



CITY OF BANGOR

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Interim City Manager

OFFICE OF THE CITY MANAGER

January 28, 2022

Alex Rosenberg
Enforcement Officer
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5 Post Office Square – Suite 100
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RE: Annual Report on Compliance for Calendar Year 2021
(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 2021 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 combined sewer overflows (CSO's) within our City. We are excited that we are nearing the completion of the Davis Brook CSO Storage Tank project and look forward to the anticipated system improvements that will result from this important project.

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

Sincerely,

Debbie Laurie
Interim City Manager

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

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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	Appendix G
33	21.c [and 15]	CSO flow monitoring data (Annual CSO Progress Report to MEDEP)	III.A.4
33	21.d [and 9.c.(6)]	SSES Report	V
33	21.e [and 9.b.(5)]	MIP Report	III.D
33	21.f [and 9.c.(6), 11, 12, 18]	description of activities undertaken to achieve compliance by reducing SSO and CSO volumes	III.A.1-3
33	21.g	identification of all reports, plans, submissions required by CD that the City completed and submitted	II.A
33	21.h	description of activities expected for next reporting period to achieve compliance	VII
34	21.i	identification of any noncompliance	II.B

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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, 2022



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- C. CCTV Repair, Replacement, and Upgrade Log
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- F. Location Map of Sanitary Sewer Overflows
- G. Location Map of Illicit Connection

Certification Statement

City of Bangor, Maine

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

By: 

Debbie Laurie
Interim City Manager

Date: 1/26/2022

2021 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, 2021, and ending on December 31, 2021.

II. Status of Compliance

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

<u>Date Submitted</u>	<u>Deliverable</u>
January 28, 2021	Annual Report on Compliance for calendar year 2020
February 26, 2021	Copy of Annual CSO Report to DEP for calendar year 2020
June 29, 2021	Mid-year Report for 2021
June 30, 2021	Bangor Long Term Control Plan Update (Initial Submission)
July 1, 2021	GIS Deliverable (per Par. 9.a of the Consent Decree)
September 13, 2021	Copy of MS4 Permit Year 8 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

The City of Bangor is unaware of any incidences of non-compliance with the requirements of the Consent Decree identified for the 2021 reporting period.

III. Compliance Activities

A. Measures Taken to Reduce CSO and SSO Volumes

1. Capital Improvement Projects (CIP)

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.

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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 the Contractor is on schedule to complete the project by the contractual date of June of 2022. The project is funded through the SRF program and the construction cost for the project is about \$29.4 million.

Wing Park Sewer Improvements

This project re-routed 500 feet of undersized 12" sewer main that is located on Northern Light Hospital Property and relocated it to the public right of way along Hancock Street. The project upgraded the existing sanitary sewer main from 12" PVC sewer main up to 24" PVC sewer main. The project also replaced 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 included 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. The project also abandoned approximately 150 LF of older cross county 12" VC pipe that was only servicing four properties. Sewer service to these homes was rerouted to the new system.

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 was 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 was completed in September of 2021. The project was funded by the City of Bangor as a capital improvement. The cost of the sewer and stormwater improvements of this project was approximately \$1.40 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

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components have been replaced at the WWTP, and control upgrades at Kenduskeag Pump Station have been installed. Phase II of the SCADA upgrade project began in the third quarter of 2021. Design Plans for this project are about 90 percent complete. Implementation of the new improvements are scheduled to begin in the summer of 2022. This project is an SRF funded project with a total estimated budget of about \$1.85 million.

Wastewater Treatment Plant Generator

The City of Bangor 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 of the generator is nearly complete. Initial startup of the new generator is scheduled for February of 2022. This project is a SRF funded project with a total estimated project budget of \$2.65 million.

Water Street utility Improvements

The City of Bangor Engineering Department has been working on the design plans for a utility improvement project on Water Street. This project includes constructing approximately 440 linear feet of 8-inch diameter ductile iron water main replacement with appurtenances, removing and replacing 260 linear feet of 24-inch diameter sewer main, constructing 370 linear feet of 15-inch diameter storm drain, installing 2 sewer manholes, installing 4 catch basins and surface restoration.

This project will separate stormwater flows from the sanitary sewer system in this portion of Water Street. The City anticipates advertising this project in late winter of 2022 with construction to begin in spring of 2022.

Randolph Drive Sewer Replacement

The City of Bangor Engineering Department has been working on the design plans for a sanitary sewer replacement project on Randolph Drive. The project consists of removing and replacing approximately 1,600 linear feet of 8-inch diameter sewer main, 800 linear feet of 4-inch diameter sewer laterals and installing 8 sewer manholes. The City anticipates advertising this project in late winter of 2022 with construction to begin this spring.

Small Projects Improvements

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

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

There are occasions however, when this work is also reactive when sewer emergencies do occur. The City has been maintaining this Small Project's Account for 7 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 2021. The work includes the installation of 18 new manholes, 8 replacement manholes, 780 feet of 8" PVC sewer main, 569 feet of 10" PVC sewer main, 195 feet of 12" PVC sewer main, 231 feet of 15" PVC sewer main, and 233 feet of 24" PVC sewer main. The total cost of work completed under the Small Projects Account for the year 2021 was approximately \$685,300.

Small Projects Account - Year 2021 Summary

Street Name (Nearest to Project)	Work Completed	Date Completed
Maine Avenue	Replaced 31 lf of old sewer with 10" PVC	1-18-2021
Boyd Street	Replaced 278 lf of old sewer with 10" PVC, replaced 1 manhole and installed 1 new manhole	3-30-2021
French Street	Replaced 265 lf of old sewer with 8" PVC and replaced 1 manhole	4-14-2021
Autumn Street	Replaced 65 lf of old sewer with 12" PVC	4-17-2021
Wellesley Way	Replaced 8 lf of old sewer with 8" PVC	4-28-2021
Yale Street	Replaced 17 lf of old sewer with 8" PVC	5-18-2021
Carroll Street	Replaced 73 lf of old sewer with 12" PVC	5-28-2021
Sydney Street	Replaced 59 lf of old sewer with 8" PVC and replaced 2 manholes	5-29-2021
Fifth Street	1 new manhole for access	6-5-2021
William Street	Replaced 47 lf of old sewer with 10" PVC and 57 lf of old sewer with 12" PVC, installed 2 new manholes	6-14-2021
Larkin Street	Replaced 13 lf of old sewer with 8" PVC	6-21-2021
Washington Street	Replaced 56 lf of old sewer with 10" PVC, installed 1 new manhole	6-24-2021

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Hempstead Avenue	Replaced 261 lf of old sewer with 8" PVC, 75 lf of old sewer with 10" PVC, and 231 lf of old sewer with 15" PVC, installed 3 new manholes and replaced 1 manhole	6-28-2021
Fourth Street	Replaced 233 lf of old sewer with 24" PVC, installed 3 new manholes	7-19-2021
Judson Heights Subdivision Heather Road, Packard Street, Judson Boulevard	Replaced 104 lf of old sewer with 8" PVC	7-28-2021
Brewster Street	Replaced 250 lf of old sewer with 8" PVC, replaced 1 manhole	8-11-2021
Grandview Avenue	Replaced 1 manhole and 3 lf of 8" PVC	8-23-2021
Savage Street	Replaced 82 lf of old sewer with 10" PVC, replaced 1 manhole	8-27-2021
Forest Avenue	Installed 1 new manhole	10-18-2021
State Street	Installed 3 new manholes	11-11-2021
Brown Street	Installed 1 new manhole	11-18-2021
Hildreth Street	Installed 1 new manhole	12-29-2021

Asset Management Program

The City of Bangor has drafted a request for proposals (RFP) for asset management software packages to assist the City in the organizing and managing of City assets including the collection system, waste water treatment plant, stormwater system, and city transportation infrastructure. The City will be issuing the RFP the first week in February 2022 and hoping to implement a selected software package by the spring of 2022. The City has included the purchase of this software package in this year's budget. The City of Bangor has a robust GIS system and the intent of this asset management software is to complement our GIS system and help with further analysis of our systems.

The City Water Quality Department and Engineering Department have kept the Bangor City Council informed on the progress that the City is making towards our goal of reducing CSO's with the sanitary collection system. Members of the Bangor City Council visited the construction site for the Davis Brook Tank twice during the summer of 2021. The Bangor City Council is supportive of the City's efforts towards the reduction of CSO's. The Council supported a rate increase of 4.0% in 2021 and has been informed that an additional similar rate increase is expected in July of 2022. The Water Quality Department discussed future rate increases to support our clean water goals at the December 7, 2021 Infrastructure

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Meeting. The Council understood that future rate increases are expected and are supportive of these efforts.

2. Weir and Regulator Adjustments

All regulators and weir level instrumentation were visibly inspected in the spring of 2021 and found to be functioning properly. No adjustments have been made this past year. Inspection of regulators and weirs are completed on an annual basis.

3. Other

- Continued clearing cross-country sewer easement areas. Cleared cross-country easements have been maintained.
- Performed visual inspections of the cross-country sewer easements three times in 2021. 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 2020, which was submitted to Maine DEP on February 26, 2021. 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 2021 to Maine DEP by March 1, 2022. A copy of the report will also be submitted to EPA.

B. Illicit Connections

1. List of Illicit Connections

There were no illicit connections discovered in 2021. However, during the past couple of years, contamination had been identified through the city's routine stormwater outfall inspection of the stormwater system along Hammond Street and Hildreth Street. The City's Stormwater Manager conducted an extensive investigation into the source of this contamination. The City believes that the private sanitary sewer from 120 Rice Street, which had a conflict with the storm water line, was the source of contamination. The City recently replaced a portion of this private sewer service and eliminated the conflict with the storm water line. A test taken on January 18, 2022 showed negligible contamination in the stormwater outfall. The City believes that we have eliminated this indirect illicit connection to the stormwater system.

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2. GIS Map of Each Illicit Connection

There were no illicit connections discovered in 2021. The location of the indirect illicit connection to the stormwater system that was repaired on Hildreth Street is provided in the Appendix G of this report.

C. Collection System Assessments and Maintenance

Based on the most current GIS data available, the length of the inspectable portion of the City's sewer collection system is approximately 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.

There are approximately 3,367 manholes in the collection system, including the new ones added this year.

1. CCTV Assessments

The City and/or its subcontractors completed 83,752 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 72,106 linear feet, or about 10.2% 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 341 publicly owned sewer collection system manholes in 2021, which is about 10% of the total number of public manholes in the system. This number includes eight repeat inspections. Refer to [Appendix B](#) (Manhole Inspection Log) for a complete listing of inspections completed during the reporting period.

3. Repairs, Replacements, or Upgrades Identified by CCTV

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

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4. Cleaning

The City and/or its subcontractors cleaned 146,414 linear feet of pipe within the publicly owned sewer collection system in 2021, including repeat cleanings. The total length of pipe cleaned excluding repeat cleanings and additional passes is 130,622 linear feet, or about 18.4% 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.

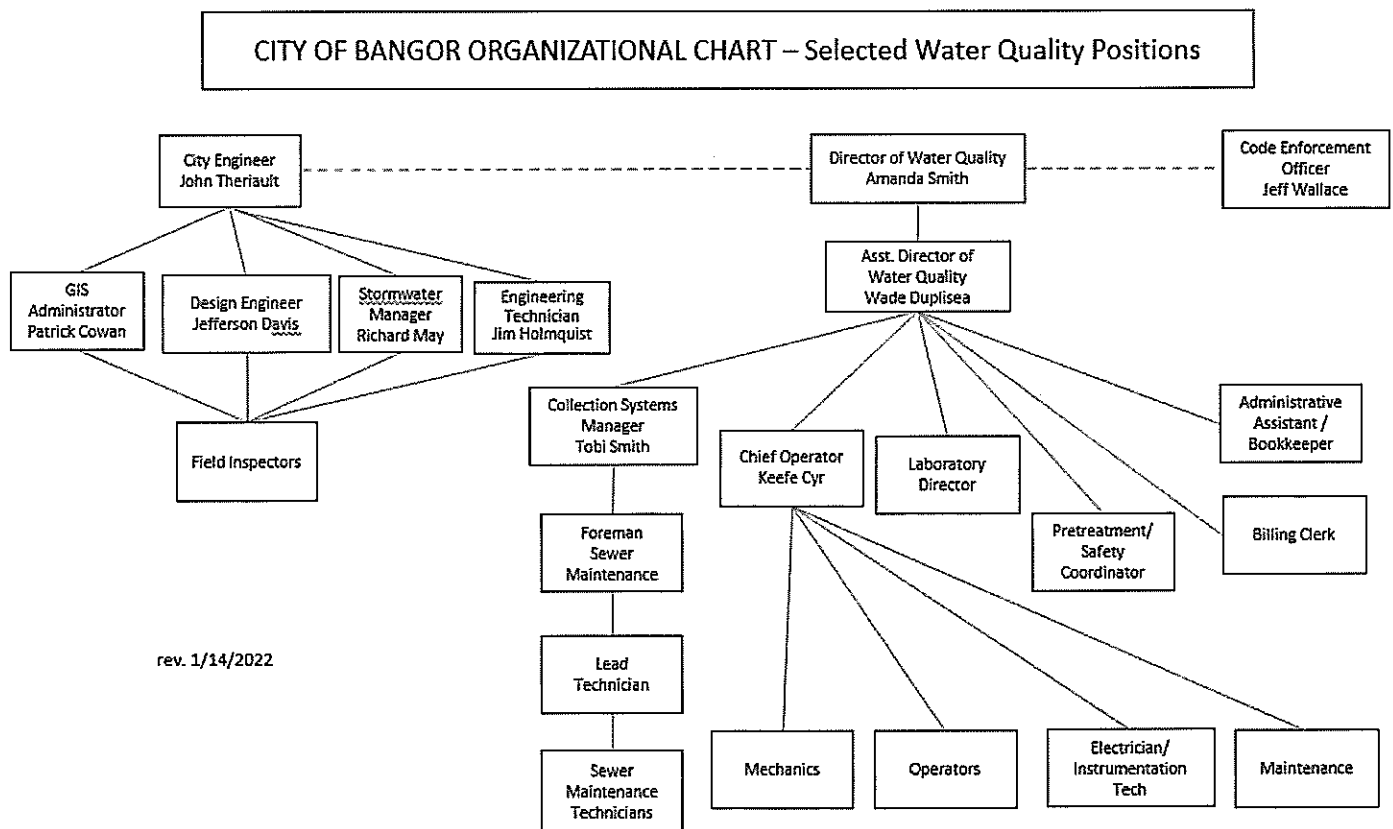
D. Maintenance Improvement Plan (MIP)

The City revises and updates the MIP on a yearly basis. The following substantive changes were made in 2021.

1. Plan Updates

a) *Organizational Structure, Information Management, Contacts*

The following is the current organization chart showing key positions.



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b) Changes to System Maps

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

c) Incorporation of Cleaning, Inspection, and Assessment Programs

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

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

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

2. Performance Metrics

a) SSOs

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

Total number of SSOs	11
Estimated total volume of SSOs (gallons)	160,463
Number of dry weather SSOs	2
Number of wet weather SSOs	6
Number of SSOs where weather was either unknown or irrelevant to type of incident	3
Number of SSOs caused primarily by pipe blockage (debris, grease)	1
Number of SSOs caused primarily by pipe failure	1

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 75 pump station work orders completed during the reporting period. Kenduskeag pump station is checked seven days per week. The other pump stations are

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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 2021 reporting period, the City permitted the installation of nine new grease traps and one replacement grease trap at nine locations. These grease traps were permitted and inspected through the Bangor City Code Department. The Bangor City Code Department requires and reviews grease trap maintenance logs at time of business license renewal. The Code office works with Businesses to make sure they keep up-to-date with grease trap logs.

