arctic Brook	2/8/2022		
AB700	Arctic Brook	2/8/2022		
AP016	Airport	1/3/2022		
AP016A	Airport	1/3/2022		
AP203	Airport	2/1/2022		
AP204	Airport	2/1/2022		
AP205	Airport	2/1/2022		
AP211	Airport	1/28/2022		
AP240	Airport	2/1/2022		
AP241	Airport	2/1/2022		
AP242	Airport	1/3/2022		
AP243	Airport	1/28/2022		
AP260	Airport	1/28/2022		
AP261	Airport	1/28/2022		
AP263	Airport	1/28/2022		
AP264	Airport	1/28/2022		
AP265	Airport	1/3/2022		
AP270	Airport	1/28/2022		
AP271	Airport	1/28/2022		
AP280	Airport	1/28/2022		
AP281	Airport	1/28/2022		
AP282	Airport	1/28/2022		
AP283	Airport	1/28/2022		
AP284	Airport	1/28/2022		
AP285	Airport	1/3/2022		
AP286	Airport	1/3/2022		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
AP290	Airport	1/28/2022		
AP291	Airport	1/3/2022		
AP300	Airport	1/3/2022		
AP301	Airport	1/3/2022		
AP305A	Airport	1/5/2022		
AP305B	Airport	1/5/2022		
AP414A	Airport	2/15/2022		
AP415	Airport	1/6/2022		
AP424	Airport	1/6/2022		
AP503	Airport	1/3/2022		
AP531	Airport	1/3/2022		
AP532	Airport	1/3/2022		
AP545	Airport	1/27/2022		
AP601	Airport	1/6/2022		
AP602	Airport	1/6/2022		
AP603	Airport	1/6/2022		
AP604	Airport	1/6/2022		
AP605	Airport	1/6/2022		
AP606	Airport	1/6/2022		
AP622	Airport	1/3/2022		
CB400	Carr Brook	1/3/2022		
CB401	Carr Brook	1/3/2022		
CB505	Carr Brook	1/3/2022		
CM301	Cemetery	1/3/2022		
CM302	Cemetery	1/3/2022		
CM303	Cemetery	1/3/2022		
CM505	Cemetery	1/3/2022		
CM506	Cemetery	1/3/2022		
CM507	Cemetery	1/3/2022		
CM508	Cemetery	1/3/2022		
DB360	Davis Brook	1/3/2022		
DW203	Dow	1/3/2022		
DW204	Dow	1/3/2022		
DW259	Dow	1/3/2022		
DW265	Dow	1/3/2022		
DW302	Dow	1/3/2022		
DW303	Dow	1/3/2022		
DW305	Dow	1/3/2022		
DW306	Dow	1/3/2022		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
DW307	Dow	1/3/2022		
DW308	Dow	1/3/2022		
DW351	Dow	1/3/2022		
DW550	Dow	1/3/2022		
DW551	Dow	1/3/2022		
DW552	Dow	1/3/2022		
DW553	Dow	1/3/2022		
HD005	Hampden	1/3/2022		
HK264	Hancock Street	1/3/2022		
HK265	Hancock Street	1/3/2022		
KE262	Kenduskeag East	1/3/2022		
KE301	Kenduskeag East	1/3/2022		
MB015	Meadowbrook	1/3/2022		
MB016	Meadowbrook	1/3/2022		
MB420	Meadowbrook	1/3/2022		
MB767	Meadowbrook	1/3/2022		
OC471	Old Capehart	1/3/2022		
OC851	Old Capehart	1/3/2022		
OC870	Old Capehart	1/3/2022		
PJ530	Penjawoc	1/3/2022		
AP700	Airport	1/6/2022		
AP700A	Airport	1/21/2022		
AP701	Airport	1/21/2022		
AP706	Airport	2/15/2022		
AP707	Airport	2/15/2022		
BU017	Burleigh	1/6/2022		
BU026	Burleigh	1/6/2022		
BU029	Burleigh	1/6/2022		
BU400	Burleigh	2/8/2022		
BU401	Burleigh	2/8/2022		
BU402	Burleigh	2/8/2022		
BU403	Burleigh	2/8/2022		
BU500	Burleigh	1/6/2022		
BU502	Burleigh	1/26/2022		
BU505	Burleigh	1/24/2022		
BU506	Burleigh	1/24/2022		
BU510	Burleigh	1/6/2022		
BU511	Burleigh	1/6/2022		
BU512	Burleigh	1/6/2022		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
BU514	Burleigh	1/6/2022		
BU515	Burleigh	1/6/2022		
BU520	Burleigh	1/6/2022		
BU531	Burleigh	1/6/2022		
BU532	Burleigh	1/6/2022		
BU533	Burleigh	1/6/2022		
BU535	Burleigh	1/6/2022		
BU540	Burleigh	1/4/2022		
BU541	Burleigh	1/4/2022		
BU542	Burleigh	1/4/2022		
BU550	Burleigh	1/4/2022		
BU551	Burleigh	1/4/2022		
BU552	Burleigh	1/4/2022		
BU553	Burleigh	1/4/2022		
BU554	Burleigh	1/4/2022		
BU560	Burleigh	1/4/2022		
BU570	Burleigh	1/4/2022		
BU571	Burleigh	1/4/2022		
BU572	Burleigh	1/26/2022		
BU650	Burleigh	1/6/2022		
BU701	Burleigh	1/24/2022		
BU702	Burleigh	1/24/2022		
BU801	Burleigh	1/24/2022		
BV300	Barkersville	1/5/2022		
BV404	Barkersville	12/21/2022		
BV405	Barkersville	1/5/2022		
BV451	Barkersville	1/5/2022		
BV478	Barkersville	1/4/2022		
BV502	Barkersville	2/11/2022		
BV520	Barkersville	1/27/2022		
BV520A	Barkersville	1/4/2022		
BV610	Barkersville	1/28/2022		
BV626	Barkersville	1/3/2022		
BV703	Barkersville	2/15/2022		
BV742	Barkersville	2/1/2022		
BV765	Barkersville	1/6/2022		
CB011	Carr Brook	1/13/2022		
CB018	Carr Brook	2/8/2022		
CB019	Carr Brook	2/8/2022		



## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2022

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
CB022	Carr Brook	2/8/2022		
CB036	Carr Brook	2/7/2022		
CB100	Carr Brook	1/13/2022		
CB122	Carr Brook	2/1/2022		
CB145	Carr Brook	2/1/2022		
CB155	Carr Brook	2/1/2022		
CB163	Carr Brook	1/5/2022		
CB252	Carr Brook	2/8/2022		
CB260	Carr Brook	2/8/2022		
CB261	Carr Brook	2/8/2022		
CB262	Carr Brook	2/8/2022		
CB280	Carr Brook	1/10/2022		
CB360	Carr Brook	1/13/2022		
CB361	Carr Brook	1/13/2022		
CB362	Carr Brook	1/13/2022		
CB363	Carr Brook	1/13/2022		
CB364	Carr Brook	1/13/2022		
CB365	Carr Brook	1/13/2022		
CB366	Carr Brook	1/13/2022		
CB368	Carr Brook	1/13/2022		
CB369	Carr Brook	1/13/2022		
CB370	Carr Brook	1/13/2022		
CB371	Carr Brook	1/13/2022		
CB372	Carr Brook	1/13/2022		
CB373	Carr Brook	1/10/2022		
CB374	Carr Brook	1/13/2022		
CB407	Carr Brook	2/1/2022		
CB551	Carr Brook	2/8/2022		
CB801	Carr Brook	2/2/2022		
CB850	Carr Brook	2/2/2022		
CM351	Cemetery	1/10/2022		
CM401	Cemetery	1/10/2022		
CM511	Cemetery	3/3/2022		
CM515	Cemetery	3/8/2022		
CM516	Cemetery	3/8/2022		
CM517	Cemetery	3/3/2022		
CM519	Cemetery	3/3/2022		
CM520	Cemetery	3/3/2022		
CM570	Cemetery	3/8/2022		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
CM650	Cemetery	3/8/2022		
CM652	Cemetery	3/8/2022		
CM701	Cemetery	3/8/2022		
CM702	Cemetery	3/8/2022		
CM703	Cemetery	3/8/2022		
CM704	Cemetery	3/8/2022		
CM705	Cemetery	3/8/2022		
CM706	Cemetery	3/8/2022		
CM707	Cemetery	1/27/2022		
CM707	Cemetery	3/8/2022	Yes	Infiltration / Inflow Investigation
CM708	Cemetery	1/27/2022		
CM708	Cemetery	3/8/2022	Yes	Infiltration / Inflow Investigation
CM709	Cemetery	1/27/2022		
CM709	Cemetery	3/8/2022	Yes	Infiltration / Inflow Investigation
CM710	Cemetery	3/8/2022		
CM711	Cemetery	3/8/2022		
CM712	Cemetery	3/8/2022		
CM720	Cemetery	3/8/2022		
CM730	Cemetery	3/8/2022		
CM731	Cemetery	3/8/2022		
CM740	Cemetery	3/8/2022		
CM741	Cemetery	3/15/2022		
CM760	Cemetery	3/8/2022		
CM791	Cemetery	3/8/2022		
CM800	Cemetery	3/8/2022		
CM850	Cemetery	3/3/2022		
CM860	Cemetery	1/4/2022		
CM900	Cemetery	1/4/2022		
CM901	Cemetery	1/4/2022		
CM904	Cemetery	2/2/2022		
CM925	Cemetery	3/14/2022		
CM926	Cemetery	3/14/2022		
DB003	Davis Brook	2/15/2022		
DB420	Davis Brook	1/27/2022		
DB422	Davis Brook	2/8/2022		
DB630A	Davis Brook	8/3/2022		
DB715	Davis Brook	2/1/2022		
DB715A	Davis Brook	2/1/2022		
DB715B	Davis Brook	2/1/2022		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
DB732A	Davis Brook	1/27/2022		
DB750A	Davis Brook	1/27/2022		
DB751	Davis Brook	1/27/2022		
DB960	Davis Brook	1/4/2022		
DB961	Davis Brook	1/4/2022		
DN003	Dutton Street	1/6/2022		
DN004	Dutton Street	1/6/2022		
DW006	Dow	1/27/2022		
DW090	Dow	1/27/2022		
DW201	Dow	1/27/2022		
DW202	Dow	1/27/2022		
DW203	Dow	1/10/2022	Yes	
DW251	Dow	1/10/2022		
DW252	Dow	2/11/2022		
DW252A	Dow	2/11/2022		
DW252B	Dow	2/11/2022		
DW253	Dow	2/11/2022		
DW255	Dow	1/10/2022		
DW259	Dow	1/10/2022	Yes	
DW260	Dow	2/11/2022		
DW261	Dow	1/10/2022		
DW262	Dow	1/10/2022		
DW300	Dow	1/4/2022		
DW301	Dow	1/4/2022		
DW304	Dow	1/4/2022		
DW350	Dow	1/27/2022		
DW452	Dow	2/11/2022		
DW554	Dow	1/3/2022		
DW601A	Dow	1/4/2022		
DW616	Dow	1/3/2022		
DW617	Dow	1/3/2022		
ES008	Everett Street	1/4/2022		
ES202	Everett Street	2/2/2022		
FK409	Franklin Street	2/2/2022		
FS105	Fourteenth Street	2/1/2022		
FS404	Fourteenth Street	2/2/2022		
GW101	Glenwood	2/9/2022		
HK015A	Hancock Street	1/21/2022		
HK016	Hancock Street	1/21/2022		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
HK030	Hancock Street	1/3/2022		
HK031	Hancock Street	1/3/2022		
HK032	Hancock Street	1/3/2022		
HK070	Hancock Street	1/21/2022		
HK070A	Hancock Street	1/21/2022		
HK071	Hancock Street	1/21/2022		
HK218	Hancock Street	2/14/2022		
HK253	Hancock Street	1/21/2022		
HK256	Hancock Street	2/2/2022		
HK263	Hancock Street	1/21/2022		
HK263	Hancock Street	2/14/2022	Yes	
HK270	Hancock Street	1/21/2022		
HK271	Hancock Street	1/21/2022		
HK273	Hancock Street	1/3/2022		
HK274	Hancock Street	2/14/2022		
HK285	Hancock Street	2/14/2022		
HK290	Hancock Street	2/14/2022		
HK295	Hancock Street	2/14/2022		
HK702A	Hancock Street	1/13/2022		
HP010	Hildreth-Perry	1/28/2022		
HP071	Hildreth-Perry	1/28/2022		
HP072	Hildreth-Perry	1/28/2022		
HP222	Hildreth-Perry	1/27/2022		
HP239	Hildreth-Perry	1/28/2022		
HS101	Husson	2/9/2022		
KE208	Kenduskeag East	1/21/2022		
KE300	Kenduskeag East	2/14/2022		
KE300A	Kenduskeag East	1/3/2022		
KE360	Kenduskeag East	2/17/2022		
KI003	Kenduskeag Interceptor	1/6/2022		
KW040	Kenduskeag West	2/15/2022		
KW041	Kenduskeag West	2/15/2022		
KW090	Kenduskeag West	2/1/2022		
KW100	Kenduskeag West	2/14/2022		
KW100	Kenduskeag West	3/3/2022	Yes	Infiltration / Inflow Investigation
KW100A	Kenduskeag West	1/4/2022		
KW100A	Kenduskeag West	3/3/2022	Yes	Infiltration / Inflow Investigation
KW100B	Kenduskeag West	2/14/2022		
KW100B	Kenduskeag West	3/3/2022	Yes	Infiltration / Inflow Investigation

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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<b>Manhole ID</b>	<b>Subsection</b>	<b>Date Inspected</b>	<b>Repeat Inspection</b>	<b>Justification for Repeat Inspection</b>
KW101	Kenduskeag West	3/3/2022		Infiltration / Inflow Investigation
KW101A	Kenduskeag West	1/4/2022		
KW101A	Kenduskeag West	3/3/2022	Yes	Infiltration / Inflow Investigation
KW102	Kenduskeag West	1/4/2022		
KW102	Kenduskeag West	3/3/2022	Yes	Infiltration / Inflow Investigation
KW102A	Kenduskeag West	3/3/2022		Infiltration / Inflow Investigation
KW102B	Kenduskeag West	3/3/2022		Infiltration / Inflow Investigation
KW103C	Kenduskeag West	3/3/2022		Infiltration / Inflow Investigation
KW110	Kenduskeag West	3/3/2022		Infiltration / Inflow Investigation
KW280	Kenduskeag West	2/1/2022		
KW281	Kenduskeag West	2/1/2022		
KW350	Kenduskeag West	2/14/2022		
KW360	Kenduskeag West	2/14/2022		
KW360A	Kenduskeag West	2/14/2022		
KW361	Kenduskeag West	2/14/2022		
KW447	Kenduskeag West	2/15/2022		
KW448	Kenduskeag West	2/15/2022		
KW450	Kenduskeag West	2/15/2022		
KW450	Kenduskeag West	2/18/2022	Yes	Correcting missed connections
KW501	Kenduskeag West	2/15/2022		
KW502	Kenduskeag West	2/15/2022		
KW600	Kenduskeag West	1/5/2022		
KW601	Kenduskeag West	1/5/2022		
KW602	Kenduskeag West	1/6/2022		
KW603	Kenduskeag West	2/11/2022		
KW603	Kenduskeag West	2/14/2022	Yes	Correcting missed connections
KW604	Kenduskeag West	2/11/2022		
KW650	Kenduskeag West	2/11/2022		
KW652	Kenduskeag West	2/14/2022		
KW653	Kenduskeag West	1/6/2022		
KW654	Kenduskeag West	1/5/2022		
KW655	Kenduskeag West	1/5/2022		
KW656	Kenduskeag West	1/5/2022		
KW657	Kenduskeag West	1/5/2022		
KW658	Kenduskeag West	1/5/2022		
KW659	Kenduskeag West	1/5/2022		
KW660	Kenduskeag West	1/5/2022		
KW705	Kenduskeag West	1/6/2022		
KW706	Kenduskeag West	1/6/2022		

# APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2022

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
KW750	Kenduskeag West	1/6/2022		
MB603	Meadowbrook	2/2/2022		
MB653	Meadowbrook	2/2/2022		
MB757	Meadowbrook	2/2/2022		
MB762	Meadowbrook	1/3/2022		
MB914	Meadowbrook	2/2/2022		
MB920	Meadowbrook	2/2/2022		
MB922	Meadowbrook	2/7/2022		
MB963	Meadowbrook	2/1/2022		
MB965	Meadowbrook	2/1/2022		
MB982	Meadowbrook	2/1/2022		
MY001	May Street	2/1/2022		
MY002	May Street	2/1/2022		
MY002A	May Street	2/1/2022		
MY100A	May Street	2/1/2022		
OC800	Old Capehart	1/7/2022		
OC801	Old Capehart	1/7/2022		
OC850	Old Capehart	1/3/2022		
OC860	Old Capehart	1/7/2022		
PI025C	Penobscot Interceptor	2/11/2022		
PI026	Penobscot Interceptor	2/11/2022		
PJ907	Penjajawoc	2/9/2022		
TDB011	Tank Davis Brook	2/11/2022		
WL160	Woodlawn	1/13/2022		
WL161	Woodlawn	1/13/2022		
WL162	Woodlawn	1/13/2022		
WL503	Woodlawn	2/8/2022		
WL510	Woodlawn	2/1/2022		
WL511	Woodlawn	2/1/2022		
WL900	Woodlawn	1/10/2022		
WS208	Westland	1/10/2022		
<b>TOTAL MANHOLES INSPECTED</b>			<b>382</b>	

# APPENDIX C: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

## City of Bangor, Maine Calendar Year 2022

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
Kenduskeag West		KW604		Replaced manhole with 4' dia. manhole	6/15/2022
Kenduskeag West	KW605A		Entire segment	Replaced 258' of existing line with 24" PVC	6/15/2022
Kenduskeag West		KW650A		Installed new 4' dia. manhole	6/15/2022
Kenduskeag West	KW605B			Replaced 162' of existing line with 24" PVC	6/15/2022
Airport	AP340		Entire segment	Replaced 133' of existing line with 8" PVC	6/1/2022
Airport		AP340		Replaced manhole with 4' dia. manhole	6/1/2022
Airport	AP341		Entire segment	Replaced 206' of existing line with 8" PVC	6/1/2022
Airport		AP341		Replaced manhole with 4' dia. manhole	6/1/2022
Airport	AP342		Entire segment	Replaced 280' of existing line with 8" PVC	6/1/2022
Airport		AP342		Replaced manhole with 4' dia. manhole	6/1/2022
Airport	AP343		Entire segment	Replaced 199' of existing line with 8" PVC	6/1/2022
Airport		AP343		Replaced manhole with 4' dia. manhole	6/1/2022
Airport	AP344		Entire segment	Replaced 202' of existing line with 8" PVC	6/1/2022
Airport		AP344		Replaced manhole with 4' dia. manhole	6/1/2022
Airport	AP345		Entire segment	Replaced 297' of existing line with 8" PVC	6/1/2022
Airport		AP345		Replaced manhole with 4' dia. manhole	6/1/2022
Airport	AP346		Entire segment	Replaced 302' of existing line with 8" PVC	6/1/2022
Airport		AP346		Replaced manhole with 4' dia. manhole	6/1/2022
Barkersville	BV587		181' u/s of mh BV586	Replaced 43' of existing line with 12" PVC	4/12/2022
Barkersville		BV587R01		Replaced catch basin with 4' dia. manhole	4/12/2022
Arctic Brook		AB620		Replaced manhole with 4' dia. manhole	4/27/2022
Arctic Brook	AB620		0' d/s of mh AB620	Replaced 8' of existing line with 12" PVC	4/27/2022
Meadowbrook		MB476		Replaced manhole with 4' dia. manhole	6/20/2022
Meadowbrook	MB477		Entire segment	Replaced 207' of existing line with 12" PVC	6/20/2022
Meadowbrook		MB477		Installed new 4' dia. manhole	6/20/2022
Meadowbrook	MB478		Entire segment	Replaced 214' of existing line with 12" PVC	6/20/2022
Meadowbrook		MB478		Installed new 4' dia. manhole	6/20/2022
Meadowbrook	MB480		Entire segment	Replaced 40' of existing line with 8" PVC	6/28/2022
Meadowbrook		MB480		Installed new 4' dia. manhole	6/28/2022
Meadowbrook	MB481		Entire segment	Replaced 136' of existing line with 8" PVC	6/28/2022
Meadowbrook		MB481		Installed new 4' dia. manhole	6/28/2022
Davis Brook	DB630		0' u/s of new manhole	Replaced 10' of existing line with 8" PVC	7/7/2022
Davis Brook		DB630A		Installed new 4' dia. manhole	7/7/2022
Davis Brook	DB632		0' u/s of new manhole	Installed 5' of 8" PVC	7/7/2022
Davis Brook	DB630A		0' d/s of new manhole	Replaced 62' of existing line with 10" PVC	7/7/2022
Kenduskeag East	KE208D		Beginning 18' u/s of mh KE206	Replaced 186' of existing line with 24" PVC	8/8/2022
Kenduskeag East		KE208D		Installed new 6' dia. manhole	8/8/2022
Kenduskeag East	KE208		0' u/s of new manhole	Replaced 32' of existing line with 24" PVC	8/8/2022
Kenduskeag East	KE500		0' u/s of new manhole	Replaced 8' of existing line with 24" PVC	8/8/2022
Barkersville	BV535		Entire segment	Replaced 150' of existing line with 8" PVC	10/5/2022
Barkersville		BV535		Installed new 4' dia. manhole	10/5/2022
Barkersville	BV536		Entire segment	Replaced 147' of existing line with 8" PVC	10/5/2022
Barkersville		BV536		Installed new 4' dia. manhole	10/5/2022
Barkersville	BV537		Entire segment	Replaced 63' of existing line with 8" PVC	10/5/2022
Barkersville		BV537		Installed new 4' dia. manhole	10/5/2022
Barkersville		BV603		Replaced manhole with 6' dia. manhole	11/2/2022
Barkersville	BV655		Entire segment	Replaced 200' of existing line with 8" PVC	11/2/2022
Barkersville		BV655		Installed new 4' dia. manhole	11/2/2022
Barkersville	BV650		Entire segment	Replaced 222' of existing line with 8" PVC	11/2/2022
Barkersville		BV650		Installed new 4' dia. manhole	11/2/2022
Davis Brook		DB333		Replaced manhole with 4' dia. manhole	11/8/2022
Carr Brook	CB210A		Entire segment	Replaced 108' of existing line with 15" PVC	12/6/2022
Carr Brook		CB210A		Replaced manhole with 4' dia. manhole	12/6/2022
Carr Brook	CB210		Entire segment	Replaced 111' of existing line with 15" PVC	12/6/2022
Carr Brook		CB210A		Replaced manhole with 4' dia. manhole	12/6/2022
Arctic Brook	AB151		230' u/s of mh AB150	Collapsed pipe	Within 5 years
Airport	AP415A		Various	Fractured, deformed pipe	Within 5 years
Barkersville	BV108		Various	Deformed pipe, hinge cracks	Within 5 years
Barkersville	BV109		Various	Hinge cracks and holes	Within 10 years
Barkersville	BV640		Various	Deformed pipe	Within 10 years
Kenduskeag West	KW102B		Various	Holes, missing brick	Within 10 years
Kenduskeag West	KW201		Various	Holes, missing brick	Within 5 years
Kenduskeag West	KW302		Various	Holes, missing brick	Within 10 years
Kenduskeag West	KW370		Beginning 10' u/s of mh KW360A	Deformed pipe	Within 10 years





# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AB511	ARCTIC BROOK	12/6/22 4:00 PM	450	2	900		
AB512	ARCTIC BROOK	12/6/22 3:57 PM	400	2	800		
AB552	ARCTIC BROOK	2/3/22 3:06 PM	96	2	192		Trouble Spot
AB562	ARCTIC BROOK	12/7/22 6:41 PM	110	2	220		Trouble Spot
AP205	AIRPORT	8/23/22 4:39 PM	40	2	80		
AP231	AIRPORT	8/23/22 5:45 PM	200	3	600		
AP232	AIRPORT	8/23/22 5:44 PM	195	2	390		
AP240	AIRPORT	8/23/22 4:37 PM	156	2	312		
AP242	AIRPORT	8/23/22 12:44 PM	281	2	562		
AP243	AIRPORT	8/23/22 12:42 PM	45	2	90		
AP250	AIRPORT	8/23/22 1:13 PM	253	2	506		
AP251	AIRPORT	8/23/22 1:13 PM	287	2	574		
AP280	AIRPORT	9/27/22 5:59 PM	170	2	340		
AP281	AIRPORT	9/27/22 6:00 PM	90	2	180		
AP282	AIRPORT	9/27/22 5:43 PM	159	2	318		
AP283	AIRPORT	9/27/22 5:42 PM	229	2	458		
AP284	AIRPORT	9/27/22 5:42 PM	109	2	218		
AP285	AIRPORT	9/27/22 5:27 PM	192	2	384		
AP286	AIRPORT	9/27/22 5:26 PM	390	2	780		
AP328	AIRPORT	1/12/22 8:03 PM	306	1	306		
AP353	AIRPORT	2/3/22 2:30 PM	261	2	522	Yes	Routine Flushing
AP353	AIRPORT	4/7/22 11:20 AM	261	2	522	Yes	Routine Flushing
AP353	AIRPORT	8/23/22 12:21 PM	261	2	522	Yes	Routine Flushing
AP354	AIRPORT	2/3/22 2:31 PM	53	2	106	Yes	Routine Flushing
AP354	AIRPORT	8/23/22 12:20 PM	53	2	106	Yes	Routine Flushing
AP355	AIRPORT	2/3/22 2:27 PM	340	2	680	Yes	Routine Flushing
AP355	AIRPORT	4/7/22 11:36 AM	340	2	680	Yes	Routine Flushing
AP415A	AIRPORT	2/2/22 4:04 PM	167	2	334	Yes	Trouble Spot
AP415A	AIRPORT	8/23/22 6:20 PM	167	2	334	Yes	Trouble Spot
AP415A	AIRPORT	8/23/22 7:04 PM	167	2	334	Yes	Trouble Spot
AP607	AIRPORT	6/7/22 7:33 PM	198	2	396		
AP608	AIRPORT	6/7/22 7:31 PM	563	2	1126		
AP609	AIRPORT	6/7/22 6:54 PM	260	2	520		
AP610	AIRPORT	6/7/22 6:53 PM	215	2	430		
AP630	AIRPORT	6/7/22 5:51 PM	250	2	500		
AP631	AIRPORT	6/7/22 5:50 PM	301	2	602		
AP650	AIRPORT	6/7/22 5:11 PM	404	2	808		
AP660	AIRPORT	6/7/22 5:32 PM	344	2	688		Trouble Spot

