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August 28, 2026

Mr. Todd Borci
Office of Environmental Stewardship
US EPA Region 1
5 Post Office Square, Suite 100
Mail Code OES04-4
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Ms. Whitney Fenwick
NPDES Section Chief
Department of Environmental Protection
100 Cambridge Street, Suite 900
Boston, MA 02114

RE: Massachusetts Water Resources Authority NPDES Permit Number MA0103284 – MWRA Annual Infiltration and Inflow (I/I) Reduction Report for Fiscal Year 2026

Dear Mr. Borci and Ms. Fenwick:

In compliance with the requirements of MWRA's NPDES Permit MA0103284 - Part I, Item 18.bb (ii) "Infiltration/Inflow" (page 28 of 32), the Authority submits this cover letter and the six Attachments listed below that together comprise the MWRA Annual Infiltration and Inflow (I/I) Reduction Report for Fiscal Year 2026.

Attachment 1 – Overview of MWRA Regional I/I Reduction Plan
Attachment 2 – MWRA Regional I/I Reduction Plan – FY26 Progress Update and Detailed Implementation Schedule for FY27 Activities
Attachment 3 – MWRA Actions Taken to Reduce I/I During FY26
Attachment 4 – Status Update on MWRA's I/I Local Financial Assistance Program
Attachment 5 – I/I Reduction Status Update for Member Communities
Attachment 6 – CY25 Community Wastewater Flow Data

Should you require additional information, please contact Maret Smolow at Maret.Smolow@mwra.com.

Sincerely,

Rebecca Weidman
Deputy Chief Operating Officer

cc: mass.dep.nerowastewater@mass.gov
Michele Barden, US EPA
David Wu, Director, MWRA, Environmental Quality
Maret Smolow, Senior Program Manager, MWRA, Environmental Quality
Kristen Hall, Senior Program Manager, MWRA Community Support Program

ATTACHMENT 1
TO
MWRA ANNUAL I/I REDUCTION REPORT FOR FY26
Reporting Period – July 2025 Through June 2026

OVERVIEW OF MWRA REGIONAL I/I REDUCTION PLAN

The MWRA Board of Directors approved the Regional Infiltration/Inflow (I/I) Reduction Plan on May 23, 2001 and authorized staff to submit the Plan to EPA and MassDEP as required under MWRA's NPDES Permit. The plan was submitted to EPA and MassDEP in June 2001 and MassDEP approved the plan in a letter dated November 19, 2002. A full copy of the Regional I/I Reduction Plan (dated September 2002) was included as Attachment 2 to the August 29, 2003 MWRA Annual I/I Reduction Report for FY03. The Regional I/I Reduction Plan is available at https://www.mwra.com/projects-programs/major-programs/local-ii-community-financial-assistance .

The Regional I/I Reduction Plan combines recommendations from the I/I Task Force Report (March 2001) with ongoing MWRA I/I reduction initiatives. The updated plan replaces the Authority's 1990 I/I Reduction Policy. Implementation of the Regional I/I Reduction Plan focuses on the cooperative efforts of member communities, MassDEP, EPA and MWRA to develop and implement I/I reduction and sewer system rehabilitation projects.

Under the plan, MWRA has full legal and fiscal responsibility for implementation of operation, maintenance and I/I reduction programs for the MWRA-owned interceptor system. Each member community retains full legal and fiscal responsibility for implementation of operation, maintenance and I/I reduction programs for community-owned sewers. MWRA will provide technical and financial assistance to member communities and work cooperatively with MassDEP, EPA and other stakeholders to help solve local and regional sewer problems. MWRA's Regional I/I Reduction Plan is organized into five major goals:

1. MWRA will continue its current operation and maintenance program for the MWRA-owned interceptor system leading to the identification, prioritization and rehabilitation of structural and I/I problems.

2. MWRA will work cooperatively with member communities, MassDEP and EPA to eliminate sewer system backups into homes and other buildings and to minimize health and environmental impacts of SSOs related to I/I.

3. MWRA will work cooperatively with member communities, MassDEP and EPA to reduce I/I in the regional collection system with emphasis on the following: (1) inflow reduction in areas tributary to sewer backups and SSOs; (2) private source inflow reduction; (3) infiltration that may impact groundwater or surface water resources; and (4) excessive infiltration as defined in MassDEP regulations or guidance documents.

4. MWRA will work cooperatively with member communities, MassDEP and EPA to expand existing efforts to educate and involve the public regarding regional sewer backup, SSO and I/I reduction issues.

5. MWRA will provide technical assistance and work cooperatively with member communities, MassDEP and EPA regarding guidance on local operation and maintenance and capital improvement programs intended to provide a reasonable level of sewer service to local sewer users/ratepayers.

ATTACHMENT 2
TO
MWRA ANNUAL I/I REDUCTION REPORT FOR FY26
Reporting Period – July 2025 Through June 2026

MWRA REGIONAL I/I REDUCTION PLAN - FY26 PROGRESS UPDATE AND DETAILED IMPLEMENTATION SCHEDULE FOR FY27 ACTIVITIES

This document provides a progress update for FY26 accomplishments and a description of the activities to be accomplished during FY27 for each of the I/I reduction strategies in the MWRA Regional I/I Reduction Plan. The update appears in bold type directly below each I/I reduction strategy. This document is intended to satisfy Condition 5 of DEP's November 19, 2002 letter approving the MWRA Regional I/I Reduction Plan.

Goal 1 under MWRA's Regional I/I Reduction Plan is:

> *MWRA will continue its current operation and maintenance program for the MWRA-owned interceptor system leading to the identification, prioritization, and rehabilitation of structural and I/I problems.*

Strategy A: Utilize MWRA's internal TV inspection equipment that currently includes one fully outfitted internal TV inspection vehicles equipped with 6000 feet of multi-conductor cable. MWRA also utilizes an OZ-camera that has a 200X zoom capability. Annual inspection schedules are outlined in MWRA's Collection System O&M Manual. This strategy has an ongoing schedule that has been initiated.

Strategy B: Utilize MWRA's sonar camera to inspect siphons and force mains. Annual inspection schedules are outlined in MWRA's Collection System O&M Manual. This strategy has an ongoing schedule that has been initiated.

Strategy C: Physical inspection of collection system manholes and structures by Operations Division field crews. Annual inspection schedules are outlined in MWRA's Collection System O&M Manual. This strategy has an ongoing schedule that has been initiated.

Work by MWRA under these three Strategies is ongoing.

During FY26, MWRA properly operated and maintained the MWRA-owned interceptor system. Annual performance targets and ongoing accomplishments are tracked as part of the Authority's MAXIMO maintenance database and are reported monthly to MWRA senior management. Specific activities undertaken by MWRA for FY26 are detailed in Attachment 3. Additional information on MWRA's FY26 maintenance activities is provided under separate submittal - NPDES Part I.18.g Annual Maintenance Status Sheets.

During FY27, MWRA will continue to properly operate and maintain the MWRA-owned interceptor system.

Goal 2 under MWRA's Regional I/I Reduction Plan is:

> *MWRA will work cooperatively with member communities, DEP, and EPA to eliminate sewer system backups into homes and other buildings and to minimize health and environmental impacts of SSOs related to I/I.*

Strategy A: MWRA will provide technical assistance to DEP to develop a uniform format for use by communities for reporting wastewater backup and sewer system overflow information. A representative group of communities should be consulted for review. MWRA will provide technical assistance to DEP to develop a system to record the information reported by communities into a usable database format. This database may have the capability to be linked to GIS mapping and the information may be made available to communities, MWRA, DEP, EPA, watershed groups, the general public, etc. upon appropriate request. This strategy has an ongoing schedule that should be initiated in the short-term. Completion of this strategy requires a significant resource commitment by DEP. Collection and recording of sewer backup and SSO information from member community sewer systems is the responsibility of DEP. DEP will be responsible for management of collection and distribution of these records. (Cross-reference this strategy to the I/I Task Force Report recommendations 4.1 Strategy A-2 and 5.2 Strategy B-2)

Work by MWRA under this Strategy is ongoing.

During spring 2001, MWRA provided MassDEP a draft SSO reporting/record keeping electronic database format that was developed by Malcolm-Pirnie, Inc. under contract to MWRA. This work was completed by MWRA as technical assistance to MassDEP. A follow-up letter dated June 20, 2001 requested MassDEP identify the format for finalizing the SSO reporting/record keeping electronic database.

During FY04, MassDEP (in conjunction with staff in the Massachusetts Information Technology Division), developed a revised format SSO electronic database package. This project was part of statewide efforts to upgrade computerized resources and electronic access. The system was demonstrated at an April 8, 2004 MassDEP/MWRA joint community workshop.

In May 2005, MassDEP developed a revised Reporting Form "Sanitary Sewer Overflow/Bypass/Backup Notification Form (rev 05/2005)." This form was made available on the MassDEP web site and reporting was via FAX or by mail. Following development of the web based reporting form by MassDEP, rollout of the SSO reporting/record keeping electronic database was not completed.

As requested by MassDEP, on August 22, 2011 MWRA provided MassDEP specific SSO site location information for SSO's on MWRA-owned northern system sewers (for events during the period January 2000 through June 2011), including street location, longitude and latitude location, and GIS site maps.

In January 2013, MassDEP developed the most recent revised Reporting Form "Sanitary Sewer Overflow (SSO)/Bypass Notification Form" (pdf version - rev 01/2013). As of July 2020, this pdf form is available on the MassDEP web site (a Word version of the form is also available – rev 1/2018) and reporting using the form is via FAX or by mail.

During FY16, MWRA added more specific information on SSOs on the MWRA web site at: https://www.mwra.com/your-sewer-system/sanitary-sewer-overflows-ssos. This information includes information on what an SSO is, public health impacts, how SSOs can be prevented, and what MWRA does when an SSO occurs. The web site also includes an interactive GIS site map for SSOs that have been reported by MWRA for the following SSO event display selections: currently active, past 2 days, past 30 days, and past 12 months.

In January 2021, Governor Baker signed *An Act Promoting Awareness of Sewage in Public Waters* into law: https://malegislature.gov/Laws/SessionLaws/Acts/2020/Chapter322. This law

ensures that the public knows when untreated sewage flows into Massachusetts waters. The regulations apply to owners of outfalls from which there are sewage discharges that either directly or indirectly discharge to a receiving water. MassDEP had twelve (12) months to develop regulations to support the implementation of the law (January 2022). Communities had six (6) months thereafter to comply with the regulations (July 2022). MWRA was part of the stakeholder group providing input to MassDEP's development of the regulations.

In FY22, MWRA enhanced its existing CSO public notification program to add notifications of SSOs (in compliance with the new sewage notification regulation 314 CMR 16.00). Additionally, MWRA updated its SSO notification website. In response to a request from MassDEP, MWRA assisted in notifying member communities of their responsibilities under the new regulation. MWRA also provided comment on the draft regulation.

In FY23, MWRA began sending notifications to media outlets (as required by 314 CMR 16.00). Along with Cambridge and Somerville, MWRA held a public meeting on CSO control in the Charles River and Mystic River/Alewife Brook watersheds that included discussion of flooding, system capacity and I/I reduction requirements. This was the second meeting in a series that would continue over the next year and a half. MWRA also continued outreach and education efforts with local Boards of Health in preparation for the new sewage notification regulation.

In FY24, MWRA continued its existing sewage notification program which includes notifications of SSOs (in compliance with the sewage notification regulation 314 CMR 16.00). MWRA also completed its Final Sewage Notification Plan, submitted it to MassDEP, and published it for public comment as required by 314 CMR 16.00. Beginning July 6, 2022, MWRA also enters notifications into the MassDEP database within 18 hours of the start of each discharge, so information can be made available in MassDEP's public portal. MWRA believes the database and portal developed by MassDEP to comply with the Sewage Notification Regulation 314 CMR 16.00 meets the intent of this strategy.

In FY25, MWRA continued to implement its sewage notification program. MWRA began an enhanced notification feasibility study in accordance with the requirements of the 2024 Charles River and Mystic River/Alewife Brook Water Quality Standards Variances. The feasibility study includes evaluating the installation of a real time CSO warning light system in each waterbody.