IV. Sanitary Sewer Overflows (SSOs)

A. Chronological List of SSOs

There were eleven SSOs that occurred during the reporting period. Five of these SSOs occurred on July 9, 2021 as a result of Tropical Storm Elsa which provided over 4 inches of rain in about 4 ½ hours. 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 continued conducting CCTV pipe inspections in the Davis Brook, Barkersville, Carr Brook, and Kenduskeag East subsections during high groundwater as a part of the City's Phase 3 SSES Work for 2017-2021. Other locations throughout the City were also investigated as necessary and as a part of ongoing City projects. The CCTV footage and manhole reports are reviewed for quality and completeness.

The City retained AECOM to complete the final Survey Report of the results of the Phase 3 SSES work, which will be submitted by January 31, 2022. AECOM has also assisted the City of Bangor with the Development of the Scope of Work for SSES Phase 4 work, which we anticipate will include investigations into the Sewer Subsections of Cemetery, Hildreth-Perry, Kenduskeag West, and Meadowbrook. This investigative work will occur during 2022 to 2026.

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

The City has removed an estimated 528,200 GPD of infiltration and inflow from the system since 2015. This is a result of continued work on our collection system through projects outlined within the LTCP as well as ongoing maintenance and repair projects completed by the City.

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

** Projects included for 2021 estimate of reduction of infiltration include the Wing Park Sewer Improvement project and the multiple projects completed under small project improvement program.*

***The 2021 estimate is based on the length of new sewer installed that replaced older sewer and assumes a reduction of infiltration of 6,000 GPD/Inch Diameter/miles of sewer.*

The City has been working this past year with AECOM, EPA, and DEP to modify the current LTCP to allow for a period of monitoring the Davis Brook Tank project once in operation in June of 2022 to determine this significant project's impacts on the collection system and the frequency of CSOs.

The City has also committed to completing a stormwater separation project in the Meadowbrook sewer shed during the Davis Brook Tank monitoring period.

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.

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- 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. SSES Phase 4 investigative work in sewer subsections including Cemetery, Hildreth-Perry, Kenduskeag West, and Meadowbrook will also be a point of focus.
- 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, 2022.
- Submit the Annual Report for MS4 to DEP and EPA, due on or before September 15, 2022.
- Complete construction on the Davis Brook CSO Storage Tank within the Davis Brook sewer subsection and begin monitoring impact of Davis Brook Tank on CSO frequency in collection system.
- Complete construction of Water Street Utility Improvement project.
- Complete Construction of Randolph Road Sewer Improvements project.
- Complete construction and installation of WWTP backup power generator system and get generator fully operational.
- Continue to update WWTP and collection system SCADA system.
- Begin development of design for stormwater separation project in Meadowbrook sewer shed.

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

Appendices

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

APPENDIX A: CCTV INSPECTION LOG

City of Bangor, Maine
Calendar Year 2021

Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
AB055	Arctic Brook	3/15/2021	10.6	Yes	Maintenance Related
AB056	Arctic Brook	3/15/2021	283.3	Yes	Maintenance Related
AB075	Arctic Brook	3/15/2021	11	Yes	Maintenance Related
AB076	Arctic Brook	3/15/2021	28.8	Yes	Maintenance Related
AB124	Arctic Brook	3/10/2021	6.5	Yes	Reversal
AB124	Arctic Brook	3/11/2021	169	Yes	Resurvey
AB124	Arctic Brook	8/23/2021	53.7	Yes	Post Rehab Inspection
AB124	Arctic Brook	10/22/2021	56.5	Yes	Maintenance Related
AB124	Arctic Brook	3/10/2021	49.9	Yes	Pre Rehab Inspection
AB124	Arctic Brook	3/11/2021	51.2	Yes	Reversal
AB124	Arctic Brook	8/23/2021	192.6	Yes	Reversal
AB236	Arctic Brook	6/22/2021	5.8	Yes	Reversal
AB236	Arctic Brook	6/22/2021	53.7	Yes	Post Rehab Inspection
AB261	Arctic Brook	6/22/2021	67.6	No	Reversal
AB261	Arctic Brook	6/22/2021	95.3	Yes	Post Rehab Inspection
AB461	Arctic Brook	10/20/2021	18.5	Yes	Maintenance Related
AB461	Arctic Brook	10/20/2021	18.7	Yes	Resurvey
AB508	Arctic Brook	3/10/2021	190.5	Yes	Pre Rehab Inspection
AB621	Arctic Brook	3/31/2021	299	Yes	Maintenance Related
AB622	Arctic Brook	3/31/2021	180.5	Yes	Reversal
AB622	Arctic Brook	3/31/2021	166.8	Yes	Maintenance Related
AB622A	Arctic Brook	3/31/2021	194.5	No	
AB622B	Arctic Brook	3/31/2021	123.3	No	
AB623	Arctic Brook	3/31/2021	54	Yes	Maintenance Related
AB624	Arctic Brook	2/18/2021	230.6	Yes	Maintenance Related
AB625	Arctic Brook	4/5/2021	335	No	
AB700	Arctic Brook	9/1/2021	199.8	No	
AB701	Arctic Brook	3/5/2021	301.3	No	
AB701	Arctic Brook	9/1/2021	300.1	Yes	Post Rehab Inspection
AB702	Arctic Brook	3/5/2021	247	No	
AP023	Airport	7/13/2021	110	Yes	Maintenance Related
AP330	Airport	3/10/2021	237.3	Yes	Pre Rehab Inspection
AP333	Airport	5/10/2021	155.5	No	
AP406	Airport	8/23/2021	198.5	Yes	Pre Rehab Inspection
AP409	Airport	3/10/2021	0	Yes	Reversal
AP409	Airport	8/23/2021	273.8	Yes	Pre Rehab Inspection
AP451	Airport	6/23/2021	161.3	Yes	Post Rehab Inspection
AP608	Airport	1/12/2021	564	Yes	Maintenance Related
AP609	Airport	1/11/2021	450	Yes	Maintenance Related
AP609	Airport	1/11/2021	256.7	Yes	Maintenance Related
AP610	Airport	1/11/2021	211.3	Yes	Maintenance Related
AP621	Airport	5/10/2021	63.7	No	
AP621	Airport	5/10/2021	46.2	Yes	Resurvey
AP652	Airport	5/10/2021	310	No	
AP653	Airport	4/30/2021	440.3	No	Reversal
AP653	Airport	4/30/2021	20.3	No	
AP664	Airport	2/9/2021	315.2	No	
AP700A	Airport	11/30/2021	262.7	Yes	Pre Rehab Inspection
AP704	Airport	6/4/2021	259.1	Yes	Post Rehab Inspection
AP704	Airport	6/22/2021	268.6	Yes	Post Rehab Inspection

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AP704	Airport	6/22/2021	4.5	Yes	Reversal
AP740	Airport	11/10/2021	110.6	Yes	Maintenance Related
AP740A	Airport	11/2/2021	129.3	Yes	Maintenance Related
AP741	Airport	11/10/2021	104.9	Yes	Maintenance Related
AP750	Airport	11/10/2021	54.4	Yes	Maintenance Related
AP751	Airport	11/10/2021	142.3	No	
AP752	Airport	11/10/2021	47.7	No	
AS002	Autumn Street	4/7/2021	185.3	No	
BS014	Blanchard Street	2/22/2021	26.2	No	
BU018	Burleigh	1/5/2021	332.7	Yes	Post Rehab Inspection
BU026	Burleigh	1/22/2021	398.1	Yes	Maintenance Related
BU503	Burleigh	7/27/2021	146.6	Yes	Maintenance Related
BU503	Burleigh	8/24/2021	250.5	Yes	Post Rehab Inspection
BU505	Burleigh	8/24/2021	149.6	Yes	Post Rehab Inspection
BU505	Burleigh	10/19/2021	148	Yes	Post Rehab Inspection
BU506	Burleigh	8/23/2021	289.5	Yes	Post Rehab Inspection
BU510	Burleigh	8/24/2021	364.6	Yes	Post Rehab Inspection
BU512	Burleigh	8/24/2021	127.3	Yes	Post Rehab Inspection
BU512	Burleigh	8/24/2021	259.3	Yes	Reversal
BU514	Burleigh	8/24/2021	246.6	Yes	Post Rehab Inspection
BU530	Burleigh	8/24/2021	291.1	Yes	Post Rehab Inspection
BU532	Burleigh	8/23/2021	184.3	Yes	Post Rehab Inspection
BU560	Burleigh	3/10/2021	109.3	Yes	Maintenance Related
BU570	Burleigh	4/13/2021	169.6	Yes	Maintenance Related
BU571	Burleigh	4/13/2021	116.6	Yes	Maintenance Related
BU572	Burleigh	4/13/2021	274.3	Yes	Maintenance Related
BV006	Barkersville	7/16/2021	150.8	No	
BV007	Barkersville	7/16/2021	167.6	No	
BV026	Barkersville	4/13/2021	4.6	No	
BV027	Barkersville	4/13/2021	249.8	No	
BV028	Barkersville	4/14/2021	291.1	Yes	Resurvey
BV028A	Barkersville	4/14/2021	393	Yes	Resurvey
BV062	Barkersville	4/15/2021	61.2	Yes	Reversal
BV062	Barkersville	4/15/2021	50.2	Yes	Maintenance Related
BV063	Barkersville	4/15/2021	317.5	Yes	Maintenance Related
BV216	Barkersville	12/10/2021	62.2	No	
BV217	Barkersville	12/10/2021	23.8	No	
BV217A	Barkersville	12/10/2021	113.4	No	
BV330	Barkersville	6/22/2021	82.6	Yes	Post Rehab Inspection
BV335	Barkersville	6/22/2021	100.9	Yes	Post Rehab Inspection
BV407	Barkersville	11/5/2021	170.5	Yes	Maintenance Related
BV451	Barkersville	7/22/2021	45.2	Yes	Maintenance Related
BV465A	Barkersville	8/23/2021	310.7	Yes	Post Rehab Inspection
BV520A	Barkersville	8/24/2021	314.7	Yes	Post Rehab Inspection
BV562	Barkersville	4/21/2021	17.2	Yes	Maintenance Related
BV587	Barkersville	2/18/2021	161.8	Yes	Pre Rehab Inspection
BV587	Barkersville	2/19/2021	104.1	Yes	Reversal
BV730	Barkersville	4/13/2021	110.1	Yes	Maintenance Related
BV741	Barkersville	4/13/2021	407.2	Yes	Maintenance Related
CB011A	Carr Brook	9/7/2021	43	No	

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CB012	Carr Brook	9/7/2021	295.3	Yes	Pre Rehab Inspection
CB100A	Carr Brook	9/7/2021	75.5	No	
CB101A	Carr Brook	9/7/2021	190.6	Yes	Pre Acceptance New Sewers
CB127	Carr Brook	2/22/2021	2	No	
CB133	Carr Brook	3/16/2021	646	Yes	Maintenance Related
CB134	Carr Brook	3/17/2021	117.9	Yes	Maintenance Related
CB134	Carr Brook	3/17/2021	185.1	Yes	Reversal
CB140	Carr Brook	3/16/2021	410.2	Yes	Reversal
CB140	Carr Brook	3/15/2021	270	Yes	Maintenance Related
CB141	Carr Brook	3/16/2021	189.3	Yes	Maintenance Related
CB145	Carr Brook	3/16/2021	64.9	Yes	Maintenance Related
CB145	Carr Brook	3/16/2021	43.4	Yes	Reversal
CB150	Carr Brook	4/12/2021	300.5	Yes	Maintenance Related
CB151	Carr Brook	4/12/2021	222	Yes	Maintenance Related
CB155	Carr Brook	3/15/2021	156	Yes	Maintenance Related
CB166	Carr Brook	1/11/2021	2.7	Yes	Reversal
CB166	Carr Brook	8/24/2021	246.3	Yes	Post Rehab Inspection
CB166	Carr Brook	1/11/2021	241.5	Yes	Pre Rehab Inspection
CB201A	Carr Brook	5/6/2021	146.8	Yes	Maintenance Related
CB210	Carr Brook	9/2/2021	21	No	Reversal
CB270	Carr Brook	2/19/2021	278.7	No	
CB271	Carr Brook	2/19/2021	299.3	No	
CB350	Carr Brook	5/10/2021	288.3	Yes	Maintenance Related
CB363	Carr Brook	10/21/2021	77.5	No	
CB364	Carr Brook	10/21/2021	201.3	No	
CB365	Carr Brook	9/2/2021	25.7	No	
CB366	Carr Brook	9/2/2021	108.5	No	
CB368	Carr Brook	10/21/2021	276.2	No	
CB369	Carr Brook	10/20/2021	176.5	No	
CB370	Carr Brook	10/20/2021	139.5	No	
CB371	Carr Brook	10/20/2021	100	No	
CB372	Carr Brook	10/21/2021	48	No	
CB373	Carr Brook	9/2/2021	87.6	No	
CB373	Carr Brook	9/7/2021	88.3	Yes	Maintenance Related
CB374	Carr Brook	10/20/2021	147.5	No	
CB406	Carr Brook	1/11/2021	111	Yes	Reversal
CB406	Carr Brook	1/11/2021	27.1	Yes	Pre Rehab Inspection
CB505	Carr Brook	1/12/2021	394.2	Yes	Pre Rehab Inspection
CB603	Carr Brook	1/13/2021	3.2	Yes	Reversal
CB603	Carr Brook	1/13/2021	394.8	Yes	Pre Rehab Inspection
CB701	Carr Brook	1/12/2021	455.7	Yes	Pre Rehab Inspection
CB702	Carr Brook	1/12/2021	6.6	Yes	Pre Rehab Inspection
CB802	Carr Brook	1/12/2021	381.7	Yes	Pre Rehab Inspection
CB802	Carr Brook	9/28/2021	401.2	Yes	Maintenance Related
CM501	Cemetery	3/11/2021	242	Yes	Reversal
CM517	Cemetery	6/4/2021	318.2	No	
CM571	Cemetery	3/15/2021	116.1	Yes	Maintenance Related
CM580	Cemetery	3/16/2021	299.2	Yes	Maintenance Related
CM581	Cemetery	3/16/2021	192.1	Yes	Maintenance Related
CM590	Cemetery	3/16/2021	203.6	Yes	Maintenance Related