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AP661	AIRPORT	6/7/22 5:32 PM	416	2	832		
AP700A	AIRPORT	1/14/22 7:30 PM	263	2	526		
BS901	BLANCHARD STREET	1/14/22 7:32 PM	220	1	220		
BS902	BLANCHARD STREET	1/14/22 7:34 PM	103	1	103		
BU532	BURLEIGH	2/3/22 5:06 PM	187	2	374	Yes	Trouble Spot
BU532	BURLEIGH	4/7/22 4:16 PM	187	2	374	Yes	Trouble Spot
BU535	BURLEIGH	2/3/22 5:04 PM	268	2	536	Yes	Trouble Spot
BU535	BURLEIGH	4/7/22 4:16 PM	268	2	536	Yes	Trouble Spot
BV310	BARKERSVILLE	5/2/22 6:32 PM	300	2	600		
BV335	BARKERSVILLE	9/7/22 3:25 PM	107	4	428		
BV405	BARKERSVILLE	9/19/22 1:09 PM	501	2	1002		
BV406	BARKERSVILLE	9/19/22 12:55 PM	282	2	564		
BV407	BARKERSVILLE	9/19/22 12:11 PM	525	4	2100		
BV465A	BARKERSVILLE	5/2/22 7:17 PM	311	2	622		
BV502	BARKERSVILLE	2/10/22 3:43 PM	254	2	508		
BV503	BARKERSVILLE	9/13/22 2:17 PM	350	2	700		
BV505	BARKERSVILLE	2/10/22 5:58 PM	165	2	330		
BV506	BARKERSVILLE	2/10/22 2:19 PM	432	2	864		
BV520	BARKERSVILLE	9/13/22 2:12 PM	46	2	92		
BV520A	BARKERSVILLE	9/13/22 2:11 PM	324	2	648		
BV535	BARKERSVILLE	4/11/22 6:18 PM	362	3	1086		
BV551	BARKERSVILLE	4/5/22 4:53 PM	310	2	620		
BV585	BARKERSVILLE	4/5/22 11:44 AM	260	2	520		
BV586	BARKERSVILLE	4/5/22 11:44 AM	268	2	536		
BV587	BARKERSVILLE	4/5/22 11:09 AM	264	2	528		
BV588	BARKERSVILLE	4/5/22 11:10 AM	166	2	332		
BV671	BARKERSVILLE	4/5/22 5:14 PM	305	2	610		
BV715	BARKERSVILLE	2/16/22 7:39 PM	75	3	225		
BV740	BARKERSVILLE	2/10/22 1:03 PM	346	2	692		
BV742	BARKERSVILLE	2/9/22 6:15 PM	258	2	516		
BV743	BARKERSVILLE	2/9/22 5:56 PM	180	2	360		
BV762	BARKERSVILLE	8/22/22 8:19 PM	497	4	1988		
CB015	CARR BROOK	9/8/22 11:43 AM	67	2	134		
CB016	CARR BROOK	9/8/22 11:44 AM	140	2	280		
CB018	CARR BROOK	9/8/22 12:39 PM	197	2	394		
CB019	CARR BROOK	9/8/22 12:38 PM	92	2	184		
CB020	CARR BROOK	8/31/22 7:11 PM	185	2	370		
CB021	CARR BROOK	8/31/22 4:42 PM	232	4	928		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
CB027	CARR BROOK	8/31/22 1:14 PM	338	2	676		
CB029	CARR BROOK	8/31/22 12:51 PM	145	2	290		
CB035	CARR BROOK	2/17/22 1:36 PM	296	2	592		
CB112B	CARR BROOK	3/16/22 5:00 PM	80	4	320		
CB126	CARR BROOK	2/3/22 6:31 PM	356	2	712		Trouble Spot
CB161	CARR BROOK	5/16/22 2:52 PM	97	2	194		
CB165	CARR BROOK	5/16/22 2:53 PM	118	2	236		
CB165A	CARR BROOK	5/16/22 2:54 PM	161	2	322		
CB166	CARR BROOK	5/16/22 2:54 PM	251	2	502		
CB201B	CARR BROOK	7/11/22 12:27 PM	146	4	584		
CB201D	CARR BROOK	8/11/22 7:02 PM	218	5	1090		
CB211	CARR BROOK	4/21/22 4:47 PM	186	2	372		
CB215	CARR BROOK	4/21/22 4:46 PM	88	2	176		
CB250	CARR BROOK	9/7/22 12:08 PM	144	2	288		
CB251	CARR BROOK	9/7/22 12:11 PM	150	2	300		
CB252	CARR BROOK	9/7/22 12:12 PM	95	2	190		
CB253	CARR BROOK	9/7/22 11:47 AM	359	2	718		
CB260	CARR BROOK	9/7/22 11:50 AM	143	2	286		
CB280	CARR BROOK	9/8/22 11:44 AM	318	2	636		
CB300	CARR BROOK	8/31/22 7:12 PM	320	4	1280		
CB301	CARR BROOK	8/31/22 7:13 PM	318	4	1272		
CB373	CARR BROOK	4/21/22 5:11 PM	86	2	172		
CB406	CARR BROOK	2/2/22 7:38 PM	146	2	292		Trouble Spot
CB450	CARR BROOK	8/31/22 5:49 PM	61	4	244		
CB451	CARR BROOK	8/31/22 5:50 PM	367	4	1468		
CB650	CARR BROOK	8/31/22 1:18 PM	420	2	840		
CB851	CARR BROOK	2/16/22 5:44 PM	407	2	814		
CM505	CEMETERY	9/1/22 5:22 PM	301	2	602		
CM506	CEMETERY	9/1/22 5:23 PM	254	2	508		
CM507	CEMETERY	9/1/22 4:54 PM	272	2	544		
CM508	CEMETERY	9/1/22 4:56 PM	217	2	434		
CM509	CEMETERY	9/1/22 2:39 PM	155	2	310		
CM510	CEMETERY	9/1/22 2:40 PM	301	2	602		
CM511	CEMETERY	9/1/22 2:14 PM	306	2	612		
CM512	CEMETERY	9/1/22 2:14 PM	290	2	580		
CM513	CEMETERY	9/1/22 1:47 PM	301	2	602		
CM514	CEMETERY	9/1/22 12:30 PM	328	2	656		
CM515	CEMETERY	9/1/22 11:59 AM	283	2	566		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
CM516	CEMETERY	9/1/22 11:42 AM	46	2	92		
CM517	CEMETERY	9/1/22 11:42 AM	319	2	638		
CM518	CEMETERY	8/31/22 5:23 PM	345	2	690		
CM519	CEMETERY	8/31/22 4:58 PM	227	2	454		
CM520	CEMETERY	8/31/22 4:57 PM	186	2	372		
CM550	CEMETERY	9/1/22 5:28 PM	237	2	474		
CM551	CEMETERY	9/1/22 5:30 PM	233	2	466		
CM570	CEMETERY	9/1/22 11:31 AM	44	2	88		
CM571	CEMETERY	9/1/22 11:25 AM	122	2	244		
CM580	CEMETERY	8/31/22 7:31 PM	306	2	612		
CM581	CEMETERY	8/31/22 7:14 PM	198	2	396		
CM590	CEMETERY	8/31/22 5:44 PM	210	2	420		
CM591	CEMETERY	8/31/22 5:56 PM	189	2	378		
CM702	CEMETERY	7/27/22 7:35 PM	404	2	808		
CM703	CEMETERY	7/27/22 6:25 PM	227	2	454		
CM705	CEMETERY	7/27/22 5:55 PM	247	2	494		
CM707	CEMETERY	7/27/22 3:03 PM	236	2	472		
CM709	CEMETERY	7/27/22 11:53 AM	318	2	636		
CM710	CEMETERY	7/27/22 11:06 AM	344	2	688		
CM720	CEMETERY	7/27/22 7:33 PM	181	2	362		
CM730	CEMETERY	7/27/22 6:23 PM	251	2	502		
CM731	CEMETERY	7/27/22 6:24 PM	244	2	488		
CM770	CEMETERY	7/27/22 1:53 PM	215	2	430		
CM771	CEMETERY	7/27/22 1:55 PM	239	2	478		
CM780	CEMETERY	7/27/22 11:52 AM	35	2	70		
CM781	CEMETERY	7/27/22 1:29 PM	314	2	628		
CM790	CEMETERY	7/27/22 11:05 AM	263	2	526		
CM791	CEMETERY	7/27/22 11:04 AM	253	2	506		
CW008	CARDINAL WAY	9/27/22 3:01 PM	97	2	194		
CW009	CARDINAL WAY	9/27/22 3:02 PM	60	2	120		
CW010	CARDINAL WAY	9/27/22 3:02 PM	130	2	260		
CW012	CARDINAL WAY	9/27/22 3:22 PM	97	2	194		
CW013	CARDINAL WAY	9/27/22 12:39 PM	111	2	222		
CW014	CARDINAL WAY	9/27/22 2:46 PM	219	2	438		
CW015	CARDINAL WAY	9/27/22 1:14 PM	221	2	442		
CW016	CARDINAL WAY	9/27/22 1:15 PM	176	2	352		
CW050	CARDINAL WAY	9/27/22 2:45 PM	135	2	270		
CW051	CARDINAL WAY	9/27/22 2:45 PM	66	2	132		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
DB018	DAVIS BROOK	2/9/22 6:31 PM	29	1	29		
DB106	DAVIS BROOK	4/4/22 5:07 PM	112	2	224		
DB107	DAVIS BROOK	4/4/22 5:08 PM	180	2	360		
DB260A	DAVIS BROOK	4/5/22 5:52 PM	344	2	688		
DB381	DAVIS BROOK	9/13/22 1:47 PM	225	2	450		
DB555	DAVIS BROOK	2/10/22 6:29 PM	227	2	454		
DB564	DAVIS BROOK	2/2/22 5:34 PM	168	1	168	Yes	Trouble Spot
DB564	DAVIS BROOK	5/19/22 11:29 AM	168	2	336	Yes	Trouble Spot
DB564	DAVIS BROOK	7/11/22 2:50 PM	168	3	504	Yes	Trouble Spot
DB565	DAVIS BROOK	5/19/22 11:28 AM	162	2	324	Yes	Trouble Spot
DB565	DAVIS BROOK	7/11/22 2:48 PM	162	3	486	Yes	Trouble Spot
DB566	DAVIS BROOK	2/2/22 5:36 PM	172	1	172	Yes	Trouble Spot
DB566	DAVIS BROOK	5/19/22 11:27 AM	172	2	344	Yes	Trouble Spot
DB566	DAVIS BROOK	7/11/22 11:26 AM	172	3	516	Yes	Trouble Spot
DB715	DAVIS BROOK	2/9/22 6:07 PM	872	2	1744		
DB720	DAVIS BROOK	2/9/22 6:28 PM	388	1	388		
DB730	DAVIS BROOK	2/9/22 6:29 PM	350	1	350		
DW206	DOW	8/18/22 4:35 PM	517	2	1034		
DW260	DOW	1/14/22 2:57 PM	248	2	496	Yes	Trouble Spot
DW260	DOW	2/2/22 5:16 PM	248	1	248	Yes	Trouble Spot
DW260	DOW	3/7/22 3:23 PM	248	1	248	Yes	Trouble Spot
DW260	DOW	4/7/22 2:27 PM	248	2	496	Yes	Trouble Spot
DW260	DOW	7/18/22 12:31 PM	248	2	496	Yes	Trouble Spot
DW265	DOW	1/14/22 2:50 PM	109	2	218	Yes	Trouble Spot
DW265	DOW	2/2/22 5:17 PM	109	1	109	Yes	Trouble Spot
DW265	DOW	3/7/22 2:55 PM	109	2	218	Yes	Trouble Spot
DW265	DOW	4/7/22 2:29 PM	109	2	218	Yes	Trouble Spot
DW265	DOW	7/18/22 12:17 PM	109	2	218	Yes	Trouble Spot
DW265	DOW	8/18/22 4:37 PM	109	2	218	Yes	Trouble Spot
DW265	DOW	12/8/22 2:38 PM	140	1	140	Yes	Trouble Spot
DW276	DOW	9/6/22 2:38 PM	273	4	1092		
DW305	DOW	8/18/22 5:09 PM	255	2	510	Yes	Routine Flushing
DW305	DOW	9/27/22 7:30 PM	255	2	510	Yes	Routine Flushing
DW306	DOW	9/27/22 7:31 PM	249	2	498		
DW307	DOW	8/18/22 4:59 PM	339	2	678	Yes	Routine Flushing
DW307	DOW	9/27/22 7:13 PM	339	2	678	Yes	Routine Flushing
DW308	DOW	9/27/22 7:13 PM	340	2	680		
FS104	FOURTEENTH STREET	4/4/22 4:06 PM	262	2	524		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
FS105	FOURTEENTH STREET	4/4/22 4:10 PM	15	2	30		
GW101	GLENWOOD	4/4/22 1:24 PM	252	2	504		
GW102	GLENWOOD	4/4/22 1:25 PM	309	2	618		
HK010A	HANCOCK STREET	2/2/22 7:42 PM	45	2	90		Trouble Spot
HK011	HANCOCK STREET	2/2/22 7:43 PM	236	2	472	Yes	Trouble Spot
HK011	HANCOCK STREET	5/19/22 2:38 PM	236	2	472	Yes	Trouble Spot
HK040	HANCOCK STREET	2/2/22 7:41 PM	31	2	62	Yes	Trouble Spot
HK040	HANCOCK STREET	5/19/22 2:14 PM	31	2	62	Yes	Trouble Spot
HK041	HANCOCK STREET	2/2/22 7:42 PM	323	2	646	Yes	Trouble Spot
HK041	HANCOCK STREET	5/19/22 3:00 PM	323	2	646	Yes	Trouble Spot
HK219	HANCOCK STREET	8/31/22 2:24 PM	300	2	600		
HK271	HANCOCK STREET	9/19/22 12:12 PM	273	2	546		
HK272	HANCOCK STREET	9/19/22 12:11 PM	299	2	598		
HK273	HANCOCK STREET	9/19/22 11:42 AM	306	2	612		
HK505	HANCOCK STREET	4/21/22 2:19 PM	197	2	394		
HK506	HANCOCK STREET	4/21/22 2:18 PM	120	2	240		
HK507	HANCOCK STREET	4/21/22 2:02 PM	212	2	424		
HK508	HANCOCK STREET	4/21/22 2:03 PM	72	2	144		
HK518	HANCOCK STREET	8/31/22 2:07 PM	227	2	454		
HK519	HANCOCK STREET	8/31/22 2:08 PM	197	2	394		
HK626	HANCOCK STREET	4/21/22 1:35 PM	277	2	554		
HP407	HILDRETH-PERRY	12/14/22 9:08 PM	488	2	976		
HP466	HILDRETH-PERRY	2/3/22 5:52 PM	318	1	318	Yes	Routine Flushing
HP466	HILDRETH-PERRY	5/19/22 6:02 PM	318	2	636	Yes	Routine Flushing
HP473	HILDRETH-PERRY	5/23/22 1:41 PM	200	2	400		Trouble Spot
HP485	HILDRETH-PERRY	2/3/22 5:38 PM	399	1	399	Yes	Routine Flushing
HP485	HILDRETH-PERRY	5/19/22 6:01 PM	399	2	798	Yes	Routine Flushing
HS006A	HUSSON	2/10/22 3:17 PM	149	2	298	Yes	Routine Flushing
HS006A	HUSSON	8/31/22 1:05 PM	149	2	298	Yes	Routine Flushing
HS006B	HUSSON	2/10/22 3:21 PM	31	2	62	Yes	Routine Flushing
HS006B	HUSSON	8/31/22 1:07 PM	31	2	62	Yes	Routine Flushing
HS007	HUSSON	2/10/22 3:22 PM	72	2	144	Yes	Routine Flushing
HS007	HUSSON	8/31/22 1:07 PM	72	2	144	Yes	Routine Flushing
HS008	HUSSON	8/31/22 1:08 PM	301	2	602		
HS010	HUSSON	8/31/22 3:07 PM	250	2	500		
HS011	HUSSON	8/31/22 1:33 PM	335	4	1340		
HS102	HUSSON	4/4/22 2:21 PM	350	2	700		
HS500	HUSSON	2/10/22 2:22 PM	301	2	602	Yes	Trouble Spot