In FY26, MWRA continued to implement its sewage notification program. MWRA, along with Cambridge and Somerville, completed the aforementioned enhanced notification feasibility study. The study included an evaluation of the installation of a real time CSO warning light system in each waterbody. Subsequently in Spring 2026, MWRA implemented a CSO warning light pilot program at one of its CSO outfalls in the Mystic River. Evaluation of the pilot program is ongoing.

Strategy B: Once a central information database is established (see Strategy A), MWRA will periodically delineate areas which may be "at risk" for backups and SSOs that may be impacted by the MWRA-owned collection system. MWRA will evaluate potential improvements to the MWRA-owned collection system that may reduce the risk of sewer backups and SSOs. This strategy should be completed in the mid to long-term. (Cross-reference this strategy to the I/I Task Force Report recommendations 4.3 Strategy C-2 and 5.5 Strategy E-2)

Work by MWRA under this Strategy is complete as noted below. Some ongoing work performed by MWRA that is associated with this Strategy is also noted.

MWRA utilizes MassDEP's Sanitary Sewer Overflow (SSO)/Bypass Notification Form to report SSOs from MWRA's collection system.

MWRA does not have SSOs related to dry weather sewer system capacity issues. MWRA does not have SSOs related to wet weather sewer capacity issues for rainfall events at or below the MassDEP recommended standard design storm for inflow having a one-year recurrence interval and a duration of six hours (see MassDEP's Guidelines for Performing I/I Analyses and Sewer System Evaluation Surveys – Revised May 2017). The one-year, six-hour storm produces approximately 1.72 inches of rainfall in the Boston area. During extreme storm events that exceed the MassDEP recommended design storm, I/I entering the upstream community-owned collection systems may cause an occasional SSO in the MWRA regional interceptor system.

During FY26, MWRA continued its ongoing priority program to clean and inspect inverted siphons in the MWRA-owned collection system. This program is intended to minimize potential SSOs upstream of siphons and reduce the risk of hydraulic limitations and/or blockage from debris buildup in siphon barrels. The cleaning and inspection program will continue in FY26.

Strategy C: Once a central information database is established (see Strategy A) and member communities have delineated areas which may be "at risk" for backups and SSOs, MWRA - jointly with DEP - will provide technical assistance to member communities to evaluate potential improvements to local infrastructure that may reduce the risk of sewer backups and SSOs. MWRA will assist communities to determine if impacts from the regional collection system are an issue. The schedule for this strategy is dependent on prior actions by DEP and member communities. (Cross-reference this strategy to the I/I Task Force Report recommendations 4.3 Strategy C-1 and 5.5 Strategy E-1)

MassDEP's roll-out of the SSO reporting/record keeping electronic database was not completed (see Strategy A above). However, the database and portal developed by MassDEP to comply with the Sewage Notification Regulation 314 CMR 16.00 may meet the intent of this strategy.

As part of its ongoing program to support member community I/I reduction and sewer system rehabilitation programs, MWRA offers technical assistance to communities to review local I/I reduction plans and local/regional SSO problems. MWRA also offers member communities financial assistance for I/I reduction projects. During FY27, at the request of member communities, MWRA will continue to provide technical and financial assistance on local sewer system projects.

Strategy D: For the MWRA-owned interceptor system, MWRA will review and analyze the health and environmental impacts of existing SSO sites. SSO sites will be prioritized based on the frequency and duration of activations and the resulting health and environmental impacts, including: potential for human contact, impact to water supply, impact to shellfish beds or other economic resources, impact to animal or aquatic habitat, etc. This strategy will be completed in the short-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 5.3 Strategy C-1)

Work by MWRA under this Strategy is complete. As previously stated, MWRA does not have SSOs related to dry weather sewer system capacity issues. MWRA also does not have SSOs related to wet weather sewer capacity issues for rainfall events at or below the MassDEP recommended standard design storm for inflow having a one-year recurrence interval and a duration of six hours (see MassDEP's Guidelines for Performing I/I Analyses and Sewer System Evaluation Surveys – Revised May 2017). Since prior SSOs have been eliminated for sewer capacity issues at or below the collection system design standard for inflow, additional work under this strategy is not necessary.

Strategy E: Utilizing the priority ranking to be completed in Strategy D above, as well as system hydraulic analyses, MWRA (for the MWRA-owned interceptor system) - in conjunction with DEP and EPA - will evaluate the potential to eliminate each overflow. Appropriate I/I reduction and/or relief sewer projects that may eliminate (or minimize) SSOs from MWRA-owned interceptors will be evaluated. This

strategy will be initiated in the short to mid-term; however, implementation of projects developed from the evaluation may span beyond the long-term time frame as defined within the Regional I/I Reduction Plan. (Cross-reference this strategy to the I/I Task Force Report recommendation 5.3 Strategy C-2)

Work by MWRA under this Strategy is complete as noted below. Some ongoing work that is associated with this Strategy is also noted.

As previously stated, MWRA does not have SSOs related to dry weather sewer system capacity issues. MWRA also does not have SSOs related to wet weather sewer capacity issues for rainfall events at or below the MassDEP recommended standard design storm for inflow having a one-year recurrence interval and a duration of six hours (see MassDEP's Guidelines for Performing I/I Analyses and Sewer System Evaluation Surveys – Revised May 2017). Since prior SSOs have been eliminated for sewer capacity issues at or below the collection system design standard for inflow, additional work under this strategy is not necessary.

During FY14, MassDEP revised its Regulation 314 CMR 12.00 *Operation, Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Dischargers*. The revisions include a requirement for all public entities that own a sewer system to complete an I/I analysis by December 31, 2017 and submit it to MassDEP for review. The analysis also must include an assessment of the risk of SSOs. In FY18, MWRA submitted the required I/I analysis as a chapter in the MWRA Wastewater Collection System Operation & Maintenance Plan (December 2017).

As part of its ongoing program to support member community I/I reduction and sewer system rehabilitation programs, MWRA offers technical assistance to communities to review local I/I reduction plans and local/regional SSO problems. MWRA also offers member communities financial assistance for I/I reduction projects.

During FY27, at the request of member communities, MWRA will continue to provide technical and financial assistance on local sewer system projects. MWRA will also continue to work on projects in the MWRA Capital Improvement Program, as summarized in Attachment 3.

Strategy F: For those overflows that are unlikely to be eliminated in the short to mid-term (based on the evaluation from Strategy E, above), MWRA (for the MWRA-owned interceptor system) will consider developing interim measures to relocate or otherwise mitigate the impact of existing overflows on human and natural resources. The priority ranking (from Strategy D, above) will be utilized in development of interim mitigation measures. This strategy has an ongoing schedule that should be initiated in the short-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 5.3 Strategy C-3)

Work by MWRA under this Strategy is ongoing.

As previously stated, MWRA does not have SSOs related to dry weather sewer system capacity issues. MWRA also does not have SSOs related to wet weather sewer capacity issues for rainfall events at or below the MassDEP recommended standard design storm for inflow having a one-year recurrence interval and a duration of six hours (see MassDEP's Guidelines for Performing I/I Analyses and Sewer System Evaluation Surveys – Revised May 2017). The one-year, six-hour storm produces approximately 1.72 inches of rainfall in the Boston area.

During FY26, MWRA continued its ongoing priority program to clean and inspect inverted siphons in the MWRA-owned collection system. This program is intended to minimize potential SSOs upstream of siphons and reduce the risk of hydraulic limitations and/or blockage from debris buildup in siphon barrels. The cleaning and inspection program will continue in FY26. Please see Attachment 3 for more specific details.

During extreme storm events that exceed the MassDEP recommended standard design storm for inflow, I/I entering the upstream community-owned collection systems may cause an occasional SSO in the MWRA regional interceptor system. Continued coordination with member communities to reduce I/I from local collection systems will help to minimize SSOs that may occur during extreme storm events.

In June 2024, the MWRA Board of Directors approved two additional phases of the I/I Local Financial Assistance Program. Phase 15 was added in FY25 as an additional $100 million 10-year interest-free loan-only phase to be utilized by communities if their grant/loan funds have all been distributed (prior to the initiation of the next grant/loan funding phase). Phase 16 was added as $125 million in 75% grants and in 25% interest-free 10 year loans), and became available in FY26. With the addition of Phase 16, the program total has been increased to $1.086 billion. Through FY26, $633 million in grants and interest-free loans has been distributed to 43 member sewer communities to fund 723 local projects (see details in Attachment 4).

Strategy G: MWRA will assist DEP, member communities, and other regional stakeholders to inform local plumbing inspectors of the regional priority of eliminating sewer system backups. Plumbing inspectors will be requested to work more closely with local DPW staff to identify sewer system backup problem areas and locations where backflow prevention devices may be required. MWRA expects to meet this strategy by distributing a letter to the plumbing inspector in each member community that discusses sewer backups, potential public health impacts, backflow prevention, and coordination with the local DPW to identify problem areas. This strategy will be completed in the short-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 4.2 Strategy B-4)

Work by MWRA under this Strategy is complete as noted below.

On September 26, 2005, MWRA distributed an informational package on Sewer Backups and Sanitary Sewer Overflows to all service area community plumbing inspectors, Health Departments (Boards of Health), DPW Directors, Engineering Departments, and collection system operators. The package included information from fourteen separate sources and provided many web links for additional information. On September 29, 2005, MWRA sent a copy of the informational package to EPA, MassDEP, all MWRA water-only member communities, and local watershed associations. Currently this type of information is widely available via the internet.

Specific information on SSOs and backups into homes is provided on the MWRA web site at: https://www.mwra.com/your-sewer-system/sanitary-sewer-overflows-ssos**. This site includes information on what an SSO is, public health impacts, how SSOs can be prevented, and what MWRA does when an SSO occurs. Links on the site include:**

- **DEP's Home Care Guide on Flooding and Sewage Backups;**
- **Cleanup Procedures After a Sewer Backup, from the Boston Water and Sewer Commission; and,**
- **FEMA and Red Cross Guide on Flooded Property Hazards and Repair.**

Goal 3 under MWRA's Regional I/I Reduction Plan is:

> *MWRA will work cooperatively with member communities, DEP, and EPA to reduce I/I in the regional collection system with emphasis on the following: (1) inflow reduction in areas tributary to sewer backups and SSOs, (2) private source inflow reduction, (3) infiltration that may impact groundwater or surface water resources, and (4) excessive infiltration as defined in DEP regulations or guidance documents.*

Strategy A: MWRA will continue to analyze available MWRA wastewater metering data to estimate community infiltration and inflow rates. MWRA will provide this information along with technical assistance to help interpret the information to member communities. This strategy has an ongoing schedule that has been initiated. (Cross-reference this strategy to the I/I Task Force Report recommendations 6.1 Strategy A-1 and 7.1 Strategy A-1).

Work by MWRA under this Strategy is ongoing.

MWRA's first Wastewater Meter Replacement project was completed in FY06. The system was used to monitor wastewater flow at key locations within the regional collection system before and during wet weather events. Interested communities are notified when sewer system depths reach critical levels.

The second MWRA Wastewater Meter Replacement project was completed in March 2023. The metering system upgrade project was completed at a design cost of $3.2 million and an installation cost of $3.6 million. An additional $9.1 million for future meter equipment asset protection is included within the MWRA CIP after FY28.

During FY26, MWRA continued to estimate community infiltration and inflow rates on a bimonthly basis. CY25 community wastewater flow data is included as Attachment 6. These flow data tables are available to all users on MWRA's website (https://www.mwra.com/our-environment/water-quality-reports/regulatory-reports-0) Community wastewater flow rate basis data is distributed to member communities throughout the year on a bimonthly basis.

During FY27, MWRA will continue to estimate community infiltration and inflow rates and make this information available to MWRA member communities. MWRA will provide the information to EPA and MassDEP as part of the annual summary report on actions taken to reduce I/I (submitted annually by September 1 per the Deer Island Treatment Plant NPDES Permit).