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CM591	Cemetery	3/16/2021	183.6	Yes	Maintenance Related
CM651A	Cemetery	1/8/2021	18.7	No	
CM780	Cemetery	6/4/2021	31.8	No	
CM781	Cemetery	3/15/2021	74	Yes	Maintenance Related
CM790	Cemetery	3/17/2021	257.3	Yes	Maintenance Related
CM791	Cemetery	3/17/2021	249.8	Yes	Maintenance Related
CS006	Central Street	3/9/2021	41.5	Yes	Maintenance Related
CS999	Central Street	2/26/2021	23.1	No	
CS999	Central Street	4/15/2021	23.5	Yes	Resurvey
CW004	Cardinal Way	2/18/2021	115.5	No	
CW005	Cardinal Way	2/18/2021	143.3	No	
CW006	Cardinal Way	2/18/2021	234.1	No	
CW007	Cardinal Way	2/18/2021	42.9	No	
DB110A	Davis Brook	3/15/2021	375.3	Yes	Maintenance Related
DB120A	Davis Brook	3/15/2021	<Null>	Yes	Maintenance Related
DB304A	Davis Brook	7/20/2021	32.7	Yes	Maintenance Related
DB304B	Davis Brook	5/16/2021	329.7	Yes	Maintenance Related
DB304B	Davis Brook	11/17/2021	388.6	Yes	Maintenance Related
DB405	Davis Brook	5/20/2021	126.8	Yes	Maintenance Related
DB406	Davis Brook	3/19/2021	724.7	Yes	Maintenance Related
DB407	Davis Brook	3/18/2021	276.6	Yes	Maintenance Related
DB421	Davis Brook	6/22/2021	270.6	Yes	Post Rehab Inspection
DB422	Davis Brook	6/2/2021	245.5	Yes	Post Rehab Inspection
DB423	Davis Brook	3/18/2021	172.3	Yes	Maintenance Related
DB423	Davis Brook	5/21/2021	169.3	Yes	Pre Rehab Inspection
DB520	Davis Brook	1/11/2021	50.5	Yes	Pre Rehab Inspection
DB620	Davis Brook	5/6/2021	134.1	Yes	Reversal
DB620	Davis Brook	5/11/2021	134.8	Yes	Resurvey
DB620	Davis Brook	6/2/2021	154.1	Yes	Post Rehab Inspection
DB620	Davis Brook	4/27/2021	9.8	Yes	Maintenance Related
DB620	Davis Brook	5/20/2021	103.5	Yes	Reversal
DB620	Davis Brook	6/2/2021	82.8	Yes	Reversal
DB700	Davis Brook	8/30/2021	69.5	Yes	Maintenance Related
DB700	Davis Brook	8/30/2021	157.5	Yes	Reversal
DB700	Davis Brook	10/20/2021	238.8	Yes	Post Rehab Inspection
DB715	Davis Brook	7/13/2021	39.5	No	
DB715	Davis Brook	7/20/2021	78.9	Yes	Resurvey
DB715A	Davis Brook	7/13/2021	471	No	
DB715B	Davis Brook	7/15/2021	401.6	No	
DB735	Davis Brook	6/3/2021	131.8	No	
DB735	Davis Brook	6/3/2021	251	Yes	Resurvey
DB750	Davis Brook	3/25/2021	174.8	Yes	Maintenance Related
DB750	Davis Brook	6/10/2021	172	Yes	Maintenance Related
DB750	Davis Brook	8/24/2021	105	Yes	Post Rehab Inspection
DB750A	Davis Brook	8/24/2021	65.5	Yes	Post Rehab Inspection
DB751	Davis Brook	3/25/2021	180.6	Yes	Maintenance Related
DB751	Davis Brook	8/24/2021	183.6	Yes	Post Rehab Inspection
DN502	Dutton Street	2/19/2021	52.4	No	
DN503	Dutton Street	2/19/2021	24.7	No	
DN504	Dutton Street	2/19/2021	94.1	No	

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DN505	Dutton Street	2/19/2021	52	No	
DW204	Dow	6/24/2021	30	Yes	Maintenance Related
DW255	Dow	6/24/2021	30.1	Yes	Maintenance Related
DW450	Dow	1/11/2021	166.7	Yes	Post Rehab Inspection
DW450	Dow	2/5/2021	214	Yes	Post Rehab Inspection
DW450	Dow	1/14/2021	16.3	Yes	Reversal
DW650	Dow	1/5/2021	372.2	Yes	Post Rehab Inspection
DW660	Dow	1/11/2021	196.5	Yes	Post Rehab Inspection
DW662	Dow	9/2/2021	154.6	No	
DW662A	Dow	9/2/2021	26.5	No	
DW999	Dow	6/23/2021	247.8	No	
EK011	Kenduskeag East	1/13/2021	30.1	No	
ES002	Everett Street	2/24/2021	200.3	No	Reversal
ES002	Everett Street	6/25/2021	147.8	Yes	Reversal
ES002	Everett Street	2/23/2021	276	No	
ES002	Everett Street	6/25/2021	292.7	Yes	Maintenance Related
ES003A	Everett Street	2/23/2021	127.9	No	
ES003A	Everett Street	6/25/2021	127.9	Yes	Maintenance Related
ES202A	Everett Street	2/23/2021	0	No	
FK001	Franklin Street	2/25/2021	28.6	Yes	Resurvey
FK304	Franklin Street	3/18/2021	189.1	Yes	Maintenance Related
FK305	Franklin Street	3/18/2021	214.1	Yes	Maintenance Related
FS050	Fourteenth Street	3/16/2021	271.2	Yes	Maintenance Related
FS102	Fourteenth Street	2/8/2021	16.7	No	
FS103	Fourteenth Street	2/8/2021	135.6	No	
FS201	Fourteenth Street	3/29/2021	0	No	Reversal
FS201	Fourteenth Street	2/18/2021	702	Yes	Post Rehab Inspection
FS201	Fourteenth Street	3/26/2021	681	Yes	Maintenance Related
FS202	Fourteenth Street	3/26/2021	153.5	Yes	Maintenance Related
FS300	Fourteenth Street	2/9/2021	26.1	No	
FS301	Fourteenth Street	2/9/2021	68.3	No	
FS302	Fourteenth Street	2/9/2021	309.3	No	
HD001	Hampden	2/22/2021	23.2	No	
HD002	Hampden	2/22/2021	171.5	No	
HD003	Hampden	2/22/2021	80.5	No	
HD004	Hampden	2/22/2021	82.6	No	
HD005	Hampden	2/22/2021	273	No	
HD006	Hampden	2/23/2021	157.6	No	
HD007	Hampden	2/23/2021	189.6	No	
HK015A	Hancock Street	11/17/2021	303.2	No	
HK016	Hancock Street	10/15/2021	252.1	No	
HK016A	Hancock Street	10/15/2021	213	No	
HK022	Hancock Street	6/22/2021	112.5	Yes	Pre Rehab Inspection
HK022	Hancock Street	6/24/2021	246.6	Yes	Post Rehab Inspection
HK023	Hancock Street	6/25/2021	229.8	No	
HK023	Hancock Street	6/25/2021	244.5	Yes	Resurvey
HK060	Hancock Street	1/12/2021	17.7	Yes	Pre Rehab Inspection
HK070	Hancock Street	3/18/2021	44	Yes	Maintenance Related
HK070	Hancock Street	4/2/2021	202.3	Yes	Pre Acceptance New Sewers
HK070A	Hancock Street	4/2/2021	21.8	Yes	Pre Acceptance New Sewers

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HK071	Hancock Street	3/18/2021	0.3	Yes	Maintenance Related
HK071	Hancock Street	4/2/2021	70	Yes	Pre Acceptance New Sewers
HK095	Hancock Street	11/17/2021	109.6	No	
HK575	Hancock Street	3/8/2021	36.4	Yes	Maintenance Related
HK700	Hancock Street	6/23/2021	27.6	Yes	Maintenance Related
HK700	Hancock Street	6/23/2021	68.6	Yes	Maintenance Related
HK702A	Hancock Street	10/21/2021	64.8	No	
HK703	Hancock Street	6/24/2021	153.1	Yes	Post Rehab Inspection
HK705	Hancock Street	6/24/2021	25.2	Yes	Reversal
HK705	Hancock Street	6/22/2021	26.7	Yes	Post Rehab Inspection
HK705	Hancock Street	6/24/2021	28.7	Yes	Resurvey
HP002	Hildreth Perry	2/9/2021	86.8	No	
HP004	Hildreth Perry	2/9/2021	25	No	
HP005	Hildreth Perry	1/14/2021	128.8	No	
HP006	Hildreth Perry	1/14/2021	170.3	No	
HP007	Hildreth Perry	1/14/2021	157.1	No	
HP010	Hildreth Perry	1/14/2021	327.8	No	
HP011	Hildreth Perry	1/14/2021	262.8	No	
HP012	Hildreth Perry	1/14/2021	26.7	No	
HP013	Hildreth Perry	1/29/2021	326.5	No	
HP014	Hildreth Perry	1/28/2021	348	No	
HP015	Hildreth Perry	1/21/2021	273.7	No	
HP016	Hildreth Perry	1/21/2021	303.7	No	
HP017	Hildreth Perry	1/21/2021	227.1	No	
HP018	Hildreth Perry	1/27/2021	480.7	No	
HP022	Hildreth Perry	1/21/2021	267.7	No	
HP023	Hildreth Perry	1/21/2021	281.5	No	
HP024	Hildreth Perry	1/22/2021	460.5	No	
HP027	Hildreth Perry	1/27/2021	182.6	No	
HP028	Hildreth Perry	1/27/2021	341	No	
HP029	Hildreth Perry	1/27/2021	311.5	No	
HP030	Hildreth Perry	1/26/2021	321.1	Yes	Resurvey
HP031	Hildreth Perry	1/26/2021	427	No	
HP032	Hildreth Perry	1/26/2021	23.7	No	
HP033	Hildreth Perry	1/26/2021	86.9	Yes	Reversal
HP033	Hildreth Perry	1/26/2021	300.1	No	
HP035	Hildreth Perry	1/28/2021	203.8	No	
HP036	Hildreth Perry	1/28/2021	440.2	No	
HP050	Hildreth Perry	1/25/2021	98.5	No	
HP051	Hildreth Perry	1/25/2021	293.2	Yes	
HP051	Hildreth Perry	1/25/2021	93.2	Yes	Reversal
HP070	Hildreth Perry	1/25/2021	98	No	
HP070	Hildreth Perry	2/5/2021	97.9	Yes	Maintenance Related
HP070	Hildreth Perry	8/5/2021	99.9	Yes	Resurvey
HP071	Hildreth Perry	8/5/2021	150.5	Yes	Reversal
HP071	Hildreth Perry	2/5/2021	345.3	No	
HP071	Hildreth Perry	8/5/2021	204.5	Yes	Resurvey
HP072	Hildreth Perry	2/8/2021	310.6	No	
HP072	Hildreth Perry	2/8/2021	40	No	Reversal
HP073	Hildreth Perry	2/18/2021	74.3	No	

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HP080	Hildreth Perry	1/15/2021	34.5	No	
HP081	Hildreth Perry	1/15/2021	69.3	No	
HP081	Hildreth Perry	3/9/2021	127.3	Yes	Resurvey
HP089	Hildreth Perry	2/8/2021	5.1	No	
HP090	Hildreth Perry	2/8/2021	0.4	No	Reversal
HP090	Hildreth Perry	2/1/2021	17.3	No	
HP224S1	Hildreth Perry	2/1/2021	0	No	
HP224S2	Hildreth Perry	2/1/2021	4.3	No	
HP236	Hildreth Perry	1/14/2021	3.1	Yes	Maintenance Related
HP239	Hildreth Perry	3/26/2021	106.5	Yes	Maintenance Related
HP301	Hildreth Perry	2/8/2021	4.8	No	
HP302	Hildreth Perry	2/3/2021	158.3	No	
HP405	Hildreth Perry	1/22/2021	15.3	No	
HP407	Hildreth Perry	1/21/2021	128.8	No	
HP407	Hildreth Perry	2/3/2021	363.5	Yes	Reversal
HP407	Hildreth Perry	6/1/2021	484.1	Yes	Maintenance Related
HP407	Hildreth Perry	8/5/2021	493.2	Yes	Resurvey
HP408	Hildreth Perry	2/3/2021	399.7	Yes	Reversal
HP408	Hildreth Perry	1/21/2021	143.8	No	
HP409	Hildreth Perry	1/21/2021	282.2	No	
HP411	Hildreth Perry	1/21/2021	57	Yes	Reversal
HP411	Hildreth Perry	1/21/2021	29.2	No	
HP412	Hildreth Perry	1/21/2021	358.7	No	
HP435	Hildreth Perry	2/4/2021	10.4	No	
HP462	Hildreth Perry	1/22/2021	325.2	No	
HP463	Hildreth Perry	1/22/2021	0.4	No	
HP472	Hildreth Perry	1/15/2021	90.5	No	
HP472	Hildreth Perry	1/20/2021	281.7	Yes	Resurvey
HP552	Hildreth Perry	1/20/2021	355.7	No	
HP590	Hildreth Perry	2/9/2021	4.3	No	Reversal
HP590	Hildreth Perry	2/1/2021	475.7	No	
HP600	Hildreth Perry	1/19/2021	196.1	No	
HP601	Hildreth Perry	1/19/2021	200	No	
HP803	Hildreth Perry	1/19/2021	101	No	
HP806	Hildreth Perry	1/20/2021	2	No	
HP900	Hildreth Perry	1/20/2021	3.5	No	
HP901	Hildreth Perry	1/20/2021	12.8	No	
KE003	Kenduskeag East	3/11/2021	59.4	Yes	Pre Rehab Inspection
KE004	Kenduskeag East	3/11/2021	63.7	Yes	Pre Rehab Inspection
KE100	Kenduskeag East	6/1/2021	223.8	Yes	Maintenance Related
KE102	Kenduskeag East	2/23/2021	215.8	Yes	Pre Rehab Inspection
KE197	Kenduskeag East	2/23/2021	0.6	No	Reversal
KE208	Kenduskeag East	8/31/2021	537.5	Yes	Maintenance Related
KE208	Kenduskeag East	10/1/2021	99	No	
KE208A	Kenduskeag East	10/1/2021	99	Yes	Resurvey
KE208B	Kenduskeag East	10/5/2021	261.3	No	
KE208B	Kenduskeag East	10/5/2021	266	Yes	Resurvey
KE208B	Kenduskeag East	10/8/2021	29.7	No	
KE208C	Kenduskeag East	10/7/2021	114.6	No	
KE208C	Kenduskeag East	10/8/2021	120.6	Yes	Resurvey

