



# OFFICE OF THE CITY MANAGER

## CITY OF BANGOR

CATHERINE M. CONLOW  
CITY MANAGER

January 28, 2021

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 2020  
(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 2020 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 improve our assets at the wastewater treatment plant and within our collection system to reduce combines sewer overflows (CSO's) within our City.

Please feel free to contact me if you have any questions concerning the attached Annual Report.

Sincerely,

*Catherine M. Conlow* *KESC 1/28/21*

Catherine M. Conlow  
City Manager

cc: Tonia Bandrowicz, US EPA  
Brian Kavanah, Director, Bureau of Water Quality, MEDEP  
Sharon Newman, Preti Flaherty

enc: Annual Report

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	III.B.1
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

2020  
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, 2021



# 2020 Annual Report on Compliance

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

2020 Annual Report on Compliance

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: Catherine M Conlow *KESC*  
Catherine M. Conlow  
City Manager

Date: 1/28/2021

# 2020 Annual Report on Compliance

## I. Introduction

The City of Bangor (the “City” or “Bangor”) is pleased to submit this Annual Report on Compliance, pursuant to the requirements of the *United States and State of Maine v. City of Bangor Consent Decree*, Civil Action No. 1:15-cv-00350-NT, entered on November 13, 2015 (the “Consent Decree”), for the reporting period beginning on January 1, 2020, and ending on December 31, 2020.

## II. Status of Compliance

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

<u>Date Submitted</u>	<u>Deliverable</u>
January 30, 2020	Annual Report on Compliance for calendar year 2019
February 28, 2020	copy of Annual CSO Report to DEP for calendar year 2019
June 9, 2020	Mid-year Report
February 5, 2021	GIS Deliverable (per Par. 9.a of the Consent Decree)
September 14, 2020	copy of MS4 Permit Year 7 Report, 2013-2021 Permit Cycle 3 to DEP (per Par. 10 of the Consent Decree)
Various	ADS Flow Monitoring Reports (per Par. 22 of the Consent Decree)

### B. Identification of any Non-Compliance

In preparing the 2020 Annual Report on Compliance, the City of Bangor realized that we did not provide the annual GIS deliverable by July 1, 2020. The City maintains our GIS system on a continuous basis and we apologize for this oversight. We will provide this submission on February 5, 2021. We are unaware of any other incidences of non-compliance with the requirements of the Consent Decree identified for the 2020 reporting period.

# 2020 Annual Report on Compliance

## III. Compliance Activities

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

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

##### Railroad Street Regulator

The Railroad Street Regulator Structure was bid in the winter of 2019 with construction starting in March 2019. The project was substantially completed in January of 2020 with the installation of the gate valve actuators. The fine-tuning of the weir metering equipment and communications with the WWTP were completed during the fall of 2020 along with final sidewalk repairs and the loam and seeding of the site. The total cost of the project was approximately \$2.7 million and was funded through the SRF program.

Although this project was not included in the City of Bangor's Long Term Control Plan (LTCP), the City of Bangor thought it was a necessary improvement prior to the installation of the Davis Brook CSO Storage Tank. The redesign of the Railroad Street Regulator structure eliminates the occurrence of unnecessary (low flow) overflows that were occurring at this location due to the poor design of the existing structure.

The Railroad Street Regulator structure was designed to improve hydraulics at the regulator and upsize the dry weather connection from 30" and 21" to 42". This project also replaced several sections of the Davis Brook stone outfall sewer with box culvert to reduce inflow/infiltration and overall structure integrity of the pipe sections.

Since being brought on line in January of 2020, the Railroad Regulator Structure has functioned very well and has only overflowed two times during this past year. The intent for this structure is to only permit overflows after the weir of the Davis Brook Storage Conduit has experienced an overflow.

##### Davis Brook CSO Storage Tank

The Davis Brook CSO Storage Tank (DBST) is the first CSO project identified in the City's Long Term Control Plan (LTCP). Construction of the Tank began in late February of 2020. When complete, the DBST will provide 3.8 million gallons (MG) of new storage capacity. The Tank is being 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 will be 5.0 MG.

Construction of the Davis Brook CSO Storage Tank has been continuous since March of 2020 and is expected to continue through this winter. The current completion date for the project is June of 2022. The completion date for this project within the City's LTCP is June of 2021, however because the City completed the Railroad Street Regulator Structure



## 2020 Annual Report on Compliance

before the CSO Tank project, the completion date has been delayed by a year. The project is funded through the SRF program and the construction cost for the project is about \$29.4 million.

### Parker Street Sewer Main Improvements

This project consisted of installing approximately 370 feet of new 24" PVC sewer main and about 495 feet of 30" PVC sewer main along portions of Parker Street and Third Street. The project also included the installation of five new sewer manholes and provided updated sewer services extended to the right of way for 14 properties. The project eliminated approximately 660 feet of old and failing vitrified clay pipe ranging in size from 12" to 24". Approximately 115 feet of 24" brick sewer main was also abandoned as a result of this project. This project is expected to significantly reduce infiltration within this section of the collection system because much of the clay pipe was cracked and failing. This project falls within the Davis Brook sewer subsection. Construction of this project started in the spring 2020 and was substantially completed in the fall of 2020. Only final loam and seeding of the project remains for the spring of 2021. The total cost of the project was about \$518,000. The project was funded by the City of Bangor as a capital improvement.

### First Street Sewer Main Improvements

This project consisted of constructing new sewer mains on First Street to replace a brick sewer constructed in 1871 at one end and a private sewer constructed about the same time at the other end. Most of this brick sewer was not accessible to the City. The project began on First Street at Union Street and extended to the south through Cedar Street to approximately 100' north of Barker Street. The project included the installation of 10 new manholes, 677 feet of 15" PVC sewer main, and 281 feet of 12" PVC sewer main. Sixteen sewer services to the adjacent properties were connected at the City right of way. Construction of the project began during the spring of 2020 and was completed by late summer of 2020. This project is expected to reduce infiltration into the existing sewer system by replacing the older brick sewer main and updating the building sewer services. This project is in the Davis Brook sewer subsection. The total cost of the project was about \$480,000. The project was funded by the City of Bangor as a capital improvement.

### Griffin-Bolling Sewer Main Improvements

This project in the Airport sewer subsection consisted of repairs and replacements of sewer mains and manholes recommended in the LTCP as a result of the Phase II SSES. The project was constructed during the summer of 2020.

The project included eight new sanitary manholes and the replacement of approximately 1,500 feet of 8" VCP sewer main with new 8" PVC sewer main. Sewer service connections to about a dozen multi-unit residential apartment buildings were completed with this

## 2020 Annual Report on Compliance

project. The total cost of the project was about \$476,500. The project was funded by the City of Bangor as a capital improvement. This project is expected to reduce infiltration into the existing sewer system by replacing the original 8" VCP, which was constructed in the early 1960's, with new 8" PVC sewer main and updating the building sewer services.

### Wing Park Sewer Improvements

This project re-routes 500 feet an undersized 12" sewer main that is located on Northern Light Hospital Property and relocates it to the public right of way along Hancock Street. The project will upgrade the existing sanitary sewer main from 12" PVC sewer main up to 24" PVC sewer main. The project also replaces an existing sewer manhole located within the Hospital's Wing Park parking lot that has experienced sanitary sewer overflows (SSOs) in the past. The outlet to the new Wing Park sewer manhole has been increased from 12" to 24". The increased hydraulic capacity should reduce SSOs at this location. The project includes 15 new sewer manholes, 1,070 feet of 24" PVC, 49 feet of 18" PVC, 297 feet of 15" PVC, and 183 feet of 12" PVC sewer main.

In addition to the sewer improvements, the City added four new stormwater catch basins along Hancock Street at the local low point of the road and separated out this stormwater runoff from the sanitary system. This project is intended to eliminate the occurrence of sanitary sewer overflows at Wing Park and reduce the amount of inflow into the collection system by providing some stormwater separation on Hancock Street. This project is located within the Carr Brook sewer subsection.

This project is being completed in conjunction with the Bangor Water District for water main upgrades on State Street. Construction of this project began in December of 2020 and is scheduled to be complete by the end of July 2021. The project is funded by the City of Bangor as a capital improvement. The cost of the sewer and stormwater improvements of this project are approximately \$1.08 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 is anticipated to begin in the first quarter of 2021. This project is and SRF funded project with a total estimated budget of about \$1.85 million.

# 2020 Annual Report on Compliance

## Wastewater Treatment Plant Generator

The City of Bangor is in the process of installing a new natural gas backup generator system to provide auxiliary power to the treatment plant and all its operations. The design for the generator system was completed in the spring of 2020 and installation is scheduled to be completed by the fall of 2021. This project is a SRF funded project with a total estimated project budget of \$2.65 million.

## 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 three-year Agreement with the City to complete this work as it becomes available. These projects are usually a proactive effort and determined by the City's ongoing CCTV camera inspection work.

There are occasions however, when this work is also reactive when sewer emergencies do occur. The City has been maintaining this Small Project's Account for about 5 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 2020. The work includes the installation of 9 new manholes, 1,764 feet of 8" PVC sewer main, 656 feet of 18" sewer main, and 336 feet of 24" sewer main. The total cost of work completed under the Small Projects Account for the year 2020 was \$636,800.

# 2020 Annual Report on Compliance

## Small Projects Account - Year 2020 Summary

Street Name (Nearest to Project)	Work Completed	Date Completed
Hammond Street	Replaced manhole	7/7/2020
Pleasant Street	Replaced 500' of brick sewer with 8" PVC, replaced 1 manhole, installed 1 new manhole	7/17/2020
Cedar Street	Replaced 336' of brick sewer with 24" PVC, replaced 1 manhole	7/23/2020
Fourth Street	Installed access manhole	7/31/2020
Main Street	Abandoned existing manhole, installed access manhole	8/2/2020
Cedar Street	Replaced 270' of brick sewer with 18" PVC	9/2/2020
Lincoln Street	Replaced manhole	9/25/2020
Norway Road	Installed dead end manhole, replaced 94' of sewer with 8" PVC	10/12/2020
Mountain View Avenue	Replaced 386' of sewer main with 18" PVC, installed 1 new manhole	10/15/2020
Roger Street	Replaced 273' of sewer main with 8" PVC, replaced 1 manhole	11/6/2020
York Street	Replaced 14' of sewer main with 8" PVC	11/10/2020
Third Street	Replaced 166' of sewer main with PVC	11/11/2020
Leighton Street	Replaced 10' of sewer main with 8" PVC, replaced 1 manhole	11/19/2020
Hammond Street	Replaced 1 manhole	11/23/2020
Godfrey Boulevard	Replaced 282' of sewer main with 8" PVC	12/8/2020
Maine Avenue	Replaced 349' of sewer main with 8" PVC, replaced 2 manholes	12/21/2020
Maine Avenue	Replaced 31' of sewer main with 8" PVC	12/23/2020
General Aviation	Replaced 39' of sewer main with 8" PVC	12/28/2020
General Aviation	Capped abandoned service	12/29/2020
Hillside Avenue	Replaced 6' of sewer main with 8" PVC	12/31/2020

# 2020 Annual Report on Compliance

## 2. Weir and Regulator Adjustments

The Railroad Street Regulator was replaced in 2019, along with upsized connections, as described in Section III.A.1 of this report. The replacement allows more flow from the subsection to reach the existing Davis Brook Storage Conduit. Fine-tuning of the flow measuring and communication equipment was completed in the fall of 2020 within the Railroad Street Regulator structure. During reporting year 2020, the structure experienced two overflows. These overflows followed overflow events at the Davis Brook Storage Conduit as per design.

As part of the City's SCADA upgrade A1 for the Kenduskeag Pump Station project, the Kenduskeag East (KE) and Kenduskeag West Regulator (KW) controls were upgraded. At KE and KW new Control Panels with Operator Interface Terminals (OIT) were installed, Programmable Logic Controllers (PLC) were replaced, all existing ultra-sonic level meters were replaced, and new PLC programming was created to more accurately measure and totalize flow during CSO events.

## 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 2020. This work is typically completed in the spring, summer, and fall.

## 4. Annual CSO Progress Report

The City of Bangor monitors flow at each of its CSO outfalls, either through the Supervisory Control and Data Acquisition (SCADA) system, a contract with ADS Environmental Services for electronic flow meters, or visual means. This data was used to prepare the Annual CSO Progress Report for 2019, which was submitted to Maine DEP on February 28, 2020. 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 2020 to Maine DEP by March 1, 2021. A copy of the report will also be submitted to EPA.

# 2020 Annual Report on Compliance

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## **B. Illicit Connections**

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

There were no illicit connections discovered in 2020.

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

There were no illicit connections discovered in 2020.

## **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 710,202 linear feet, or 134.5 miles. The length of the remaining components of the sewer collection system, including interceptors, force mains, siphons, and leads, is approximately 76,972 linear feet, or approximately 14.6 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. The City was fortunate this past year however and was able to contract with the Ted Berry Company to flush the two siphons that connect Kenduskeag East to Kenduskeag West beneath the Kenduskeag Stream. These siphons are approximately 200 feet long and include a 18" ductile Iron pipe and a 16" ductile iron pipe.

There are approximately 3,349 manholes in the collection system, including the 32 new ones added this year.

### **1. CCTV Assessments**

The City and/or its subcontractors completed 92,237 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 91,318 linear feet, or about 13% 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 538 publicly owned sewer collection system manholes in 2020, which is about 16% of the total number of public manholes in the system. This number does not include repeat inspections. Refer to [Appendix B](#) (Manhole Inspection Log) for a complete listing of inspections completed during the reporting period.

# 2020 Annual Report on Compliance

### 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 200,866 linear feet of pipe within the publicly owned sewer collection system in 2020, including repeat cleanings. The total length of pipe cleaned excluding repeat cleanings and additional passes is 105,709 linear feet, or about 14.9% of the inspectable portion (710,202 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)

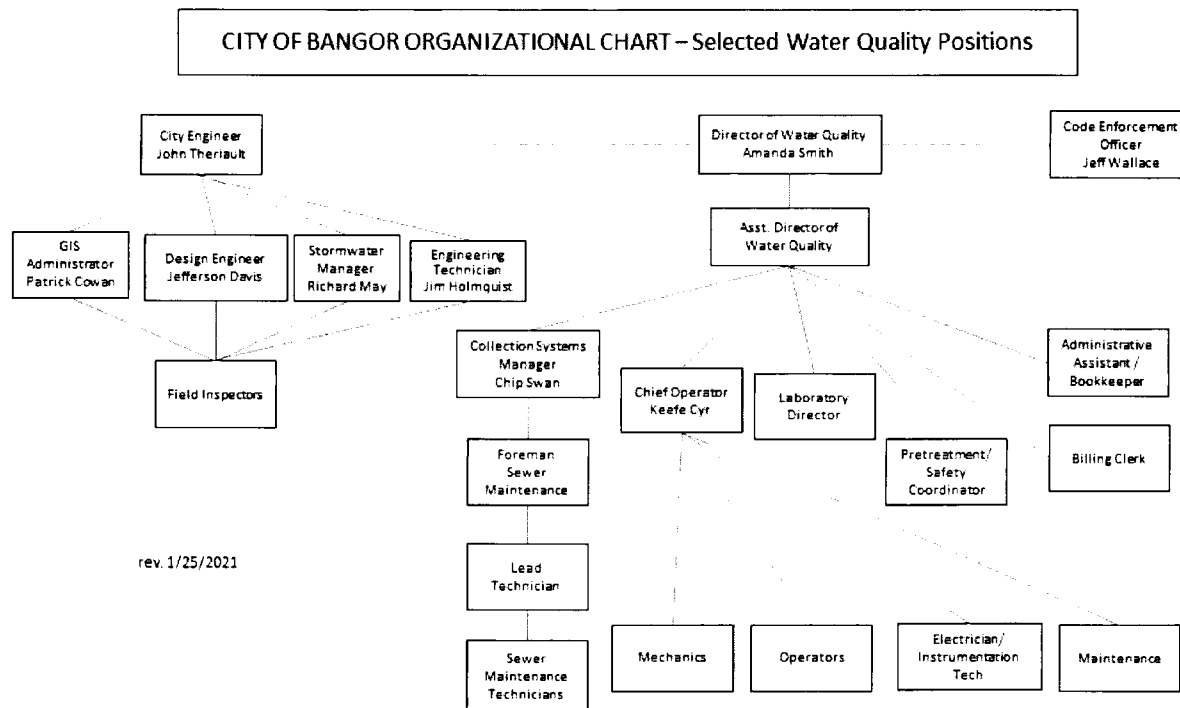
The City revises and updates the MIP on a yearly basis. The following substantive changes were made in 2020.

### 1. Plan Updates

#### a) *Organizational Structure, Information Management, Contacts*

The following is the current organization chart showing key positions.

# 2020 Annual Report on Compliance



## ***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. The City of Bangor inadvertently missed this July submission in 2020 and will provide the required electronic data by February 5, 2021.