Strategy B: MWRA, in cooperation with member communities, will evaluate the feasibility of developing and operating an expanded emergency notification system (ENS). Currently, the MWRA remotely monitors wastewater flow at key locations within the regional collection system before and during wet weather events. Interested communities are notified when sewer system depths reach critical levels. The Authority and member communities use this information to forecast problem areas, predict potential sewer system overflows and deploy work crews. The MWRA's wastewater metering system will be upgraded over the next few years. This upgrade may impact the ENS. MWRA is also investigating, over the next three to five years, the benefits of adding SCADA-type meters at some key locations in the collection system. After completion of the two ongoing projects, MWRA will evaluate whether an ENS system can be used efficiently to provide information at the local level. This strategy will be completed in the long-term or more extended time frame subject to the schedule of the ongoing projects noted above. (Cross-reference this strategy to the I/I Task Force Report recommendation 5.4 Strategy D-1)

Work by MWRA under this Strategy is complete as noted below.

MWRA's first Wastewater Meter Replacement project was completed in FY06. The system was used to monitor wastewater flow at key locations within the regional collection system before and during wet weather events. Interested communities are notified when sewer system depths reach critical levels.

The second MWRA Wastewater Meter Replacement project was completed March 2023. The metering system upgrade project was completed at a design cost of $3.2 million and an installation cost of $3.6 million. Project work included a complete review of metering equipment and software technologies, review of MWRA's community metering methodologies and subsequent design and construction of upgrades. An additional $9.1 million for future meter equipment asset protection is included within the MWRA CIP after FY28.

Strategy C: MWRA will provide technical assistance to member communities to establish written infiltration and inflow identification and removal programs as outlined in the I/I Task Force Report. This strategy has an ongoing schedule that will be initiated in the short to mid-term. (Cross-reference this strategy to the I/I Task Force Report recommendations 6.1 Strategy A-1 and 7.1 Strategy A-1)

Work by MWRA under this Strategy is ongoing.

During FY14 (as of April 25, 2014), MassDEP revised its Regulation 314 CMR 12.00 *Operation, Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Dischargers*. The revisions include a requirement for all public entities that own a sewer system to complete an I/I analysis by December 31, 2017 and submit it to MassDEP for review. The analysis also must include an assessment of the risk of SSOs. In FY18, MWRA submitted the required I/I analysis as a chapter in the MWRA Wastewater Collection System Operation & Maintenance Plan (December 2017).

During FY26, MWRA staff continued to meet with community representatives to provide technical assistance and discuss local programs. Communities are often interested in utilizing MWRA wastewater meter data and flow component analyses for local I/I and SSES studies. Communities also discuss what sewer system rehabilitation actions other communities are pursuing. MWRA's Advisory Board Operation Committee meetings, as well as Wastewater Advisory Committee (WAC) meetings, are used as platforms for member communities to share information on projects and lessons learned. All member sewer communities are actively participating in MWRA's I/I Local Financial Assistance Program (see Attachment 4). Community I/I reduction programs are generally being conducted by local engineering consultants under contract to the communities. These projects generally utilize standards established in MassDEP's May 2017 I/I Guidelines. This work will continue in FY27.

Strategy D: MWRA will provide technical assistance to member communities that seek to emphasize infiltration removal that may impact groundwater and surface water resource areas. MWRA will provide GIS mapping information to member communities that identifies water resource areas, provides an overlay of local and regional sewers, and delineates watersheds. The I/I Task Force Report recommends communities target areas where infiltration reduction will provide the most meaningful benefit for aquifer recharge, stream flow, wetlands and water levels in lakes and ponds. The Task Force also recommends communities coordinate their infiltration reduction efforts with appropriate EOEA Watershed Teams, local watershed groups and the local conservation commission. Distribution of MWRA mapping information is intended to assist member communities in fulfilling this I/I Task Force recommendation. This strategy has an ongoing schedule that will be initiated in the short to mid-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 7.1 Strategy A-5)

Work by MWRA under this Strategy is complete as noted below. Some ongoing work performed by MWRA that is associated with this Strategy is also noted. Additional community technical assistance is provided upon request as noted under Strategy C, above.

During FY05, MWRA completed a major upgrade to its electronic sewer database and GIS mapping system. Also during FY05, MWRA completed coordination with local communities to more

accurately map connection points of local sewers to the MWRA interceptor system and GPS located all wastewater meter sites. Significant GIS mapping upgrades were rolled-out in FY06. In July 2006, MWRA provided GIS maps with detailed water resource information overlaid with the local sewer system to each MWRA member sewer community. In addition, land use mapping was also distributed to the communities. The distribution of this GIS mapping information fulfilled MWRA's work under Strategy D.

Beginning in FY14 and continuing through FY26, MWRA updated prior (or developed new) GIS mapping information partnership agreements with most MWRA member water and sewer communities to share MWRA/community GIS mapping data. Under the partnership agreements, MWRA and member communities have signed nondisclosure agreements that detail security protocols necessary to safeguard water and sewer system data. MWRA continues to coordinate with member communities to add GIS partners and update existing data. This work will continue in FY27.

Strategy E: MWRA, in coordination with the MWRA Advisory Board, will continue to fund the I/I Local Financial Assistance Program to provide grants and loans to member sewer communities to fund local I/I reduction projects. Through September 2002, MWRA has authorized a total budget of $140.75 million to fund this program. Financial assistance is provided through 45 percent grants and 55 percent interest-free loans for eligible projects. The MWRA Board of Directors has approved the program through FY2010. The I/I Local Financial Assistance Program is fully detailed in the "Program Guidelines" document available from the MWRA Community Support Program. This strategy has an ongoing schedule that has been initiated. (Cross-reference this strategy to the I/I Task Force Report recommendation 10.2 Strategy B-1)

Work by MWRA under this Strategy is ongoing.

In June 2004, the MWRA Board of Directors approved an additional $40 million ($18 million in grants and $22 million in interest-free loans) to increase the total I/I Local Financial Assistance Program budget to $180.75 million and extended program distribution through FY13. The additional $40 million (Phase 5) in financial assistance funds became available to the communities in FY05.

In June 2006, the MWRA Board of Directors approved an additional $40 million ($18 million in grants and $22 million in interest-free loans) to increase the total I/I Local Financial Assistance Program budget to $220.75 million and extended program distributions through FY15. The additional $40 million (Phase 6) in financial assistance funds became available to the communities in FY07.

In June 2009, the MWRA Board of Directors approved an additional $40 million ($18 million in grants and $22 million in interest-free loans) to increase the total I/I Local Financial Assistance Program budget to $260.75 million and extended program distributions through FY18. The additional $40 million (Phase 7) in financial assistance funds became available to the communities in FY10.

In June 2012, the MWRA Board of Directors approved an additional $40 million ($18 million in grants and $22 million in interest-free loans) to increase the total I/I Local Financial Assistance Program budget to $300.75 million and extended program distributions through FY21. The additional $40 million (Phase 8) in financial assistance funds became available to the communities in FY13.

In June 2014, the MWRA Board of Directors approved an additional $160 million ($120 million in 75% grants and $40 million in 25% interest-free 10-year loans) to increase the total I/I Local Financial Assistance Program budget to $460.75 million and extended program distributions

through FY25. The additional $160 million ($80 million each for Phases 9 and 10) in financial assistance funds became available to the communities in FY15. Note that MWRA enhanced Phase 9 and 10 of its grant/loan community funding program by increasing the grant portion from 45% to 75%. Also, the loan portion repayment period was extended from 5 to 10 years.

In June 2018, the MWRA Board of Directors approved an additional $200 million ($150 million in 75% grants and $50 million in 25% interest-free 10-year loans). The additional $200 million ($100 million each for Phases 11 and 12) in financial assistance funds became available to the communities in FY19. Also in June 2018, the MWRA Board of Directors approved an additional $100 million 10-year interest-free loan only Phase 13 to be used by communities if their grant/loan funds have all been distributed (prior to the initiation of the next grant/loan funding phase). These approved funding phases increased the total I/I Local Financial Assistance Program budget to $760.75 million and extended program distributions through FY30.

In September 2022, the MWRA Board of Directors approved an additional $100 million ($75 million in 75% grants and $25 million in 25% interest-free 10-year loans). This funding phase (Phase 14) increased the total I/I Local Financial Assistance Program budget to $860.75 million. The additional $100 million in financial assistance funds became available to the communities on September 30, 2022.

In June 2024, the MWRA Board of Directors approved two additional phases of the I/I Local Financial Assistance Program to be added in the coming years. Phase 15 was added as an additional $100 million 10-year interest-free loan only phase to be utilized by communities if their grant/loan funds have all been distributed (prior to the initiation of the next grant/loan funding phase), and became available in FY25. Phase 16 was added as $125 million in 75% grants and in 25% interest-free 10 year loans), and became available in FY26. With the addition of Phase 16, the program total has been increased to $1.086 billion.

During FY26, MWRA continued to provide grants and loans to member sewer communities to fund local I/I reduction and sewer system rehabilitation projects. A total of $25.1 million was distributed during FY26. Since program inception in May 1993, $633 million has been distributed to fund 723 local projects. The Program Guidelines, Financial Assistance Application and summary of available funds by community are posted on MWRA's website at https://www.mwra.com/projects-programs/major-programs/local-ii-community-financial-assistance**. A status update on MWRA's I/I Local Financial Assistance Program is included as Attachment 4.**

During FY27, MWRA will continue to distribute funds and assist communities in the management of projects under the I/I Local Financial Assistance Program. MWRA's remaining financial assistance funds are authorized for distribution through FY34.

Strategy F: MWRA, in coordination with the MWRA Advisory Board, will continue to provide emergency assistance to member communities for sewer services on local collection systems that are routinely performed by MWRA staff for the MWRA-owned interceptor system. Examples of past community assistance provided by MWRA staff include: emergency response assistance, bypass pumping, internal TV inspection, sewer cleaning, flow metering, engineering technical assistance, etc. This strategy has an ongoing schedule that has been initiated. (Cross-reference this strategy to the I/I Task Force Report recommendations 9.6 Strategy F-2 and 10.2 Strategy B-2)

Work by MWRA under this Strategy is ongoing.

During FY26, MWRA continued to provide emergency assistance to member communities, as requested. These efforts typically included internal CCTV inspection of local sewers and associated

sewer cleaning, as well as other corrective maintenance/emergency assistance. During FY27, MWRA will continue to provide emergency assistance to member communities.

Goal 4 under MWRA's Regional I/I Reduction Plan is:

> *MWRA will work cooperatively with member communities, DEP, and EPA to expand existing efforts to educate and involve the public regarding regional sewer backup, SSO, and I/I reduction issues.*

Strategy A: MWRA will act as a "clearinghouse" to collect and distribute information on I/I and SSO issues. Other groups, agencies, associations, community representatives, and local citizens wishing to disseminate information on I/I and SSO issues within the region can provide a copy to MWRA that will be copied and distributed. MWRA staff will maintain a database of contacts with Federal, State and community officials, as well as, local associations and individuals that wish to stay informed on I/I and SSO issues. Summary mailings will be made periodically. MWRA, in coordination with the MWRA Advisory Board, will also act as a clearinghouse to inform regional stakeholders about the progress of efforts to increase state and federal funding for I/I reduction and SSO projects. Regional stakeholders will be advised on the most appropriate time to provide input and lobbying efforts. This strategy has an ongoing schedule that will be initiated in the short-term. (Cross-reference this strategy to the I/I Task Force Report recommendations 8.1 Strategy A-1, 10.4 Strategy C-5, and 10.4 Strategy D-2)

Work by MWRA under this Strategy is ongoing including information on both the wastewater and water systems.