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KE208C	Kenduskeag East	10/28/2021	137.3	Yes	Resurvey
KE208C	Kenduskeag East	10/8/2021	26.7	No	
KE251	Kenduskeag East	6/23/2021	216	Yes	Post Rehab Inspection
KE261	Kenduskeag East	7/22/2021	153.5	Yes	Maintenance Related
KE301	Kenduskeag East	12/1/2021	133.5	Yes	Post Rehab Inspection
KE902	Kenduskeag East	1/13/2021	111	Yes	Pre Rehab Inspection
KI008	Kenduskeag Interceptor	4/21/2021	0	No	
KI008A	Kenduskeag Interceptor	4/21/2021	2.7	No	
KI009	Kenduskeag Interceptor	4/21/2021	266.7	No	
KI031	Kenduskeag Interceptor	4/9/2021	277	No	
KW064	Kenduskeag West	6/23/2021	4.3	No	
KW065	Kenduskeag West	6/23/2021	46	Yes	Post Rehab Inspection
KW100	Kenduskeag West	11/29/2021	43.5	Yes	Post Rehab Inspection
KW201	Kenduskeag West	5/28/2021	774.7	Yes	Reversal
KW202	Kenduskeag West	5/28/2021	370.2	Yes	Maintenance Related
KW203	Kenduskeag West	5/25/2021	321	Yes	Maintenance Related
KW250	Kenduskeag West	5/5/2021	63.2	Yes	Maintenance Related
KW250	Kenduskeag West	5/21/2021	67	Yes	Maintenance Related
MB001	Meadowbrook	2/10/2021	35	No	
MB002	Meadowbrook	2/10/2021	181.1	No	
MB004	Meadowbrook	2/10/2021	131.8	No	
MB010	Meadowbrook	2/10/2021	267	No	
MB011	Meadowbrook	2/10/2021	81	No	
MB012	Meadowbrook	2/10/2021	85.6	No	
MB013	Meadowbrook	2/10/2021	132.6	No	
MB029	Meadowbrook	4/14/2021	38.5	Yes	Maintenance Related
MB030	Meadowbrook	4/14/2021	211.5	Yes	Maintenance Related
MB031	Meadowbrook	4/14/2021	315	Yes	Maintenance Related
MB032	Meadowbrook	4/14/2021	320.7	Yes	Maintenance Related
MB033	Meadowbrook	2/12/2021	99.5	No	Reversal
MB033	Meadowbrook	2/11/2021	1.7	No	
MB034	Meadowbrook	2/11/2021	234.3	No	
MB035	Meadowbrook	2/11/2021	260.7	No	
MB036	Meadowbrook	2/11/2021	326.7	No	
MB037	Meadowbrook	2/11/2021	291.1	No	
MB038	Meadowbrook	2/11/2021	212.8	No	
MB060	Meadowbrook	2/11/2021	143	No	
MB208	Meadowbrook	4/6/2021	169	Yes	Maintenance Related
MB250	Meadowbrook	2/25/2021	84.4	No	
MB252	Meadowbrook	2/22/2021	193.8	No	
MB325	Meadowbrook	2/11/2021	13.8	No	
MB327	Meadowbrook	8/5/2021	73.8	Yes	Post Rehab Inspection
MB346	Meadowbrook	2/12/2021	<Null>	No	
MB351	Meadowbrook	1/29/2021	56	Yes	Maintenance Related
MB354	Meadowbrook	2/12/2021	3.2	No	
MB356	Meadowbrook	1/29/2021	140	Yes	Maintenance Related
MB407	Meadowbrook	2/12/2021	157	No	
MB409	Meadowbrook	2/11/2021	92.6	No	
MB410	Meadowbrook	2/11/2021	94.8	No	
MB420	Meadowbrook	2/11/2021	179.8	No	Reversal

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
MB420	Meadowbrook	3/24/2021	81.1	Yes	Maintenance Related
MB420	Meadowbrook	4/15/2021	257.7	Yes	Pre Acceptance New Sewers
MB451	Meadowbrook	2/10/2021	1.2	No	
MB452	Meadowbrook	3/18/2021	107	Yes	Resurvey
MB455	Meadowbrook	2/10/2021	0	No	
MB475	Meadowbrook	2/10/2021	186.6	No	
MB480	Meadowbrook	2/10/2021	63.5	No	
MB515	Meadowbrook	3/17/2021	121.1	Yes	Maintenance Related
MB516	Meadowbrook	3/17/2021	171.3	Yes	Maintenance Related
MB517	Meadowbrook	3/17/2021	49.5	Yes	Maintenance Related
MB518	Meadowbrook	3/17/2021	26.5	Yes	Maintenance Related
MB519	Meadowbrook	3/17/2021	116.6	Yes	Maintenance Related
MB706	Meadowbrook	4/14/2021	192	Yes	Maintenance Related
MB706	Meadowbrook	4/21/2021	0	Yes	Resurvey
MB734	Meadowbrook	2/12/2021	0.1	No	
MB809A	Meadowbrook	2/18/2021	46	Yes	Maintenance Related
MB810	Meadowbrook	2/18/2021	2.2	No	Reversal
MB810	Meadowbrook	2/17/2021	35.5	No	
MB836	Meadowbrook	2/26/2021	<Null>	Yes	Maintenance Related
MB837	Meadowbrook	3/5/2021	18	No	
MB837	Meadowbrook	3/9/2021	77.5	Yes	Resurvey
MB850	Meadowbrook	2/17/2021	301.7	No	
MB880	Meadowbrook	2/17/2021	256.3	No	
MB881	Meadowbrook	2/17/2021	11	No	
MB956	Meadowbrook	4/12/2021	354.2	Yes	Maintenance Related
MB976	Meadowbrook	2/17/2021	221.8	No	
MB977	Meadowbrook	2/17/2021	223	No	
MB997	Meadowbrook	2/25/2021	1.1	No	Reversal
MB997	Meadowbrook	2/17/2021	8	No	
MB998	Meadowbrook	2/17/2021	377.8	No	
MB999	Meadowbrook	2/25/2021	42.7	No	
MS003	Mill Street	12/2/2021	0.8	No	
MS003	Mill Street	12/2/2021	67.6	Yes	Resurvey
MS003	Mill Street	12/3/2021	269.2	Yes	Resurvey
MS100	Mill Street	12/2/2021	32.2	No	
MS208	Mill Street	2/26/2021	50.7	No	
OC021	Old Capehart	3/30/2021	289.5	Yes	Maintenance Related
OC022	Old Capehart	3/30/2021	265.2	Yes	Maintenance Related
OC034	Old Capehart	2/22/2021	0.1	No	
OC036	Old Capehart	2/22/2021	253.5	No	
OC037	Old Capehart	2/22/2021	143.6	No	
OC101A	Old Capehart	2/22/2021	26.2	No	
OC201	Old Capehart	1/12/2021	255.3	Yes	Post Rehab Inspection
OC251	Old Capehart	2/24/2021	278.1	Yes	Reversal
OC300	Old Capehart	4/5/2021	128.8	Yes	Maintenance Related
OC301	Old Capehart	4/5/2021	239.8	Yes	Maintenance Related
OC442	Old Capehart	7/28/2021	268.7	Yes	Resurvey
OC442	Old Capehart	7/28/2021	271	Yes	Maintenance Related
OC443	Old Capehart	7/28/2021	54.2	Yes	Resurvey
OC443	Old Capehart	7/28/2021	255.6	Yes	Resurvey

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Pipe ID	Subsection	Inspection Date	Inspected Length (ft)	Repeat Inspection	Justification for Repeat Inspection
OC443	Old Capehart	7/22/2021	254.8	Yes	Maintenance Related
OC444	Old Capehart	7/21/2021	249.6	Yes	Reversal
OC444	Old Capehart	7/21/2021	9.1	Yes	Maintenance Related
OC445	Old Capehart	7/21/2021	266.1	Yes	Maintenance Related
OC453	Old Capehart	4/8/2021	135.1	Yes	Maintenance Related
OC480	Old Capehart	1/5/2021	258.6	Yes	Post Rehab Inspection
OC480	Old Capehart	5/4/2021	254.3	Yes	Pre Acceptance New Sewers
OC511	Old Capehart	2/24/2021	137.6	Yes	Reversal
OC550	Old Capehart	3/30/2021	67.9	Yes	Maintenance Related
OC551	Old Capehart	3/30/2021	261	Yes	Maintenance Related
OC552	Old Capehart	3/29/2021	217.6	Yes	Maintenance Related
OC553	Old Capehart	3/29/2021	227.5	Yes	Maintenance Related
OC554	Old Capehart	3/29/2021	203.5	Yes	Maintenance Related
OC555	Old Capehart	3/29/2021	298.5	Yes	Maintenance Related
OC556	Old Capehart	3/29/2021	125.9	Yes	Maintenance Related
OC650	Old Capehart	2/22/2021	0.1	No	
PJ003	Penjajawoc	1/13/2021	218.1	No	
PJ011	Penjajawoc	1/13/2021	42.5	No	
PJ502	Penjajawoc	1/13/2021	0.2	No	
PJ502	Penjajawoc	1/15/2021	117.6	No	Reversal
PJ504	Penjajawoc	1/14/2021	52.5	No	
PJ505	Penjajawoc	1/14/2021	220	No	
PJ575	Penjajawoc	3/16/2021	228.6	Yes	Maintenance Related
PJ576	Penjajawoc	3/15/2021	151.3	Yes	Maintenance Related
PJ590	Penjajawoc	1/13/2021	0.3	No	
PJ590	Penjajawoc	1/14/2021	14.5	Yes	Resurvey
PJ761	Penjajawoc	1/14/2021	16.1	No	
PJ900	Penjajawoc	1/15/2021	103.5	No	
PJ903	Penjajawoc	12/14/2021	316.2	Yes	Maintenance Related
PJ904	Penjajawoc	12/14/2021	200.6	Yes	Maintenance Related
PJ905	Penjajawoc	12/14/2021	318.5	Yes	Reversal
PJ905	Penjajawoc	12/14/2021	1.8	Yes	Maintenance Related
SL101	Strickland	2/5/2021	45.2	Yes	Maintenance Related
SL102	Strickland	2/25/2021	108.3	Yes	Maintenance Related
WL024	Woodlawn	3/12/2021	305.1	Yes	Pre Rehab Inspection
WL150	Woodlawn	11/3/2021	201.1	Yes	Maintenance Related
WL151	Woodlawn	4/14/2021	210.3	Yes	Maintenance Related
WL152	Woodlawn	4/14/2021	23.6	Yes	Maintenance Related
WL160	Woodlawn	8/5/2021	18.7	No	
WL161	Woodlawn	6/24/2021	59.5	No	
WL162	Woodlawn	6/24/2021	135.5	No	
WL506	Woodlawn	5/11/2021	328.5	Yes	Maintenance Related
WL510	Woodlawn	3/18/2021	45	Yes	Maintenance Related
WL510	Woodlawn	5/14/2021	44.5	Yes	Post Rehab Inspection
WL511	Woodlawn	5/14/2021	191.8	Yes	Post Rehab Inspection
WL511	Woodlawn	3/17/2021	195.6	Yes	Maintenance Related
WL512	Woodlawn	3/17/2021	198	Yes	Maintenance Related
WL513	Woodlawn	3/17/2021	185.5	Yes	Maintenance Related
WL600	Woodlawn	3/18/2021	228	Yes	Maintenance Related
WL600	Woodlawn	5/14/2021	224.1	Yes	Post Rehab Inspection

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WL600A	Woodlawn	3/18/2021	52.2	Yes	Maintenance Related
WL601	Woodlawn	3/18/2021	131.1	Yes	Maintenance Related
WL601	Woodlawn	5/14/2021	127	Yes	Post Rehab Inspection
WL602	Woodlawn	3/17/2021	154.3	Yes	Reversal
WL602	Woodlawn	3/17/2021	115	Yes	Maintenance Related
WS201	Westland	3/24/2021	231.3	Yes	Maintenance Related
WS202	Westland	3/24/2021	173.6	Yes	Maintenance Related
WS204	Weselatu	3/23/2021	174.1	Yes	Maintenance Related
WS204	Westland	3/23/2021	54.5	Yes	Pre Rehab Inspection
WS204	Westland	3/24/2021	302.7	Yes	Resurvey
WS205	Westland	3/23/2021	412.8	Yes	Maintenance Related
Total Feet			83751.9		
Total Miles			15.9		

APPENDIX B: MANHOLE INSPECTION LOG

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AB430	Arctic Brook	2/1/2021		
AB457	Arctic Brook	1/5/2021		
AB471	Arctic Brook	2/10/2021		
AB700	Arctic Brook	3/5/2021		
AB701	Arctic Brook	3/5/2021		
AB702	Arctic Brook	3/5/2021		
AP021	Airport	1/19/2021		
AP022	Airport	1/19/2021		
AP023	Airport	1/19/2021		
AP070	Airport	1/19/2021		
AP262	Airport	12/20/2021		
AP400	Airport	1/19/2021		
AP408	Airport	8/23/2021	Yes	Post Cleaning
AP507	Airport	2/16/2021		
AP508	Airport	2/16/2021	Yes	Post Rehab Inspection
AP607	Airport	1/6/2021		
AP608	Airport	1/12/2021		
AP609	Airport	1/6/2021		
AP610	Airport	1/6/2021		
AP705	Airport	1/19/2021		
AP740A	Airport	1/19/2021		
BS005	Blanchard Street	1/5/2021		
BS006	Blanchard Street	1/5/2021		
BS007	Blanchard Street	2/23/2021		
BS008	Blanchard Street	1/8/2021		
BS009	Blanchard Street	2/19/2021		
BS010	Blanchard Street	1/6/2021		
BS011	Blanchard Street	1/6/2021		
BS012	Blanchard Street	2/19/2021		
BS013	Blanchard Street	3/8/2021		
BS014	Blanchard Street	3/8/2021		
BS018	Blanchard Street	3/8/2021		
BS020	Blanchard Street	2/19/2021		
BS021	Blanchard Street	2/19/2021		
BS200	Blanchard Street	2/23/2021		
BS201	Blanchard Street	2/23/2021		
BS300	Blanchard Street	2/19/2021		
BS301	Blanchard Street	2/19/2021		
BS303	Blanchard Street	2/19/2021		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
BS400	Blanchard Street	1/8/2021		
BS401	Blanchard Street	1/8/2021		
BS402	Blanchard Street	1/8/2021		
BS403	Blanchard Street	1/8/2021		
BS404	Blanchard Street	1/8/2021		
BS500	Blanchard Street	2/19/2021		
BS501	Blanchard Street	2/19/2021		
BS502	Blanchard Street	2/19/2021		
BS600	Blanchard Street	1/6/2021		
BS601	Blanchard Street	1/6/2021		
BS602	Blanchard Street	1/6/2021		
BS603	Blanchard Street	1/6/2021		
BS610	Blanchard Street	2/19/2021		
BS620	Blanchard Street	1/6/2021		
BS700	Blanchard Street	2/23/2021		
BS701	Blanchard Street	2/23/2021		
BS702	Blanchard Street	2/23/2021		
BS703	Blanchard Street	2/23/2021		
BS800	Blanchard Street	3/8/2021		
BU020	Burleigh	12/15/2021		
BU021	Burleigh	12/15/2021		
BU023	Burleigh	12/15/2021		
BU024	Burleigh	12/15/2021		
BU450	Burleigh	2/1/2021		
BU451	Burleigh	2/1/2021		
BU452	Burleigh	12/15/2021		
BU453	Burleigh	12/15/2021		
BU454	Burleigh	12/15/2021		
BU455	Burleigh	12/16/2021		
BU460	Burleigh	12/16/2021		
BU462	Burleigh	12/16/2021		
BU601	Burleigh	2/3/2021		
BU602	Burleigh	2/3/2021		
BU604	Burleigh	2/3/2021		
BU605	Burleigh	2/3/2021		
BU606	Burleigh	2/3/2021		
BU607	Burleigh	2/3/2021		
BU750	Burleigh	12/15/2021		
BU800	Burleigh	12/15/2021		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
BU802	Burleigh	12/15/2021		
BV024	Barkersville	2/18/2021		
BV217	Barkersville	2/10/2021		
BV217A	Barkersville	2/10/2021	Yes	Resurvey
BV218	Barkersville	2/10/2021	Yes	Resurvey
BV350	Barkersville	1/13/2021	Yes	Post Rehab Inspection
BV400A	Barkersville	1/13/2021		
BV440	Barkersville	2/3/2021		
CB004	Carr Brook	3/8/2021		
CB005	Carr Brook	3/8/2021		
CB006	Carr Brook	3/8/2021		
CB011	Carr Brook	3/8/2021		
CB014	Carr Brook	2/16/2021		
CB017	Carr Brook	2/1/2021		
CB020	Carr Brook	3/8/2021		
CB031	Carr Brook	1/7/2021		
CB032	Carr Brook	1/7/2021		
CB034	Carr Brook	2/3/2021		
CB035	Carr Brook	2/3/2021		
CB050	Carr Brook	3/8/2021		
CB103	Carr Brook	2/24/2021		
CB104	Carr Brook	2/24/2021		
CB105	Carr Brook	2/24/2021		
CB106	Carr Brook	2/24/2021		
CB108	Carr Brook	2/24/2021		
CB134	Carr Brook	1/4/2021		
CB161	Carr Brook	1/7/2021		
CB162	Carr Brook	1/7/2021		
CB165	Carr Brook	1/7/2021		
CB165A	Carr Brook	1/7/2021		
CB166	Carr Brook	1/7/2021		
CB250	Carr Brook	2/16/2021		
CB251	Carr Brook	2/16/2021		
CB253	Carr Brook	1/7/2021		
CB270	Carr Brook	1/7/2021		
CB300	Carr Brook	2/1/2021		
CB301	Carr Brook	2/1/2021		
CB302	Carr Brook	2/1/2021		
CB303	Carr Brook	2/1/2021		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
CB304	Carr Brook	2/1/2021		
CB403	Carr Brook	12/27/2021		
CB405	Carr Brook	1/11/2021		
CB406	Carr Brook	1/11/2021		
CB501	Carr Brook	2/3/2021		
CB602	Carr Brook	1/13/2021		
CB650	Carr Brook	2/1/2021		
CB700	Carr Brook	1/7/2021		
CB701	Carr Brook	1/7/2021		
CM509	Cemetery	1/6/2021		
CM510	Cemetery	1/6/2021		
CM600	Cemetery	1/7/2021		
CM601	Cemetery	1/7/2021		
CM602	Cemetery	1/7/2021		
CM603	Cemetery	1/7/2021		
CM650	Cemetery	1/7/2021		
CM651	Cemetery	1/7/2021		
CM652	Cemetery	1/7/2021		
CM671	Cemetery	2/3/2021		
CM672	Cemetery	2/3/2021		
CM680	Cemetery	2/3/2021		
CM681	Cemetery	2/3/2021		
CM682	Cemetery	2/3/2021		
CM701	Cemetery	2/3/2021		
CM702	Cemetery	2/3/2021		
CM704	Cemetery	2/3/2021		
CM705	Cemetery	2/3/2021		
CM706	Cemetery	2/3/2021		
CM720	Cemetery	2/1/2021		
CM730	Cemetery	1/6/2021		
CM731	Cemetery	1/6/2021		
CM740	Cemetery	1/6/2021		
CM741	Cemetery	1/6/2021		
CM750	Cemetery	1/4/2021		
CM751	Cemetery	1/4/2021		
CM760	Cemetery	1/4/2021		
CM761	Cemetery	1/7/2021		
CM770	Cemetery	1/4/2021		
CM771	Cemetery	1/4/2021		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
CM780	Cemetery	1/4/2021		
CM781	Cemetery	1/7/2021		
CM801	Cemetery	2/1/2021		
CM802	Cemetery	2/1/2021		
CM850	Cemetery	2/1/2021		
CM870	Cemetery	2/1/2021		
CW003	Cardinal Way	1/19/2021		
CW004	Cardinal Way	1/19/2021		
CW005	Cardinal Way	1/19/2021		
CW006	Cardinal Way	1/19/2021		
CW007	Cardinal Way	2/16/2021		
CW008	Cardinal Way	2/16/2021		
CW009	Cardinal Way	2/16/2021		
CW010	Cardinal Way	2/16/2021		
CW011	Cardinal Way	1/20/2021		
CW012	Cardinal Way	1/20/2021		
CW013	Cardinal Way	1/20/2021		
CW014	Cardinal Way	1/20/2021		
CW015	Cardinal Way	1/20/2021		
CW050	Cardinal Way	1/20/2021		
CW051	Cardinal Way	1/19/2021		
DB600	Davis Brook	2/1/2021	Yes	Post Rehab Inspection
DB600A	Davis Brook	2/1/2021		
DB605A	Davis Brook	1/13/2021		
DB611	Davis Brook	2/1/2021	Yes	Post Rehab Inspection
DB612	Davis Brook	2/1/2021	Yes	Post Rehab Inspection
DB700A	Davis Brook	2/1/2021		
DN502	Dutton Street	2/16/2021		
DN503	Dutton Street	2/16/2021		
DN504	Dutton Street	2/16/2021		
DN505	Dutton Street	2/16/2021		
DW400	Dow	2/18/2021		
EP001	East Penobscot	1/19/2021		
EP002	East Penobscot	1/20/2021		
EP003	East Penobscot	1/20/2021		
EP004	East Penobscot	1/19/2021		
EP005	East Penobscot	1/19/2021		
EP006	East Penobscot	1/19/2021		
EP007	East Penobscot	1/19/2021		