## ***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).

## ***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.



# 2020 Annual Report on Compliance

## 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	5
Estimated total volume of SSOs (gallons)	214,025
Number of dry weather SSOs	3
Number of wet weather SSOs	2
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)	1
Number of SSOs caused primarily by pipe failure	0

### b) Routine Cleaning and CCTV Assessment

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

### c) Pump Station Work Orders

There were 55 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 2020 reporting period, the City permitted the installation of eight grease traps including four new grease traps and four replacement grease traps. These grease traps were permitted and inspected through the Bangor City Code Department. The Code Department also permitted two new oil/water separators for recently opened automotive service businesses.

The Bangor City Code Department requires grease trap maintenance logs at time of business license renewal. Currently seven businesses have not provided logs or have provided incomplete logs to the Code Department. At this time, no formal enforcement actions have taken against these businesses. The City Code Department will attempt to work with these businesses in the coming months to get their maintenance logs to meet City requirements prior to initiating enforcement actions.

#### **IV. Sanitary Sewer Overflows (SSOs)**

##### **A. Chronological List of SSOs**

There were five SSOs, including private property backups, that occurred during the reporting period. 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 sewer crews have been conducting CCTV pipe inspections in the Davis Brook, Barkersville, and Kenduskeag West subsections during high groundwater. The CCTV footage and manhole reports are reviewed for quality and completeness. Investigations are approximately 94% complete for Davis Brook subsection, 85% complete for the Barkersville subsection, and approximately 68% complete for the Kenduskeag West subsection.

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

The City has removed an estimated 494,900 GPD of infiltration and inflow from the system since 2015.

<b>Year</b>	<b>No. of Projects</b>	<b>I/I removed (GPD)</b>
2016	1	5,600
2017	3	5,800
2018	1	4,200
2019	3	394,000
2020	*4	*85,300
<b>TOTAL</b>	<b>12</b>	<b>494,900</b>

\*The 2020 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.

# 2020 Annual Report on Compliance

## 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 portions of the cross-country lines and locations in various subsections that have not been completed due to difficulty in accessing.
- 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, 2021.
- Submit the Annual Report for MS4 PY8 to DEP and EPA, due on or before September 15, 2021.
- Continue construction on the Davis Brook CSO Storage Tank within the Davis Brook sewer subsection.
- Complete construction of the Wing Park sewer improvement projects located in the Carr Brook sewer subsection.
- Complete construction and installation of WWTP backup power generator system.
- Continue to update WWTP and collection system SCADA system.

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.

# 2020 Annual Report on Compliance

## Appendices

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

## **Appendix A**

### **CCTV Inspection Log**

# APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
AB017	Arctic Brook	6/26/2020	238.6	Yes	Maintenance Related
AB019A	Arctic Brook	6/26/2020	159.8	Yes	Pre Rehabilitation Survey
AB021	Arctic Brook	12/11/2020	370.7	Yes	Maintenance Related
AB124	Arctic Brook	10/21/2020	46.0	Yes	Pre Rehabilitation Survey
AB124	Arctic Brook	10/21/2020	43.2	Yes	Pre Rehabilitation Survey, Reversal
AB137	Arctic Brook	11/3/2020	268.6	Yes	Post Rehabilitation Survey
AB160	Arctic Brook	12/9/2020	416.5	Yes	Pre Rehabilitation Survey
AB161	Arctic Brook	12/10/2020	85.3	Yes	Pre Rehabilitation Survey after cleaning
AB161	Arctic Brook	12/10/2020	240.3	Yes	Pre Rehabilitation Survey, Reversal after cleaning
AB161	Arctic Brook	10/21/2020	1.0	No	
AB161	Arctic Brook	10/21/2020	73.4	Yes	Pre Rehabilitation Survey, Reversal
AB471	Arctic Brook	11/20/2020	136.8	Yes	Post Rehabilitation Survey
AB506	Arctic Brook	12/18/2020	318.1	Yes	Post Rehabilitation Survey
AB510	Arctic Brook	1/6/2020	356.0	No	
AB510	Arctic Brook	1/6/2020	16.5	No	Reversal
AB560	Arctic Brook	10/22/2020	309.2	Yes	Pre Rehabilitation Survey
AB620	Arctic Brook	11/17/2020	427.1	Yes	Resurvey after cleaning
AB620	Arctic Brook	10/22/2020	347.1	Yes	Pre Rehabilitation Survey
AP012	Airport	9/9/2020	695.5	No	
AP022	Airport	12/11/2020	295.7	Yes	Post Rehabilitation Survey
AP022	Airport	6/26/2020	298.8	No	
AP023	Airport	12/11/2020	295.2	Yes	Post Rehabilitation Survey
AP023	Airport	6/26/2020	115.0	No	
AP023	Airport	6/25/2020	184.0	No	Reversal
AP308	Airport	8/4/2020	264.2	No	
AP311	Airport	9/21/2020	233.8	Yes	Post Rehabilitation Survey
AP370	Airport	9/21/2020	204.3	Yes	Post Rehabilitation Survey
AP371	Airport	9/21/2020	186.0	Yes	Post Rehabilitation Survey
AP372	Airport	9/21/2020	165.8	Yes	Post Rehabilitation Survey
AP373	Airport	9/21/2020	296.2	Yes	Post Rehabilitation Survey
AP374	Airport	9/16/2020	259.5	Yes	Post Rehabilitation Survey
AP380	Airport	9/21/2020	123.6	Yes	Post Rehabilitation Survey
AP390	Airport	9/16/2020	211.6	Yes	Post Rehabilitation Survey
AP409	Airport	12/24/2020	4.4	Yes	Pre Rehabilitation Survey
AP423	Airport	1/13/2020	162.0	No	
AP424	Airport	1/13/2020	212.8	No	
AP707	Airport	12/24/2020	230.3	No	
AP721	Airport	12/31/2020	231.6	Yes	Pre Rehabilitation Survey
AP721	Airport	12/31/2020	1.3	Yes	Pre Rehabilitation Survey, Reversal
AP730	Airport	2/10/2020	245.5	No	
AP742	Airport	2/10/2020	34.0	No	Reversal
AP742	Airport	2/6/2020	292.7	No	
AP743	Airport	2/6/2020	228.6	No	
AP744	Airport	6/17/2020	2.9	Yes	Maintenance Related
AP744	Airport	6/17/2020	125.6	Yes	Resurvey after cleaning
AP744	Airport	4/29/2020	96.1	Yes	Maintenance Related
AP744	Airport	4/29/2020	6.4	No	Reversal
AP744	Airport	2/6/2020	96.3	Yes	Maintenance Related
BS201	Blanchard Street	5/8/2020	253.3	Yes	Maintenance Related
BU018	Burleigh	12/10/2020	119.5	Yes	Pre Rehabilitation Survey

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
BU018	Burleigh	12/10/2020	205.1	No	Reversal
BU503	Burleigh	12/8/2020	251.8	Yes	Pre Rehabilitation Survey
BU505	Burleigh	12/8/2020	150.6	Yes	Pre Rehabilitation Survey
BU506	Burleigh	12/8/2020	290.2	Yes	Pre Rehabilitation Survey
BU510	Burleigh	12/8/2020	365.6	Yes	Pre Rehabilitation Survey
BU512	Burleigh	12/7/2020	404.2	Yes	Pre Rehabilitation Survey
BU514	Burleigh	12/7/2020	246.5	Yes	Pre Rehabilitation Survey
BU530	Burleigh	12/7/2020	298.2	Yes	Pre Rehabilitation Survey
BU532	Burleigh	12/7/2020	184.6	Yes	Pre Rehabilitation Survey
BU533	Burleigh	1/9/2020	112.5	No	
BU560	Burleigh	12/29/2020	110.4	Yes	Pre Rehabilitation Survey
BV003	Barkersville	9/16/2020	496.0	No	
BV040	Barkersville	4/28/2020	41.4	No	
BV065	Barkersville	4/29/2020	161.1	No	
BV104	Barkersville	4/30/2020	119.5	No	Reversal
BV104	Barkersville	4/29/2020	158.3	No	
BV105	Barkersville	4/30/2020	261.5	No	
BV106	Barkersville	4/30/2020	77.0	No	
BV115	Barkersville	4/21/2020	73.0	Yes	Post Rehabilitation Survey
BV139	Barkersville	12/7/2020	42.5	Yes	Pre Rehabilitation Survey
BV139	Barkersville	12/7/2020	256.2	Yes	Pre Rehabilitation Survey, Reversal
BV201	Barkersville	4/28/2020	340.6	No	
BV350	Barkersville	9/30/2020	303.1	Yes	Post Rehabilitation Survey
BV400A	Barkersville	9/25/2020	199.6	Yes	Post Rehabilitation Survey
BV405	Barkersville	2/18/2020	494.5	Yes	Maintenance Related
BV410	Barkersville	9/25/2020	183.0	Yes	Post Rehabilitation Survey
BV420	Barkersville	12/30/2020	256.7	Yes	Pre Rehabilitation Survey
BV440	Barkersville	10/20/2020	228.1	Yes	Post Rehabilitation Survey, Reversal
BV440	Barkersville	10/19/2020	195.8	Yes	Post Rehabilitation Survey
BV440	Barkersville	10/12/2020	212.6	Yes	Post Rehabilitation Survey, Reversal
BV440	Barkersville	10/5/2020	194.5	Yes	Maintenance Related - Locating end of line
BV440	Barkersville	10/2/2020	44.7	Yes	Maintenance Related - Locating end of line
BV530	Barkersville	6/29/2020	247.8	Yes	Post Rehabilitation Survey
BV530	Barkersville	5/12/2020	12.3	Yes	Maintenance Related
BV545	Barkersville	12/31/2020	78.5	Yes	Pre Rehabilitation Survey
BV561	Barkersville	12/22/2020	453.7	Yes	Post Rehabilitation Survey
BV703	Barkersville	12/22/2020	234.1	Yes	Post Rehabilitation Survey
BV703	Barkersville	12/11/2020	227.3	Yes	Post Rehabilitation Survey - Repair
BV704	Barkersville	12/11/2020	364.3	Yes	Post Rehabilitation Survey
BV705	Barkersville	12/21/2020	576.2	Yes	Post Rehabilitation Survey
BV715	Barkersville	12/31/2020	65.4	Yes	Pre Rehabilitation Survey
BV762	Barkersville	12/30/2020	86.1	Yes	Pre Rehabilitation Survey
BV762	Barkersville	12/30/2020	411.7	Yes	Pre Rehabilitation Survey, Reversal
BV765	Barkersville	12/30/2020	299.7	Yes	Pre Rehabilitation Survey
CB113	Carr Brook	12/29/2020	230.8	Yes	Pre Rehabilitation Survey
CB133	Carr Brook	12/29/2020	194.1	Yes	Pre Rehabilitation Survey
CB201C	Carr Brook	1/9/2020	32.0	No	
CB201D	Carr Brook	1/9/2020	13.3	No	
CB211	Carr Brook	6/26/2020	185.1	Yes	Maintenance Related
CB550	Carr Brook	12/8/2020	160.3	Yes	Pre Rehabilitation Survey

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CM009	Cemetery	12/28/2020	136.6	Yes	Pre Rehabilitation Survey
CM009A	Cemetery	10/6/2020	311.7	Yes	Maintenance Related
CM012A	Cemetery	8/21/2020	32.0	Yes	Maintenance Related
CM013	Cemetery	8/21/2020	158.3	Yes	Maintenance Related
CM014	Cemetery	4/7/2020	202.6	No	
CM402	Cemetery	12/17/2020	297.0	Yes	Maintenance Related
CM501	Cemetery	11/23/2020	20.3	No	
DB001	Davis Brook	7/29/2020	88.8	Yes	Maintenance Related
DB002	Davis Brook	7/29/2020	200.6	Yes	Maintenance Related
DB003	Davis Brook	7/27/2020	177.6	Yes	Maintenance Related
DB003	Davis Brook	7/27/2020	79.9	Yes	Maintenance Related, Reversal
DB004	Davis Brook	7/27/2020	38.0	Yes	Maintenance Related
DB008A	Davis Brook	3/16/2020	30.2	Yes	Pre-blast survey
DB016	Davis Brook	3/24/2020	54.0	Yes	Maintenance Related
DB017	Davis Brook	10/13/2020	223.6	Yes	Post Rehabilitation Survey
DB024A	Davis Brook	3/30/2020	1.5	No	Maintenance Related, Reversal
DB025	Davis Brook	2/4/2020	335.5	Yes	Maintenance Related
DB110A	Davis Brook	4/24/2020	2.5	No	
DB120A	Davis Brook	6/29/2020	304.2	Yes	Post Rehabilitation Survey
DB120B	Davis Brook	9/10/2020	299.1	Yes	Post Rehabilitation Survey
DB120B	Davis Brook	6/29/2020	53.9	No	
DB120C	Davis Brook	6/29/2020	88.5	No	
DB120R06	Davis Brook	5/6/2020	23.2	No	
DB121	Davis Brook	6/29/2020	13.8	No	
DB122	Davis Brook	6/29/2020	32.5	No	
DB123	Davis Brook	6/29/2020	163.1	No	
DB124	Davis Brook	6/29/2020	100.9	No	
DB128	Davis Brook	4/8/2020	35.5	No	
DB250	Davis Brook	12/22/2020	325.8	Yes	Post Rehabilitation Survey
DB303	Davis Brook	4/21/2020	283.2	Yes	Resurvey after cleaning
DB304A	Davis Brook	7/29/2020	99.5	Yes	Resurvey after cleaning, Reversal
DB304A	Davis Brook	7/27/2020	78.6	No	
DB304B	Davis Brook	8/3/2020	470.2	Yes	Resurvey after cleaning
DB304B	Davis Brook	7/30/2020	257.6	Yes	Resurvey after cleaning
DB304B	Davis Brook	7/27/2020	51.9	No	
DB304B	Davis Brook	4/24/2020	8.6	No	Reversal
DB305	Davis Brook	7/23/2020	121.3	Yes	Post Rehabilitation Survey
DB305A	Davis Brook	7/23/2020	206.0	Yes	Post Rehabilitation Survey
DB306	Davis Brook	4/22/2020	635.7	No	
DB310	Davis Brook	4/24/2020	15.8	No	
DB362	Davis Brook	12/16/2020	154.8	Yes	Post Rehabilitation Survey
DB362	Davis Brook	11/20/2020	180.3	Yes	Maintenance Related
DB362	Davis Brook	10/20/2020	155.0	Yes	Maintenance Related
DB362	Davis Brook	10/19/2020	180.0	Yes	Post Rehabilitation Survey
DB362	Davis Brook	9/10/2020	180.0	Yes	Post Rehabilitation Survey
DB362	Davis Brook	4/23/2020	13.8	No	Reversal
DB400	Davis Brook	3/16/2020	140.1	Yes	Pre-blast survey
DB401	Davis Brook	3/16/2020	81.8	Yes	Pre-blast survey
DB402	Davis Brook	3/16/2020	53.2	Yes	Pre-blast survey
DB403	Davis Brook	3/16/2020	239.0	Yes	Pre-blast survey