During FY26, MWRA distributed technical information to member community Public Works Directors, City/Town Engineers, local wastewater/water system operators, community consultants and local watershed groups, including:

- **MWRA continued to estimate community infiltration and inflow rates on a bimonthly basis. These flow data tables are available to all users on MWRA's web site (www.mwra.com). CY25 community wastewater flow data is included as Attachment 6. Community wastewater flow rate basis data is distributed to member communities throughout the year on a bimonthly basis.**

- **March 2026: Annual community I/I surveys were distributed to member sewer communities to develop a projected three (3) year spending plan for the I/I Local Financial Assistance Program.**

- **March 2026: MWRA's new brochure, Every Drop Counts: Best Water Practices, that addresses multiple issues, including water conservation, lead service lines, fats oil and grease, and I/I, was distributed to all MWRA customer communities.**

- **April 15, 2026: MWRA staff provided an update presentation on the Local Water System Assistance Program and the Lead Service Line Replacement Program to the MWRA Board of Directors. All Staff Summaries to the MWRA Board of Directors are posted on MWRA web site at www.mwra.com.**

- **June 2026: MWRA Community Support Program staff presented an overview of available financial assistance programs to the MWRA Advisory Board.**

- **June 2026: Annual community I/I questionnaires were distributed to member sewer communities to acquire information on FY26 local I/I reduction programs for development of MWRA's Annual I/I Reduction Report (see Attachment 5).**

During FY27, MWRA will continue to distribute information on I/I and SSO issues, as appropriate.

Strategy B: MWRA will develop and distribute a summary of previous information/technology distributions regarding I/I reduction and SSOs. The summary will be organized by topic and distributed to all regional stakeholders in MWRA's database of contacts. This summary can be used as a tool to help reference previously distributed information. This strategy will be completed in the short-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 8.1 Strategy A-2)

Work by MWRA under this Strategy is complete as noted below.

On August 8, 2007, MWRA distributed a Technical Transfer Summary package that included lists of previously distributed information under five separate topic headings: (1) Reports, Handbooks, and Guidelines; (2) Sewer Back-ups, SSOs, and Flooding; (3) Public Source I/I Reduction; (4) Private Source I/I Reduction; and (5) Brochures and Bill Stuffers. Additional information/technology distributions will continue under Strategy A, above.

Strategy C: MWRA, jointly with DEP (and possibly other regional organizations), will organize periodic demonstration projects and/or workshops to bring together regulators, community representatives, vendors, environmental groups, consultants, contractors, etc. Workshops may cover topics such as: new or revised regulations, I/I reduction technologies, updates/progress on Task Force Report recommendations, etc. MWRA and DEP conducted a joint workshop on private source inflow reduction during November 2001. Lessons learned from this workshop will help shape future efforts under this strategy. Completion of this strategy requires a significant resource commitment by DEP. This strategy has an ongoing schedule that will be initiated in the short-term. (Cross-reference this strategy to the I/I Task Force Report recommendations 8.1 Strategy A-3 and 8.2 Strategy B-6)

Work by MWRA under this Strategy is ongoing. Following-up on the 2001 joint private inflow reduction workshop, additional joint workshops were held in 2002 and 2004.

On April 27, 2011, representatives from MassDEP, EPA, and MWRA met to discuss I/I reduction in the region. The potential for future workshops was noted, but no specific plans have been developed for organizing additional joint workshops.

During FY14 (as of April 25, 2014), MassDEP revised its Regulation 314 CMR 12.00 *Operation, Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Dischargers*. The revisions included a requirement for all public entities that own a sewer system to complete an I/I analysis by December 31, 2017 and submit it to MassDEP for review. The analysis also must include an assessment of the risk of SSOs. In FY18, MWRA submitted the required I/I analysis as a chapter in the MWRA Wastewater Collection System Operation & Maintenance Plan (December 2017).

During FY17, MassDEP revised its *Guidelines for Performing Infiltration/Inflow Analyses and Sewer System Evaluation Surveys*.

On October 6, 2017, both MassDEP and MWRA staff provided an update presentation and had discussions with the MWRA Wastewater Advisory Committee.

On November 29, 2017, staff from USEPA, MassDEP, and MWRA met to discuss mutual areas of interest regarding wastewater metering and I/I reduction programs.

On an annual basis, MWRA staff provide an update presentation to the MWRA Board of Directors on the I/I Local Financial Assistance Program, the Local Water System Assistance Program and the Lead Service Line Replacement Program.

Periodically, MWRA staff provide update presentations to the MWRA Advisory Board and member community representatives, as well as the Wastewater Advisory Committee and Water Supply Citizens Advisory Committee, on a variety of related topics including: I/I Local Financial Assistance Program, Local Water System Assistance Program, Lead Service Line Replacement Loan Program, water and wastewater metering, water and wastewater flow data, rate assessment methodologies, water and wastewater permitting and regulations, etc.

During FY25 MWRA developed and presented a workshop on Private Inflow Removal during the May 16, 2025 MWRA Advisory Board meeting. Over 100 attendees from 35 communities, as well as MassDEP and MWRA staff participated in the workshop.

During FY27, MWRA will continue to work cooperatively with MassDEP on this strategy.

Strategy D: MWRA will develop a summary of available public education material such as local/regional billing inserts, Water Environment Federation (WEF) brochures, "How-To" pamphlets, etc. The summary will provide information on where to obtain the material. A listing of available public education materials will be posted on the MWRA Internet site. MWRA will also make copies of public education material available to communities and local associations. MWRA will pilot this strategy by distributing to member communities sample copies of the "Fat-Free Sewers" brochure developed cooperatively by the Water Environment Federation (WEF) and EPA. MWRA will recommend use of the brochures for public education. This strategy has an ongoing schedule that will be initiated in the short-term. (Cross-reference this strategy to the I/I Task Force Report recommendations 8.2 Strategy B-1 and 8.2 Strategy B-4)

Work by MWRA under this Strategy is ongoing.

MWRA distributed the Fat-Free Sewers brochure to wastewater system operators in July 2003. In conjunction with the Technical Transfer Summary package distributed on August 8, 2007 (see Strategy B, above), MWRA included a separate topic heading for "Brochures and Bill Stuffers" that can be used by local communities as educational materials. Links to educational materials are provided on www.mwra.com.

In FY25, the MWRA School Education Program distributed "It's a Toilet, Not a Trash Can" brochures and "What To Flush – the 3 Ps Only (Pee, Poop, Paper)" window clings to schools and community groups. The brochure can be downloaded from the School Program page on www.mwra.com and the window clings can be ordered. The MWRA School Program developed a new classroom activity involving reading and designing wet wipe labels to establish which materials are dispersible vs. flushable. The activity has been well received by both teachers and students.

In FY26, MWRA printed and distributed a new comprehensive brochure called Every Drop Counts: Best Water Practices that covers topics including water conservation, lead service lines, sump pumps and private inflow, and fats oil and grease in the sewers. The new brochure was distributed to all MWRA customer communities in FY26.

Strategy E: Depending on the outcome of the summary of available information being developed under Strategy D, MWRA (jointly with DEP and possibly other regional organizations) may develop informational materials that will educate the public on I/I and SSO issues. This effort may include "how-to" pamphlets that detail a step-by-step process for disconnecting private inflow sources or similar information. The development of new materials under this strategy will be targeted to fill gaps that are not covered by existing/available public education material. This strategy will be completed in the mid-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 8.2 Strategy B-2)

Work by MWRA under this Strategy is complete as noted below.

As part of the Technical Transfer Summary package distributed on August 8, 2007 (see Strategy B, above), MWRA included a separate topic heading specifically for "Brochures and Bill Stuffers" that can be used by local communities as educational materials. There are sufficient example brochures available so that no additional work is needed under this strategy. Communities actively involved with private inflow removal programs have generally been using available sample brochures and other public education materials to develop public education information related to their specific project. Information already available via local engineering consultants is also utilized.

Strategy F: Upon request from member communities, MWRA will assist member communities in providing a link from the local DPW or community internet site to the MWRA internet site. The possibility of a link or reference to other regional bodies that are involved in sewer system issues (such as DEP, EPA, New England Water Environment Association, New England Interstate Water Pollution Control Commission, watershed associations, etc.) will also be investigated. This strategy will be completed in the mid-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 8.2 Strategy B-3)

Work by MWRA under this Strategy is complete as noted below.

Local communities, state agencies, regional associations, etc. all maintain their own web pages with numerous information links. MWRA's website contains links to the communities' websites and links to other organizations. Based on current broad use of the web, additional work under this strategy is not needed. MWRA continues to revise and upgrade its website www.mwra.com and the MWRA Community Support Program page: https://www.mwra.com/projects-programs/major-programs/local-ii-community-financial-assistance .

Strategy G: MWRA will integrate information on I/I and SSO issues into existing MWRA school education materials. MWRA's School Education staff will identify what types of materials are appropriate for their programs. This strategy has an ongoing schedule that will be initiated in the mid-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 8.3 Strategy C-1)

Work by MWRA under this Strategy is ongoing. The focus of MWRA's School Education Program is to provide a general understanding of water and wastewater transport and treatment systems with emphasis on water conservation and environmental awareness issues. Educational materials are designed for students spanning elementary to high school levels.

Strategy H: Upon request from DEP, MWRA will provide technical assistance to DEP to develop and issue DEP press releases prior to and during extreme wet weather events to notify the public of possible sewer system backups and overflow problems. The I/I Task Force Report recommends DEP develop a standardized format that includes a request that system users minimize non-essential water consumption activities and includes a standardized high sewer flow warning. Completion of this strategy is dependent on DEP actions. This strategy has an ongoing schedule that should be initiated in the short to mid-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 5.4 Strategy D-2)

Work by MWRA under this Strategy is ongoing. In FY26, MWRA continued its existing sewage notification program which includes notifications of SSOs (in compliance with the new sewage notification regulation 314 CMR 16.00). Beginning July 6, 2022, MWRA also enters notifications into the MassDEP database within the prescribed timeframe after the start of each discharge, so information can be made available in MassDEP's portal. MWRA believes the database and public portal developed by MassDEP to comply with the Sewage Notification Regulation 314 CMR 16.00 meets the intent of this strategy.

Strategy I: Upon request from member communities, MWRA will provide technical assistance to communities to provide residents with information on I/I reduction, SSOs and backups using local cable stations or other media outlets. This strategy has an ongoing schedule that will be initiated in the mid to long-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 8.2 Strategy B-7)

Work by MWRA under this Strategy is ongoing. Starting July 6, 2022, MWRA sends notifications to media outlets (as required by 314 CMR 16.00). Along with Cambridge and Somerville, MWRA has held a number of meetings regarding CSO control in the Charles River and Mystic River/Alewife Brook watersheds that included discussion of flooding, system capacity and I/I reduction requirements. MWRA continues outreach and education efforts with local Boards of Health as needed.

Goal 5 under MWRA's Regional I/I Reduction Plan is:

> *MWRA will provide technical assistance and work cooperatively with member communities, DEP, and EPA regarding guidance on local operation and maintenance and capital improvement programs intended to provide a reasonable level of sewer service to local sewer users/ratepayers.*

Strategy A: MWRA will provide all member communities a copy of the I/I Task Force Report (which includes recommendations for sewer system operation and maintenance). MWRA will maintain a supply of I/I Task Force Reports and will provide additional copies to MWRA member communities and regional stakeholders, as requested. This strategy has an ongoing schedule that has been initiated.

Work by MWRA under this Strategy is complete as noted below.

MWRA provided all member communities and all interested parties copies of the I/I Task Force Report in April 2001, shortly after the Report was completed. MWRA continues to maintain a supply of I/I Task Force Reports and provides additional copies to MWRA member communities and regional stakeholders, as requested. In July 2003, all member communities were provided a copy of the MWRA Regional I/I Reduction Plan. Both the I/I Task Force Report and MWRA Regional I/I Reduction plan are posted on MWRA's Community Support Program web page at: https://www.mwra.com/projects-programs/major-programs/local-ii-community-financial-assistance **.**

Strategy B: MWRA will request member communities provide a copy of their existing local Sewer Use Regulations to MWRA, will review those local Regulations that are submitted, and will make recommendations for improvements. MWRA may utilize a committee representing a cross-section of sewer system stakeholders to assist in accomplishing this strategy. This strategy will be completed in the mid-term. (Cross-reference this strategy to the I/I Task Force Report recommendation 9.1 Strategy A-2)

Work by MWRA under this Strategy is complete as noted below.