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Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
EP008	East Penobscot	1/19/2021		
EP009	East Penobscot	1/20/2021		
EP010	East Penobscot	1/20/2021		
EP011	East Penobscot	1/20/2021		
EP012	East Penobscot	1/20/2021		
EP013	East Penobscot	1/20/2021		
EP014	East Penobscot	1/20/2021		
EP062	East Penobscot	1/19/2021		
EP063	East Penobscot	1/19/2021		
EP064	East Penobscot	1/19/2021		
EP065	East Penobscot	1/19/2021		
EP066	East Penobscot	1/19/2021		
EP067	East Penobscot	1/19/2021		
EP068	East Penobscot	1/19/2021		
EP069	East Penobscot	1/19/2021		
EP070	East Penobscot	1/19/2021		
ES203	Everett Street	1/5/2021		
FS502	Fourteenth Street	2/3/2021		
FS604	Fourteenth Street	2/3/2021		
HD001	Hampden	2/16/2021		
HD002	Hampden	2/16/2021		
HD004	Hampden	2/16/2021		
HK001	Hancock Street	1/20/2021		
HK012	Hancock Street	1/7/2021		
HK014	Hancock Street	1/7/2021		
HK015	Hancock Street	1/7/2021		
HK081	Hancock Street	1/7/2021		
HK200	Hancock Street	1/20/2021		
HK209	Hancock Street	1/7/2021		
HK214	Hancock Street	1/6/2021		
HK215	Hancock Street	1/6/2021		
HK216	Hancock Street	1/6/2021		
HK217	Hancock Street	1/6/2021		
HK219	Hancock Street	2/3/2021		
HK220	Hancock Street	2/3/2021		
HK221	Hancock Street	2/3/2021		
HK222	Hancock Street	2/3/2021		
HK223	Hancock Street	2/3/2021		
HK225	Hancock Street	1/5/2021		

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2021

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
HK226	Hancock Street	1/5/2021		
HK255	Hancock Street	2/3/2021		
HK257	Hancock Street	2/3/2021		
HK291	Hancock Street	2/3/2021		
HK292	Hancock Street	2/3/2021		
HK504	Hancock Street	1/6/2021		
HK505	Hancock Street	1/6/2021		
HK507	Hancock Street	1/6/2021		
HK516	Hancock Street	1/7/2021		
HK517	Hancock Street	1/7/2021		
HK518	Hancock Street	1/7/2021		
HK522	Hancock Street	1/7/2021		
HK540	Hancock Street	1/7/2021		
HK576	Hancock Street	2/1/2021		
HP014	Hildreth Perry	1/28/2021		
HP015	Hildreth Perry	2/16/2021		
HP016	Hildreth Perry	1/21/2021		
HP017	Hildreth Perry	1/21/2021		
HP024	Hildreth Perry	1/22/2021		
HP028	Hildreth Perry	2/11/2021		
HP029	Hildreth Perry	1/27/2021		
HP032	Hildreth Perry	2/9/2021		
HP035	Hildreth Perry	1/28/2021		
HP050	Hildreth Perry	1/25/2021		
HP051	Hildreth Perry	1/25/2021		
HP055	Hildreth Perry	1/25/2021		
HP070	Hildreth Perry	1/25/2021		
HP089	Hildreth Perry	2/9/2021		
HP302	Hildreth Perry	2/3/2021		
HP406	Hildreth Perry	2/4/2021		
HP465	Hildreth Perry	2/1/2021		
HP466	Hildreth Perry	2/1/2021		
HP480	Hildreth Perry	2/1/2021		
HP502	Hildreth Perry	1/20/2021		
HP605	Hildreth Perry	1/20/2021		
HP606	Hildreth Perry	2/4/2021		
HP607	Hildreth Perry	1/20/2021		
HP803	Hildreth Perry	1/20/2021		
HP804	Hildreth Perry	1/20/2021		

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2021

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
HP900	Hildreth Perry	1/20/2021		
KE700	Kenduskeag East	1/7/2021		
KE701	Kenduskeag East	1/7/2021		
KW101	Kenduskeag West	1/5/2021		
KW102A	Kenduskeag West	1/5/2021		
KW102C	Kenduskeag West	1/5/2021		
KW103	Kenduskeag West	1/5/2021		
KW110	Kenduskeag West	1/5/2021		
KW303	Kenduskeag West	3/18/2021		
MB005	Meadowbrook	2/12/2021		
MB006	Meadowbrook	2/12/2021		
MB007	Meadowbrook	2/12/2021		
MB101	Meadowbrook	2/12/2021		
MB112	Meadowbrook	2/10/2021		
MB114	Meadowbrook	2/10/2021		
MB146	Meadowbrook	2/1/2021		
MB147	Meadowbrook	2/1/2021		
MB201	Meadowbrook	2/10/2021		
MB202	Meadowbrook	2/9/2021		
MB203	Meadowbrook	2/9/2021		
MB204	Meadowbrook	2/9/2021		
MB205	Meadowbrook	2/10/2021		
MB206	Meadowbrook	2/10/2021		
MB335	Meadowbrook	2/11/2021		
MB372	Meadowbrook	2/11/2021		
MB756	Meadowbrook	2/3/2021		
MB765	Meadowbrook	2/1/2021		
MB835	Meadowbrook	1/19/2021		
MB836	Meadowbrook	3/9/2021		
MB850	Meadowbrook	2/17/2021		
MB858	Meadowbrook	2/17/2021		
MB861	Meadowbrook	1/19/2021		
MB862	Meadowbrook	1/19/2021		
MB985	Meadowbrook	1/7/2021		
MB986	Meadowbrook	1/7/2021		
OC012	Old Capehart	1/19/2021		
OC013	Old Capehart	1/19/2021		
OC014	Old Capehart	1/19/2021		
OC015	Old Capehart	1/19/2021		

APPENDIX B: MANHOLE INSPECTION LOG

City of Bangor, Maine
Calendar Year 2021

Manhole ID	Subsection	Date Inspected	Repeat Inspection	Justification for Repeat Inspection
OC016	Old Capehart	1/19/2021		
OC470	Old Capehart	1/5/2021		
OC900	Old Capehart	2/4/2021		
OC901	Old Capehart	2/4/2021		
OC902	Old Capehart	2/4/2021		
OC903	Old Capehart	2/4/2021		
OC904	Old Capehart	2/4/2021		
OC905	Old Capehart	2/4/2021		
OC906	Old Capehart	2/3/2021		
OC907	Old Capehart	2/4/2021		
OC910	Old Capehart	2/4/2021		
OC911	Old Capehart	2/4/2021		
OC920	Old Capehart	2/4/2021		
OC921	Old Capehart	2/3/2021		
OC951	Old Capehart	2/3/2021		
OC952	Old Capehart	2/3/2021		
OC954	Old Capehart	2/3/2021		
PJ901	Penjawoc	1/19/2021		
WL025	Woodlawn	3/12/2021		
WL451	Woodlawn	1/5/2021		
WL504	Woodlawn	1/4/2021		
WL505	Woodlawn	1/4/2021		
WL506	Woodlawn	1/5/2021		
WL520	Woodlawn	1/5/2021		
WL521	Woodlawn	1/5/2021		
WS005	Westland	1/20/2021		
WS006	Westland	1/20/2021		
WS007	Westland	1/20/2021		
WS008	Westland	1/20/2021		
TOTAL MANHOLES INSPECTED			341	

APPENDIX C: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine
Calendar Year 2021

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
Arctic Brook		AB124	Manhole	Replaced manhole with 4' dia. manhole	8/11/2021
Arctic Brook		AB700	Manhole	Replaced manhole with 4' dia. manhole	8/23/2021
Barkersville		BV520A	Manhole	Replaced manhole with 4' dia. manhole	8/27/2021
Carr Brook		CB011	Manhole	Replaced manhole with 6' dia. manhole	10/29/2021
Carr Brook		CB100	Manhole	Replaced manhole with 4' dia. manhole	10/29/2021
Carr Brook		CB360	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB361	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB362	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB363	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB364	Manhole	Installed 4' dia. manhole	10/29/2021
Carr Brook		CB365	Manhole	Installed 4' dia. manhole	10/29/2021
Carr Brook		CB366	Manhole	Installed 4' dia. manhole	10/29/2021
Carr Brook		CB368	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB369	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB370	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB371	Manhole	Installed 6' dia. manhole	10/29/2021
Carr Brook		CB372	Manhole	Installed 4' dia. manhole	10/29/2021
Carr Brook		CB373	Manhole	Installed 4' dia. manhole	10/29/2021
Carr Brook		CB374	Manhole	Installed 6' dia. manhole	10/29/2021
Davis Brook		DB420	Manhole	Replaced manhole with 4' dia. manhole	5/21/2021
Davis Brook		DB422	Manhole	Replaced manhole with 4' dia. manhole	5/29/2021
Davis Brook		DB715	Manhole	Installed 4' dia. doghouse manhole	7/8/2021
Davis Brook		DB715A	Manhole	Installed 4' dia. doghouse manhole	7/8/2021
Davis Brook		DB715B	Manhole	Installed 4' dia. manhole	7/19/2021
Davis Brook		DB732A	Manhole	Installed 4' dia. doghouse manhole	6/5/2021
Davis Brook		DB750A	Manhole	Installed 4' dia. manhole	6/14/2021
Davis Brook		DB751	Manhole	Installed 4' dia. manhole	6/8/2021
Hancock Street		HK015A	Manhole	Installed 4' dia. doghouse manhole	11/18/2021
Hancock Street		HK016	Manhole	Installed 4' dia. doghouse manhole	10/18/2021
Hancock Street		HK023	Manhole	Installed 4' dia. manhole	8/17/2021
Hancock Street		HK070	Manhole	Replaced manhole with 4' dia. manhole	3/30/2021
Hancock Street		HK070A	Manhole	Installed 4' dia. manhole	3/30/2021
Hancock Street		HK071	Manhole	Installed 4' dia. manhole	3/31/2021
Hancock Street		HK702A	Manhole	Installed 4' dia. manhole	10/29/2021
Hildreth Perry		HP226A	Manhole	Installed 4' dia. doghouse manhole	12/29/2021
Kenduskeag East		KE208	Manhole	Installed 4' dia. doghouse manhole	10/13/2021
Kenduskeag East		KE208A	Manhole	Installed 4' dia. doghouse manhole	10/13/2021
Kenduskeag East		KE208B	Manhole	Installed 4' dia. manhole	11/11/2021
Meadowbrook		MB420	Manhole	Replaced manhole with 4' dia. manhole	4/14/2021
Woodlawn		WL160	Manhole	Installed 6' dia. manhole	6/28/2021
Woodlawn		WL161	Manhole	Installed 5' dia. manhole	6/28/2021
Woodlawn		WL162	Manhole	Installed 6' dia. manhole	6/28/2021
Woodlawn		WL510	Manhole	Replaced manhole with 4' dia. manhole	5/14/2021
Arctic Brook	AB124		AB123 - AB124	Replaced 250' of existing line with 8" PVC	8/11/2021
Arctic Brook	AB700		Beginning at manhole AB700	Replaced 2' of existing line with 8" PVC	8/23/2021
Arctic Brook	AB701		Beginning at manhole AB700	Replaced 1' of existing line with 8" PVC	8/23/2021
Autumn Street	AS002		Beginning 250' d/s of mh AS002	Replaced 65' of existing line with 12" PVC	4/17/2021
Burleigh	BU503		Beginning 64.5' d/s of mh BU504	Replaced 37' of existing line with 8" PVC	7/23/2021
Burleigh	BU505		Beginning 86.5' d/s of mh BU505	Replaced 14' of existing line with 8" PVC	7/28/2021
Burleigh	BU506		Beginning 21' u/s of mh BU505	Replaced 6' of existing line with 8" PVC	7/26/2021
Burleigh	BU510		Beginning at manhole BU510	Replaced 9' of existing line with 8" PVC	7/20/2021
Burleigh	BU512		Beginning 47.5' u/s of mh BU511	Replaced 10' of existing line with 8" PVC	7/13/2021
Burleigh	BU514		Beginning 56.5' d/s of mh BU514	Replaced 10' of existing line with 8" PVC	7/19/2021
Burleigh	BU530		Beginning 114.5' d/s of mh BU530	Replaced 8.5' of existing line with 8" PVC	7/13/2021
Burleigh	BU532		Beginning 46' d/s of mh BU532	Replaced 9.5' of existing line with 8" PVC	7/12/2021
Barkersville	BV520A		Beginning 18' u/s of mh BV520	Replaced 82' of existing line with 10" PVC	7/28/2021
Carr Brook	CB011A		CB011 - CB374	Installed 54.5' of 24" PVC	10/29/2021
Carr Brook	CB012		Beginning at manhole CB011	Replaced 2' of existing line with 24" PVC	10/29/2021
Carr Brook	CB100A		CB100 - CB374	Installed 81' of 12" PVC	10/29/2021
Carr Brook	CB101A		Beginning at manhole CB100	Replaced 4' of existing line with 8" PVC	10/29/2021
Carr Brook	CB166		Beginning at manhole CB165A	Replaced 17' of existing line with 8" PVC	5/18/2021
Carr Brook	CB210		Beginning at manhole CB373	Installed 20.5' of 12" PVC	10/29/2021