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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
DB403A	Davis Brook	3/16/2020	24.6	Yes	Pre-blast survey
DB403B	Davis Brook	3/17/2020	10.3	Yes	Pre-blast survey
DB404	Davis Brook	3/17/2020	152.3	Yes	Pre-blast Survey
DB405	Davis Brook	3/17/2020	105.0	Yes	Pre-blast survey
DB407	Davis Brook	8/10/2020	276.0	Yes	Maintenance Related
DB421	Davis Brook	12/31/2020	6.8	Yes	Pre Rehabilitation Survey, Reversal
DB421	Davis Brook	12/31/2020	190.5	Yes	Pre Rehabilitation Survey
DB527	Davis Brook	4/23/2020	28.6	No	
DB528	Davis Brook	4/23/2020	436.0	No	
DB550	Davis Brook	4/22/2020	139.1	No	
DB600	Davis Brook	10/13/2020	122.0	Yes	Post Rehabilitation Survey
DB600A	Davis Brook	10/13/2020	376.7	No	
DB605	Davis Brook	10/20/2020	56.9	No	Reversal
DB605	Davis Brook	10/19/2020	5.5	Yes	Post Rehabilitation Survey
DB611A	Davis Brook	7/23/2020	81.8	No	
DB612	Davis Brook	7/23/2020	285.5	Yes	Post Rehabilitation Survey
DB625	Davis Brook	10/20/2020	5.5	Yes	Post Rehabilitation Survey
DB630	Davis Brook	10/20/2020	2.2	Yes	Post Rehabilitation Survey
DB700	Davis Brook	10/13/2020	9.5	No	
DB700A	Davis Brook	10/13/2020	9.6	No	
DB705A	Davis Brook	4/8/2020	0.3	No	
DB730	Davis Brook	4/23/2020	3.5	Yes	Maintenance Related
DB804	Davis Brook	5/15/2020	319.8	Yes	Resurvey after cleaning
DB804	Davis Brook	3/30/2020	324.6	Yes	Maintenance Related
DB825	Davis Brook	12/22/2020	355.5	Yes	Post Rehabilitation Survey
DB850A	Davis Brook	12/7/2020	193.3	Yes	Pre Rehabilitation Survey
DB900	Davis Brook	12/30/2020	234.3	Yes	Pre Rehabilitation Survey
DB915	Davis Brook	12/23/2020	398.3	Yes	Post Rehabilitation Survey
DB916	Davis Brook	12/16/2020	201.6	Yes	Pre Rehabilitation Survey
DB950	Davis Brook	12/23/2020	107.9	Yes	Post Rehabilitation Survey
DB951	Davis Brook	12/18/2020	547.7	Yes	Post Rehabilitation Survey
DB965	Davis Brook	5/4/2020	5.6	No	
DB966	Davis Brook	5/4/2020	79.3	No	
DB967	Davis Brook	5/4/2020	121.5	No	
DB968	Davis Brook	5/4/2020	76.1	No	
DB969	Davis Brook	5/4/2020	157.0	No	
DB970	Davis Brook	5/4/2020	31.0	No	
DB974	Davis Brook	7/27/2020	52.0	Yes	Maintenance Related
DB974	Davis Brook	5/4/2020	52.2	No	
DW090	Dow	10/9/2020	317.2	Yes	Maintenance Related
DW090	Dow	7/29/2020	312.2	Yes	Maintenance Related
DW090	Dow	5/12/2020	303.3	No	
DW091	Dow	10/9/2020	392.5	Yes	Maintenance Related
DW091	Dow	5/12/2020	392.7	No	
DW209	Dow	12/9/2020	166.5	Yes	Pre Rehabilitation Survey
DW303	Dow	9/24/2020	197.0	No	
DW304	Dow	9/24/2020	207.0	No	
DW305	Dow	9/22/2020	255.5	No	
DW306	Dow	9/22/2020	249.1	No	
DW307	Dow	9/22/2020	339.3	No	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
DW308	Dow	9/22/2020	339.5	No	
DW351	Dow	9/24/2020	168.0	No	
DW400	Dow	12/9/2020	7.1	Yes	Pre Rehabilitation Survey, Reversal
DW400	Dow	11/23/2020	356.3	Yes	Pre Rehabilitation Survey
DW401	Dow	9/24/2020	225.6	Yes	Maintenance Related
DW450	Dow	12/10/2020	165.6	Yes	Pre Rehabilitation Survey
DW551	Dow	9/23/2020	58.5	No	
DW552	Dow	9/23/2020	276.2	No	
DW553	Dow	9/23/2020	325.0	No	
DW554	Dow	9/23/2020	56.0	No	
DW615	Dow	1/13/2020	225.8	No	
DW616	Dow	1/13/2020	82.0	No	
DW617	Dow	1/13/2020	237.6	No	
DW650	Dow	7/21/2020	371.7	Yes	Post Rehabilitation Survey
ES001	Everett Street	2/20/2020	4.5	No	
ES005	Everett Street	2/20/2020	73.6	No	
ES006	Everett Street	1/7/2020	16.0	No	
ES007	Everett Street	1/7/2020	180.1	No	
ES008	Everett Street	1/7/2020	162.1	No	
ES203	Everett Street	2/20/2020	59.7	No	
FS009	Fourteenth Street	2/24/2020	155.1	No	
FS010	Fourteenth Street	2/21/2020	248.8	No	
FS012	Fourteenth Street	2/21/2020	238.5	No	
FS013	Fourteenth Street	2/21/2020	218.0	No	
HK022	Hancock Street	12/31/2020	44.0	Yes	Pre Rehabilitation Survey
HK071	Hancock Street	12/29/2020	63.2	Yes	Pre Rehabilitation Survey
HK525	Hancock Street	12/21/2020	89.0	Yes	maintenance Related
HP231	Hildreth Perry	3/4/2020	11.5	No	
HP235	Hildreth Perry	8/10/2020	48.4	Yes	Maintenance Related
HP236	Hildreth Perry	8/10/2020	140.3	Yes	Maintenance Related
HP236	Hildreth Perry	3/4/2020	137.6	No	
HP238	Hildreth Perry	8/10/2020	82.0	Yes	Maintenance Related
HP238	Hildreth Perry	3/4/2020	78.6	No	
HP239	Hildreth Perry	8/10/2020	14.3	No	Reversal
HP239	Hildreth Perry	3/3/2020	64.5	No	
HP402	Hildreth Perry	3/4/2020	173.3	No	
HP403	Hildreth Perry	3/4/2020	125.0	No	
HP413	Hildreth Perry	3/6/2020	224.8	No	
HP414	Hildreth Perry	3/6/2020	135.8	Yes	Resurvey after cleaning
HP414	Hildreth Perry	3/5/2020	110.5	No	
HP415	Hildreth Perry	3/5/2020	69.1	No	
HP415	Hildreth Perry	3/5/2020	65.8	No	Reversal
HP418	Hildreth Perry	3/5/2020	345.5	No	
HP461	Hildreth Perry	9/30/2020	11.8	No	
HP470	Hildreth Perry	9/30/2020	333.7	No	
HP493	Hildreth Perry	9/30/2020	272.0	No	
HP500	Hildreth Perry	3/18/2020	191.5	No	
HP501	Hildreth Perry	3/18/2020	257.2	No	
HP951	Hildreth Perry	8/10/2020	393.6	Yes	Maintenance Related
HS006	Husson	12/28/2020	184.6	Yes	Pre Rehabilitation Survey

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KE008	Kenduskeag East	12/28/2020	157.5	Yes	Pre Rehabilitation Survey
KE100	Kenduskeag East	4/27/2020	223.6	No	
KE150	Kenduskeag East	4/27/2020	109.1	No	
KE197	Kenduskeag East	4/27/2020	53.0	No	
KE250	Kenduskeag East	12/10/2020	178.5	Yes	Pre Rehabilitation Survey
KE250	Kenduskeag East	12/10/2020	30.7	No	Reversal
KE360	Kenduskeag East	4/28/2020	88.4	No	
KE360A	Kenduskeag East	4/28/2020	1.7	No	
KI014	Kenduskeag Interceptor	10/28/2020	406.7	No	
KI097	Kenduskeag Interceptor	9/29/2020	472.3	No	
KI098	Kenduskeag Interceptor	9/29/2020	201.1	No	
KI100	Kenduskeag Interceptor	9/29/2020	332.7	No	
KW001	Kenduskeag West	4/21/2020	93.8	No	
KW002	Kenduskeag West	4/22/2020	47.7	No	
KW060	Kenduskeag West	4/22/2020	31.1	No	
KW060A	Kenduskeag West	4/22/2020	86.9	No	
KW091	Kenduskeag West	5/12/2020	11.6	No	
KW106	Kenduskeag West	3/23/2020	20.2	No	
KW160	Kenduskeag West	12/10/2020	144.6	Yes	Pre Rehabilitation Survey
KW180	Kenduskeag West	3/23/2020	14.1	No	
KW180	Kenduskeag West	3/23/2020	211.6	No	Reversal
KW180A	Kenduskeag West	3/23/2020	35.2	No	
KW204	Kenduskeag West	4/28/2020	15.3	No	Reversal
KW204	Kenduskeag West	4/27/2020	40.7	No	
KW205	Kenduskeag West	4/27/2020	215.6	No	
KW206	Kenduskeag West	4/27/2020	205.1	No	
KW207	Kenduskeag West	4/23/2020	134.1	No	
KW208	Kenduskeag West	4/28/2020	28.1	No	
KW280	Kenduskeag West	4/22/2020	159.3	No	
KW281	Kenduskeag West	4/22/2020	164.3	Yes	SSES
KW301	Kenduskeag West	9/9/2020	94.3	Yes	Maintenance Related
KW301	Kenduskeag West	7/31/2020	8.3	Yes	Maintenance Related
KW301A	Kenduskeag West	7/17/2020	16.7	No	
KW302A	Kenduskeag West	4/21/2020	18.0	No	
KW303	Kenduskeag West	4/21/2020	59.5	No	
KW304	Kenduskeag West	3/18/2020	82.5	No	
KW304A	Kenduskeag West	4/28/2020	81.5	No	
KW370	Kenduskeag West	4/21/2020	8.5	No	
KW381	Kenduskeag West	6/29/2020	21.6	No	
KW382	Kenduskeag West	6/29/2020	70.9	No	
KW383	Kenduskeag West	12/3/2020	225.3	Yes	Maintenance Related, Reversal
KW383	Kenduskeag West	6/29/2020	225.6	No	
KW385	Kenduskeag West	6/29/2020	16.2	No	
KW386	Kenduskeag West	12/3/2020	173.8	Yes	Maintenance Related
KW386	Kenduskeag West	6/29/2020	173.0	No	
KW400	Kenduskeag West	7/8/2020	176.8	No	
KW447	Kenduskeag West	4/21/2020	166.1	No	
KW448	Kenduskeag West	7/8/2020	7.0	No	
KW449	Kenduskeag West	7/8/2020	21.0	No	
KW450	Kenduskeag West	7/9/2020	9.3	No	

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KW451	Kenduskeag West	7/16/2020	16.6	Yes	Resurvey after cleaning
KW451	Kenduskeag West	7/9/2020	9.6	No	
KW452	Kenduskeag West	7/9/2020	0.0	No	
KW500	Kenduskeag West	8/21/2020	70.6	No	
KW501	Kenduskeag West	7/9/2020	24.2	No	
KW502	Kenduskeag West	9/9/2020	215.8	Yes	Post Rehabilitation Survey, Reversal
KW502	Kenduskeag West	7/14/2020	221.0	Yes	Resurvey after cleaning
KW502	Kenduskeag West	7/7/2020	18.7	No	
KW600	Kenduskeag West	3/17/2020	1.1	No	
KW601	Kenduskeag West	3/17/2020	14.6	No	
KW602	Kenduskeag West	3/13/2020	69.8	No	
KW603	Kenduskeag West	3/13/2020	57.5	No	
KW604	Kenduskeag West	3/13/2020	22.0	No	
KW605	Kenduskeag West	3/18/2020	80.0	No	Reversal
KW605	Kenduskeag West	3/13/2020	131.8	No	
KW605	Kenduskeag West	3/13/2020	86.9	No	Started counting again after 131.8' inspection
KW605	Kenduskeag West	3/13/2020	228.3	Yes	Resurvey after cleaning
KW650	Kenduskeag West	3/18/2020	18.7	No	
KW651	Kenduskeag West	3/13/2020	39.9	No	
KW652	Kenduskeag West	3/18/2020	55.2	No	
KW653	Kenduskeag West	3/12/2020	177.1	No	
KW654	Kenduskeag West	3/11/2020	46.5	No	
KW655	Kenduskeag West	3/11/2020	116.5	No	
KW656	Kenduskeag West	3/11/2020	67.4	No	
KW657	Kenduskeag West	3/11/2020	129.0	No	
KW658	Kenduskeag West	3/11/2020	56.0	No	
KW659	Kenduskeag West	3/11/2020	161.0	No	
KW660	Kenduskeag West	3/11/2020	1.8	No	
KW701	Kenduskeag West	3/11/2020	94.5	No	
KW702	Kenduskeag West	3/11/2020	86.5	No	
KW703	Kenduskeag West	3/11/2020	146.6	No	
KW705	Kenduskeag West	3/12/2020	11.0	No	
KW706	Kenduskeag West	3/12/2020	227.0	No	
KW750	Kenduskeag West	3/18/2020	28.7	No	Reversal
KW750	Kenduskeag West	3/12/2020	0.0	No	
KW940	Kenduskeag West	4/23/2020	18.7	No	
KW941	Kenduskeag West	4/23/2020	18.5	No	
KW950	Kenduskeag West	7/16/2020	2.4	No	
KW950	Kenduskeag West	7/16/2020	94.5	Yes	Resurvey after cleaning
KW999	Kenduskeag West	4/23/2020	23.7	No	
LI099	Kenduskeag Interceptor	9/29/2020	245.0	No	
MB005	Meadowbrook	3/30/2020	146.6	No	
MB006	Meadowbrook	3/30/2020	229.5	No	
MB007	Meadowbrook	3/30/2020	190.1	No	
MB016	Meadowbrook	1/7/2020	21.7	No	
MB045	Meadowbrook	3/5/2020	143.6	No	
MB046	Meadowbrook	3/5/2020	249.6	No	
MB047	Meadowbrook	3/13/2020	128.8	No	
MB050	Meadowbrook	1/9/2020	16.5	No	
MB075	Meadowbrook	3/5/2020	0.2	No	

# 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
MB100	Meadowbrook	1/6/2020	13.3	No	
MB101	Meadowbrook	1/6/2020	16.1	No	
MB102	Meadowbrook	3/6/2020	92.0	No	
MB103	Meadowbrook	3/6/2020	164.5	No	
MB220	Meadowbrook	3/4/2020	28.3	No	
MB221	Meadowbrook	3/19/2020	121.5	No	
MB222	Meadowbrook	2/27/2020	108.0	No	
MB262	May Street	12/10/2020	226.1	No	
MB263	Meadowbrook	12/10/2020	292.2	Yes	Pre Rehabilitation Survey
MB264	Meadowbrook	12/11/2020	122.6	No	
MB328	Meadowbrook	2/27/2020	2.7	No	
MB335	Meadowbrook	3/4/2020	45.2	No	
MB345	Meadowbrook	2/27/2020	391.7	No	
MB365	Meadowbrook	4/9/2020	90.1	No	
MB366	Meadowbrook	12/9/2020	131.5	Yes	Pre Rehabilitation Survey
MB367	Meadowbrook	12/9/2020	95.3	Yes	Pre Rehabilitation Survey
MB404	Meadowbrook	1/7/2020	16.6	Yes	
MB405	Meadowbrook	1/8/2020	112.0	No	Reversal
MB405	Meadowbrook	1/7/2020	219.6	No	
MB420	Meadowbrook	2/28/2020	81.5	No	
MB450	Meadowbrook	4/2/2020	131.1	No	
MB476	Meadowbrook	4/3/2020	237.8	Yes	Resurvey, needed smaller equipment
MB476	Meadowbrook	4/3/2020	6.5	No	Reversal
MB476	Meadowbrook	4/2/2020	158.8	No	
MB509	Meadowbrook	12/9/2020	189.8	Yes	Pre Rehabilitation Survey
MB519	Meadowbrook	4/3/2020	115.9	No	
MB521	Meadowbrook	3/31/2020	111.3	No	
MB551	Meadowbrook	12/8/2020	277.5	Yes	Pre Rehabilitation Survey
MB575	Meadowbrook	2/28/2020	212.8	No	
MB576	Meadowbrook	2/28/2020	327.2	No	
MB660	Meadowbrook	4/3/2020	1.2	No	
MB735	Meadowbrook	4/3/2020	0.0	No	
MB754	Meadowbrook	3/3/2020	271.0	No	
MB756	Meadowbrook	3/3/2020	39.0	No	
MB809	Meadowbrook	1/9/2020	153.3	No	
MB809A	Meadowbrook	1/9/2020	46.7	No	
MB811	Meadowbrook	1/10/2020	369.7	Yes	Maintenance Related
MB851	Meadowbrook	3/19/2020	422.2	No	
MB853	Meadowbrook	2/28/2020	257.6	No	
MB854	Meadowbrook	3/3/2020	413.1	No	
MB870	Meadowbrook	2/28/2020	142.6	No	
MB900	Meadowbrook	3/13/2020	161.8	No	
MB910	Meadowbrook	3/2/2020	255.3	No	
MB911	Meadowbrook	3/2/2020	142.6	No	
MB912	Meadowbrook	3/4/2020	66.8	No	
MB913	Meadowbrook	3/4/2020	251.0	No	
MB914	Meadowbrook	3/4/2020	255.3	No	
MB925	Meadowbrook	3/2/2020	256.0	No	
MB956	Meadowbrook	6/8/2020	323.6	Yes	Post Rehabilitation Survey
MB961	Meadowbrook	3/12/2020	183.5	Yes	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
MB966	Meadowbrook	8/31/2020	181.1	Yes	Maintenance Related
MB975	Meadowbrook	4/2/2020	149.8	No	
MB980	Meadowbrook	4/2/2020	202.3	No	
MB982	Meadowbrook	4/3/2020	166.5	No	
MY002A	May Street	7/21/2020	342.2	No	
MY10A	May Street	7/21/2020	154.0	No	
OC001	Old Capehart	9/28/2020	178.6	No	
OC002	Old Capehart	9/28/2020	135.6	No	
OC003	Old Capehart	9/28/2020	20.2	No	
OC004	Old Capehart	9/28/2020	274.6	No	
OC005	Old Capehart	9/28/2020	298.5	No	
OC007	Old Capehart	9/28/2020	131.3	No	
OC008	Old Capehart	9/28/2020	293.3	No	
OC009	Old Capehart	7/22/2020	193.3	No	
OC010	Old Capehart	7/22/2020	167.6	Yes	Cross country inspections
OC011	Old Capehart	7/22/2020	298.6	Yes	Cross country inspections
OC201	Old Capehart	12/28/2020	255.0	Yes	Pre Rehabilitation Survey
OC480	Old Capehart	12/10/2020	254.0	Yes	Pre Rehabilitation Survey
OC500	Old Capehart	7/15/2020	237.1	Yes	Maintenance Related
OC601	Old Capehart	12/10/2020	291.2	Yes	Pre Rehabilitation Survey
OC602	Old Capehart	1/23/2020	307.3	No	
PI016	Penobscot Interceptor	4/17/2020	275.8	No	
PI017	Penobscot Interceptor	4/17/2020	255.1	Yes	Resurvey after cleaning
PI017	Penobscot Interceptor	4/16/2020	205.1	No	
PI018	Penobscot Interceptor	4/16/2020	225.3	No	
PI019	Penobscot Interceptor	4/16/2020	121.6	No	
PI020	Penobscot Interceptor	4/16/2020	153.5	No	
PI021	Penobscot Interceptor	4/8/2020	20.3	No	
PI021	Penobscot Interceptor	4/8/2020	215.0	No	Resurvey after cleaning
PI022	Penobscot Interceptor	4/8/2020	263.2	No	
PI023	Penobscot Interceptor	4/8/2020	193.6	No	
PI024	Penobscot Interceptor	4/8/2020	283.8	No	
PI025	Penobscot Interceptor	4/8/2020	225.3	No	
PJ001	Penjawoc	1/29/2020	336.2	No	
PJ002	Penjawoc	1/29/2020	153.6	No	
PJ004	Penjawoc	2/4/2020	89.0	No	
PJ005	Penjawoc	2/4/2020	89.0	No	
PJ006	Penjawoc	2/4/2020	137.1	No	
PJ007	Penjawoc	2/3/2020	364.6	No	
PJ009	Penjawoc	2/3/2020	121.5	No	
PJ010	Penjawoc	2/3/2020	119.1	No	
PJ012	Penjawoc	3/3/2020	291.2	No	
PJ037	Penjawoc	1/31/2020	162.3	No	
PJ041	Penjawoc	1/31/2020	318.2	No	
PJ057	Penjawoc	1/30/2020	42.4	No	
PJ100	Penjawoc	1/29/2020	255.3	No	
PJ109	Penjawoc	1/28/2020	272.6	No	
PJ110	Penjawoc	1/28/2020	282.7	No	
PJ111	Penjawoc	2/13/2020	44.2	No	
PJ112	Penjawoc	2/12/2020	364.7	No	