MWRA did not proceed with work under this strategy pending issuance of EPA's SSO Rule, including CMOM Regulations that were likely to impact local sewer use regulations. EPA's draft SSO Rule was not promulgated. During FY04, MassDEP distributed a new guideline document – *"Optimizing Operation, Maintenance and Rehabilitation of Sanitary Sewer Collection Systems"* dated August 2003. This manual was developed by New England Interstate Water Pollution Control Commission (NEIWPCC) under a grant from EPA. The Guideline Document was written by a committee consisting of NEIWPCC member state environmental agencies, EPA, and wastewater consultants. The manual is available at www.neiwpcc.org. Chapter 4 of the manual "Optimizing Legal Authority" includes sections on Sewer Use Ordinances; therefore, additional work by MWRA under this strategy is not necessary. Web links to information provided by MassDEP, USEPA, and NEIWPCC are posted on MWRA's Community Support Program web page at: https://www.mwra.com/projects-programs/major-programs/local-ii-community-financial-assistance .

Strategy C: MWRA will develop a Member Community Collection System Operation and Maintenance Manual Guidance Document and Overflow Response Plan. This guidance document will be provided to all member communities. This strategy will be completed in the short-term.

Work by MWRA under this Strategy is complete as noted below.

A Member Community Collection System Operation and Maintenance Manual Guidance Document and Overflow Response Plan was developed and submitted to EPA and MassDEP for review in June 2001. This guidance document was made available to member communities. During FY04, MassDEP distributed a new guideline document – "*Optimizing Operation, Maintenance and Rehabilitation of Sanitary Sewer Collection Systems*" dated August 2003. This manual was developed by New England Interstate Water Pollution Control Commission (NEIWPCC) under a grant from EPA. It was written by a committee consisting of NEIWPCC member state environmental agencies, EPA, and wastewater consultants. The manual is available at www.neiwpcc.org. MWRA provided its collection system O&M manual and the community collection system guidance document to the NEIWPCC committee for review. With the publication of the NEIWPCC manual, further efforts on the Member Community Collection System Operation and Maintenance Manual Guidance Document are not required.

During FY14, MassDEP revised its Regulation 314 CMR 12.00 *Operation, Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Dischargers*.

During FY17, MassDEP revised its *Guidelines for Performing Infiltration/Inflow Analyses and Sewer System Evaluation Surveys*.

ATTACHMENT 3
TO
MWRA ANNUAL I/I REDUCTION REPORT FOR FY26
Reporting Period – July 2025 Through June 2026

MWRA ACTIONS TAKEN TO REDUCE I/I DURING FY26

During FY26, the MWRA Field Operations Department's Technical Inspection program staff have internally inspected approximately 27 miles of Authority-owned interceptors, internally inspected 27 inverted siphon barrels with sonar inspection equipment, and physically inspected 645 sewer manholes and other structures (diversion chambers, siphon headhouses, tide gates, etc.). Throughout the internal inspection process, problems such as physical defects, manhole frame and cover defects, infiltration/inflow sources, sediment, grease deposits, etc. are noted and stored in MWRA's electronic maintenance (MAXIMO) database. Maintenance work is then scheduled based on the identified problem.

During FY26, MWRA's maintenance work included hydraulic/mechanical cleaning of over 37 miles of Authority-owned sewers, cleaning of 57 siphon barrels and replacement of 42 sewer manhole frames and covers. In addition, 45 sewer manholes were rehabilitated via cement mortar lining under MWRA's annual sewer manhole rehabilitation contract (MWRA's FY27 annual sewer manhole rehabilitation contract is scheduled to rehabilitate 50 sewer manholes). Potential structural problems and infiltration sources identified during the inspection process are referred to engineering staff for follow-up review and analysis of cost-effective repairs.

MWRA is undertaking a number of significant capital projects to rehabilitate portions of Authority-owned interceptors and provide additional hydraulic capacity. During FY26, MWRA continued rehabilitation of sewer interceptors under the Interceptor Renewal/Asset Protection Program. Evaluation and design of interceptor rehabilitation began in FY09. The program includes a series of twelve interceptor renewal projects to be phased over multiple years at a cost of over $150 million. Each of these projects will provide structural repairs for existing pipelines and reduce I/I entering the MWRA interceptor system. MWRA's Interceptor Renewal/Asset Protection Projects #1 through #7 for rehabilitation construction of a variety of Sewer Sections are programmed in the Final FY27 CIP at a cost of nearly $97 million. Interceptor Renewal/Asset Protection Projects #1 through #7 include:

1. Interceptor Renewal/Asset Protection Project #1: Rehabilitation design and construction of 12,240 linear feet of the Reading Extension Sewer Sections 75, 74 and 73 primarily in Stoneham, with short reaches in Wakefield and Woburn. Also, included was rehabilitation of 2,280 linear feet of Metropolitan Sewer Section 46 in Stoneham, as well as, rehabilitation of 62 sewer manholes and structures along the pipeline route. Construction began in FY17 and was completed during FY19. Total design, construction and construction services costs were approximately $3.1 million.

2. Interceptor Renewal/Asset Protection Project #2 (Now included with Belle Island Sandcatcher/Headhouses and Interceptor Renewal Project #4 under North Collection Sewer System Rehabilitation): Rehabilitation design and construction of Sections 4, 5, 6 and 186 on the North Metropolitan Trunk Sewer in Winthrop (just upstream of the Deer Island Treatment Plant). Work will include rehabilitation of approximately 3,800 linear feet of 102 to 104-inch brick sewer. Portions of this sewer were previously rehabilitated using a shotcrete process in the 1990s. A preliminary design study for the North Metropolitan Trunk Sewer was completed

in April 2018. The design contract phase under Contract 7513 is scheduled to begin in mid FY27 as CP2 with a design/construction budget of $30.5 million. Interceptor Renewal Projects # 2 and #4 combined as North Collection System Rehabilitation with a total design/construction budget of $47.9 million.

3. Interceptor Renewal/Asset Protection Project #3: Rehabilitation design and construction of Dorchester Interceptor Sewer Sections 240, 241 and 242. Design for this project began in FY18. Construction/construction services phases were completed December 2021. The overall design, construction and construction services costs were approximately $5.3 million.

4. Interceptor Renewal/Asset Protection Project #4 (Now included with DeLauri Pump Station Force Main Repair and with Interceptor Renewal Project #2 under North Collection Sewer System Rehabilitation): Rehabilitation design and construction of Cambridge Branch Sewer Sections 23, 24, 26 and 27 in Charlestown, Everett, Somerville and Cambridge. A preliminary design study for Cambridge Branch Sewer Sections 23 - 24 and 26 - 27 was completed in FY18. The design contract phase is scheduled to begin in mid FY27 as CP1 with a design/construction budget of $27.5 million. Interceptor Renewal Projects # 2 and #4 combined as North Collection System Rehabilitation with a total design/construction budget of $47.9 million.

5. Interceptor Renewal/Asset Protection Project #5: Rehabilitation design and construction of portions of New Neponset Valley Sewer Sections 607, 609 and 610 in Milton. The design contract phase is scheduled to begin in FY28 with a design/ construction budget of $18.2 million.

6. Interceptor Renewal/Asset Protection Project #6: Rehabilitation design and construction of portions of Sections 12, 14, 15 and 62 in Chelsea. The design contract phase is scheduled to begin in FY33 with a design/construction budget of $16 million.

7. Interceptor Renewal/Asset Protection Project #7: Rehabilitation design and construction of portions of Sections 41, 42, 49, 54 and 65 in Malden and Melrose. Design Notice To Proceed issued August 2020 with a design cost of $2.6 million. Construction budget estimated at $14.8 million. Anticipated Construction Notice To Proceed date is July 2026.

ATTACHMENT 4
TO
MWRA ANNUAL I/I REDUCTION REPORT FOR FY26
Reporting Period: July 2025 Through June 2026

STATUS UPDATE ON MWRA's I/I LOCAL FINANCIAL ASSISTANCE PROGRAM

Financial Assistance Update

All 43-member sewer communities are participating in MWRA's $1.086 billion Infiltration/Inflow (I/I) Local Financial Assistance (grant/loan) Program. The program began in May 1993 and, through FY26, $633 million has been distributed to fund 723 local I/I reduction and sewer system rehabilitation projects. The current program budget of $1.086 billion includes the addition of $125 million (Phase 16) approved by the MWRA Board of Directors for distribution beginning on July 1, 2025. Consistent with previous grant/loan phases, the grant component remains as 75% of the eligible project cost for Phase 16. The table on page 2 provides a summary of funding allocations, distributions, and funds remaining for each MWRA sewer community. Distribution of grant and loan financial assistance to member communities has been approved through FY34. The table on page 3 provides a summary of funding distributions by fiscal quarter since Program inception.

Program Background

MWRA's I/I Local Financial Assistance Program was initiated to provide funding to member sewer communities to perform I/I reduction and sewer system rehabilitation projects within their locally-owned collection systems. Following recommendations from the MWRA Advisory Board, the MWRA Board of Directors has approved a total program budget of $1.086 billion. The funds have been allocated among the 43 MWRA sewer communities based on respective share of MWRA's wholesale sewer charge. Financial assistance for Phases 1 and 2 (total of $63.75 million) was distributed for approved projects as a 25 percent grant and a 75 percent interest-free loan. The grant/loan split was revised for distribution of the Phase 3 through 8 funds (total of $237 million) to a 45 percent grant and a 55 percent interest-free loan. The interest-free loan portion for Program Phases 1 through 8 has been repaid to MWRA over a five-year period beginning one year after the date the funds are distributed.

The grant/loan split was again enhanced for distribution of Phases 9 through 12 funds (total of $360 million) to a 75 percent grant and a 25 percent interest-free loan. The interest-free loan repayment period was extended to ten years from the previous five (again beginning one year after the date the funds are distributed). Phases 13 and 15 are $100 million loan-only phases also with a ten-year repayment period. The loan only phases are to be used by communities if their grant/loan funds have all been distributed (prior to the initiation of the next grant/loan funding phase). The grant/loan split for distribution of Program Phase 14 ($100 million) and 16 ($125 million) funds remains at a 75 percent grant and a 25 percent interest-free loan. The interest-free loan repayment period also remains at ten years.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
COMMUNITY FUNDING SUMMARY THROUGH JUNE 2026

Community	Total Allocations (Phases 1 - 16)	Total Distributions (Phases 1 - 16)	Percent Distributed	Funds Remaining
Arlington	$19,408,000	$13,713,000	71%	$5,695,000
Ashland	$5,579,500	$4,311,860	77%	$1,267,640
Bedford	$7,955,600	$3,109,158	39%	$4,846,442
Belmont	$11,690,100	$5,135,100	44%	$6,555,000
Boston	$309,135,200	$149,971,003	49%	$159,164,197
Braintree	$20,901,000	$14,429,000	69%	$6,472,000
Brookline	$29,698,200	$24,367,200	82%	$5,331,000
Burlington	$12,215,800	$9,954,800	81%	$2,261,000
Cambridge	$57,507,100	$28,830,100	50%	$28,677,000
Canton	$9,701,900	$5,522,460	57%	$4,179,440
Chelsea	$17,586,100	$13,510,100	77%	$4,076,000
Dedham	$13,051,000	$10,692,000	82%	$2,359,000
Everett	$19,511,500	$11,611,500	60%	$7,900,000
Framingham	$29,111,000	$15,671,000	54%	$13,440,000
Hingham	$4,105,500	$2,812,500	69%	$1,293,000
Holbrook	$4,016,600	$1,349,600	34%	$2,667,000
Lexington	$17,476,300	$14,258,300	82%	$3,218,000
Malden	$29,486,900	$9,802,870	33%	$19,684,030
Medford	$27,868,600	$7,961,600	29%	$19,907,000
Melrose	$14,357,300	$10,106,300	70%	$4,251,000
Milton	$12,904,500	$10,164,500	79%	$2,740,000
Natick	$13,248,600	$6,832,600	52%	$6,416,000
Needham	$14,302,600	$7,497,600	52%	$6,805,000
Newton	$49,302,400	$43,680,400	89%	$5,622,000
Norwood	$17,124,400	$8,449,400	49%	$8,675,000
Quincy	$46,608,000	$32,325,000	69%	$14,283,000
Randolph	$14,423,800	$4,971,058	34%	$9,452,742
Reading	$10,964,100	$7,749,100	71%	$3,215,000
Revere	$24,325,900	$6,802,900	28%	$17,523,000
Somerville	$36,621,800	$18,995,800	52%	$17,626,000
Stoneham	$11,422,900	$8,919,900	78%	$2,503,000
Stoughton	$11,353,900	$10,284,900	91%	$1,069,000
Wakefield	$13,953,900	$9,836,900	70%	$4,117,000
Walpole	$8,876,000	$6,130,000	69%	$2,746,000
Waltham	$31,278,400	$19,214,560	61%	$12,063,840
Watertown	$14,457,800	$11,857,800	82%	$2,600,000
Wellesley	$13,282,700	$6,889,700	52%	$6,393,000
Westwood	$6,268,300	$3,591,300	57%	$2,677,000
Weymouth	$27,667,900	$16,985,900	61%	$10,682,000
Wilmington	$6,184,000	$2,462,000	40%	$3,722,000
Winchester	$9,822,000	$8,910,000	91%	$912,000
Winthrop	$7,963,400	$5,083,400	64%	$2,880,000
Woburn	$23,029,500	$18,505,500	80%	$4,524,000
Totals	$1,085,750,000	$633,259,669	58%	$452,490,331