APPENDIX C: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine
Calendar Year 2021

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
Carr Brook	CB360		CB360 - EP025	Installed 8.5' of 24" PVC	10/29/2021
Carr Brook	CB361		CB361 - CB360	Installed 105' of 24" PVC	10/29/2021
Carr Brook	CB362		CB362 - CB361	Installed 60.5' of 24" PVC	10/29/2021
Carr Brook	CB363		CB363 - CB362	Installed 92' of 24" PVC	10/29/2021
Carr Brook	CB364		CB364 - CB363	Installed 210' of 15" PVC	10/29/2021
Carr Brook	CB365		CB365 - CB364	Installed 20' of 15" PVC	10/29/2021
Carr Brook	CB366		CB366 - CB365	Installed 112' of 12" PVC	10/29/2021
Carr Brook	CB368		CB368 - CB363	Installed 279.5' of 24" PVC	10/29/2021
Carr Brook	CB369		CB369 - CB368	Installed 179' of 24" PVC	10/29/2021
Carr Brook	CB370		CB370 - CB369	Installed 139.5' of 24" PVC	10/29/2021
Carr Brook	CB371		CB371 - CB370	Installed 102' of 24" PVC	10/29/2021
Carr Brook	CB372		CB372 - CB371	Installed 54.5' of 18" PVC	10/29/2021
Carr Brook	CB373		CB373 - CB372	Installed 86.5' of 15" PVC	10/29/2021
Carr Brook	CB374		CB374 - CB371	Installed 151' of 24" PVC	10/29/2021
Davis Brook	DB421		Beginning at manhole DB420	Replaced 9' of existing line with 8" PVC	5/21/2021
Davis Brook	DB421		Beginning 70' u/s of mh DB420	Replaced 12' of existing line with 8" PVC	5/21/2021
Davis Brook	DB421		Beginning 69' d/s of mh DB421	Replaced 24.5' of existing line with 8" PVC	5/27/2021
Davis Brook	DB422		Beginning at manhole DB422	Replaced 13.5' of existing line with 8" PVC	5/29/2021
Davis Brook	DB550			Replaced 12.5' of existing line with 10" PVC	6/21/2021
Davis Brook	DB620		Beginning 10' d/s of mh DB620	Replaced 72.5' of existing line with 12" PVC	5/28/2021
Davis Brook	DB700		Beginning at manhole DB700A	Replaced 233' of existing line with 24" PVC	9/28/2021
Davis Brook	DB750		Beginning at manhole DB750A	Replaced 26.5' of existing line with 12" PVC	6/14/2021
Davis Brook	DB750A		Beginning at manhole DB750A	Replaced 30' of existing line with 12" PVC	6/14/2021
Davis Brook	DB751		Beginning 62' u/s of mh DB750	Replaced 19' of existing line with 10" PVC	6/9/2021
Davis Brook	DB751		Beginning at manhole DB751	Replaced 27.5' of existing line with 10" PVC	6/8/2021
Dow	DW450		Beginning 152' u/s of mh DW017	Replaced 31' of existing line with 10" PVC	1/18/2021
Hancock Street	HK022		Beginning 20.5' of mh HK021	Replaced 56' of existing line with 10" PVC	6/24/2021
Hancock Street	HK070		HK070 - HK070A	Replaced 204.5' of existing line with 10" PVC	3/30/2021
Hancock Street	HK070A		Beginning at HK070A	Replaced 3.5' of existing line with 10" PVC	3/30/2021
Hancock Street	HK071		HK071 - HK070	Replaced 70' of existing line with 10" PVC	3/31/2021
Hancock Street	HK700		HK700 - EP024	Abandoned 155' of 12" line	10/29/2021
Hancock Street	HK702A		HK702A - CB364	Installed 70' of 12" PVC	10/29/2021
Meadowbrook	MB420		MB420 - MB405	Replaced 264.5' of existing line with 8" PVC	4/14/2021
Old Capehart	OC480		Beginning 175' u/s of mh OC470	Replaced 8' of existing line with 8" PVC	4/28/2021
Woodlawn	WL160		WL160 - EP038	Installed 26' of 15" PVC	6/28/2021
Woodlawn	WL161		WL161 - WL160	Installed 66' of 15" PVC	6/28/2021
Woodlawn	WL162		WL162 - WL161	Installed 139' of 15" PVC	6/28/2021
Woodlawn	WL510		WL510 - WL501	Replaced 49.5' of existing line with 10" PVC	5/14/2021
Woodlawn	WL511		Beginning at manhole WL510	Replaced 3.5' of existing line with 10" PVC	5/14/2021
Woodlawn	WL511		Beginning 33' d/s of mh WL512	Replaced 9.5' of existing line with 10" PVC	5/7/2021
Woodlawn	WL600		Beginning 45' u/s of mh WL024	Replaced 12.5' of existing line with 10" PVC	5/10/2021
Woodlawn	WL601		Beginning at manhole WL601	Replaced 61' of existing line with 8" PVC	5/12/2021
Airport	AP653		Entire segment	Holes and infiltration	Within 10 years
Airport	AP621		42' u/s of mh AP620	Deformed pipe, large offset joint	Within 10 years
Airport	AP652		105' u/s mh AP651	Small hole forming	Within 10 years
Airport	AP451		At mh AP450	Large defective offset joint	Within 10 years
Arctic Brook	AB261		25' d/s of mh AB261	Small hole forming	Within 10 years
Arctic Brook	AB625		Various	Broken and fractured pipe	Within 10 years
Autumn Street	AS002		Various	Broken pipe full of roots (no d/s access)	Within 10 years
Carr Brook	CB210		Entire segment	Collapsed, broken and cracked pipe	Within 5 years
Carr Brook	CB701		Various	Broken pipe (multiple locations), hole forming	Within 5 years
Central Street	CS999		24' d/s of mh CS999	Hole forming, fracture. Object wedged in hole	Within 5 years
Davis Brook	DB750A		0' u/s of mh DB703	Broken pipe	Within 10 years
Dow		DW662A	Manhole	Manhole and pipe connections in poor condition	Within 5 years
Everett Street	ES002		Entire segment	Deformed broken pipe, debris	Within 5 years
Fourteenth Street	FS201		Various	Holes and pipe fractures	Within 10 years
Fourteenth Street	FS202		140' u/s of mh FS201	Hinge cracks and fractures	Within 10 years
Hancock Street	HK705		Various	Holes and broken pipe	Within 5 years
Hancock Street	HK015A		197' d/s of mh HK015A	Large hole void forming	Within 5 years
Hancock Street	HK022		180' u/s of mh HK021	Broken pipe	Within 10 years
Hildreth Perry	HP051		Entire segment	Defective joints with roots. Debris along length	Within 10 years
Hildreth Perry	HP472		Various	Fractured pipe	Within 10 years

APPENDIX C: CCTV REPAIR, REPLACEMENT, AND UPGRADE LOG

City of Bangor, Maine
Calendar Year 2021

Subsection	Pipe Segment ID	Manhole ID	Location	Description of Repair or Defect	Date Repaired or Schedule
Kenduskeag East	KE208		217' upstream of mh KE206	Large hole void forming	Within 5 years
Kenduskeag West	KW203		Entire segment	Deformed pipe, holes forming	Within 5 years
Meadowbrook	MB480		Entire segment	Broken and deformed pipe	Within 5 years
Meadowbrook	MB837		70' u/s of mh MB836	Fractured pipe with hole	Within 5 years
Old Capehart	OC445		250' u/s of mh OC444	Fractured pipe	Within 10 years
Old Capehart	OC511		10' u/s of mh OC510	Deformed / broken pipe	Within 5 years
Westland	WS202		Various	Broken and fractured pipe	Within 10 years
Woodlawn	WL602		Various	Separated joints, small hole	Within 10 years

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2021

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
AB124	Arctic Brook	3/10/2021	250	2	500		
AB360	Arctic Brook	5/21/2021	250	3	750		
AB503	Arctic Brook	4/8/2021	117	2	234		
AB504	Arctic Brook	4/8/2021	354	1	354		
AB505	Arctic Brook	4/8/2021	438	1	438		
AB506	Arctic Brook	4/8/2021	315	1	315		
AB507	Arctic Brook	4/8/2021	377	1	377		
AB508	Arctic Brook	3/10/2021	400	1	400		
AB550	Arctic Brook	4/8/2021	376	1	376		
AB551	Arctic Brook	2/24/2021	392	1	392	Yes	
AB551	Arctic Brook	2/24/2021	392	1	392	Yes	for CCTV
AB560	Arctic Brook	2/24/2021	336	1	336		
AB561	Arctic Brook	2/24/2021	424	1	424		
AB622	Arctic Brook	4/26/2021	348	2	696		
AB623	Arctic Brook	4/8/2021	61	1	61		
AP206	Airport	3/29/2021	352	2	704	Yes	
AP206	Airport	3/29/2021	352	2	704	Yes	for CCTV
AP241	Airport	3/29/2021	119	2	238		
AP406	Airport	8/23/2021	204	6	1224		
AP409	Airport	3/10/2021	276	2	552	Yes	
AP409	Airport	8/23/2021	276	2	552	Yes	for CCTV
AP415A	Airport	3/18/2021	167	2	334		
BS005	Blanchard Street	6/2/2021	299	2	598		
BS006	Blanchard Street	6/2/2021	305	2	610		
BS018	Blanchard Street	4/26/2021	304	1	304		
BS019	Blanchard Street	4/26/2021	263	1	263		
BS020	Blanchard Street	4/26/2021	220	2	440		
BS021	Blanchard Street	4/26/2021	240	1	240		
BS900	Blanchard Street	4/26/2021	222	1	222	Yes	
BS900	Blanchard Street	4/26/2021	222	1	222	Yes	for CCTV
BS901	Blanchard Street	4/26/2021	220	1	220		
BS902	Blanchard Street	4/26/2021	103	1	103		
BU452	Burleigh	2/4/2021	242	1	242		
BU460	Burleigh	2/4/2021	400	1	400		
BU461	Burleigh	2/4/2021	294	1	294		
BU532	Burleigh	2/5/2021	187	1	187	Yes	Known Trouble Spot
BU532	Burleigh	9/8/2021	187	1	187	Yes	Known Trouble Spot
BU535	Burleigh	2/5/2021	268	1	268	Yes	Known Trouble Spot

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2021

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
BU535	Burleigh	9/8/2021	268	1	268	Yes	Known Trouble Spot
BU560	Burleigh	3/10/2021	114	2	228	Yes	
BU560	Burleigh	9/8/2021	114	1	114	Yes	for CCTV
BV030	Barkersville	4/26/2021	350	1	350		
BV032	Barkersville	4/26/2021	256	1	256		
BV033	Barkersville	4/26/2021	250	1	250		
BV034	Barkersville	4/26/2021	385	1	385		
BV109	Barkersville	3/26/2021	576	1	576		
BV110	Barkersville	4/22/2021	361	1	361		
BV350	Barkersville	4/22/2021	377	4	1508		
BV400A	Barkersville	9/21/2021	201	2	402		
BV410	Barkersville	9/21/2021	186	2	372		
BV413	Barkersville	12/14/2021	200	1	200		
BV445	Barkersville	3/24/2021	198	1	198		
BV453	Barkersville	12/14/2021	210	2	420		
BV466	Barkersville	4/12/2021	484	2	968		
BV467	Barkersville	4/12/2021	437	1	437		
BV468	Barkersville	4/12/2021	27	1	27		
BV503	Barkersville	3/12/2021	350	2	700		
BV504	Barkersville	3/12/2021	251	2	502		
BV515	Barkersville	3/9/2021	300	1	300		
BV520	Barkersville	3/12/2021	46	1	46		
BV525	Barkersville	3/12/2021	366	1	366		
BV577	Barkersville	4/12/2021	636	2	1272		
BV578	Barkersville	4/12/2021	27	1	27		
BV579	Barkersville	4/12/2021	567	1	567	Yes	
BV579	Barkersville	4/12/2021	567	1	567	Yes	for CCTV
BV579	Barkersville	4/21/2021	567	1	567	Yes	for CCTV
BV605	Barkersville	3/30/2021	345	2	690	Yes	
BV605	Barkersville	4/5/2021	345	1	345	Yes	for CCTV
BV610	Barkersville	3/9/2021	125	1	125		
BV615	Barkersville	4/5/2021	548	1	548		
BV616	Barkersville	4/5/2021	2511	1	2511		
BV620	Barkersville	4/22/2021	127	1	127		
BV627	Barkersville	3/9/2021	491	2	982		
BV628	Barkersville	3/9/2021	43	2	86		
BV635	Barkersville	4/22/2021	190	1	190		
BV660	Barkersville	3/30/2021	236	2	472		