# APPENDIX A: CCTV INSPECTION LOG

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
PJ113	Penjajawoc	1/29/2020	263.2	No	
PJ114	Penjajawoc	1/9/2020	101.0	No	
PJ152	Penjajawoc	1/28/2020	300.5	Yes	Resurvey after cleaning
PJ153	Penjajawoc	1/28/2020	196.5	Yes	Resurvey after cleaning
PJ200	Penjajawoc	2/3/2020	85.9	No	
PJ201	Penjajawoc	2/3/2020	330.6	No	
PJ202	Penjajawoc	1/31/2020	208.3	No	
PJ203	Penjajawoc	1/30/2020	251.1	No	
PJ204	Penjajawoc	1/30/2020	15.3	No	
PJ205	Penjajawoc	2/27/2020	254.3	Yes	Resurvey after cleaning, Reversal
PJ205	Penjajawoc	1/30/2020	224.3	No	
PJ205A	Penjajawoc	2/25/2020	100.4	No	
PJ206	Penjajawoc	1/30/2020	210.1	No	
PJ207	Penjajawoc	1/30/2020	346.7	No	
PJ208	Penjajawoc	1/30/2020	392.2	No	
PJ227	Penjajawoc	2/13/2020	299.2	No	
PJ228	Penjajawoc	2/13/2020	316.0	No	
PJ229	Penjajawoc	2/13/2020	204.8	No	
PJ250	Penjajawoc	3/2/2020	45.5	No	
PJ251	Penjajawoc	3/2/2020	9.5	No	Reversal
PJ251	Penjajawoc	2/28/2020	400.1	No	
PJ300	Penjajawoc	2/27/2020	322.6	No	
PJ401	Penjajawoc	3/2/2020	87.9	No	
PJ402	Penjajawoc	3/2/2020	94.0	No	
PJ403	Penjajawoc	3/2/2020	12.8	No	
PJ520	Penjajawoc	3/19/2020	167.6	No	
PJ530	Penjajawoc	2/28/2020	357.7	No	
PJ540	Penjajawoc	2/13/2020	172.8	Yes	Resurvey due to equipment failure
PJ540	Penjajawoc	1/14/2020	176.0	No	
PJ541	Penjajawoc	1/14/2020	268.2	No	
PJ558	Penjajawoc	3/2/2020	70.4	No	
PJ559	Penjajawoc	1/14/2020	176.6	No	
PJ560	Penjajawoc	1/14/2020	179.8	No	
PJ561	Penjajawoc	1/14/2020	325.7	No	
PJ562	Penjajawoc	1/14/2020	95.5	No	
PJ570	Penjajawoc	3/2/2020	168.3	No	
PJ575	Penjajawoc	11/20/2020	232.6	Yes	Maintenance Related
PJ575	Penjajawoc	2/14/2020	228.6	No	
PJ576	Penjajawoc	11/20/2020	156.3	Yes	Maintenance Related
PJ760	Penjajawoc	2/14/2020	41.9	No	
PJ901	Penjajawoc	2/28/2020	48.5	No	
PJ901A	Penjajawoc	2/27/2020	50.2	No	
PJ902	Penjajawoc	2/27/2020	302.7	No	
PJ903	Penjajawoc	2/28/2020	310.7	No	
PJ904	Penjajawoc	2/12/2020	199.3	No	
PJ905	Penjajawoc	2/12/2020	316.5	No	
PJ916	Penjajawoc	2/12/2020	229.6	No	
PJ917	Penjajawoc	2/12/2020	230.1	No	
PJ918	Penjajawoc	2/12/2020	134.1	No	
PJ934	Penjajawoc	2/12/2020	247.1	No	

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
PJ935	Penjawoc	2/12/2020	244.1	No	
PJ971	Penjawoc	3/2/2020	212.0	No	
SL003	Strickland	3/12/2020	299.2	No	
SL004	Strickland	3/12/2020	349.0	No	
SL050	Strickland	3/12/2020	58.0	No	
SL051	Strickland	3/12/2020	299.2	No	
SL052	Strickland	3/12/2020	296.8	No	
SL053	Strickland	3/12/2020	95.3	No	
WL099	Woodlawn	6/16/2020	74.3	Yes	Resurvey after cleaning
WL099	Woodlawn	6/15/2020	46.2	No	
WL100A	Woodlawn	6/15/2020	270.2	Yes	Maintenance Related
WL100A	Woodlawn	5/7/2020	7.5	Yes	Resurvey after cleaning, Reversal
WL100A	Woodlawn	5/1/2020	3.4	No	
WL100A	Woodlawn	5/1/2020	1.5	No	Reversal
WL100A	Woodlawn	5/1/2020	319.8	Yes	Resurvey after cleaning
WL101A	Woodlawn	5/1/2020	0.0	No	
WL107	Woodlawn	1/8/2020	416.0	No	
WL121	Woodlawn	5/7/2020	63.9	No	
WL200	Woodlawn	5/8/2020	156.6	No	Reversal
WL200	Woodlawn	5/7/2020	37.7	No	
WL201	Woodlawn	1/8/2020	31.8	No	
WL201	Woodlawn	1/8/2020	260.8	No	Reversal
WL450	Woodlawn	4/21/2020	303.6	Yes	Maintenance Related
WL451	Woodlawn	4/21/2020	235.0	Yes	Maintenance Related
WL510	Woodlawn	2/24/2020	46.7	No	
WL532	Woodlawn	2/20/2020	348.6	No	
WL600	Woodlawn	12/24/2020	228.3	Yes	Pre Rehabilitation Survey
WS008	Westland	4/7/2020	220.8	No	
WS009	Westland	4/7/2020	35.2	No	
WS101	Westland	4/6/2020	299.0	No	
WS102	Westland	4/6/2020	299.0	No	
WS103	Westland	4/6/2020	300.7	No	
WS104	Westland	4/6/2020	268.1	No	
WS104	Westland	4/6/2020	1.3	No	Reversal
WS105	Westland	4/6/2020	300.0	No	
WS106	Westland	4/8/2020	240.6	No	Reversal
WS106	Westland	4/6/2020	61.2	No	
WS107	Westland	4/8/2020	209.6	No	
WS200	Westland	4/7/2020	83.5	No	
WS207	Westland	9/30/2020	325.0	Yes	Resurvey, needed smaller equipment
WS207	Westland	9/29/2020	170.5	No	
WS208	Westland	9/25/2020	415.3	No	
WS208	Westland	9/25/2020	92.3	No	Reversal
<b>Total Feet</b>			<b>91317.7</b>		
<b>Total Miles</b>			<b>17.3</b>		



**Appendix B**

**Manhole Inspection Log**

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
AB018	Arctic Brook	7/1/2020		
AB019	Arctic Brook	7/1/2020		
AB137	Arctic Brook	11/3/2020		
AB507	Arctic Brook	2/20/2020		
AP312	Airport	9/21/2020		
AP371	Airport	9/21/2020		
AP374	Airport	9/21/2020		
AP380	Airport	9/21/2020		
AP390	Airport	9/21/2020		
AP423	Airport	1/13/2020		
AP703	Airport	2/10/2020		
AP735	Airport	2/10/2020		
AP744	Airport	2/10/2020		
AP745	Airport	2/10/2020		
BU001	Burleigh	1/9/2020		
BU007	Burleigh	1/14/2020		
BU008	Burleigh	1/14/2020		
BU009	Burleigh	1/14/2020		
BU010	Burleigh	1/14/2020		
BU030	Burleigh	1/14/2020		
BU031	Burleigh	1/14/2020		
BV530	Barkersville	7/1/2020		
DB120	Davis Brook	9/11/2020		
DB120A	Davis Brook	7/2/2020		
DB120B	Davis Brook	7/2/2020		
DB120C	Davis Brook	7/2/2020		
DB121	Davis Brook	7/2/2020		
DB122	Davis Brook	7/2/2020		
DB123	Davis Brook	7/2/2020		
DB124	Davis Brook	7/2/2020		
DB304B	Davis Brook	9/11/2020		
DB305	Davis Brook	9/11/2020		
DW615	Dow	1/13/2020		
EP025	Meadowbrook	3/26/2020		
ES001	Everett Street	1/14/2020		
ES005	Everett Street	2/20/2020		
FS008	Fourteenth Street	2/24/2020		
FS009	Fourteenth Street	2/24/2020		
FS010	Fourteenth Street	2/24/2020		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
FS011	Fourteenth Street	2/24/2020		
FS012	Fourteenth Street	2/24/2020		
FS013	Fourteenth Street	2/24/2020		
HK005	Hancock	2/24/2020		
HK006	Hancock	2/24/2020		
HP060	Hildreth Perry	2/4/2020		
HP227	Hildreth Perry	2/5/2020		
HP231	Hildreth Perry	2/5/2020		
HP232	Hildreth Perry	2/5/2020		
HP234	Hildreth Perry	2/5/2020		
HP235	Hildreth Perry	2/5/2020		
HP236	Hildreth Perry	2/5/2020		
HP237	Hildreth Perry	2/5/2020		
HP238	Hildreth Perry	2/5/2020		
HP400	Hildreth Perry	2/4/2020		
HP401	Hildreth Perry	2/4/2020		
HP402	Hildreth Perry	2/4/2020		
HP403	Hildreth Perry	2/4/2020		
HP404	Hildreth Perry	2/4/2020		
HP405	Hildreth Perry	2/4/2020		
HP409	Hildreth Perry	2/5/2020		
HP410	Hildreth Perry	2/4/2020		
HP411	Hildreth Perry	2/5/2020		
HP412	Hildreth Perry	3/6/2020		
HP413	Hildreth Perry	2/4/2020		
HP414	Hildreth Perry	2/4/2020		
HP415	Hildreth Perry	2/4/2020		
HP416	Hildreth Perry	2/4/2020		
HP417	Hildreth Perry	2/4/2020		
HP418	Hildreth Perry	2/4/2020		
HP435	Hildreth Perry	2/5/2020		
HP450	Hildreth Perry	2/3/2020		
HP451	Hildreth Perry	2/3/2020		
HP452	Hildreth Perry	2/3/2020		
HP453	Hildreth Perry	2/5/2020		
HP454	Hildreth Perry	2/4/2020		
HP455	Hildreth Perry	2/5/2020		
HP456	Hildreth Perry	2/5/2020		
HP457	Hildreth Perry	2/5/2020		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
HP458	Hildreth Perry	2/5/2020		
HP459	Hildreth Perry	2/5/2020		
HP460	Hildreth Perry	2/4/2020		
HP461	Hildreth Perry	2/4/2020		
HP462	Hildreth Perry	2/5/2020		
HP463	Hildreth Perry	2/5/2020		
HP464	Hildreth Perry	2/5/2020		
HP470	Hildreth Perry	2/4/2020		
HP471	Hildreth Perry	2/4/2020		
HP485	Hildreth Perry	2/4/2020		
HP486	Hildreth Perry	2/4/2020		
HP490	Hildreth Perry	2/4/2020		
HP493	Hildreth Perry	2/4/2020		
HP500	Hildreth Perry	2/4/2020		
HP501	Hildreth Perry	2/4/2020		
HP510	Hildreth Perry	2/3/2020		
HP511	Hildreth Perry	2/3/2020		
HP512	Hildreth Perry	2/3/2020		
HP552	Hildreth Perry	2/6/2020		
HP554	Hildreth Perry	2/6/2020		
HP555	Hildreth Perry	2/6/2020		
HP555A	Hildreth Perry	2/28/2020		
HP557	Hildreth Perry	2/28/2020		
HP558	Hildreth Perry	2/28/2020		
HP560	Hildreth Perry	2/28/2020		
HP563A	Hildreth Perry	2/27/2020		
HP590	Hildreth Perry	2/6/2020		
HP601	Hildreth Perry	2/3/2020		
HP602	Hildreth Perry	2/4/2020		
HP603	Hildreth Perry	2/4/2020		
HP604	Hildreth Perry	2/3/2020		
HP608	Hildreth Perry	2/28/2020		
HP650	Hildreth Perry	2/3/2020		
HP651	Hildreth Perry	2/3/2020		
HP652	Hildreth Perry	2/3/2020		
HP653	Hildreth Perry	2/3/2020		
HP750	Hildreth Perry	2/28/2020		
HP851	Hildreth Perry	2/6/2020		
HP901	Hildreth Perry	2/5/2020		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
KE250	Kenduskeag East	2/20/2020		
KE250A	Kenduskeag East	2/20/2020		
KE251	Kenduskeag East	2/20/2020		
KI028	Kenduskeag Interceptor	1/14/2020		
KI037	Kenduskeag Interceptor	1/14/2020		
KI043	Kenduskeag Interceptor	1/14/2020		
KI045	Kenduskeag Interceptor	1/14/2020		
KI048	Kenduskeag Interceptor	1/14/2020		
KI049	Kenduskeag Interceptor	1/14/2020		
KI050	Kenduskeag Interceptor	1/14/2020		
KI051	Kenduskeag Interceptor	1/14/2020		
KI052	Kenduskeag Interceptor	1/14/2020		
KI053	Kenduskeag Interceptor	1/14/2020		
KI054	Kenduskeag Interceptor	1/14/2020		
KI056	Kenduskeag Interceptor	1/13/2020		
KI057	Kenduskeag Interceptor	1/13/2020		
KI058	Kenduskeag Interceptor	1/13/2020		
KI059	Kenduskeag Interceptor	1/13/2020		
KI060	Kenduskeag Interceptor	1/13/2020		
KI061	Kenduskeag Interceptor	1/13/2020		
KI062	Kenduskeag Interceptor	1/13/2020		
KI063	Kenduskeag Interceptor	1/13/2020		
KI064	Kenduskeag Interceptor	1/13/2020		
KI065	Kenduskeag Interceptor	1/13/2020		
KI066	Kenduskeag Interceptor	1/13/2020		
KI067	Kenduskeag Interceptor	1/13/2020		
KI068	Kenduskeag Interceptor	1/13/2020		
KI069	Kenduskeag Interceptor	1/13/2020		
KI072	Kenduskeag Interceptor	1/9/2020		
KI073	Kenduskeag Interceptor	1/9/2020		
KI074	Kenduskeag Interceptor	1/9/2020		
KI075	Kenduskeag Interceptor	1/9/2020		
KI076	Kenduskeag Interceptor	1/9/2020		
KI077	Kenduskeag Interceptor	1/9/2020		
KI078	Kenduskeag Interceptor	1/10/2020		
KI079	Kenduskeag Interceptor	1/10/2020		
KI080	Kenduskeag Interceptor	1/9/2020		
KI081	Kenduskeag Interceptor	1/10/2020		
KI082	Kenduskeag Interceptor	1/10/2020		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
KI083	Kenduskeag Interceptor	1/10/2020		
KI084	Kenduskeag Interceptor	1/10/2020		
KI085	Kenduskeag Interceptor	1/10/2020		
KI086	Kenduskeag Interceptor	1/10/2020		
KI087	Kenduskeag Interceptor	1/10/2020		
KI088	Kenduskeag Interceptor	1/10/2020		
KI089	Kenduskeag Interceptor	1/8/2020		
KI090	Kenduskeag Interceptor	1/9/2020		
KI091	Kenduskeag Interceptor	1/8/2020		
KI092	Kenduskeag Interceptor	1/8/2020		
KI093	Kenduskeag Interceptor	1/8/2020		
KI094	Kenduskeag Interceptor	1/8/2020		
KI095	Kenduskeag Interceptor	1/8/2020		
KI096	Kenduskeag Interceptor	1/7/2020		
KI097	Kenduskeag Interceptor	1/7/2020		
KI098	Kenduskeag Interceptor	1/7/2020		
KI099	Kenduskeag Interceptor	1/7/2020		
KI100	Kenduskeag Interceptor	1/7/2020		
KW300	Kenduskeag West	7/6/2020		
KW381	Kenduskeag West	7/2/2020		
KW382	Kenduskeag West	7/2/2020		
KW383	Kenduskeag West	7/2/2020		
KW385	Kenduskeag West	7/2/2020		
KW386	Kenduskeag West	7/2/2020		
KW449	Kenduskeag West	7/8/2020		
MB002	Meadowbrook	1/21/2020		
MB003	Meadowbrook	1/21/2020		
MB009	Meadowbrook	1/21/2020		
MB010	Meadowbrook	1/21/2020		
MB011	Meadowbrook	1/21/2020		
MB012	Meadowbrook	1/21/2020		
MB013	Meadowbrook	1/21/2020		
MB014	Meadowbrook	1/21/2020		
MB023	Meadowbrook	1/21/2020		
MB024	Meadowbrook	1/22/2020		
MB025	Meadowbrook	1/21/2020		
MB028	Meadowbrook	1/21/2020		
MB029	Meadowbrook	1/21/2020		
MB030	Meadowbrook	1/21/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB031	Meadowbrook	1/22/2020		
MB032	Meadowbrook	1/22/2020		
MB033	Meadowbrook	1/22/2020		
MB034	Meadowbrook	1/27/2020		
MB035	Meadowbrook	1/27/2020		
MB036	Meadowbrook	1/22/2020		
MB037	Meadowbrook	1/22/2020		
MB038	Meadowbrook	1/22/2020		
MB039	Meadowbrook	1/22/2020		
MB040	Meadowbrook	1/22/2020		
MB041	Meadowbrook	3/2/2020		
MB043	Meadowbrook	1/22/2020		
MB044	Meadowbrook	1/22/2020		
MB045	Meadowbrook	1/22/2020		
MB046	Meadowbrook	1/22/2020		
MB047	Meadowbrook	1/22/2020		
MB060	Meadowbrook	1/22/2020		
MB060	Meadowbrook	1/22/2020	Yes	
MB100	Meadowbrook	1/22/2020		
MB102	Meadowbrook	1/22/2020		
MB103	Meadowbrook	1/22/2020		
MB104	Meadowbrook	1/22/2020		
MB109	Meadowbrook	1/22/2020		
MB109	Meadowbrook	1/23/2020	Yes	
MB113	Meadowbrook	1/22/2020		
MB120	Meadowbrook	1/22/2020		
MB125	Meadowbrook	1/22/2020		
MB145	Meadowbrook	1/22/2020		
MB200	Meadowbrook	1/22/2020		
MB207	Meadowbrook	1/22/2020		
MB208	Meadowbrook	1/22/2020		
MB209	Meadowbrook	1/22/2020		
MB210	Meadowbrook	1/22/2020		
MB220	Meadowbrook	1/22/2020		
MB221	Meadowbrook	1/22/2020		
MB222	Meadowbrook	1/22/2020		
MB250	Meadowbrook	1/22/2020		
MB252	Meadowbrook	1/22/2020		
MB260	Meadowbrook	1/22/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB261	Meadowbrook	1/24/2020		
MB262	Meadowbrook	1/27/2020		
MB300	Meadowbrook	1/23/2020		
MB301	Meadowbrook	1/23/2020		
MB302	Meadowbrook	1/23/2020		
MB303	Meadowbrook	1/23/2020		
MB304	Meadowbrook	1/23/2020		
MB305	Meadowbrook	1/23/2020		
MB306	Meadowbrook	1/23/2020		
MB307	Meadowbrook	1/23/2020		
MB308	Meadowbrook	1/23/2020		
MB309	Meadowbrook	1/23/2020		
MB310	Meadowbrook	1/23/2020		
MB311	Meadowbrook	1/24/2020		
MB312	Meadowbrook	1/24/2020		
MB313	Meadowbrook	1/24/2020		
MB314	Meadowbrook	1/24/2020		
MB315	Meadowbrook	1/24/2020		
MB316	Meadowbrook	1/24/2020		
MB320	Meadowbrook	1/23/2020		
MB321	Meadowbrook	1/23/2020		
MB322	Meadowbrook	1/23/2020		
MB325	Meadowbrook	1/23/2020		
MB326	Meadowbrook	1/27/2020		
MB327	Meadowbrook	1/23/2020		
MB328	Meadowbrook	1/23/2020		
MB330	Meadowbrook	1/23/2020		
MB336	Meadowbrook	1/28/2020		
MB340	Meadowbrook	1/23/2020		
MB345	Meadowbrook	1/24/2020		
MB365	Meadowbrook	1/24/2020		
MB366	Meadowbrook	1/24/2020		
MB367	Meadowbrook	1/24/2020		
MB370	Meadowbrook	1/24/2020		
MB371	Meadowbrook	1/24/2020		
MB400	Meadowbrook	1/24/2020		
MB401	Meadowbrook	1/22/2020		
MB403	Meadowbrook	1/22/2020		
MB404	Meadowbrook	1/22/2020		



## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB405	Meadowbrook	1/22/2020		
MB406	Meadowbrook	1/22/2020		
MB407	Meadowbrook	1/27/2020		
MB408	Meadowbrook	1/22/2020		
MB409	Meadowbrook	1/22/2020		
MB415	Meadowbrook	1/27/2020		
MB416	Meadowbrook	7/1/2020		
MB420	Meadowbrook	1/27/2020		
MB450	Meadowbrook	1/27/2020		
MB451	Meadowbrook	1/27/2020		
MB475	Meadowbrook	1/27/2020		
MB476	Meadowbrook	1/27/2020		
MB501	Meadowbrook	1/27/2020		
MB519	Meadowbrook	1/27/2020		
MB521	Meadowbrook	1/27/2020		
MB550	Meadowbrook	1/27/2020		
MB551	Meadowbrook	1/27/2020		
MB575	Meadowbrook	1/27/2020		
MB600	Meadowbrook	1/22/2020		
MB601	Meadowbrook	1/22/2020		
MB602	Meadowbrook	1/22/2020		
MB605	Meadowbrook	1/28/2020		
MB606	Meadowbrook	1/28/2020		
MB608	Meadowbrook	1/28/2020		
MB609	Meadowbrook	1/28/2020		
MB700	Meadowbrook	1/28/2020		
MB702	Meadowbrook	1/28/2020		
MB704	Meadowbrook	1/28/2020		
MB705	Meadowbrook	1/28/2020		
MB706	Meadowbrook	1/28/2020		
MB711	Meadowbrook	1/30/2020		
MB725	Meadowbrook	1/28/2020		
MB726	Meadowbrook	1/28/2020		
MB727	Meadowbrook	1/28/2020		
MB728	Meadowbrook	1/28/2020		
MB729	Meadowbrook	1/28/2020		
MB730	Meadowbrook	1/28/2020		
MB731	Meadowbrook	1/28/2020		
MB732	Meadowbrook	1/28/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB733	Meadowbrook	1/28/2020		
MB750	Meadowbrook	1/29/2020		
MB751	Meadowbrook	1/29/2020		
MB752	Meadowbrook	1/29/2020		
MB753	Meadowbrook	1/28/2020		
MB754	Meadowbrook	1/28/2020		
MB755	Meadowbrook	1/29/2020		
MB760	Meadowbrook	1/29/2020		
MB761	Meadowbrook	1/29/2020		
MB763	Meadowbrook	1/29/2020		
MB766	Meadowbrook	1/29/2020		
MB768	Meadowbrook	1/28/2020		
MB770	Meadowbrook	1/28/2020		
MB771	Meadowbrook	1/28/2020		
MB776	Meadowbrook	1/30/2020		
MB800	Meadowbrook	1/28/2020		
MB801	Meadowbrook	1/28/2020		
MB802	Meadowbrook	1/28/2020		
MB803	Meadowbrook	1/28/2020		
MB804	Meadowbrook	1/28/2020		
MB805	Meadowbrook	1/28/2020		
MB806	Meadowbrook	1/28/2020		
MB807	Meadowbrook	1/28/2020		
MB808	Meadowbrook	1/28/2020		
MB809	Meadowbrook	1/15/2020		
MB809	Meadowbrook	2/5/2020	Yes	Resurvey
MB809A	Meadowbrook	1/15/2020		
MB809A	Meadowbrook	2/5/2020	Yes	Resurvey
MB810	Meadowbrook	1/30/2020		
MB811	Meadowbrook	1/30/2020		
MB813	Meadowbrook	1/30/2020		
MB820	Meadowbrook	1/28/2020		
MB821	Meadowbrook	2/5/2020		
MB822	Meadowbrook	2/5/2020		
MB823	Meadowbrook	2/5/2020		
MB824	Meadowbrook	2/5/2020		
MB825	Meadowbrook	2/5/2020		
MB830	Meadowbrook	1/28/2020		
MB855	Meadowbrook	1/28/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
MB856	Meadowbrook	1/28/2020		
MB875	Meadowbrook	1/29/2020		
MB880	Meadowbrook	1/29/2020		
MB904	Meadowbrook	1/29/2020		
MB906	Meadowbrook	1/29/2020		
MB912	Meadowbrook	1/31/2020		
MB915	Meadowbrook	1/30/2020		
MB921	Meadowbrook	1/31/2020		
MB956	Meadowbrook	1/31/2020		
MB961	Meadowbrook	3/2/2020		
MB962	Meadowbrook	3/2/2020		
MB975	Meadowbrook	1/30/2020		
MB976	Meadowbrook	1/30/2020		
MB977	Meadowbrook	1/30/2020		
MB978	Meadowbrook	1/30/2020		
MB980	Meadowbrook	1/30/2020		
MB995	Meadowbrook	1/30/2020		
MB996	Meadowbrook	1/30/2020		
MB999	Meadowbrook	1/30/2020		
OC001	Old Capehart	1/6/2020		
OC002	Old Capehart	1/6/2020		
OC003	Old Capehart	1/6/2020		
OC004	Old Capehart	1/6/2020		
OC005	Old Capehart	1/6/2020		
OC006	Old Capehart	1/6/2020		
OC007	Old Capehart	1/6/2020		
OC008	Old Capehart	1/6/2020		
OC009	Old Capehart	1/6/2020		
OC010	Old Capehart	1/6/2020		
PI019	Penobscot Int	2/28/2020		
PJ001	Penjajawoc	1/8/2020		
PJ002	Penjajawoc	1/8/2020		
PJ003	Penjajawoc	1/27/2020		
PJ004	Penjajawoc	1/27/2020		
PJ005	Penjajawoc	2/4/2020		
PJ006	Penjajawoc	1/27/2020		
PJ007	Penjajawoc	1/27/2020		
PJ008	Penjajawoc	1/27/2020		
PJ009	Penjajawoc	1/27/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
PJ010	Penjawoc	1/27/2020		
PJ011	Penjawoc	1/27/2020		
PJ012	Penjawoc	1/27/2020		
PJ013	Penjawoc	1/27/2020		
PJ014	Penjawoc	1/27/2020		
PJ015	Penjawoc	1/27/2020		
PJ017	Penjawoc	1/27/2020		
PJ018	Penjawoc	1/22/2020		
PJ019	Penjawoc	1/22/2020		
PJ020	Penjawoc	1/27/2020		
PJ021	Penjawoc	1/27/2020		
PJ022	Penjawoc	1/27/2020		
PJ023	Penjawoc	1/27/2020		
PJ024	Penjawoc	1/27/2020		
PJ025	Penjawoc	1/22/2020		
PJ026	Penjawoc	1/22/2020		
PJ027	Penjawoc	1/22/2020		
PJ028	Penjawoc	1/22/2020		
PJ029	Penjawoc	1/22/2020		
PJ030	Penjawoc	1/22/2020		
PJ031	Penjawoc	1/22/2020		
PJ032	Penjawoc	2/25/2020		
PJ033	Penjawoc	1/22/2020		
PJ034	Penjawoc	1/22/2020		
PJ035	Penjawoc	1/28/2020		
PJ036	Penjawoc	1/28/2020		
PJ037	Penjawoc	1/15/2020		
PJ038	Penjawoc	1/15/2020		
PJ039	Penjawoc	1/15/2020		
PJ040	Penjawoc	1/15/2020		
PJ041	Penjawoc	1/15/2020		
PJ042	Penjawoc	1/15/2020		
PJ043	Penjawoc	1/15/2020		
PJ044	Penjawoc	1/15/2020		
PJ045	Penjawoc	1/16/2020		
PJ046	Penjawoc	1/16/2020		
PJ047	Penjawoc	1/16/2020		
PJ048	Penjawoc	1/15/2020		
PJ049	Penjawoc	1/15/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
PJ050	Penjawoc	1/15/2020		
PJ051	Penjawoc	1/16/2020		
PJ052	Penjawoc	1/16/2020		
PJ053	Penjawoc	1/15/2020		
PJ054	Penjawoc	1/15/2020		
PJ055	Penjawoc	1/15/2020		
PJ056	Penjawoc	1/15/2020		
PJ057	Penjawoc	1/15/2020		
PJ062	Penjawoc	1/15/2020		
PJ100	Penjawoc	1/8/2020		
PJ101	Penjawoc	1/22/2020		
PJ102	Penjawoc	1/22/2020		
PJ103	Penjawoc	1/22/2020		
PJ105	Penjawoc	1/14/2020		
PJ106	Penjawoc	1/14/2020		
PJ107	Penjawoc	1/14/2020		
PJ108	Penjawoc	1/14/2020		
PJ109	Penjawoc	1/14/2020		
PJ110	Penjawoc	1/8/2020		
PJ111	Penjawoc	1/8/2020		
PJ112	Penjawoc	1/17/2020		
PJ113	Penjawoc	1/8/2020		
PJ114	Penjawoc	1/8/2020		
PJ200	Penjawoc	1/21/2020		
PJ201	Penjawoc	1/21/2020		
PJ201	Penjawoc	1/23/2020	Yes	Post cleaning
PJ202	Penjawoc	2/25/2020		
PJ205	Penjawoc	1/21/2020		
PJ206	Penjawoc	1/21/2020		
PJ207	Penjawoc	1/21/2020		
PJ208	Penjawoc	1/21/2020		
PJ220	Penjawoc	1/21/2020		
PJ221	Penjawoc	2/10/2020		
PJ222	Penjawoc	2/10/2020		
PJ223	Penjawoc	1/21/2020		
PJ224	Penjawoc	1/21/2020		
PJ225	Penjawoc	2/10/2020		
PJ226	Penjawoc	3/2/2020		
PJ227	Penjawoc	2/10/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
PJ228	Penjawoc	2/10/2020		
PJ229	Penjawoc	2/10/2020		
PJ250	Penjawoc	1/21/2020		
PJ251	Penjawoc	1/21/2020		
PJ252	Penjawoc	2/10/2020		
PJ253	Penjawoc	1/21/2020		
PJ254	Penjawoc	1/21/2020		
PJ260	Penjawoc	1/16/2020		
PJ264	Penjawoc	1/16/2020		
PJ400	Penjawoc	1/16/2020		
PJ401	Penjawoc	1/17/2020		
PJ402	Penjawoc	1/16/2020		
PJ403	Penjawoc	1/16/2020		
PJ500	Penjawoc	1/8/2020		
PJ501	Penjawoc	1/17/2020		
PJ502	Penjawoc	1/17/2020		
PJ504	Penjawoc	2/10/2020		
PJ505	Penjawoc	2/10/2020		
PJ506	Penjawoc	2/10/2020		
PJ507	Penjawoc	2/10/2020		
PJ509	Penjawoc	2/10/2020		
PJ511A	Penjawoc	1/16/2020		
PJ512	Penjawoc	1/16/2020		
PJ520	Penjawoc	1/21/2020		
PJ540	Penjawoc	1/17/2020		
PJ541	Penjawoc	1/15/2020		
PJ552	Penjawoc	1/21/2020		
PJ552A	Penjawoc	1/21/2020		
PJ553	Penjawoc	1/17/2020		
PJ554	Penjawoc	1/21/2020		
PJ555	Penjawoc	1/17/2020		
PJ557	Penjawoc	1/17/2020		
PJ558	Penjawoc	1/17/2020		
PJ559	Penjawoc	1/17/2020		
PJ560	Penjawoc	1/14/2020		
PJ561	Penjawoc	1/21/2020		
PJ570	Penjawoc	1/17/2020		
PJ575	Penjawoc	1/21/2020		
PJ590	Penjawoc	1/17/2020		

## APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine  
Calendar Year 2020

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
PJ700	Penjawoc	1/21/2020		
PJ701	Penjawoc	1/21/2020		
PJ703	Penjawoc	1/17/2020		
PJ704	Penjawoc	1/17/2020		
PJ750	Penjawoc	1/15/2020		
PJ770	Penjawoc	1/17/2020		
PJ771	Penjawoc	1/17/2020		
PJ900	Penjawoc	1/21/2020		
PJ901A	Penjawoc	1/21/2020		
PJ902	Penjawoc	1/21/2020		
PJ903	Penjawoc	1/21/2020		
PJ904	Penjawoc	1/21/2020		
PJ905	Penjawoc	1/21/2020		
PJ908	Penjawoc	1/21/2020		
PJ909	Penjawoc	1/21/2020		
PJ910	Penjawoc	1/21/2020		
PJ911	Penjawoc	1/21/2020		
PJ912	Penjawoc	1/15/2020		
PJ913	Penjawoc	1/15/2020		
PJ914	Penjawoc	1/15/2020		
PJ915	Penjawoc	1/15/2020		
PJ916	Penjawoc	1/15/2020		
PJ917	Penjawoc	1/15/2020		
PJ930	Penjawoc	1/15/2020		
PJ931	Penjawoc	1/15/2020		
PJ932	Penjawoc	1/15/2020		
PJ933	Penjawoc	1/15/2020		
PJ934	Penjawoc	1/15/2020		
PJ935	Penjawoc	1/15/2020		
PJ936	Penjawoc	1/15/2020		
PJ938	Penjawoc	1/15/2020		
PJ950	Penjawoc	1/21/2020		
PJ956	Penjawoc	1/21/2020		
SL101	Strickland	2/20/2020		
WL502	Woodlawn	2/24/2020		
WS001	Woodlawn	1/14/2020		
<b>TOTAL MANHOLES INSPECTED</b> excuding repeats			<b>538</b>	

**Appendix C**

**CCTV Repair, Replacement and Upgrade Log**



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

City of Bangor, Maine  
Calendar Year 2020

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
HILDRETH-PERRY		HP406		REPLACED MH WITH 4FT CONCRETE MANHOLE	7.7.2020
MAY		MY002A		NEW 4FT CONCRETE MANHOLE	7.17.2020
MAY		MY100A		NEW 4FT CONCRETE MANHOLE	7.17.2020
MAY	MY002A		ALL	REPLACED 342.5 FT 8" VCP WITH 8" PVC	7.17.2020
MAY	MY100A		ALL	REPLACED 158 FT 8" VCP WITH 8" PVC	7.17.2020
DAVIS BROOK	DB305		ALL	REPLACED 129 FT 18/24 BRICK WITH 24" PVC	7.24.2020
DAVIS BROOK	DB350A		ALL	REPLACED 180 FT 18/24 BRICK WITH 24" PVC	7.24.2020
DAVIS BROOK		DB305		NEW 4FT CONCRETE MANHOLE	7.24.2020
AIRPORT		AP311		REPLACED MH WITH 4FT CONCRETE MANHOLE	8.3.2020
AIRPORT	AP312		ALL	REPLACED EXISTING MAIN WITH 232 FT OF 8" PVC	8.3.2020
AIRPORT		AP312		REPLACED MH WITH 4FT CONCRETE MANHOLE	8.3.2020
AIRPORT	AP370		ALL	REPLACED EXISTING MAIN WITH 201 FT OF 8" PVC	8.3.2020
AIRPORT		AP370		REPLACED MH WITH 4FT CONCRETE MANHOLE	8.3.2020
AIRPORT	AP371		ALL	REPLACED EXISTING MAIN WITH 185 FT OF 8" PVC	8.3.2020
AIRPORT		AP371		REPLACED MH WITH 4FT CONCRETE MANHOLE	8.3.2020
AIRPORT	AP372		ALL	REPLACED EXISTING MAIN WITH 165 FT OF 8" PVC	8.13.2020
AIRPORT		AP372		REPLACED MH WITH 4FT CONCRETE MANHOLE	8.13.2020
AIRPORT	AP373		ALL	REPLACED EXISTING MAIN WITH 293 FT OF 8" PVC	8.19.2020
AIRPORT		AP373		REPLACED MH WITH 4FT CONCRETE MANHOLE	8.19.2020
AIRPORT	AP374		ALL	REPLACED EXISTING MAIN WITH 258 FT OF 8" PVC	8.21.2020
AIRPORT		AP374		NEW 4FT CONCRETE MANHOLE	8.21.2020
AIRPORT	AP380		ALL	REPLACED EXISTING MAIN WITH 123 FT OF 8" PVC	8.25.2020
AIRPORT		AP380		NEW 4FT CONCRETE MANHOLE	8.25.2020
AIRPORT	AP390		ALL	REPLACED EXISTING MAIN WITH 211 FT OF 8" PVC	8.27.2020
AIRPORT		AP390		REPLACED MH WITH 4FT CONCRETE MANHOLE	8.27.2020
DAVIS BROOK		DB304B		NEW 4FT DOGHOUSE MANHOLE	8.31.2020
DAVIS BROOK	DB362		ALL	REPLACED 180 FT BRICK MAIN WITH 8" PVC	9.1.2020
DAVIS BROOK	DB440A			5 SPOT REPAIRS, 8" PVC	9.3.2020
DAVIS BROOK	DB120B		ALL	REPLACED EXISTING MAIN WITH 270 FT OF 18" PVC	9.22.2020
KENDUSKEAG WEST		KW502		NEW DOGHOUSE MANHOLE	10.2.2020
BARKERSVILLE	BV400A		ALL	REPLACED 199 FT OF MAIN WITH 18" PVC	10.27.2020
BARKERSVILLE	BV410		ALL	REPLACED 183 FT OF MAIN WITH 18" PVC	10.27.2020
BARKERSVILLE		BV350		REPLACED MH WITH 4FT CONCRETE MANHOLE	10.27.2020
BARKERSVILLE	BV350		FROM MH BV350 EXTENDING 13' DOWNSTREAM	REPLACED 13 FT OF MAIN WITH 8" PVC	10.27.2020
BARKERSVILLE		BV440		NEW 4FT CONCRETE MANHOLE	10.27.2020
BARKERSVILLE	BV440			REPLACED 60 FT OF MAIN WITH 12" PVC	10.27.2020
ARCTIC BROOK		AB137		NEW 4FT CONCRETE MANHOLE	11.9.2020
ARCTIC BROOK	AB137		ALL	REPLACED 266 FT OF MAIN WITH 8" PVC	11.9.2020
KENDUSKEAG EAST	KE251		FROM MH KE250A EXTENDING 14' UPSTREAM	REPLACED 14 FT OF MAIN WITH 8" PVC	11.12.2020
ARCTIC BROOK		AB471		NEW 4FT CONCRETE MANHOLE	11.19.2020
ARCTIC BROOK	AB471		FROM MH AB471 EXTENDING 10' DOWNSTREAM	REPLACED 10 FT OF MAIN WITH 8" PVC	11.19.2020
BARKERSVILLE		BV704		REPLACED MH WITH 4FT CONCRETE MANHOLE	11.24.2020
BARKERSVILLE	BV704		FROM MH BV704 EXTENDING 9.5' DOWNSTREAM	REPLACED 9.5 FT OF MAIN WITH 12" PVC	11.24.2020
AIRPORT	AP022		FROM MH AP022 EXTENDING 247' DOWNSTREAM	REPLACED 247 FT OF MAIN WITH 8" PVC	12.2.2020

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

City of Bangor, Maine  
Calendar Year 2020

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
AIRPORT	AP023		BEGINNING 177' DONSTREAM OF MH AP023 EXTENDING DOWNSTREAM 35'	REPLACED 35 FT OF MAIN WITH 8" PVC	12.2.2020
AIRPORT	AP507		ALL	REPLACED 114' OF MAIN WITH 8" PVC	12.21.2020
AIRPORT		AP507		REPLACED MH WITH 4FT CONCRETE MANHOLE	12.21.2020
AIRPORT	AP508		ALL	REPLACED 199 FT OF MAIN WITH 8" PVC	12.21.2020
AIRPORT		AP508		REPLACED MH WITH 4FT CONCRETE MANHOLE	12.21.2020
AIRPORT	AP530			REPLACED 153 FT OF MAIN WITH 8" PVC	12.21.2020
DOW	DW450			REPLACED 31 FT OF MAIN WITH 8" PVC	12.23.2020
DOW	DW650			REPLACED 39 FT OF MAIN WITH 8" PVC	12.28.2020
DOW	DW660			CAPPED ABANDONED SERVICE	12.29.2020
BURLEIGH	BU018			REPLACED 6 FT OF MAIN WITH 8" PVC	12.31.2020
AIRPORT	AP742			FRACTURED PIPE, STARTING TO DEFORM AT 290' UPSTREAM OF MH AP741	WITHIN 10 YEARS
AIRPORT	AP743			3 LOCATIONS OF REPAIRS HAVE SUNK, CAUSING OTHER ISSUES AT MATERIAL CHANGES	WITHIN 5 YEARS
DAVIS BROOK	DB025			DEFECTIVE PIPE WITH FRACTURES, CRACKS AND DEFORMITY	WITHIN 5 YEARS
DAVIS BROOK	DB550			2 LOCATIONS DEVELOPING HOLES	WITHIN 10 YEARS
DAVIS BROOK	DB916			DEFORMED AND BROKEN PIPE	WITHIN 5 YEARS
DOW	DW554			HOLE WITH LARGE ROCK INTRUDING THROUGH. MISSING BRICKS ALONG INSPECTION, LARGE ROCK BUILT INTO BRICK MAIN	WITHIN 10 YEARS
KENDUSKEAG EAST	KE360A			BROKEN AND FRACTURED PIPE WITH NUMEROUS ROOT INTRUSION LOCATIONS	WITHIN 5 YEARS
KENDUSKEAG WEST	KW605			MISSING MORTAR AND DROPPED INVERT. LARGE REPAIR PATCH. SMALL REPAIR PATCH.	WITHIN 5 YEARS
MEADOWBROOK	MB345			LONG HOLE IN BRICK LINE, DEFECTIVE SERVICE CONNECTION WITH HOLE	WITHIN 10 YEARS
MEADOWBROOK	MB405			4 LOCATIONS WITH SIGNIFICANT INFILTRATION	WITHIN 10 YEARS
MEADOWBROOK	MB420			DEFECTIVE REPAIR PATCH UNDER FILTER THAT IS LEAKING.	WITHIN 5 YEARS
MEADOWBROOK	MB914			SMALL HOLE IN LINE WITH ROCK INTRUDING, LARGE DEFECTIVE OFFSET JOINT WITH HOLE	WITHIN 10 YEARS
PENOBSCOT INT	PI024			BROKEN PIPE 0' UPSTREAM OF MH BV702	WITHIN 5 YEARS
PENJAWOC	PJ205			DEFORMED PIPE WITH NUMEROUS CRACKS. ROCKS INTRUDING THOUGH SIDEWALLS	WITHIN 5 YEARS
WESTLAND	WS104			DROPPED INVERT, MANY ABANDONED SERVICES	WITHIN 5 YEARS
BARKERSVILLE	BV703			END OF LINE CAP BEGINNING TO FAIL ALLOWING DEBRIS INTO LINE	WITHIN 5 YEARS
BARKERSVILLE	BV705			OFFSET JOINTS AND DIRECTION CHANGE, CAUSING MSA	WITHIN 10 YEARS
DAVIS BROOK	DB304B			BROKEN HOLE IN LINE	WITHIN 10 YEARS
KENDUSKEAG WEST	KW451			END OF LINE CAP BEGINNING TO FAIL ALLOWING DEBRIS INTO LINE	WITHIN 5 YEARS
PENJAWOC	PJ037			OFFSET JOINTS AND DIRECTION CHANGE, CAUSING MSA	WITHIN 10 YEARS
PENJAWOC	PJ251			BROKEN HOLE IN LINE	WITHIN 10 YEARS

**Appendix D**  
**Cleaning Log**

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AB353	Arctic Brook	1/2/2020	295	2	590		
AB510	Arctic Brook	1/2/2020	452	2	904		
AB511	Arctic Brook	1/2/2020	233	2	466		
AB552	Arctic Brook	9/17/2020	96	2	192		
AB552	Arctic Brook	9/17/2020	96	2	192	yes	known trouble spot
AB552	Arctic Brook	9/17/2020	96	2	192	yes	known trouble spot
AB552	Arctic Brook	9/17/2020	96	2	192	yes	known trouble spot
AB552	Arctic Brook	12/7/2020	96	2	192	yes	known trouble spot
AB562	Arctic Brook	9/17/2020	110	2	220		
AB751	Arctic Brook	3/27/2020	276	1	276		
AB752	Arctic Brook	3/27/2020	326	1	326		
AB760	Arctic Brook	3/27/2020	345	1	345		
AB801	Arctic Brook	9/17/2020	227	2	454		
AB802	Arctic Brook	9/17/2020	183	2	366		
AB803	Arctic Brook	9/17/2020	178	2	356		
AB821	Arctic Brook	9/17/2020	302	2	604		
AB822	Arctic Brook	9/17/2020	400	2	800		
AP014	Airport	8/11/2020	168	1	168		
AP022	Airport	6/26/2020	300	2	600		
AP023	Airport	6/25/2020	300	2	600		
AP050	Airport	8/11/2020	208	1	208		
AP051	Airport	8/11/2020	298	1	298		
AP052	Airport	8/11/2020	322	1	322		
AP212	Airport	12/29/2020	208	2	416		
AP261	Airport	12/28/2020	138	1	138		
AP262	Airport	12/28/2020	176	1	176		
AP263	Airport	12/28/2020	228	1	228		
AP264	Airport	12/28/2020	277	2	554		
AP265	Airport	12/28/2020	45	2	90		
AP270	Airport	12/28/2020	137	1	137		
AP271	Airport	12/28/2020	174	1	174		
AP280	Airport	12/28/2020	170	2	340		
AP281	Airport	12/28/2020	90	2	180		
AP282	Airport	12/28/2020	159	1	159		
AP283	Airport	12/28/2020	229	1	229		
AP284	Airport	12/28/2020	109	2	218		
AP285	Airport	12/28/2020	192	2	384		
AP286	Airport	12/28/2020	390	2	780		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AP290	Airport	12/29/2020	161	1	161		
AP291	Airport	12/29/2020	43	1	43		
AP328	Airport	7/13/2020	306	2	612		
AP329	Airport	7/13/2020	247	2	494		
AP330	Airport	7/8/2020	238	2	476		
AP331	Airport	7/8/2020	248	2	496		
AP332	Airport	7/8/2020	302	2	604		
AP333	Airport	7/8/2020	164	2	328		
AP342	Airport	3/31/2020	280	2	560		
AP343	Airport	7/13/2020	199	2	398		
AP344	Airport	7/13/2020	202	2	404		
AP345	Airport	7/13/2020	297	2	594		
AP346	Airport	7/13/2020	303	2	606		
AP353	Airport	9/17/2020	261	1	261		
AP354	Airport	9/17/2020	53	1	53		
AP355	Airport	9/17/2020	340	1	340		
AP356	Airport	9/17/2020	349	1	349		
AP415A	Airport	3/26/2020	167	2	334		
AP415A	Airport	7/2/2020	167	2	334	yes	needed more cleaning
AP415A	Airport	9/8/2020	167	1	167	yes	needed more cleaning
AP415A	Airport	12/24/2020	167	1	167	yes	needed more cleaning
AP417	Airport	9/17/2020	89	1	89		
AP418	Airport	9/17/2020	290	1	290		
AP509	Airport	12/7/2020	103	3	309		
AP522	Airport	9/17/2020	262	2	524		
BU013	Burleigh	9/16/2020	175	2	350		
BU028	Burleigh	9/16/2020	373	2	746		
BU029	Burleigh	9/16/2020	348	2	696		
BU030	Burleigh	9/16/2020	313	2	626		
BU031	Burleigh	9/16/2020	322	2	644		
BU451	Burleigh	9/17/2020	187	2	374		
BU451	Burleigh	9/17/2020	187	2	374	yes	needed more cleaning
BU452	Burleigh	9/17/2020	242	2	484		
BU453	Burleigh	9/17/2020	127	2	254		
BU454	Burleigh	9/16/2020	168	2	336		
BU455	Burleigh	9/16/2020	200	2	400		
BU460	Burleigh	9/17/2020	400	2	800		
BU462	Burleigh	9/17/2020	269	2	538		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
BU500	Burleigh	9/16/2020	293	2	586		
BU501	Burleigh	9/14/2020	236	2	472		
BU502	Burleigh	9/14/2020	167	2	334		
BU503	Burleigh	9/14/2020	252	2	504		
BU504	Burleigh	9/10/2020	128	2	256		
BU505	Burleigh	9/14/2020	151	2	302		
BU506	Burleigh	9/10/2020	290	2	580		
BU510	Burleigh	9/14/2020	364	2	728		
BU510	Burleigh	9/14/2020	364	2	728	yes	needed more cleaning
BU511	Burleigh	9/14/2020	282	2	564		
BU512	Burleigh	9/9/2020	403	2	806		
BU513	Burleigh	9/9/2020	234	2	468		
BU514	Burleigh	9/9/2020	248	2	496		
BU515	Burleigh	9/9/2020	279	2	558		
BU516	Burleigh	9/9/2020	244	2	488		
BU516	Burleigh	9/9/2020	244	2	488	yes	needed more cleaning
BU520	Burleigh	9/14/2020	215	2	430		
BU520	Burleigh	9/14/2020	215	2	430	yes	needed more cleaning
BU530	Burleigh	9/9/2020	296	2	592		
BU530	Burleigh	9/9/2020	296	2	592	yes	needed more cleaning
BU531	Burleigh	9/9/2020	233	2	466		
BU532	Burleigh	7/14/2020	187	2	374		
BU532	Burleigh	9/8/2020	187	1	187	yes	known trouble spot
BU533	Burleigh	9/8/2020	115	1	115		
BU535	Burleigh	7/14/2020	268	2	536		
BU535	Burleigh	9/8/2020	268	1	268	yes	known trouble spot
BU540	Burleigh	9/10/2020	272	2	544		
BU541	Burleigh	9/10/2020	271	2	542		
BU542	Burleigh	9/10/2020	372	2	744		
BU550	Burleigh	9/10/2020	206	2	412		
BU551	Burleigh	9/10/2020	307	2	614		
BU552	Burleigh	9/10/2020	304	2	608		
BU560	Burleigh	9/10/2020	114	2	228		
BU570	Burleigh	9/14/2020	173	2	346		
BU571	Burleigh	9/10/2020	119	2	238		
BU572	Burleigh	9/10/2020	271	2	542		
BU602	Burleigh	9/16/2020	218	2	436		
BU703	Burleigh	9/16/2020	231	2	462		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
BV055	Barkersville	7/7/2020	705	2	1410		
BV056	Barkersville	7/7/2020	169	2	338		
BV128	Barkersville	2/25/2020	137	2	274		
BV128A	Barkersville	2/25/2020	44	2	88		
BV139	Barkersville	2/25/2020	387	2	774		
BV140	Barkersville	2/25/2020	228	2	456		
BV141	Barkersville	2/25/2020	230	2	460		
BV412	Barkersville	2/26/2020	257	1	257		
BV430	Barkersville	2/26/2020	179	1	179		
BV435	Barkersville	2/26/2020	258	1	258		
BV561	Barkersville	12/23/2020	453	1	453		
CB036	Carr Brook	4/21/2020	194	2	388		
CB037	Carr Brook	4/21/2020	626	1	626		
CB122	Carr Brook	2/25/2020	213	1	213		
CB123	Carr Brook	2/25/2020	295	1	295		
CB125	Carr Brook	2/25/2020	331	2	662		
CB126	Carr Brook	8/11/2020	356	1	356		
CB126	Carr Brook	12/7/2020	356	1	356	yes	known trouble spot
CB130	Carr Brook	7/22/2020	220	2	440		
CB131	Carr Brook	7/22/2020	240	1	240		
CB133	Carr Brook	7/22/2020	634	1	634		
CB134	Carr Brook	4/14/2020	347	2	694		
CB134	Carr Brook	8/11/2020	347	1	347	yes	known trouble spot
CB134	Carr Brook	12/7/2020	347	1	347	yes	known trouble spot
CB135	Carr Brook	7/22/2020	189	1	189		
CB140	Carr Brook	4/14/2020	675	2	1350		
CB141	Carr Brook	4/14/2020	192	2	384		
CB145	Carr Brook	7/22/2020	261	1	261		
CB155	Carr Brook	2/25/2020	182	2	364		
CB162	Carr Brook	1/3/2020	272	2	544		
CB163	Carr Brook	1/3/2020	336	2	672		
CB251	Carr Brook	4/17/2020	150	2	300		
CB252	Carr Brook	4/17/2020	95	2	190		
CB253	Carr Brook	4/17/2020	359	2	718		
CB260	Carr Brook	4/17/2020	143	2	286		
CB261	Carr Brook	4/16/2020	183	2	366		
CB262	Carr Brook	2/25/2020	298	2	596		
CB262	Carr Brook	4/16/2020	298	2	596	yes	needed more cleaning