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
HS500	HUSSON	4/6/22 12:13 PM	301	2	602	Yes	Trouble Spot
HS500	HUSSON	7/26/22 6:08 PM	301	2	602	Yes	Trouble Spot
HS500	HUSSON	8/31/22 11:47 AM	301	2	602	Yes	Trouble Spot
HS500	HUSSON	10/13/22 2:23 PM	301	2	602	Yes	Trouble Spot
HS500	HUSSON	11/29/22 1:05 PM	301	2	602	Yes	Trouble Spot
KE251	KENDUSKEAG EAST	5/19/22 6:41 PM	221	2	442		
KW100A	KENDUSKEAG WEST	4/6/22 11:32 AM	277	2	554		
KW100B	KENDUSKEAG WEST	4/6/22 11:17 AM	234	2	468		
KW183	KENDUSKEAG WEST	4/6/22 6:09 PM	93	2	186		
KW186	KENDUSKEAG WEST	4/6/22 6:07 PM	200	2	400		
KW251	KENDUSKEAG WEST	4/4/22 4:36 PM	3032	2	6064		
KW501	KENDUSKEAG WEST	5/17/22 3:18 PM	35	5	175		
KW502	KENDUSKEAG WEST	5/17/22 3:17 PM	217	5	1085		
KW658	KENDUSKEAG WEST	2/17/22 12:56 PM	71	2	142		
KW659	KENDUSKEAG WEST	2/17/22 1:48 PM	167	2	334		
KW660	KENDUSKEAG WEST	2/17/22 1:49 PM	49	2	98		
KW903	KENDUSKEAG WEST	4/6/22 5:33 PM	166	2	332	Yes	Routine Flushing
KW903	KENDUSKEAG WEST	9/13/22 1:20 PM	166	2	332	Yes	Routine Flushing
MB043	MEADOWBROOK	5/16/22 6:57 PM	318	4	1272		
MB044	MEADOWBROOK	5/3/22 2:15 PM	308	2	616		
MB045	MEADOWBROOK	5/3/22 12:13 PM	147	2	294		
MB046	MEADOWBROOK	5/3/22 12:15 PM	248	2	496		
MB047	MEADOWBROOK	5/3/22 11:19 AM	176	2	352		
MB048	MEADOWBROOK	5/3/22 11:18 AM	8	2	16		
MB321	MEADOWBROOK	10/13/22 12:59 PM	337	2	674		
MB322	MEADOWBROOK	10/13/22 7:01 PM	163	3	489		
MB346	MEADOWBROOK	4/7/22 1:28 PM	89	4	356		
MB551	MEADOWBROOK	4/11/22 5:05 PM	278	2	556		
MB552	MEADOWBROOK	4/11/22 5:02 PM	389	4	1556		
MB560	MEADOWBROOK	4/7/22 5:17 PM	242	2	484		
MB602	MEADOWBROOK	8/18/22 2:49 PM	285	2	570		
MB603	MEADOWBROOK	8/18/22 2:31 PM	317	2	634		
MB604	MEADOWBROOK	8/18/22 2:30 PM	293	2	586		
MB605	MEADOWBROOK	8/17/22 6:15 PM	306	2	612		
MB706	MEADOWBROOK	2/18/22 3:31 PM	197	2	394		
MB710	MEADOWBROOK	2/18/22 3:14 PM	266	2	532		
MB711	MEADOWBROOK	2/18/22 2:49 PM	130	2	260		
MB728	MEADOWBROOK	9/6/22 1:12 PM	227	2	454		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB729	MEADOWBROOK	9/6/22 12:26 PM	239	2	478		
MB730	MEADOWBROOK	9/6/22 12:25 PM	272	2	544		
MB731	MEADOWBROOK	9/6/22 12:04 PM	298	2	596		
MB732	MEADOWBROOK	9/6/22 11:48 AM	338	2	676		
MB754	MEADOWBROOK	9/6/22 7:01 PM	273	2	546		
MB762	MEADOWBROOK	9/6/22 3:11 PM	298	2	596		
MB763	MEADOWBROOK	9/6/22 3:11 PM	313	2	626		
MB808A	MEADOWBROOK	8/17/22 2:58 PM	235	2	470		
MB813	MEADOWBROOK	5/26/22 3:07 PM	351	3	1053		
MB836	MEADOWBROOK	5/16/22 1:56 PM	123	2	246	Yes	Routine Flushing
MB836	MEADOWBROOK	8/17/22 2:11 PM	123	2	246	Yes	Routine Flushing
MB840	MEADOWBROOK	8/17/22 2:12 PM	266	2	532		
MB850	MEADOWBROOK	8/17/22 2:57 PM	307	2	614		
MB851	MEADOWBROOK	4/20/22 4:46 PM	421	2	842		
MB852	MEADOWBROOK	8/17/22 1:10 PM	251	2	502		
MB853	MEADOWBROOK	8/17/22 1:02 PM	259	2	518		
MB854	MEADOWBROOK	8/17/22 12:48 PM	412	2	824		
MB855	MEADOWBROOK	8/17/22 12:32 PM	231	2	462		
MB858	MEADOWBROOK	2/3/22 1:59 PM	61	1	61		
MB860	MEADOWBROOK	8/9/22 2:00 PM	239	2	478		
MB861	MEADOWBROOK	8/9/22 12:40 PM	199	2	398		
MB862	MEADOWBROOK	8/9/22 12:27 PM	219	2	438		
MB863	MEADOWBROOK	8/9/22 12:28 PM	227	2	454		
MB864	MEADOWBROOK	8/9/22 12:28 PM	105	2	210		
MB865	MEADOWBROOK	8/9/22 1:51 PM	342	2	684		
MB866	MEADOWBROOK	8/9/22 1:36 PM	329	2	658		
MB870	MEADOWBROOK	8/17/22 1:10 PM	145	2	290		
MB913	MEADOWBROOK	5/2/22 1:50 PM	251	4	1004		
MB951	MEADOWBROOK	4/21/22 11:54 AM	334	2	668		
MB952	MEADOWBROOK	4/20/22 5:33 PM	306	2	612		
MB976	MEADOWBROOK	5/3/22 3:17 PM	223	2	446		
MB977	MEADOWBROOK	5/3/22 3:18 PM	223	2	446		
MB978	MEADOWBROOK	5/3/22 2:58 PM	243	2	486		
MB981	MEADOWBROOK	9/8/22 3:07 PM	450	2	900		
MB982	MEADOWBROOK	9/8/22 2:50 PM	175	4	700		Trouble Spot
OC036	OLD CAPEHART	5/2/22 5:00 PM	255	2	510		
OC037	OLD CAPEHART	5/2/22 5:00 PM	146	2	292		
OC301	OLD CAPEHART	5/26/22 11:53 AM	241	4	964		



# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
OC302	OLD CAPEHART	5/26/22 11:56 AM	261	4	1044		
OC306	OLD CAPEHART	4/4/22 11:57 AM	194	2	388		
OC307	OLD CAPEHART	4/4/22 11:58 AM	308	2	616		
OC350	OLD CAPEHART	5/26/22 11:55 AM	174	2	348		
OC362	OLD CAPEHART	4/4/22 12:16 PM	236	2	472		
OC402	OLD CAPEHART	5/23/22 5:04 PM	144	2	288		Trouble Spot
OC403	OLD CAPEHART	5/26/22 5:50 PM	226	2	452		Trouble Spot
OC420	OLD CAPEHART	5/23/22 5:05 PM	95	2	190		Trouble Spot
OC421	OLD CAPEHART	5/23/22 5:05 PM	360	2	720		Trouble Spot
OC422	OLD CAPEHART	5/23/22 5:50 PM	268	2	536		Trouble Spot
OC452	OLD CAPEHART	5/23/22 6:14 PM	165	2	330		
OC453	OLD CAPEHART	5/23/22 6:15 PM	236	2	472	Yes	Trouble Spot
OC453	OLD CAPEHART	5/26/22 6:17 PM	236	2	472	Yes	Trouble Spot
OC455	OLD CAPEHART	5/26/22 6:18 PM	191	2	382		Trouble Spot
OC465	OLD CAPEHART	5/23/22 6:34 PM	162	2	324		
OC466	OLD CAPEHART	5/23/22 6:35 PM	155	2	310		
OC473	OLD CAPEHART	4/4/22 12:53 PM	76	2	152		
OC490	OLD CAPEHART	4/4/22 12:54 PM	77	2	154		
OC801	OLD CAPEHART	2/2/22 2:53 PM	203	1	203		Trouble Spot
OC900	OLD CAPEHART	5/2/22 5:01 PM	56	2	112		
OC907	OLD CAPEHART	1/14/22 12:56 PM	235	1	235	Yes	Trouble Spot
OC907	OLD CAPEHART	8/31/22 10:43 AM	235	2	470	Yes	Trouble Spot
OC950	OLD CAPEHART	5/2/22 2:55 PM	336	2	672		
OC951	OLD CAPEHART	5/2/22 1:25 PM	334	2	668		
OC952	OLD CAPEHART	5/2/22 12:42 PM	129	2	258	Yes	Routine Flushing
OC952	OLD CAPEHART	12/20/22 12:55 PM	129	2	258	Yes	Routine Flushing
OC953	OLD CAPEHART	5/2/22 12:43 PM	350	2	700		
OC954	OLD CAPEHART	5/2/22 11:56 AM	347	2	694	Yes	Trouble Spot
OC954	OLD CAPEHART	12/20/22 12:35 PM	347	2	694	Yes	Trouble Spot
PJ020	PENJAJAWOC	12/20/22 7:12 PM	163	2	326		
PJ026	PENJAJAWOC	2/3/22 1:46 PM	350	2	700		
PJ400	PENJAJAWOC	4/6/22 4:53 PM	186	2	372	Yes	Trouble Spot
PJ400	PENJAJAWOC	7/18/22 11:46 AM	186	4	744	Yes	Trouble Spot
PJ400	PENJAJAWOC	12/20/22 6:34 PM	186	2	372	Yes	Trouble Spot
PJ401	PENJAJAWOC	4/6/22 4:54 PM	93	2	186		
PJ530	PENJAJAWOC	2/3/22 1:50 PM	363	1	363		
SL103	STRICKLAND	2/3/22 2:49 PM	66	2	132		
WL022	WOODLAWN	9/19/22 5:42 PM	300	2	600		

# APPENDIX D: CLEANING LOG

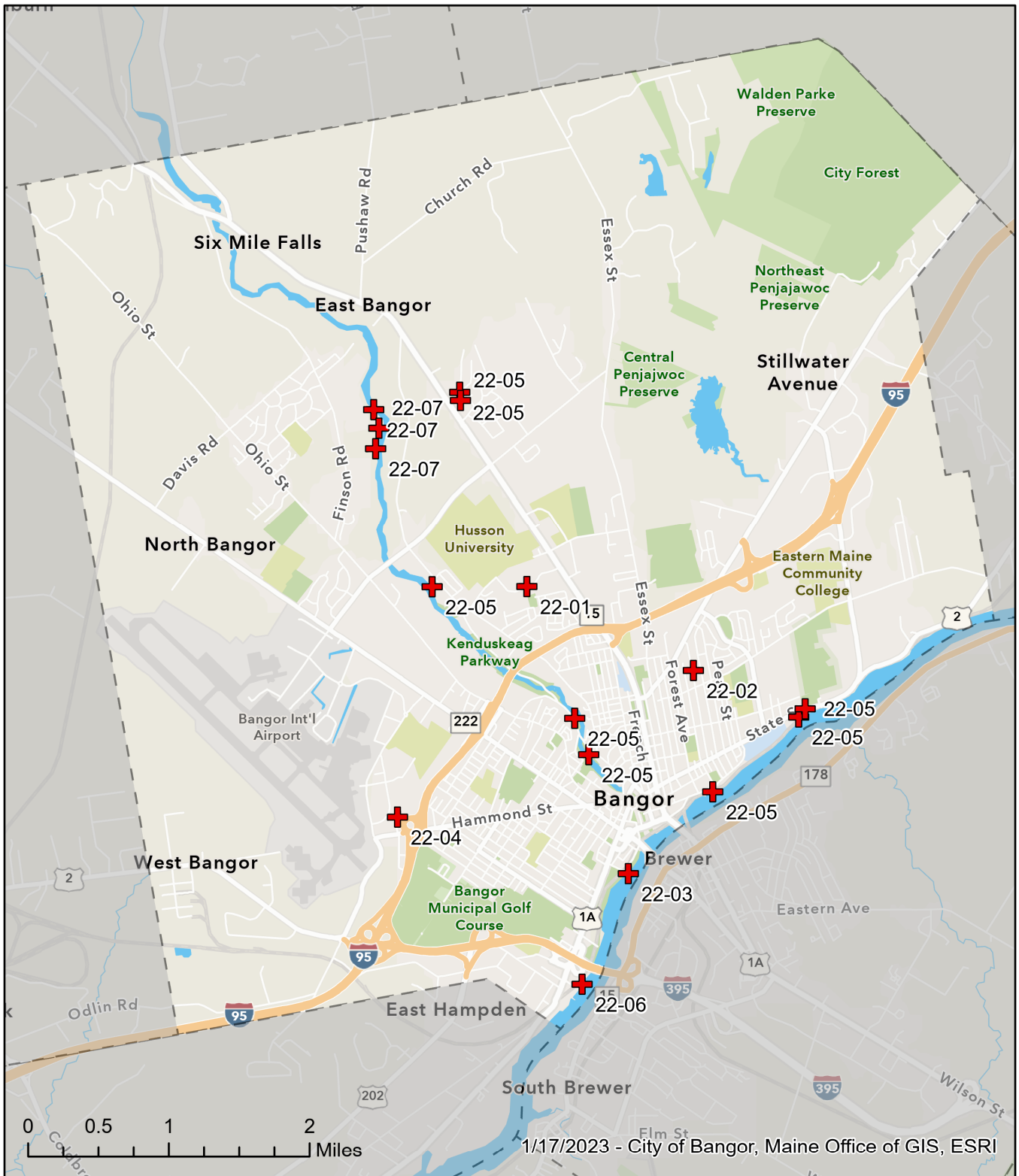
City of Bangor, Maine  
Calendar Year 2022