MWRA I/I Local Financial Assistance Program - Fiscal Year Breakdown

FY	Distribution Cycle	Distribution Amount	Distribution Cycle	Distribution Amount	Distribution Cycle	Distribution Amount	Distribution Cycle	Distribution Amount	FY Total
FY93	Aug 1992	$0	Nov 1992	$0	Feb 1993	$0	May 1993	$2,714,883	$2,714,883
FY94	Aug 1993	$3,096,468	Nov 1993	$4,096,133	Feb 1994	$3,191,032	May 1994	$251,494	$10,635,127
FY95	Aug 1994	$354,126	Nov 1994	$976,700	Feb 1995	$1,894,030	May 1995	$6,489,891	$9,714,747
FY96	Aug 1995	$0	Nov 1995	$504,100	Feb 1996	$2,921,600	May 1996	$3,902,426	$7,328,126
FY97	Aug 1996	$1,682,061	Nov 1996	$1,581,266	Feb 1997	$395,100	May 1997	$3,530,758	$7,189,185
FY98	Aug 1997	$1,066,300	Nov 1997	$1,157,260	Feb 1998	$909,350	May 1998	$2,001,608	$5,134,518
FY99	Aug 1998	$1,521,100	Nov 1998	$2,464,263	Feb 1999	$1,481,700	May 1999	$5,758,077	$11,225,140
FY00	Aug 1999	$1,315,767	Nov 1999	$1,847,900	Feb 2000	$1,679,000	May 2000	$1,070,100	$5,912,767
FY01	Aug 2000	$1,148,400	Nov 2000	$388,000	Feb 2001	$1,640,931	May 2001	$804,800	$3,982,131
FY02	Aug 2001	$4,480,735	Nov 2001	$704,040	Feb 2002	$1,804,200	May 2002	$5,002,691	$11,991,666
FY03	Aug 2002	$1,962,600	Nov 2002	$4,461,768	Feb 2003	$7,955,752	May 2003	$1,836,600	$16,216,720
FY04	Aug 2003	$2,021,940	Nov 2003	$1,306,200	Feb 2004	$1,770,760	May 2004	$3,295,400	$8,394,300
FY05	Aug 2004	$2,756,659	Nov 2004	$6,013,436	Feb 2005	$4,054,060	May 2005	$2,636,700	$15,460,855
FY06	Aug 2005	$5,377,487	Nov 2005	$4,589,600	Feb 2006	$1,519,463	May 2006	$6,489,676	$17,976,226
FY07	Aug 2006	$0	Nov 2006	$4,947,414	Feb 2007	$8,789,300	May 2007	$8,121,023	$21,857,737
FY08	Aug 2007	$3,915,500	Nov 2007	$4,355,750	Feb 2008	$1,392,400	May 2008	$4,436,600	$14,100,250
FY09	Aug 2008	$4,196,399	Nov 2008	$352,000	Feb 2009	$1,990,300	May 2009	$4,872,400	$11,411,099
FY10	Aug 2009	$5,462,736	Nov 2009	$616,600	Feb 2010	$2,679,600	May 2010	$4,845,000	$13,603,936
FY11	Aug 2010	$723,700	Nov 2010	$3,183,250	Feb 2011	$4,123,100	May 2011	$4,258,900	$12,288,950
FY12	Aug 2011	$3,695,100	Nov 2011	$2,417,378	Feb 2012	$848,300	May 2012	$7,010,324	$13,971,102
FY13	Aug 2012	$21,299,965	Nov 2012	$1,004,610	Feb 2013	$2,460,000	May 2013	$2,675,000	$27,439,575
FY14	Aug 2013	$7,550,310	Nov 2013	$0	Feb 2014	$2,929,700	May 2014	$2,271,852	$12,751,862
FY15	Aug 2014	$4,053,000	Nov 2014	$7,647,400	Feb 2015	$10,128,648	May 2015	$4,803,450	$26,632,498
FY16	Aug 2015	$3,983,100	Nov 2015	$5,783,000	Feb 2016	$7,195,116	May 2016	$5,483,000	$22,444,216
FY17	Aug 2016	$2,352,100	Nov 2016	$6,553,210	Feb 2017	$2,918,900	May 2017	$10,434,030	$22,258,240
FY18	Aug 2017	$8,085,900	Nov 2017	$10,311,545	Feb 2018	$1,377,800	May 2018	$1,909,730	$21,684,975
FY19	Aug 2018	$4,107,370	Nov 2018	$12,150,449	Feb 2019	$19,027,200	May 2019	$11,067,748	$46,352,767
FY20	Aug 2019	$14,287,100	Nov 2019	$10,990,840	Feb 2020	$9,635,048	May 2020	$5,454,250	$40,367,238
FY21	Aug 2020	$6,087,196	Nov 2020	$9,789,250	Feb 2021	$9,642,573	May 2021	$11,878,316	$37,397,335
FY22	Aug 2021	$5,582,842	Nov 2021	$7,692,520	Feb 2022	$4,149,000	May 2022	$13,903,765	$31,328,127
FY23	Aug 2022	$4,897,221	Nov 2022	$4,024,558	Feb 2023	$4,076,134	May 2023	$8,736,800	$21,734,713
FY24	Aug 2023	$4,761,170	Nov 2023	$15,133,250	Feb 2024	$5,718,977	May 2024	$3,612,630	$29,226,027
FY25	Aug 2024	$5,467,390	Nov 2024	$0	Feb 2025	$8,777,956	May 2025	$10,890,858	$25,136,204
FY26	Aug 2025	$6,925,000	Nov 2025	$3,763,210	Feb 2026	$21,839,421	May 2026	$14,857,678	$47,385,309
Total		$144,216,742		$140,806,900		$160,916,451		$184,593,575	$633,259,669

MWRA funding is provided to a community following execution of a standard financial assistance agreement that stipulates the project scope, schedule and loan repayment requirements. Communities are required to provide periodic schedule and expenditure progress reports to MWRA. For planning and design projects, the work products (reports, plans, specifications, and bidding documents) are reviewed and approved by MWRA. During project construction, MWRA staff perform site visits to document sewer rehabilitation progress.

Program Goals

The I/I Local Financial Assistance Program is a critical component of MWRA's Regional I/I Reduction Plan. Specifically, local sewer system rehabilitation projects are intended to at least offset ongoing collection system deterioration to prevent a net increase in regional I/I. In the long-term, system rehabilitation should result in lower I/I, which will allow for future increases in sanitary (residential, commercial, industrial, and institutional) flow without a net increase in total wastewater flow to the Deer Island Treatment Plant.

A second goal of the program is to assist member communities in implementing effective annual local collection system maintenance programs to ensure efficient operation and ongoing collection system repair/replacement.

Type of Local Projects Receiving Funding

Funding has been provided to local communities for eligible I/I reduction projects including planning, design, construction, and engineering services during construction. These projects generally take one to three years to complete. Seventy-eight percent of funds distributed to date have financed local construction projects. The table below details funds distributed by project phase for both completed and ongoing projects.

PROJECT PHASE	COMPLETE PROJECTS ($ millions)	ONGOING PROJECTS ($ millions)	TOTAL ($ millions)
Planning/Study:	$55.6	$ 18.7	$ 74.3 (12%)
Design:	19.7	10.9	30.6 (5%)
Construction:	350.0	151.3	501.3 (79%)
Eng. Services During Const.:	21.8	5.3	27.1 (4%)
TOTAL	$ 447.1 (71%)	$ 186.2 (29%)	$ 633.3 (100%)

Program Results

The I/I Local Financial Assistance Program began in May 1993. Through FY26, a total of 723 local I/I reduction and sewer system rehabilitation projects have been funded through the MWRA's grant/loan program. During FY26, MWRA distributed a total of $47.4 million in grants and loans to member communities to help fund 21 local I/I reduction projects (see Section Pages 4-9 to 4-55 for community project details). Cumulative results for the program are summarized below.

Results for all projects (FY93 through FY26) for planning/inspection include the following:

- 2,724 miles of sewer TV inspected
- 1,879 miles of sewer flow isolated
- 1,577 miles of sewer smoke tested
- 75,074 sewer manholes inspected
- 84,252 buildings inspected.

Results for all projects (FY93 through FY26) targeting infiltration reduction include the following:

- 85 miles sewer replaced
- 388 miles sewer CIPP lined
- 195 miles sewer tested/chemically sealed
- 3,431 sewer spot repairs
- 20,775 service connection repairs
- 5.0 miles underdrains sealed.

Results for all projects (FY93 through FY26) targeting inflow reduction include the following:

- 1,208 catch basins disconnected
- 49 miles of new or replaced storm drains
- 25,447 manholes rehabilitated/sealed
- 4,159 manhole covers replaced or inflow seals installed
- 551 sump pumps redirected
- 5,839 downspouts/area drains disconnected.

Stormwater and Infiltration/Inflow Impacts to the Collection System



Infiltration into a Sanitary Sewer

Wastewater discharged by member sewer communities to MWRA is influenced by seasonal and wet-weather conditions related to stormwater in combined sewer systems, groundwater infiltration, and stormwater and tidal inflow. Infiltration/Inflow (I/I) is extraneous water that enters all wastewater collection systems through a variety of sources.

Infiltration is groundwater that enters the collection system through physical defects such as cracked pipes/manholes or deteriorated joints. Typically, many sewer pipes and sewer service laterals are below the surrounding groundwater table. Therefore, leakage into the sewer (infiltration) is a broad problem that is difficult and expensive to identify and reduce.



Inflow into a Sewer Manhole

Inflow is extraneous flow entering the collection system through point sources and may be directly related to storm water run-off from sources such as roof leaders, yard and area drains, basement sump pumps, ponded manhole covers, cross connections from storm drains or catch basins, leaking tide gates, etc. Inflow causes a rapid increase in wastewater flow that occurs during and continuing after storms and extreme high tides. The volume of inflow entering a collection system typically depends on the magnitude and duration of rainfall, as well as related impacts from snowmelt, flooding, and storm surge.

Stormwater in Combined Sewers is, by design, collected in the combined sewer system to be transported to a downstream treatment facility. Additional system capacity is available via combined sewer overflow (CSO) storage facilities and outfalls that may be active during rainfall events.

Regional Wastewater Flow Trends

Wastewater Flow Graph 1 (page 4-7) provides long-term regional flow data for the Deer Island Treatment Plant collection system and annual rainfall. The long-term average daily flow for the total system is about 348 mgd (last 37 years from 1989-2025) and the average annual rainfall is 43.4 inches (Boston Logan Airport Data). Wastewater Flow Graph 2 (page 4-8) shows the five-year running averages (flow and rainfall) as a means of smoothing the annual variability in the long-term data displayed in Wastewater Flow Graph 1. The five-year running average daily flow has declined from approximately 390 mgd (in the five year period beginning in 1989) to approximately 321 mgd (in the most recent 5-year period), a reduction of 69 mgd or 18% of wastewater flow tributary to the Deer Island Treatment Plant.