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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
BV752	Barkersville	4/26/2021	243	1	243		
BV762	Barkersville	3/23/2021	497	2	994		
BV770	Barkersville	4/26/2021	81	2	162		
BV801	Barkersville	4/26/2021	216	1	216		
BV811	Barkersville	4/26/2021	348	1	348		
BV815	Barkersville	4/26/2021	454	1	454		
BV820	Barkersville	4/26/2021	400	1	400		
BV830	Barkersville	4/26/2021	64	1	64		
BV835	Barkersville	4/26/2021	205	1	205		
CB015	Carr Brook	4/22/2021	67	1	67		
CB016	Carr Brook	4/22/2021	141	1	141		
CB017	Carr Brook	4/22/2021	33	1	33		
CB018	Carr Brook	4/22/2021	196	1	196		
CB019	Carr Brook	4/22/2021	93	1	93		
CB021	Carr Brook	4/23/2021	233	1	233		
CB022	Carr Brook	3/22/2021	241	2	482		
CB034	Carr Brook	2/5/2021	265	2	530		
CB113	Carr Brook	3/22/2021	235	2	470		
CB114	Carr Brook	3/22/2021	249	2	498		
CB115	Carr Brook	3/22/2021	127	2	254		
CB134	Carr Brook	2/24/2021	348	1	348	Yes	Known Trouble Spot
CB134	Carr Brook	4/2/2021	348	1	348	Yes	Known Trouble Spot
CB134	Carr Brook	5/27/2021	348	1	348	Yes	Known Trouble Spot
CB134	Carr Brook	9/8/2021	348	1	348	Yes	Known Trouble Spot
CB250	Carr Brook	4/22/2021	144	1	144		
CB280	Carr Brook	4/22/2021	318	1	318		
CB300	Carr Brook	4/23/2021	320	1	320		
CB350	Carr Brook	4/22/2021	284	1	284		
CB400	Carr Brook	3/22/2021	238	2	476		
CB401	Carr Brook	3/22/2021	240	2	480		
CB406	Carr Brook	2/24/2021	146	1	146		
CB407	Carr Brook	2/24/2021	159	1	159		
CB451	Carr Brook	4/22/2021	367	1	367		
CB452	Carr Brook	4/22/2021	56	1	56		
CB701	Carr Brook	3/23/2021	454	2	908		
CB800	Carr Brook	2/5/2021	236	2	472		
CB802	Carr Brook	9/27/2021	401	4	1604		
CB850	Carr Brook	2/5/2021	192	2	384		

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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
CM590	Cemetery	2/5/2021	210	1	210		
CM591	Cemetery	2/4/2021	183	2	366		
CM671	Cemetery	3/11/2021	242	2	484		
CM672	Cemetery	3/12/2021	223	2	446		
CM702	Cemetery	4/20/2021	404	1	404		
CM703	Cemetery	4/20/2021	227	1	227		
CM704	Cemetery	4/20/2021	259	1	259		
CM705	Cemetery	4/16/2021	247	1	247		
CM706	Cemetery	4/16/2021	28	1	28		
CM707	Cemetery	4/16/2021	236	1	236		
CM708	Cemetery	4/16/2021	240	1	240		
CM709	Cemetery	4/12/2021	324	1	324		
CM710	Cemetery	4/12/2021	344	1	344		
CM711	Cemetery	4/12/2021	294	1	294	Yes	for CCTV
CM711	Cemetery	4/12/2021	294	1	294	Yes	for CCTV
CM720	Cemetery	4/20/2021	181	1	181		
CM730	Cemetery	4/20/2021	251	1	251		
CM740	Cemetery	4/20/2021	35	1	35		
CM750	Cemetery	4/16/2021	261	1	261		
CM760	Cemetery	4/16/2021	30	1	30		
CM770	Cemetery	4/16/2021	215	1	215		
CM780	Cemetery	4/12/2021	40	1	40		
CM781	Cemetery	4/16/2021	314	1	314		
CM790	Cemetery	4/12/2021	263	1	263		
CM870	Cemetery	3/29/2021	217	1	217		
CM880	Cemetery	3/29/2021	167	1	167		
CM901	Cemetery	3/29/2021	298	1	298		
CM902	Cemetery	3/29/2021	192	1	192		
CM904	Cemetery	3/29/2021	123	1	123		
CM925	Cemetery	3/29/2021	253	1	253		
CM926	Cemetery	4/20/2021	301	1	301		
CM950	Cemetery	3/29/2021	21	1	21		
CM951	Cemetery	3/29/2021	179	1	179		
DB011	Davis Brook	5/27/2021	261	1	261		
DB012	Davis Brook	5/27/2021	192	1	192		
DB017	Davis Brook	3/22/2021	229	1	229		
DB019	Davis Brook	4/29/2021	403	1	403		
DB020	Davis Brook	4/29/2021	252	1	252		

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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
DB021	Davis Brook	4/29/2021	48	1	48		
DB022	Davis Brook	4/29/2021	100	1	100		
DB023	Davis Brook	4/28/2021	134	1	134		
DB024	Davis Brook	3/25/2021	746	1	746		
DB108	Davis Brook	4/21/2021	222	1	222	Yes	
DB108	Davis Brook	4/23/2021	222	1	222	Yes	for CCTV
DB123	Davis Brook	12/14/2021	166	1	166		
DB124	Davis Brook	12/14/2021	104	1	104		
DB241	Davis Brook	4/21/2021	467	1	467		
DB250	Davis Brook	4/21/2021	326	1	326		
DB403B	Davis Brook	4/22/2021	10	1	10		
DB404	Davis Brook	4/22/2021	147	1	147		
DB406	Davis Brook	3/26/2021	719	1	719		
DB407	Davis Brook	3/26/2021	277	1	277		
DB420	Davis Brook	4/22/2021	219	1	219		
DB421	Davis Brook	4/22/2021	280	1	280		
DB423	Davis Brook	5/21/2021	170	2	340		
DB470	Davis Brook	3/12/2021	231	1	231		
DB472	Davis Brook	12/14/2021	445	1	445		
DB473	Davis Brook	3/12/2021	198	1	198		
DB501	Davis Brook	5/27/2021	546	1	546		
DB510	Davis Brook	4/22/2021	244	1	244		
DB528	Davis Brook	4/27/2021	449	1	449		
DB541	Davis Brook	4/27/2021	286	1	286		
DB546	Davis Brook	12/14/2021	51	2	102		
DB550	Davis Brook	4/27/2021	317	1	317		
DB551	Davis Brook	4/27/2021	64	1	64		
DB553	Davis Brook	12/14/2021	479	1	479		
DB561	Davis Brook	12/14/2021	379	2	758		
DB562	Davis Brook	3/26/2021	371	1	371		
DB563	Davis Brook	3/26/2021	367	1	367		
DB564	Davis Brook	8/5/2021	168	1	168		
DB565	Davis Brook	8/5/2021	162	1	162		
DB566	Davis Brook	8/5/2021	172	1	172		
DB570	Davis Brook	4/27/2021	283	1	283		
DB575	Davis Brook	4/22/2021	185	2	370		
DB580	Davis Brook	4/22/2021	84	1	84		
DB600A	Davis Brook	4/28/2021	382	1	382		

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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
DB605	Davis Brook	3/22/2021	264	1	264		
DB605A	Davis Brook	4/28/2021	64	1	64	Yes	for CCTV
DB605A	Davis Brook	4/28/2021	64	1	64	Yes	for CCTV
DB606	Davis Brook	3/22/2021	50	1	50		
DB611A	Davis Brook	3/22/2021	85	1	85		
DB612	Davis Brook	3/22/2021	294	1	294		
DB625	Davis Brook	3/22/2021	121	1	121		
DB630	Davis Brook	3/22/2021	537	1	537		
DB631	Davis Brook	3/22/2021	65	1	65		
DB700	Davis Brook	3/22/2021	239	1	239		
DB702	Davis Brook	4/29/2021	255	1	255		
DB702A	Davis Brook	4/29/2021	81	1	81		
DB703	Davis Brook	4/29/2021	349	1	349		
DB704	Davis Brook	3/25/2021	450	2	900		
DB731	Davis Brook	3/25/2021	148	1	148		
DB732	Davis Brook	3/25/2021	468	1	468		
DB750	Davis Brook	3/25/2021	175	2	350		
DB800	Davis Brook	4/28/2021	128	1	128		
DB803	Davis Brook	3/9/2021	379	1	379		
DB804	Davis Brook	3/9/2021	450	2	900		
DB815	Davis Brook	3/9/2021	400	1	400		
DB850A	Davis Brook	3/9/2021	195	2	390		
DB851	Davis Brook	3/9/2021	313	2	626		
DB852	Davis Brook	3/9/2021	179	2	358		
DB951	Davis Brook	4/26/2021	544	1	544		
DW212	Dow	2/5/2021	227	1	227		
DW214	Dow	4/21/2021	287	1	287		
DW260	Dow	1/13/2021	249	1	249	Yes	
DW260	Dow	3/18/2021	248	1	248	Yes	for CCTV
DW260	Dow	3/18/2021	248	2	496	Yes	for CCTV
DW260	Dow	8/5/2021	248	1	248	Yes	for CCTV
DW265	Dow	1/13/2021	108	2	216	Yes	Known Trouble Spot
DW265	Dow	3/18/2021	109	2	218	Yes	Known Trouble Spot
DW265	Dow	3/18/2021	109	2	218	Yes	for CCTV
DW265	Dow	5/10/2021	109	2	218	Yes	Known Trouble Spot
DW265	Dow	6/2/2021	109	2	218	Yes	Known Trouble Spot
DW265	Dow	8/5/2021	109	2	218	Yes	Known Trouble Spot
DW265	Dow	9/21/2021	109	2	218	Yes	Known Trouble Spot

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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
DW265	Dow	12/7/2021	109	2	218	Yes	Known Trouble Spot
DW275	Dow	2/5/2021	322	1	322		
DW276	Dow	2/5/2021	273	1	273		
DW285	Dow	3/22/2021	171	1	171		
DW290	Dow	3/22/2021	72	1	72		
DW291	Dow	3/22/2021	135	1	135		
DW292	Dow	3/22/2021	237	1	237		
DW302	Dow	4/21/2021	246	1	246		
DW303	Dow	4/21/2021	199	1	199		
DW304	Dow	4/21/2021	209	1	209		
DW305	Dow	4/21/2021	255	1	255		
DW306	Dow	4/21/2021	249	1	249		
DW307	Dow	4/20/2021	339	1	339		
DW308	Dow	4/20/2021	340	1	340		
DW552	Dow	4/21/2021	274	1	274		
DW553	Dow	4/21/2021	326	1	326		
DW554	Dow	4/21/2021	60	1	60		
DW616	Dow	4/21/2021	84	1	84		
DW617	Dow	4/21/2021	239	1	239		
ES002	Everett Street	3/25/2021	486	1	486		
ES003	Everett Street	3/25/2021	159	1	159		
ES004	Everett Street	3/25/2021	182	1	182		
ES005	Everett Street	3/25/2021	78	1	78		
ES007	Everett Street	3/25/2021	183	1	183		
ES008	Everett Street	3/24/2021	165	1	165		
ES200	Everett Street	3/24/2021	192	1	192		
ES201	Everett Street	3/24/2021	219	1	219		
FK301	Franklin	3/30/2021	344	1	344		
FK302	Franklin	3/30/2021	272	1	272		
FK303	Franklin	3/30/2021	338	1	338		
FK304	Franklin	3/29/2021	188	1	188		
FK305	Franklin	3/29/2021	215	1	215		
FK350	Franklin	3/30/2021	214	1	214		
FK351	Franklin	3/30/2021	183	1	183		
FS012	Fourteenth Street	12/7/2021	244	1	244		
FS070	Fourteenth Street	12/7/2021	454	2	908		
FS106	Fourteenth Street	3/12/2021	322	1	322		
FS107	Fourteenth Street	3/12/2021	78	1	78		

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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
FS151	Fourteenth Street	3/12/2021	527	1	527		
FS501	Fourteenth Street	3/12/2021	178	1	178		
FS502	Fourteenth Street	3/12/2021	295	1	295		
FS503	Fourteenth Street	3/12/2021	305	1	305		
HK010A	Hancock	2/24/2021	45	1	45	Yes	Known Trouble Spot
HK010A	Hancock	12/7/2021	45	1	45	Yes	Known Trouble Spot
HK011	Hancock	2/24/2021	236	1	236	Yes	
HK011	Hancock	12/7/2021	236	1	236	Yes	for CCTV
HK012	Hancock	3/24/2021	400	2	800		
HK013	Hancock	3/24/2021	233	2	466		
HK014	Hancock	3/24/2021	263	2	526		
HK015	Hancock	4/7/2021	218	1	218		
HK040	Hancock	2/24/2021	31	1	31	Yes	Known Trouble Spot
HK040	Hancock	12/7/2021	31	1	31	Yes	Known Trouble Spot
HK041	Hancock	2/24/2021	323	1	323	Yes	Known Trouble Spot
HK041	Hancock	12/7/2021	323	1	323	Yes	Known Trouble Spot
HK050	Hancock	3/24/2021	383	2	766		
HK060	Hancock	3/24/2021	294	1	294		
HK080	Hancock	4/7/2021	224	1	224		
HK207	Hancock	5/14/2021	273	1	273		
HK208	Hancock	5/14/2021	78	1	78		
HK210	Hancock	5/14/2021	268	1	268		
HK211	Hancock	5/14/2021	104	1	104		
HK213	Hancock	4/7/2021	384	1	384		
HK214	Hancock	3/31/2021	267	1	267		
HK225	Hancock	3/31/2021	236	1	236		
HK226	Hancock	3/31/2021	131	1	131		
HK230	Hancock	3/31/2021	130	1	130		
HK250	Hancock	3/31/2021	258	1	258		
HK251	Hancock	3/31/2021	236	1	236		
HK252	Hancock	3/31/2021	47	1	47		
HK253	Hancock	3/31/2021	240	1	240		
HK255	Hancock	3/31/2021	283	1	283		
HK260	Hancock	3/31/2021	247	1	247		
HK261	Hancock	3/31/2021	297	1	297		
HP070	Hildreth Perry	2/4/2021	0	2	0		
HP071	Hildreth Perry	2/4/2021	353	2	706		
HP072	Hildreth Perry	2/5/2021	347	2	694		

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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
HP081	Hildreth Perry	3/9/2021	347	5	1735		
HP239	Hildreth Perry	3/26/2021	109	4	436		
HP407	Hildreth Perry	6/1/2021	488	4	1952		
HP471	Hildreth Perry	2/25/2021	377	2	754		
HP472	Hildreth Perry	2/25/2021	284	1	284		
HP502	Hildreth Perry	3/29/2021	316	2	632		
HP510	Hildreth Perry	3/29/2021	231	1	231		
HP511	Hildreth Perry	3/29/2021	114	1	114		
HP602	Hildreth Perry	4/7/2021	239	1	239		
HP603	Hildreth Perry	4/7/2021	299	1	299		
HP604	Hildreth Perry	4/7/2021	280	1	280		
HP605	Hildreth Perry	4/6/2021	286	1	286		
HP606	Hildreth Perry	4/6/2021	297	1	297		
HP607	Hildreth Perry	4/6/2021	280	1	280		
HP608	Hildreth Perry	4/6/2021	245	1	245		
HP650	Hildreth Perry	4/7/2021	260	1	260		
HP651	Hildreth Perry	4/7/2021	249	1	249		
HP652	Hildreth Perry	4/7/2021	249	1	249		
HP653	Hildreth Perry	4/7/2021	240	1	240		
HS500	Husson	3/22/2021	295	2	590	Yes	Known Trouble Spot
HS500	Husson	4/16/2021	295	1	295	Yes	Known Trouble Spot
HS500	Husson	5/27/2021	295	1	295	Yes	Known Trouble Spot
HS500	Husson	12/7/2021	301	1	301	Yes	Known Trouble Spot
KE050	Kenduskeag East	2/25/2021	252	3	756		
KE208A	Kenduskeag East	10/1/2021	95	8	760		
KE208B	Kenduskeag East	10/5/2021	230	8	1840		
KE262	Kenduskeag East	3/30/2021	163	1	163	Yes	
KE262	Kenduskeag East	3/30/2021	163	1	163	Yes	for CCTV
KE263	Kenduskeag East	3/30/2021	50	1	50		
KE301	Kenduskeag East	3/30/2021	138	1	138		
KE350	Kenduskeag East	3/30/2021	176	1	176		
KE351	Kenduskeag East	3/30/2021	150	1	150		
KW101	Kenduskeag West	12/7/2021	304	2	608		
KW101A	Kenduskeag West	12/7/2021	266	2	532		
KW171	Kenduskeag West	12/14/2021	477	1	477		
KW205	Kenduskeag West	3/24/2021	212	1	212		
KW206	Kenduskeag West	3/24/2021	205	1	205		
KW207	Kenduskeag West	3/24/2021	137	1	137		