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
CB270	Carr Brook	4/16/2020	284	2	568		
CB402	Carr Brook	9/22/2020	516	1	516		
CB405	Carr Brook	2/26/2020	300	2	600		
CB406	Carr Brook	8/11/2020	146	1	146		
CB406	Carr Brook	12/7/2020	146	1	146	yes	known trouble spot
CB407	Carr Brook	8/11/2020	158	1	158		
CB407	Carr Brook	12/7/2020	158	1	158	yes	known trouble spot
CB410	Carr Brook	2/26/2020	383	2	766		
CB602	Carr Brook	4/17/2020	289	2	578		
CB801	Carr Brook	4/21/2020	280	2	560		
CB802	Carr Brook	4/21/2020	401	2	802		
CM100A	Cemetery	12/22/2020	63	1	63		
CM101	Cemetery	12/22/2020	214	1	214		
CM102	Cemetery	12/22/2020	249	1	249		
CM103	Cemetery	12/22/2020	299	1	299		
CM103A	Cemetery	12/22/2020	150	1	150		
CM104	Cemetery	12/22/2020	97	1	97		
CM302	Cemetery	12/22/2020	303	1	303		
CM303	Cemetery	12/22/2020	231	1	231		
CM350	Cemetery	12/22/2020	331	2	662		
CM350	Cemetery	12/22/2020	331	1	331		
CM351	Cemetery	12/22/2020	45	1	45		
CM351A	Cemetery	12/21/2020	243	1	243		
CM352	Cemetery	12/21/2020	248	1	248		
CM401	Cemetery	12/22/2020	316	1	316		
CM452	Cemetery	12/23/2020	186	1	186		
CM505	Cemetery	12/23/2020	292	1	292		
CM506	Cemetery	12/23/2020	256	1	256		
CM507	Cemetery	12/23/2020	280	1	280		
CM508	Cemetery	12/23/2020	215	1	215		
CM509	Cemetery	12/23/2020	155	1	155		
CM580	Cemetery	9/9/2020	306	1	306		
CM581	Cemetery	9/9/2020	198	1	198		
CM600	Cemetery	12/23/2020	101	1	101		
CM601	Cemetery	12/23/2020	133	1	133		
CM602	Cemetery	12/23/2020	251	1	251		
CM603	Cemetery	12/23/2020	238	1	238		
CM604	Cemetery	12/23/2020	40	1	40		



# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
CM681	Cemetery	12/23/2020	299	1	299		
CM682	Cemetery	12/23/2020	225	1	225		
CM731	Cemetery	9/9/2020	244	1	244		
CM751	Cemetery	9/9/2020	183	1	183		
CM761	Cemetery	9/9/2020	350	1	350		
CM771	Cemetery	9/9/2020	239	1	239		
CM801	Cemetery	9/10/2020	251	1	251		
CM802	Cemetery	9/10/2020	319	1	319		
CM850	Cemetery	9/10/2020	161	1	161		
CM860	Cemetery	9/10/2020	271	1	271		
CW014	Cardinal Way	12/29/2020	219	1	219		
CW015	Cardinal Way	12/29/2020	220	1	220		
CW050	Cardinal Way	12/29/2020	165	1	165		
CW051	Cardinal Way	12/29/2020	62	1	62		
DB304A	Davis Brook	8/3/2020	157	2	314		
DB304A	Davis Brook	7/30/2020	157	10	1570	yes	known trouble spot
DB362	Davis Brook	11/12/2020	183	1	183		
DB375	Davis Brook	10/30/2020	54	2	108		
DB422	Davis Brook	9/10/2020	327	1	327		
DB423	Davis Brook	9/10/2020	170	2	340		
DB564	Davis Brook	3/26/2020	168	1	168		
DB564	Davis Brook	7/2/2020	168	1	168	yes	known trouble spot
DB564	Davis Brook	10/21/2020	168	1	168	yes	known trouble spot
DB564	Davis Brook	12/7/2020	168	1	168	yes	known trouble spot
DB565	Davis Brook	3/26/2020	162	1	162		
DB565	Davis Brook	7/2/2020	162	1	162	yes	known trouble spot
DB565	Davis Brook	8/11/2020	162	1	162	yes	known trouble spot
DB565	Davis Brook	10/21/2020	162	1	162	yes	known trouble spot
DB565	Davis Brook	12/7/2020	162	1	162	yes	known trouble spot
DB566	Davis Brook	3/26/2020	172	1	172		
DB566	Davis Brook	7/2/2020	172	1	172	yes	known trouble spot
DB566	Davis Brook	8/11/2020	172	1	172	yes	known trouble spot
DB566	Davis Brook	10/21/2020	172	1	172	yes	known trouble spot
DB566	Davis Brook	12/7/2020	172	1	172	yes	known trouble spot
DW211	Dow	2/24/2020	276	2	552		
DW250	Dow	7/2/2020	230	2	460		
DW251	Dow	7/2/2020	262	2	524		
DW252	Dow	6/29/2020	386	1	386		

# APPENDIX D: CLEANING LOG

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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
DW252A	Dow	6/29/2020	73	1	73		
DW252B	Dow	6/29/2020	83	1	83		
DW253	Dow	6/29/2020	103	1	103		
DW255	Dow	7/2/2020	263	2	526		
DW259	Dow	6/29/2020	187	1	187		
DW259	Dow	6/29/2020	187	1	187	yes	needed more cleaning
DW260	Dow	1/27/2020	248	1	248		
DW260	Dow	6/29/2020	248	1	248	yes	needed more cleaning
DW260	Dow	9/8/2020	248	2	496	yes	needed more cleaning
DW260	Dow	10/21/2020	248	2	496	yes	needed more cleaning
DW261	Dow	6/29/2020	305	1	305		
DW262	Dow	6/29/2020	398	1	398		
DW265	Dow	1/27/2020	109	1	109		
DW265	Dow	3/26/2020	109	2	218	yes	known trouble spot
DW265	Dow	6/29/2020	109	1	109	yes	known trouble spot
DW265	Dow	9/8/2020	109	2	218	yes	known trouble spot
DW265	Dow	9/24/2020	109	2	218	yes	known trouble spot
DW265	Dow	10/21/2020	109	2	218	yes	known trouble spot
DW265	Dow	12/7/2020	109	1	109	yes	known trouble spot
DW265	Dow	12/24/2020	109	2	218		
DW270	Dow	2/24/2020	408	2	816		
DW286	Dow	2/26/2020	167	2	334		
DW287	Dow	2/26/2020	127	2	254		
DW350	Dow	9/24/2020	179	1	179		
DW351	Dow	9/24/2020	171	1	171		
FS601	Fourteenth Street	12/24/2020	52	1	52		
FS602	Fourteenth Street	12/24/2020	257	1	257		
FS604	Fourteenth Street	12/24/2020	256	1	256		
FS605	Fourteenth Street	12/24/2020	250	1	250		
HK010A	Hancock Street	8/11/2020	45	1	45		
HK010A	Hancock Street	10/21/2020	45	1	45	yes	known trouble spot
HK011	Hancock Street	8/11/2020	236	1	236		
HK011	Hancock Street	10/21/2020	236	1	236	yes	needed more cleaning
HK040	Hancock Street	8/11/2020	31	1	31		
HK040	Hancock Street	10/21/2020	31	1	31	yes	known trouble spot
HK041	Hancock Street	8/11/2020	323	1	323		
HK041	Hancock Street	10/21/2020	323	1	323	yes	known trouble spot
HK215	Hancock Street	9/28/2020	326	1	326		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
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Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
HK216	Hancock Street	9/28/2020	216	1	216		
HK217	Hancock Street	9/28/2020	17	1	17		
HK254	Hancock Street	9/28/2020	10	1	10		
HK256	Hancock Street	9/25/2020	275	1	275		
HK262	Hancock Street	4/22/2020	283	2	566		
HK265	Hancock Street	4/22/2020	220	2	440		
HK270	Hancock Street	9/28/2020	32	1	32		
HK271	Hancock Street	9/28/2020	273	1	273		
HK272	Hancock Street	9/28/2020	299	1	299		
HK273	Hancock Street	9/25/2020	306	1	306		
HK275	Hancock Street	9/25/2020	29	1	29		
HK276	Hancock Street	9/25/2020	115	1	115		
HK280	Hancock Street	9/25/2020	182	1	182		
HK292	Hancock Street	2/3/2020	225	1	225		
HK293	Hancock Street	2/3/2020	175	1	175		
HP223	Hildreth-Perry	7/7/2020	363	2	726		
HP224S2	Hildreth-Perry	7/7/2020	51	2	102		
HP225	Hildreth-Perry	7/7/2020	331	2	662		
HP225	Hildreth-Perry	7/7/2020	331	2	662	yes	needed more cleaning
HP227	Hildreth-Perry	6/18/2020	530	2	1060		
HP228	Hildreth-Perry	7/7/2020	466	2	932		
HP413	Hildreth-Perry	3/6/2020	330	4	1320		
HP414	Hildreth-Perry	3/5/2020	363	3	1089		
HP414	Hildreth-Perry	3/6/2020	363	3	1089	yes	needed more cleaning
HP415	Hildreth-Perry	3/5/2020	379	3	1137		
HP466	Hildreth-Perry	6/8/2020	320	2	640		
HP485	Hildreth-Perry	6/8/2020	399	2	798		
HP486	Hildreth-Perry	9/17/2020	266	1	266		
HP700	Hildreth-Perry	7/7/2020	399	2	798		
HP750	Hildreth-Perry	7/7/2020	452	2	904		
HP801	Hildreth-Perry	7/13/2020	281	2	562		
HP802	Hildreth-Perry	7/7/2020	698	2	1396		
HP851	Hildreth-Perry	7/7/2020	244	2	488		
HP904	Hildreth-Perry	7/7/2020	170	2	340		
HS008	Husson	4/14/2020	301	1	301		
HS500	Husson	4/14/2020	295	1	295		
HS500	Husson	7/14/2020	295	2	590	yes	known trouble spot
HS500	Husson	9/16/2020	295	2	590	yes	known trouble spot