During dry summer months, total system minimum flows drop to as low as 220 mgd. Few problems exist within local and regional sewer systems during dry weather or as a result of small and medium storm events. In contrast, peak wet-weather flow, during occasional periods of significant rainfall, exceeds the 1,270 mgd plant capacity, more than 3.5 times the average flow due to the influence of combined sewer flow, as well as, infiltration and inflow. The collection system has additional capacity available at combined sewer overflow (CSO) storage facilities and outfalls. Extreme storm events that occur during periods of high groundwater, may cause sewer system surcharging and sanitary sewer overflows (SSOs).

Over the last five years (2021-2025), MWRA's average daily flow of 321 mgd has been about 8% below the long-term average of 348 mgd. The five-year average rainfall of 42.0 inches is consistent with the long-term average of 43.4 inches.

The estimated average daily flow reduction associated with completed local I/I reduction projects that have received MWRA financial assistance is about 104 million gallons per day (mgd). This flow reduction "ballpark" figure is based on the communities' (or their consultants') peak I/I reduction estimates, which have been prorated by MWRA staff to estimate an annual average I/I reduction. The estimated I/I reduction represents groundwater and stormwater that no longer enter the collection system at the point of sewer repair.

Regional wastewater flow trends are influenced by many factors, including:

- MWRA's financial assistance for local I/I reduction and sewer rehabilitation projects provide gradual improvements to the regional collection system by reducing I/I and stormwater sources. However, each year the regional collection system gets older and continues to deteriorate, which increases I/I;

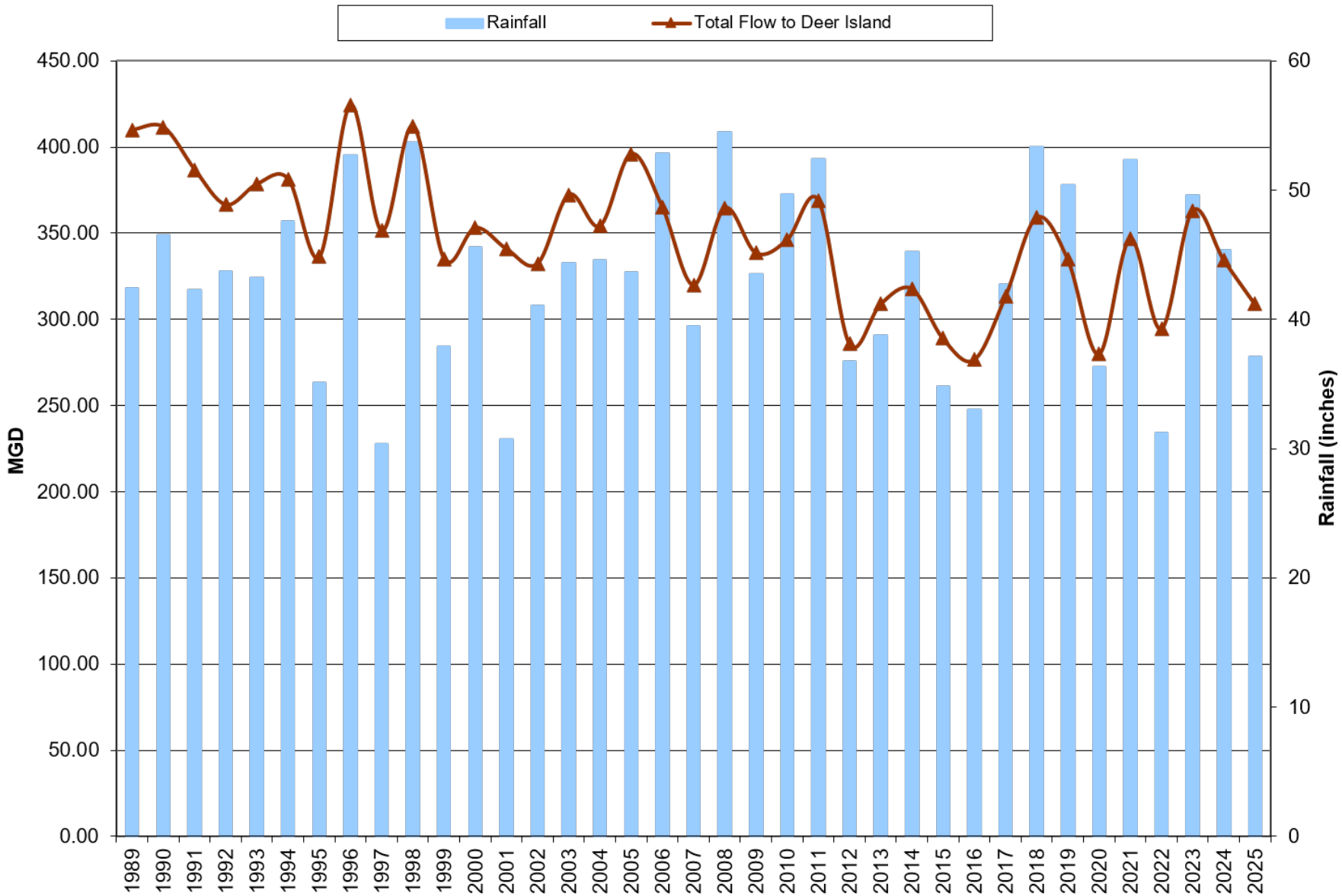
- Sewer capacity gained by elimination of I/I in one subsystem may allow additional I/I to enter the collection system at a different location (known as infiltration migration), resulting in less net flow reduction at the end of the collection system;

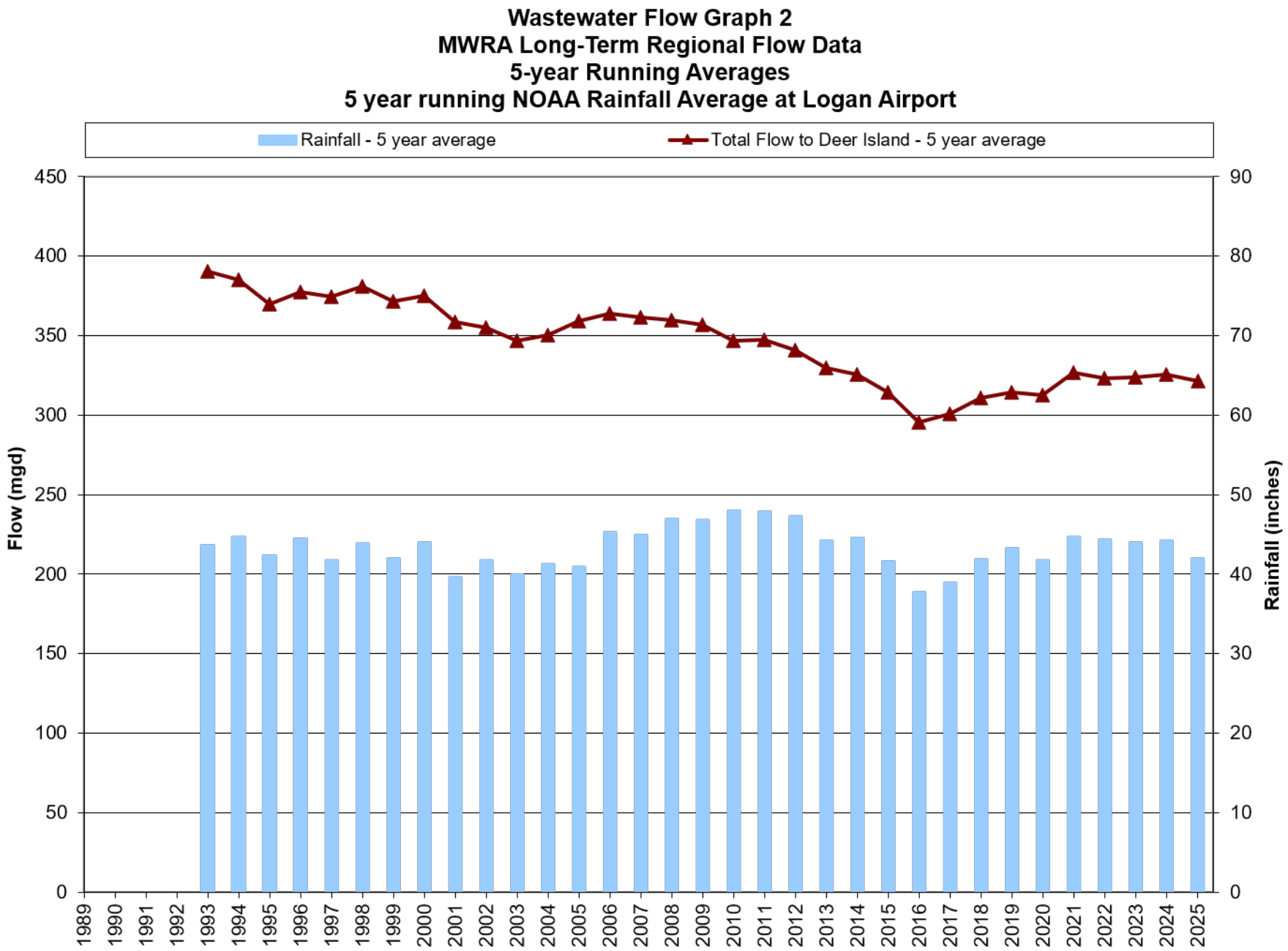
- CSO separation projects reduce stormwater tributary to the combined sewer system leading to decreased flows. However, MWRA's pumping and interceptor relief upgrades, as well as CSO optimization projects, are intended to maximize sewer flow to the treatment plant leading to increased flows;

- Wastewater flows within the collection system vary dramatically due to changes in precipitation. For example, annual average daily flow for MWRA's system varies up to 100 mgd from year to year (from a low of less than 300 mgd to a high of more than 400 mgd). Small flow reductions for individual projects are dwarfed by regional flow fluctuations; and,

- Over the last 20 years, the decline in per capita indoor water use within the MWRA service area could account for about 20 mgd in wastewater flow reduction after the increase in wastewater flow from increased sewered population is accounted for.

Wastewater Flow Graph 1
MWRA Long-Term Regional Flow Data
NOAA Annual Rainfall at Logan Airport




Wastewater Flow Graph 2
MWRA Long-Term Regional Flow Data
5-year Running Averages
5 year running NOAA Rainfall Average at Logan Airport
Rainfall - 5 year average
Total Flow to Deer Island - 5 year average
Flow (mgd)
Rainfall (inches)
450
400
350
300
250
200
150
100
50
0
90
80
70
60
50
40
30
20
10
0
1989
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2024
2025

Community Projects Funded During FY26

During FY26, MWRA distributed a total of $47.4 million in grants and loans to member communities to help fund 21 local I/I reduction projects. Community projects are funded quarterly under the MWRA I/I Local Financial Assistance Program. Attached (following this page) are funding summaries for the four quarterly funding distributions during FY26:

- First Quarter FY26 - August 2025 Funding Cycle with $6,925,000 distributed to three communities: Burlington, Newton, and Stoneham (see Section Pages 4-10 to 4-16);

- Second Quarter FY26 - November 2025 Funding Cycle with $3,763,210 distributed to three communities: Ashland, Canton, and Stoughton (see Section Page 4-17 to 4-23) ;

- Third Quarter FY26 - February 2026 Funding Cycle with $21,839,421 distributed to ten communities: Boston, Braintree, Brookline, Dedham, Framingham, Needham, Walpole, Watertown, Westwood, and Weymouth (see Section Pages 4-24 to 4-46); and

- Fourth Quarter FY26 - May 2026 Funding Cycle with $14,857,678 distributed to three communities: Boston, Lexington, and Winchester (see Section Pages 4-47 to 4-55).

MWRA I/I Local Financial Assistance Program Funding Summary

August 2025 Funding Cycle

Community	Funding Allocation
Burlington	$1,432,000.00
Newton	$4,403,000.00
Stoneham	$1,090,000.00
Total	$6,925,000.00

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

MWRA PROJECT NO. WRA-P16-08-3-1602

TOWN OF BURLINGTON

CIP PROJECT 12 AND 13 SEWER REHABILITATIONS: DESIGN & CONSTRUCTION / MIDDLESEX TURBPIKE SEWER REPLACEMENT

SCOPE OF SERVICES

The purpose of these projects is to reduce I/I through rehabilitating sewer manholes and pipes in specific community sewer areas. The projects are part of the Town's Sewer Capital Improvement Program (CIP) and will include design, construction, and construction services.