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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
KW208	Kenduskeag West	3/24/2021	28	1	28		
MB010	Meadowbrook	4/6/2021	271	1	271		
MB011	Meadowbrook	4/6/2021	85	1	85		
MB012	Meadowbrook	4/6/2021	92	1	92		
MB013	Meadowbrook	4/6/2021	141	1	141		
MB102	Meadowbrook	4/6/2021	96	1	96		
MB103	Meadowbrook	4/6/2021	168	1	168		
MB104	Meadowbrook	4/5/2021	255	1	255		
MB120	Meadowbrook	4/5/2021	366	1	366		
MB204	Meadowbrook	4/6/2021	120	1	120		
MB205	Meadowbrook	4/6/2021	72	1	72		
MB206	Meadowbrook	4/6/2021	167	1	167		
MB207	Meadowbrook	4/6/2021	248	1	248		
MB208	Meadowbrook	4/6/2021	171	1	171		
MB221	Meadowbrook	3/25/2021	126	2	252	Yes	
MB221	Meadowbrook	3/30/2021	126	1	126	Yes	for CCTV
MB221	Meadowbrook	3/30/2021	126	1	126	Yes	for CCTV
MB221	Meadowbrook	3/31/2021	126	1	126	Yes	for CCTV
MB222	Meadowbrook	3/25/2021	113	2	226		
MB322	Meadowbrook	4/5/2021	163	1	163		
MB326	Meadowbrook	4/5/2021	391	1	391		
MB327	Meadowbrook	4/5/2021	77	1	77		
MB329	Meadowbrook	4/5/2021	195	1	195		
MB330	Meadowbrook	4/5/2021	153	1	153		
MB450	Meadowbrook	3/18/2021	138	5	690		
MB475	Meadowbrook	3/9/2021	189	1	189		
MB476	Meadowbrook	3/9/2021	249	1	249		
MB477	Meadowbrook	3/9/2021	391	1	391		
MB480	Meadowbrook	3/9/2021	106	1	106		
MB518	Meadowbrook	12/13/2021	33	1	33		
MB519	Meadowbrook	12/13/2021	121	1	121		
MB520	Meadowbrook	12/13/2021	302	1	302		
MB521	Meadowbrook	3/9/2021	114	1	114		
MB552	Meadowbrook	3/25/2021	389	2	778		
MB553	Meadowbrook	3/25/2021	68	2	136		
MB576	Meadowbrook	2/5/2021	328	2	656		
MB755	Meadowbrook	3/22/2021	223	2	446		
MB765	Meadowbrook	3/22/2021	290	2	580		

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2021

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
MB770	Meadowbrook	3/22/2021	330	2	660		
MB836	Meadowbrook	3/8/2021	125	3	375		
MS003	Mill Street	12/2/2021	283	3	849	Yes	for CCTV
MS003	Mill Street	12/2/2021	283	3	849	Yes	for CCTV
MY002A	May Street	12/13/2021	342	2	684		
MY100A	May Street	12/13/2021	158	2	316		
OC403	Old Capehart	4/2/2021	226	1	226		
OC442	Old Capehart	7/28/2021	275	2	550		
OC443	Old Capehart	7/21/2021	261	5	1305	Yes	for CCTV
OC443	Old Capehart	7/28/2021	261	2	522	Yes	for CCTV
OC444	Old Capehart	7/21/2021	255	4	1020		
OC445	Old Capehart	7/21/2021	269	3	807		
OC453	Old Capehart	2/4/2021	236	1	236	Yes	Known Trouble Spot
OC453	Old Capehart	4/2/2021	236	1	236	Yes	Known Trouble Spot
OC455	Old Capehart	2/4/2021	191	1	191	Yes	Known Trouble Spot
OC455	Old Capehart	4/2/2021	191	1	191	Yes	Known Trouble Spot
OC471	Old Capehart	3/23/2021	144	2	288		
OC480	Old Capehart	3/23/2021	260	2	520		
OC485	Old Capehart	3/23/2021	200	2	400		
OC500	Old Capehart	6/2/2021	239	2	478		
OC501	Old Capehart	6/2/2021	249	2	498		
OC801	Old Capehart	2/23/2021	203	1	203	Yes	Known Trouble Spot
OC801	Old Capehart	4/2/2021	203	1	203	Yes	Known Trouble Spot
OC801	Old Capehart	10/6/2021	203	1	203	Yes	Known Trouble Spot
OC907	Old Capehart	1/13/2021	235	1	235	Yes	Known Trouble Spot
OC907	Old Capehart	2/23/2021	235	1	235	Yes	Known Trouble Spot
OC907	Old Capehart	4/2/2021	235	1	235	Yes	Known Trouble Spot
OC907	Old Capehart	8/5/2021	235	1	235	Yes	Known Trouble Spot
OC907	Old Capehart	10/6/2021	235	1	235	Yes	Known Trouble Spot
OC954	Old Capehart	1/13/2021	347	1	347	Yes	Known Trouble Spot
OC954	Old Capehart	2/4/2021	347	1	347	Yes	Known Trouble Spot
OC954	Old Capehart	2/23/2021	347	1	347	Yes	Known Trouble Spot
OC954	Old Capehart	4/2/2021	347	1	347	Yes	Known Trouble Spot
OC954	Old Capehart	8/5/2021	347	1	347	Yes	Known Trouble Spot
OC954	Old Capehart	9/8/2021	347	1	347	Yes	Known Trouble Spot
OC954	Old Capehart	10/6/2021	347	1	347	Yes	Known Trouble Spot
OC954	Old Capehart	12/7/2021	347	1	347	Yes	Known Trouble Spot
PJ400	Penjawoc	2/5/2021	165	2	330	Yes	Known Trouble Spot

APPENDIX D: CLEANING LOG

City of Bangor, Maine
Calendar Year 2021

Pipe ID	Subsection	Date	Length of Pipe (ft)	# Passes	Approx. Length Cleaned (ft)	Repeat Cleaning (this CY)	Justification for Repeat Cleaning
PJ400	Penjajawoc	4/2/2021	186	2	372	Yes	Known Trouble Spot
PJ400	Penjajawoc	5/27/2021	186	1	186	Yes	Known Trouble Spot
PJ400	Penjajawoc	9/8/2021	186	1	186	Yes	Known Trouble Spot
PJ400	Penjajawoc	9/21/2021	186	2	372	Yes	Known Trouble Spot
PJ502	Penjajawoc	1/15/2021	127	4	508		
PJ530	Penjajawoc	12/16/2021	363	1	363		
PJ576	Penjajawoc	3/25/2021	156	2	312		
SL101	Strickland	2/25/2021	85	1	85	Yes	
SL101	Strickland	3/30/2021	86	2	172	Yes	for CCTV
SL102	Strickland	2/25/2021	112	1	112	Yes	
SL102	Strickland	3/30/2021	112	2	224	Yes	for CCTV
SL103	Strickland	2/25/2021	66	1	66		
SL110	Strickland	3/30/2021	177	2	354		
WL024	Woodlawn	3/11/2021	600	2	1200		
WL150	Woodlawn	3/26/2021	203	2	406		
WS203	Westland	3/24/2021	156	2	312		
WS204	Westland	3/24/2021	147	2	294		
WS208	Westland	12/7/2021	537	1	537		
Total feet					146,414		
Total miles					27.7		

APPENDIX E: SSO EVENT LOG

City of Bangor, Maine

Calendar Year 2021

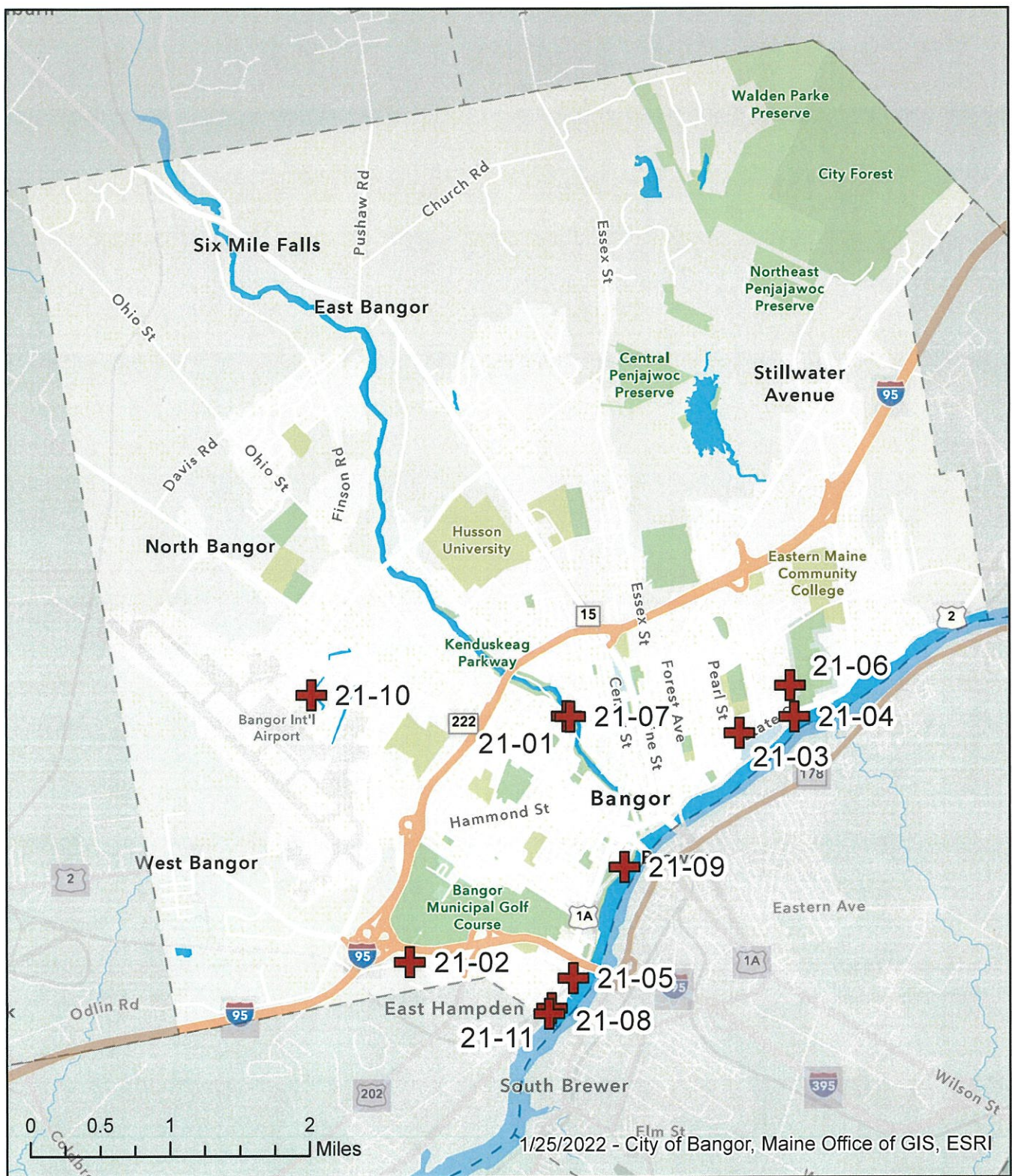
Event No.	Date/Time Reported or Discovered	Date/Time Stopped	Location (Nearest Address)	Final Disposition (Ground, Street, MS4, Surface Water)	Source of Notification	Suspected Cause of Event	Due to blockage or hydraulic limitation within publicly owned Collection System	Measures Taken to Stop Event	Estimated Release Volume (gal)/ Methodology	Date of Most Recent Prior SSO Event at Location
21-01	3/30/2021	4/6/2022	Woods behind Autumn Street	Ground	Resident Notified Sewer Crew	Crack in sewer main and rain event	Yes	Replaced section of sewer main and improved access to sewer main.	10,213 Gallons estimated by units serviced	None
21-02	4/20/2021	4/20/2021	Perry Road Pump Station	Ground	Sewer crew	Power outage at pump station	No	Faulty equipment was replaced, voltage card was replaced.	<200 gallons by area and depth of ponded area.	None
21-03	7/9/2021	7/9/2021	Wing Park parking lot for Northern Light Hospital	Drained to stormwater system that drains to Penobscot River	Sewer crew	Heavy rain from Tropical Storm Elsa on 7-9-2021	yes	Capacity of sewer system was recently increased with State Street and Hancock Street utility improvements.	Unknown	None
21-04	7/9/2021	7/9/2021	Manhole east of Northern Light parking lot off State Street and near Cascade Park	Ground	Sewer crew	Heavy rain from Tropical Storm Elsa on 7-9-2021	No	The City is working to reduce overflows through projects included in our LTCF	Unknown	None
21-05	7/9/2021	7/9/2021	Manhole behind 664 Main Street	Ground	Sewer Crew	Heavy rain from Tropical Storm Elsa on 7-9-2021	No	The City is working to reduce overflows through projects included in our LTCF. This location will directly benefit from Davis Brook Tank Project	Unknown	Fall of 2015

APPENDIX E: SSO EVENT LOG

City of Bangor, Maine

Calendar Year 2021

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
21-06	7/9/2021	7/9/2021	Manhole along cross country line between Mount Hope Avenue and Garland Street	Ground	Sewer Crew	Heavy rain from Tropical Storm Elsa on 7-9-2021	No	The City is working to reduce overflows through projects included in our LTCP. This location will directly benefit from Davis Brook Tank Project	Unknown	None
21-07	7/9/2021	7/9/2021	Two manholes along Valley Avenue	Ground	Sewer Crew	Heavy rain from Tropical Storm Elsa on 7-9-2021	No	The City is working to reduce overflows through projects included in our LTCP.	Unknown	None
21-08	9/27/2021	9/27/2021	760 Main Street (WWTP)	Placed back into sanitary system	Sewer Crew	Power outage at treatment plant	No	The City is currently in the process of installing a new back up generator for WWTP.	Unknown	None
21-09	9/30/2021	9/30/2021	Davis Brook Outfall	Penobscot River	Member of Public notified Sewer Crew	Davis Brook Storage Conduit was taken off line for Davis Brook Tank Construction. A brief, but intense rainfall event overwhelmed 42" interceptor where flows were diverted.	No	Storage conduit will not be taken off line again as part of Davis Brook Tank construction.	<150,000 Gallons measured at DB Regulator Structure.	None
21-10	10/27/2021	10/27/2021	Manhole near Polk Street	To drainage ditch	Sewer Crew	Sewer main blocked by roots.	Yes	Root ball was removed and sewer main was cleaned.	Unknown	None
21-11	11/24/2021	11/24/2021	760 Main Street (WWTP)	Ground	Sewer Crew	Minor leak in primary clarifier tank.	No	Drained tank and repaired leak.	<50 gallons Visual estimate	None



Location of Sanitary Sewer Overflows 2021





Location of Illicit Sewer Connections 2021