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
WL023	WOODLAWN	9/19/22 5:29 PM	304	4	1216		
WL024	WOODLAWN	9/19/22 2:30 PM	306	4	1224		
WL025	WOODLAWN	9/19/22 2:13 PM	288	4	1152		
WL107	WOODLAWN	9/8/22 2:02 PM	414	2	828		
WL150	WOODLAWN	9/8/22 2:03 PM	203	2	406		
WL513	WOODLAWN	5/18/22 12:40 PM	214	4	856		
WL520	WOODLAWN	5/18/22 12:56 PM	336	2	672		
WL521	WOODLAWN	5/18/22 12:20 PM	270	2	540		
WL600A	WOODLAWN	5/18/22 11:48 AM	56	2	112		
WL601	WOODLAWN	5/18/22 11:47 AM	132	2	264		
WL602	WOODLAWN	5/18/22 11:46 AM	274	2	548		
<b>Total feet</b>					<b>180,081</b>		
<b>Total miles</b>					<b>34.1</b>		

## APPENDIX E: SSO EVENT LOG

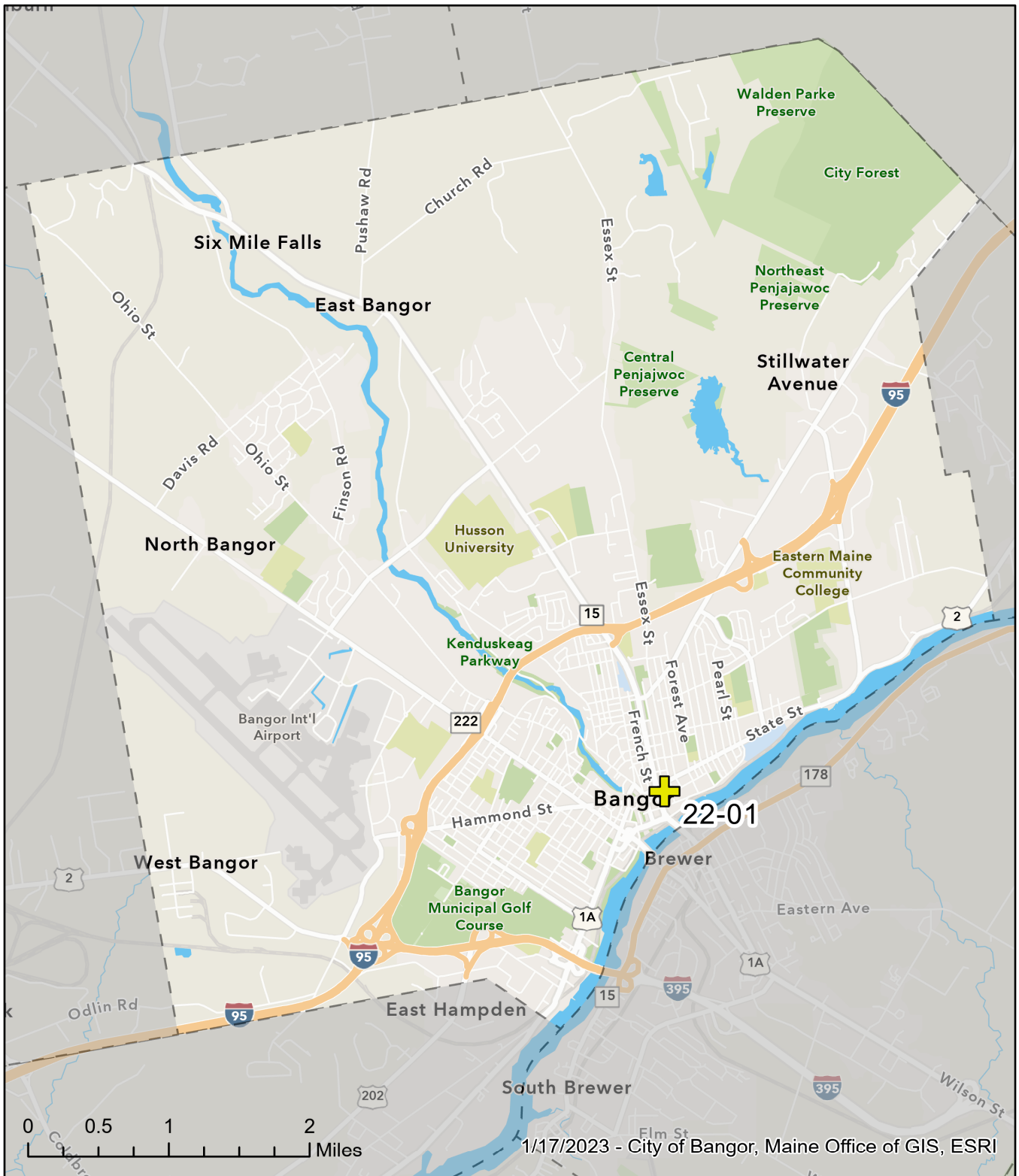
City of Bangor, Maine  
Calendar Year 2022

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
22-01	1/14/2022	1/14/2022	238 Husson Avenue near road	Ground	Public Works Notified Sewer Crew	Rags and wipes blocking system from medical facility	Yes	Cleared blockage and spoke to Manager of Medical facility	900 Gallons estimated by volume of ice/snow cleanup	None
22-02	2/11/2022	2/11/2022	269 Maple Street	Basement backup that drained to sanitary collection system	Resident - Property Owner	Collapse of sewer main	Yes	Repaired collapsed pipe	5,000 Gallons by area and depth of reported water in basement	None
22-03	2/18/2022	2/18/2022	Bangor Waterfront near Bulkhead	Drained overland to Penobscot River	Parks and Recreation Staff	Heavy rain and fernco connection gave way on 6" service.	yes	Repaired fernco connection and installed back flow preventer on 6" service line	300 Gallons based on size of ponding area.	None
22-04	6/30/2022	6/30/2022	1 Northeast Drive EMMC Office building basement	Small back up in basement which drained to sanitary collection system	Building Maintenance staff	Rain event and blockage in main due to industrial rags.	yes	Cleared blockage and followed up with property owners in the area regarding proper use of sanitary sewer.	4 Gallons based on visual inspection	None
22-05	10/14/2022-10/19/2022	10/19/2022	8 Manholes on cross country sewer mains along Kenduskeag Stream and Penobscot River	Ground to Kenduskeag Stream and Penobscot River	Sewer Crew Cross Country inspection	Back to back rain events that included 7 inches of rain	Yes	The City is working to reduce overflows through projects included in our LTCP.	Unknown	7/9/2021
22-06	11/14/2022	11/14/2022	Barkersville Tank	Penobscot River	Sewer Crew	Accidental SCADA input for effluent gate draining storage tank	No	Operator realized error and provided appropriate setting to gate valve.	4,770 Gallons	None
22-07	12/27/2022	12/27/2022	Three manholes along Kenduskeag Interceptor between Pushaw Rd and Griffin Rd	Ground	Sewer Crew Cross Country inspection	Possibly heavy rain event on 12-23-2022	No	The City is working to reduce overflows through projects included in our LTCP.	Unknown	None



# Location of SSO Events 2022





1/17/2023 - City of Bangor, Maine Office of GIS, ESRI



# Location of Illicit Sewer Connections 2022