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
KE360	Kenduskeag East	4/28/2020	91	2	182		
KW301A	Kenduskeag West	7/17/2020	24	2	48		
KW451	Kenduskeag West	7/16/2020	17	3	51		
KW502	Kenduskeag West	7/8/2020	217	10	2170		
KW502	Kenduskeag West	7/14/2020	217	10	2170	yes	needed more cleaning
KW950	Kenduskeag West	7/16/2020	120	5	600		
MB032	Meadowbrook	9/22/2020	319	1	319		
MB303	Meadowbrook	12/28/2020	205	1	205		
MB304	Meadowbrook	12/28/2020	81	1	81		
MB305	Meadowbrook	12/28/2020	192	1	192		
MB306	Meadowbrook	12/28/2020	33	1	33		
MB307	Meadowbrook	12/28/2020	29	1	29		
MB308	Meadowbrook	12/28/2020	139	1	139		
MB309	Meadowbrook	12/28/2020	62	1	62		
MB310	Meadowbrook	12/28/2020	350	1	350		
MB365	Meadowbrook	12/28/2020	93	1	93		
MB366	Meadowbrook	12/28/2020	134	1	134		
MB367	Meadowbrook	12/28/2020	98	1	98		
MB605	Meadowbrook	9/29/2020	306	1	306		
MB606	Meadowbrook	9/29/2020	264	1	264		
MB726	Meadowbrook	9/22/2020	182	1	182		
MB727	Meadowbrook	9/22/2020	20	1	20		
MB728	Meadowbrook	9/22/2020	227	1	227		
MB729	Meadowbrook	9/22/2020	239	1	239		
MB766	Meadowbrook	7/22/2020	313	1	313		
MB767	Meadowbrook	7/22/2020	228	1	228		
MB768	Meadowbrook	7/22/2020	222	1	222		
MB771	Meadowbrook	2/3/2020	212	1	212		
MB804	Meadowbrook	9/3/2020	25	5	125		
MB805	Meadowbrook	9/3/2020	195	2	390		
MB806	Meadowbrook	9/3/2020	384	2	768		
MB807	Meadowbrook	9/3/2020	400	2	800		
MB808	Meadowbrook	9/3/2020	400	2	800		
MB830	Meadowbrook	9/3/2020	318	2	636		
MB931	Meadowbrook	4/17/2020	62	2	124		
MB932	Meadowbrook	4/17/2020	94	2	188		
MB933	Meadowbrook	4/17/2020	262	2	524		
MB934	Meadowbrook	4/17/2020	230	2	460		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB934	Meadowbrook	4/17/2020	230	2	460	yes	needed more cleaning
MB951	Meadowbrook	2/26/2020	334	2	668		
MB952	Meadowbrook	2/26/2020	306	2	612		
MB961	Meadowbrook	7/22/2020	187	1	187		
MB962	Meadowbrook	7/22/2020	210	1	210		
MB963	Meadowbrook	2/26/2020	265	2	530		
MB964	Meadowbrook	2/26/2020	299	2	598		
MB965	Meadowbrook	2/26/2020	179	2	358		
MB975	Meadowbrook	2/25/2020	154	1	154		
MB976	Meadowbrook	2/25/2020	223	1	223		
MB977	Meadowbrook	2/25/2020	223	1	223		
MB986	Meadowbrook	1/3/2020	273	2	546		
MB990	Meadowbrook	1/3/2020	246	2	492		
OC013	Old Capehart	9/1/2020	176	2	352		
OC014	Old Capehart	9/1/2020	158	2	316		
OC015	Old Capehart	9/1/2020	114	2	228		
OC016	Old Capehart	9/1/2020	81	2	162		
OC017	Old Capehart	9/1/2020	176	2	352		
OC018	Old Capehart	7/22/2020	168	2	336		
OC019	Old Capehart	7/22/2020	164	2	328		
OC020	Old Capehart	7/22/2020	175	2	350		
OC021	Old Capehart	7/17/2020	290	2	580		
OC022	Old Capehart	7/17/2020	266	2	532		
OC023	Old Capehart	7/17/2020	257	2	514		
OC024	Old Capehart	8/4/2020	311	2	622		
OC025	Old Capehart	8/4/2020	270	2	540		
OC026	Old Capehart	8/5/2020	285	2	570		
OC027	Old Capehart	8/4/2020	264	2	528		
OC027	Old Capehart	8/5/2020	264	2	528	yes	needed more cleaning
OC028	Old Capehart	8/4/2020	299	2	598		
OC101	Old Capehart	12/21/2020	283	1	283		
OC102	Old Capehart	12/21/2020	323	1	323		
OC103	Old Capehart	12/21/2020	296	1	296		
OC103	Old Capehart	12/21/2020	296	10	2960	yes	needed more cleaning
OC104	Old Capehart	12/21/2020	300	1	300		
OC110	Old Capehart	12/21/2020	239	1	239		
OC111	Old Capehart	12/21/2020	140	1	140		
OC150	Old Capehart	12/21/2020	73	1	73		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
OC150A	Old Capehart	12/21/2020	28	1	28		
OC151	Old Capehart	12/21/2020	418	1	418		
OC152	Old Capehart	12/21/2020	431	1	431		
OC201	Old Capehart	9/1/2020	259	2	518		
OC250	Old Capehart	9/1/2020	225	2	450		
OC251	Old Capehart	9/1/2020	279	2	558		
OC300	Old Capehart	9/1/2020	134	2	268		
OC301	Old Capehart	9/1/2020	241	2	482		
OC302	Old Capehart	1/3/2020	261	1	261		
OC303	Old Capehart	8/6/2020	250	2	500		
OC304	Old Capehart	1/3/2020	249	1	249		
OC305	Old Capehart	1/3/2020	302	2	604		
OC330	Old Capehart	9/1/2020	233	2	466		
OC350	Old Capehart	4/28/2020	174	2	348		
OC350	Old Capehart	4/28/2020	174	2	348	yes	needed more cleaning
OC351	Old Capehart	4/28/2020	308	2	616		
OC352	Old Capehart	4/28/2020	293	2	586		
OC360	Old Capehart	4/28/2020	275	2	550		
OC361	Old Capehart	4/28/2020	267	2	534		
OC363	Old Capehart	4/23/2020	280	2	560		
OC364	Old Capehart	4/23/2020	257	2	514		
OC400	Old Capehart	7/22/2020	218	2	436		
OC401	Old Capehart	7/22/2020	194	2	388		
OC404	Old Capehart	4/23/2020	161	2	322		
OC405	Old Capehart	4/23/2020	182	2	364		
OC406	Old Capehart	8/6/2020	175	2	350		
OC406	Old Capehart	8/6/2020	175	2	350	yes	needed more cleaning
OC407	Old Capehart	8/6/2020	269	2	538		
OC408	Old Capehart	8/6/2020	255	2	510		
OC409	Old Capehart	8/6/2020	209	2	418		
OC410	Old Capehart	8/6/2020	174	2	348		
OC411	Old Capehart	8/6/2020	239	2	478		
OC412	Old Capehart	8/6/2020	255	2	510		
OC430	Old Capehart	4/23/2020	217	2	434		
OC431	Old Capehart	4/23/2020	118	2	236		
OC440	Old Capehart	8/6/2020	142	2	284		
OC441	Old Capehart	8/6/2020	198	2	396		
OC442	Old Capehart	8/6/2020	275	2	550		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
OC450	Old Capehart	8/6/2020	201	2	402		
OC451	Old Capehart	8/6/2020	164	2	328		
OC452	Old Capehart	8/6/2020	165	2	330		
OC460	Old Capehart	9/29/2020	137	1	137		
OC461	Old Capehart	9/29/2020	148	1	148		
OC465	Old Capehart	9/29/2020	162	1	162		
OC466	Old Capehart	9/29/2020	155	1	155		
OC472	Old Capehart	3/11/2020	301	2	602		
OC500	Old Capehart	7/15/2020	239	3	717		
OC501	Old Capehart	7/15/2020	249	2	498		
OC502	Old Capehart	7/15/2020	231	2	462		
OC503	Old Capehart	7/15/2020	46	2	92		
OC504	Old Capehart	7/15/2020	294	2	588		
OC510	Old Capehart	7/15/2020	198	2	396		
OC511	Old Capehart	7/15/2020	146	2	292		
OC511	Old Capehart	7/15/2020	146	2	292	yes	needed more cleaning
OC550	Old Capehart	7/22/2020	70	2	140		
OC551	Old Capehart	6/11/2020	261	2	522		
OC552	Old Capehart	6/11/2020	219	2	438		
OC553	Old Capehart	6/11/2020	230	2	460		
OC554	Old Capehart	6/8/2020	206	2	412		
OC555	Old Capehart	6/8/2020	299	2	598		
OC556	Old Capehart	6/8/2020	128	2	256		
OC600	Old Capehart	8/6/2020	78	2	156		
OC600A	Old Capehart	8/5/2020	267	2	534		
OC601	Old Capehart	8/5/2020	296	2	592		
OC602	Old Capehart	8/5/2020	307	2	614		
OC650	Old Capehart	8/5/2020	230	2	460		
OC700	Old Capehart	8/4/2020	193	2	386		
OC701	Old Capehart	8/4/2020	231	2	462		
OC701	Old Capehart	8/4/2020	231	2	462	yes	needed more cleaning
OC702	Old Capehart	8/4/2020	258	2	516		
OC703	Old Capehart	4/28/2020	143	2	286		
OC704	Old Capehart	4/28/2020	221	2	442		
OC750	Old Capehart	4/28/2020	185	2	370		
OC907	Old Capehart	10/21/2020	235	0	0		
PI015	Penobscot Intercept	4/6/2020	145	1	145		
PI016	Penobscot Intercept	4/6/2020	279	1	279		

# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
PI017	Penobscot Intercepto	4/6/2020	263	1	263		
PI018	Penobscot Intercepto	4/6/2020	231	1	231		
PI019	Penobscot Intercepto	4/6/2020	126	1	126		
PI020	Penobscot Intercepto	4/6/2020	159	1	159		
PI021	Penobscot Intercepto	4/6/2020	223	1	223		
PI022	Penobscot Intercepto	4/6/2020	263	1	263		
PI023	Penobscot Intercepto	4/6/2020	199	1	199		
PI024	Penobscot Intercepto	4/6/2020	287	1	287		
PI025	Penobscot Intercepto	4/6/2020	208	1	208		
PI025A	Penobscot Intercepto	4/6/2020	11	1	11		
PI025B	Penobscot Intercepto	4/6/2020	12	1	12		
PI034S1	Penobscot Intercepto	4/7/2020	201	1	201		
PI034S2	Penobscot Intercepto	4/7/2020	201	1	201		
PJ031	Penjajawoc	8/24/2020	256	2	512		
PJ036	Penjajawoc	8/13/2020	128	2	256		
PJ205	Penjajawoc	2/24/2020	258	2	516		
PJ206	Penjajawoc	2/24/2020	236	2	472		
PJ400	Penjajawoc	4/14/2020	186	2	372		
PJ400	Penjajawoc	9/16/2020	186	2	372	yes	known trouble spot
PJ401	Penjajawoc	9/16/2020	93	2	186		
PJ508	Penjajawoc	8/13/2020	235	2	470		
PJ509	Penjajawoc	8/13/2020	269	2	538		
PJ510	Penjajawoc	8/13/2020	198	2	396		
PJ511	Penjajawoc	8/13/2020	263	2	526		
PJ511A	Penjajawoc	8/13/2020	363	2	726		
PJ512	Penjajawoc	8/13/2020	235	2	470		
PJ513	Penjajawoc	8/13/2020	235	2	470		
PJ540	Penjajawoc	8/13/2020	180	2	360		
PJ541	Penjajawoc	8/13/2020	270	2	540		
PJ550	Penjajawoc	8/12/2020	220	2	440		
PJ551	Penjajawoc	8/12/2020	56	2	112		
PJ552	Penjajawoc	8/12/2020	247	2	494		
PJ552A	Penjajawoc	8/12/2020	78	2	156		
PJ553	Penjajawoc	8/12/2020	148	2	296		
PJ554	Penjajawoc	8/12/2020	140	2	280		
PJ555	Penjajawoc	8/12/2020	62	2	124		
PJ556	Penjajawoc	8/12/2020	229	2	458		
PJ557	Penjajawoc	8/12/2020	384	2	768		



# APPENDIX D: CLEANING LOG

City of Bangor, Maine  
Calendar Year 2020

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
PJ557	Penjajawoc	8/12/2020	384	2	768	yes	needed more cleaning
PJ558	Penjajawoc	8/12/2020	77	2	154		
PJ559	Penjajawoc	8/12/2020	179	2	358		
PJ560	Penjajawoc	8/12/2020	183	2	366		
PJ561	Penjajawoc	8/12/2020	326	2	652		
PJ562	Penjajawoc	8/12/2020	98	2	196		
PJ563	Penjajawoc	8/13/2020	167	2	334		
PJ570	Penjajawoc	8/12/2020	173	2	346		
PJ575	Penjajawoc	8/12/2020	235	2	470		
PJ576	Penjajawoc	8/12/2020	156	2	312		
PJ700	Penjajawoc	8/13/2020	301	2	602		
TDB002	Tank Davis Brook	4/6/2020	23	1	23		
WL200	Woodlawn	4/16/2020	338	2	676		
WL201	Woodlawn	4/16/2020	297	2	594		
WL400	Woodlawn	4/21/2020	297	2	594		
WL401	Woodlawn	4/16/2020	316	1	316		
WL450	Woodlawn	4/16/2020	305	1	305		
WL451	Woodlawn	4/16/2020	270	1	270		
WL500	Woodlawn	4/15/2020	48	2	96		
WL501	Woodlawn	4/15/2020	374	2	748		
WL503	Woodlawn	4/15/2020	236	2	472		
WL505	Woodlawn	4/15/2020	347	2	694		
WL506	Woodlawn	4/15/2020	329	2	658		
WL512	Woodlawn	4/15/2020	201	2	402		
WL513	Woodlawn	4/15/2020	214	2	428		
WL521	Woodlawn	4/15/2020	270	2	540		
WL601	Woodlawn	4/15/2020	132	2	264		
WL602	Woodlawn	4/15/2020	274	2	548		
<b>Total feet</b>					<b>200,866</b>		
<b>Total miles</b>					<b>38.0</b>		

## **Appendix E**

### **SSO Event Log**

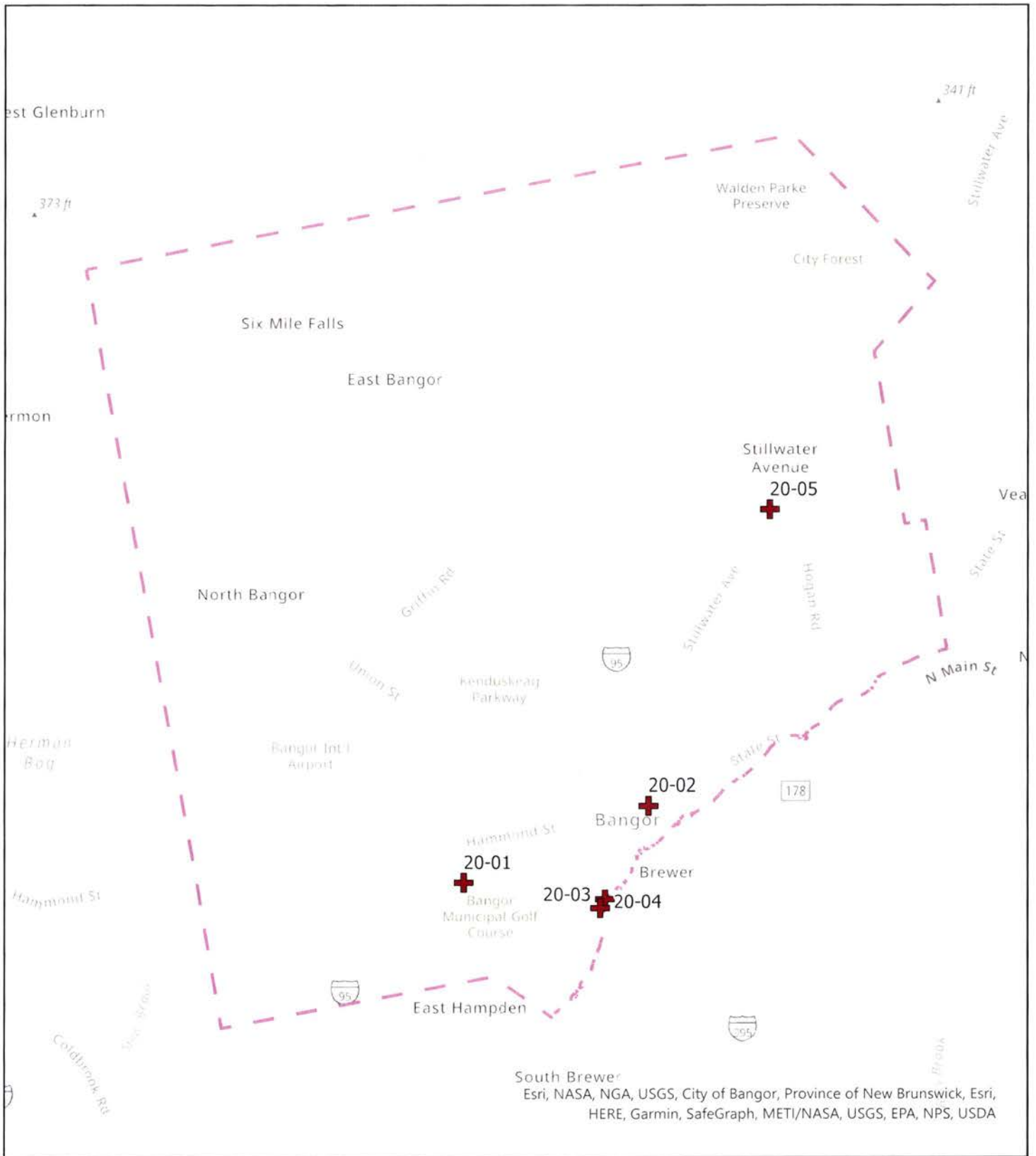
## APPENDIX E: SSO EVENT LOG

City of Bangor, Maine  
Calendar Year 2020

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
20-01	2/26/2020	2/26/2020	21 Fairways	Back into collection system	Sewer crew	Sewer crew was flushing city sewer main caused toilet overflow	No	Reduce flushing pressure and had resident cover toilet	Minimal	None
20-02	3/2/2020	3/6/2020	Intersection of State Street and Broadway	Drained to street stormwater line and discharged to Kenduskeag Stream outfall	Sewer crew	Sewer line was unknowingly damaged from previous utility construction project	No	Sewer line was repaired and manhole was added for access.	Unknown	None
20-03	4/3/2020	4/3/2020	Davis Brook Storage Conduit at Bangor Waterfront construction site	Pumped back into collection system downstream of construction site.	Sewer crew	Heavy rain and minor leaks in exposed storage conduit within construction area for Davis Brook CSO Tank	No	Sealed leaks in storage conduit using concrete fill against storage tank.	181,525 gallons based on volume calculation of area and depth	None
20-04	4/13/2020	4/13/2020	Davis Brook Storage Conduit at Bangor Waterfront construction site	Pumped back into collection system downstream of construction site.	Sewer crew	Heavy rain, snow melt, and minor leaks in exposed storage conduit within construction area for Davis Brook CSO Tank	No	Sealed additional leaks in storage conduit using concrete fill against storage tank.	32,400 gallons based on volume calculation of area and depth	None
20-05	7/23/2020	7/23/2020	849 Stillwater Avenue	Drained to street stormwater line and discharged to Penjajawoc Stream outfall	Business Owner	Excessive grease in sewer main from area restaurants	Yes	Sewer line was jetted and blockage was cleared. Code Enforcement was notified and is looking into grease collection systems at area restaurants.	50 -100 gallons/ visual estimate	None

## **Appendix F**

# **Location Map of Sanitary Sewer Overflows**



## Location of Sanitary Sewer Overflows 2020