The Middlesex Turnpike Sewer Replacement Project will include construction of 'Excavate and Replace' rehabilitations on the Middlesex Turnpike and trenchless rehabilitations on Cambridge Street to eliminate infiltration from the sanitary sewer system.

The CIP Project 12 and 13 Rehabilitations will include construction (and construction services) of trenchless technology and 'excavate and replace' to eliminate infiltration and inflow from the sanitary sewer system.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement for Engineering Services By and Between the Town of Burlington and Weston & Sampson Engineers, Inc., and the MWRA I/I Local Financial Assistance Project Application received June 20, 2025. Total project cost is estimated at $2,194,000 (Middlesex Turnpike Sewer Construction = $907,000; Middlesex Turnpike Sewer C.S. = $180,000; CIP 12 & 13 Design Cost = $107,000; CIP 12 & 13 Construction Cost = $1,000,000). Eligible MWRA I/I Local Financial Assistance is $1,432,000. The Middlesex Turnpike Sewer Replacement will remove an estimated .04 mgd of peak infiltration. An estimated quantity of infiltration and inflow to be removed as part of CIP Project 12 and 13 Rehabilitations will be determined during CIP Project 12 and 13 Design.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

MWRA PROJECT NO. WRA-P16-08-3-1602

TOWN OF BURLINGTON

CIP PROJECT 12 AND 13 SEWER REHABILITATIONS: DESIGN & CONSTRUCTION / MIDDLESEX TURBPIKE SEWER REPLACEMENT

PROJECT SCHEDULE

Description of Task	Start Date	Completion Date
Middlesex Turnpike Bid and Award	July 2025	August 2025
Middlesex Turnpike Construction	August 2025	November 2025
Middlesex Turnpike Warranty Inspections	April 2026	May 2026
CIP Project 12 & 13 Design	December 2026	March 2027
CIP Project 12 & 13 Bid and Award	April 2027	May 2027
CIP Project 12 & 13 Construction of Rehabilitations	June 2027	November 2027
CIP Project 12 & 13 Warranty Inspections	April 2028	May 2028

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
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PROJECT NO. WRA-P16-24-3-1603

CITY OF NEWTON

CIP PROJECT 9 PHASE 2 AND CIP PROJECT 10 SEWER REHABILITATIONS

SCOPE OF SERVICES

The purpose of this project is to rehabilitate community subareas that contribute excessive I/I, eliminate sanitary sewer contamination to the underdrain system and repair underdrain access points that are contributing infiltration to the sanitary sewer system. The City is requesting money for the construction of CIP Project 9 Phase 2 and CIP Project 10 which are part of the City of Newton's 11 Year Sewer Capital Improvement (CIP) Plan.

The project area for CIP Project 9 includes Newton Subareas A001, A002, A003, A010, A011, A013 and A015. The project area for CIP Project 10 Rehabilitations will include repair of defects in sanitary sewer subareas A012, A014, B041, B042, B043, B063, and B069.

The objective is to design and construct point repairs and trenchless rehabilitations that will eliminate infiltration and inflow.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement for Engineering Services By and Between the City of Newton and Weston & Sampson Engineers, Inc. and the approved MWRA I/I Local Financial Assistance Project Application received July 25, 2025.

Total project cost is estimated at $7,250,000 (CIP Project 9 Phase 2 Construction = $3,300,000; CIP Project 9 Phase 2 Construction Services = $700,000; CIP Project 10 Construction = $2,650,000; CIP Project 10 Construction Services = $600,000. Eligible MWRA I/I Local Financial Assistance is $4,403,000. As a result of the above work, an estimated 0.76 mgd of peak I/I will be removed from the collection system.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

PROJECT NO. WRA-P16-24-3-1603

CITY OF NEWTON

CIP PROJECT 9 PHASE 2 AND CIP PROJECT 10 SEWER REHABILITATIONS

PROJECT SCHEDULE

Item	Start Date	Completion Date
Design		
CIP Project 9 Phase 2 Design	September 2025	March 2026
CIP Project 9 Phase 2 Bid /Award	March 2026	May 2026
CIP Project 10 Design	April 2026	September 2026
CIP Project 10 Bid /Award	October 2026	December 2026
Construction		
CIP Project 9 Phase 2 Rehabilitations	June 2026	December 2026
CIP Project 9 Phase 2 Warranty Re-Test	March 2027	May 2027
CIP Project 10 Rehabilitations	January 2027	October 2027
CIP Project 10 Warranty Re-Test	March 2028	June 2028

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

MWRA PROJECT NO. WRA-P16-31-3-1601

TOWN OF STONEHAM
PHASE 10 SEWER SYSTEM I/I REHABILITATION

SCOPE OF SERVICES

The objective of the project is I/I identification and removal, and sewer system rehabilitation for structural deficiencies, through pipeline/manhole rehabilitation and replacement. Phase 10 Sewer System I/I rehabilitation work will be conducted throughout the Town of Stoneham.

Investigations conducted in 2018 and 2019 included CCTV inspection of approximately 40,000 LF of 6 to 15-inch diameter sewer main and inspection of approximately 250 sewer manholes. Rehabilitation recommendations from these investigations included:

1. CIP lining of approximately 17,000 LF of sewer main;
2. Grouting sewer service connections;
3. Cutting of protruding service connections;
4. Replacement of defective manhole drop connections;
5. Performing approximately eight (8) excavation point repairs; and
6. Rehabilitation of manholes.

For the Phase 10 Rehabilitation Contract, these recommendations will be reviewed holistically with past rehabilitation recommendations and additional discussions with the Town regarding problem I/I areas. Final rehabilitations will be designed based on the severity of defects, their associated I/I contribution, and the cost effectiveness of rehabilitation for I/I removal. Pipeline rehabilitation methods will consist primarily of cured-in-place pipe lining, but may also include: testing and sealing of pipe joints and service connections, cured-in-place spot repairs and open cut excavation repairs. Manhole rehabilitation methods may include lining of manhole chimneys; chemical sealing of walls and joints, pipe connections and benches and inverts; as well as cementitious lining and epoxy lining of manholes.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement For Engineering Services By and Between the Town of Stoneham and Arcadis U.S., Inc. and the approved MWRA I/I Local Financial Assistance Project Application received May 20, 2025. Total project cost is estimated at $1,120,000. Eligible MWRA I/I Local Financial Assistance is $1,090,000 (Study/Planning/Design = $115,000 / Construction Engineering = $165,000 / Construction = $810,000). For the Phase 10 Sewer Rehabilitation, estimated I/I reductions will be determined during pre-rehabilitation CCTV investigations, manhole inspections and engineering condition assessments.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

MWRA PROJECT NO. WRA-P16-31-3-1601

TOWN OF STONEHAM
PHASE 10 SEWER SYSTEM I/I REHABILITATION

PROJECT SCHEDULE

Description of Work	Start Date	Completion Date
Planning / Design	September 2025	April 2026
Bidding / Award	April 2026	May 2026
Rehabilitation Construction	June 2026	May 2027

MWRA I/I Local Financial Assistance Program Funding Summary

November 2025 Funding Cycle

Community	Funding Allocation
Ashland	$1,383,000.00
Canton	$1,058,210.00
Stoughton	$1,322,000.00
Total	$3,763,210.00

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A

MWRA PROJECT NO. WRA-P16-02-3-1607

TOWN OF ASHLAND, MASSACHUSETTS

DPW-25-003: SUB-BASIN 2–4 SEWER REHABILITATION AND METER PLANNING

SCOPE OF SERVICES

Ashland is moving forward with the second year of Contract DPW-25-003, a three-year sewer rehabilitation project originally submitted with the funding application under MWRA Project No.WRA-P14-02-3-1432. Developed as a phased two-to-three-year program, this project supports the removal of previously identified inflow and infiltration (I/I) sources and includes further investigation to confirm clear flows in previously studied areas. The work will take place in Sub-Basins 2 through 4, as outlined in the sewer basin maps included in the original contract documents.

1. Sewer Rehabilitation Project DPW-25-003

    a. Year 1 Funding Adjustment: The Year 1 bid came in at $885,346, $39,100 more than the original estimate of $846,300. Ashland is requesting additional funding for MWRA Project WRA-P14-02-3-1432, funded in May 2024.

    b. Funding for Years 2 and 3: The project scope includes mobilization, sewer line cleaning (light and heavy), debris disposal, and jet vacuum services. It also covers CCTV inspections, chemical root treatment, joint testing and sealing, short liners, CIPP and lateral lining, and service reconnections, as well as manhole rehabilitation, inflow shield installation, sewer pipe repairs, and final inspections including 1-year CCTV and sump pump evaluations.

2. Planning Project – Permanent Flow Meters: This project consists of the purchase and install ten permanent flow meters, covering all related costs including equipment, installation, police details, engineering, and contingency at an estimated cost of $118,200.

Total project cost is estimated at $1,383,00. Eligible MWRA I/I Local Financial Assistance is $1,383,000 (Phase 12 / 14 / 16). Project work will be performed pursuant to the terms and conditions detailed within the Agreement for Engineering Services by and between the Town of Ashland and Haley Ward, Inc. and the approved MWRA I/I Local Financial Assistance Project Application received October 15, 2025. The expected I/I removal for this project will be determined at a later date

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B

MWRA PROJECT NO. WRA-P16-02-3-1607

TOWN OF ASHLAND, MASSACHUSETTS

DPW-25-003: SUB-BASIN 2–4 SEWER REHABILITATION AND METER PLANNING

PROJECT SCHEDULE

Item	Start Date	Completion Date
CCTV Inspections and Reporting	March 2026	June 2026
I/I Rehabilitation	March 2026	December 2026

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A

FINANCIAL ASSISTANCE AGREEMENT

TOWN OF CANTON, MASSACHUSETTS

I/I IDENTIFICATION & REHABILITATION (CANTON SEWER SUBAREAS 22 & 16)

TOWN OF CANTON PROJECT # 25-008S

MWRA PROJECT NO. WRA-P16-10-3-1605

SCOPE OF SERVICES

The purpose of this project is to identify and quantify community sub-areas that contribute excessive I/I and evaluate/construct sewer system rehabilitation options. This project includes a combination of I/I planning, design and construction. The project area was initially delineated based on previous I/I flow metering and flow isolation results that were completed in 2021 / 2022 (MWRA Project Nos. WRA-P11-10-1-1163 / 1188). Sewer manhole and CCTV inspections were completed in this area to further define the rehabilitation design scope. The results of the inspections were used to design sewer rehabilitation options to address infiltration in Canton Sewer Subareas 22 & 16.

The project objective is to rehabilitate the sewer, both mainline and manholes, to prevent extraneous water from entering the sewer system through infiltration. Project work includes CCTV inspection of approximately 4,250 LF of sewer mains; CIPP rehabilitation of approximately 8,800 LF of 8-inch through 15-inch diameter sewer main and rehabilitation of approximately 65 sewer manholes in Canton Sewer Subareas 22 and 16.

The project is located within the Town of Canton, specifically on the following streets: Ponkapoag Way, Adrienne Drive, Hickory Lane, Washington Street, Rockland Street, Bolivar Street, Howard Street, Mechanic Street, Walnut Street, Messinger Street, Belcher Street, and sewer mains along the Cedar Drive Easement.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement For Professional Engineering Services By and Between the Town of Canton and Kleinfelder (dated November 6, 2024) and the approved MWRA I/I Local Financial Assistance Project Application (received October 15, 2025).

Total project cost is estimated at $1,058,210 (Planning Cost = $48,400 / Design Cost = $118,200 / Construction Cost = $732,410 / Construction Services Cost = $159,200). Eligible MWRA I/I Local Financial Assistance is $1,058,210. As a result of the above work, an estimated 0.11 mgd of average infiltration will be removed from the collection system.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B

FINANCIAL ASSISTANCE AGREEMENT

TOWN OF CANTON, MASSACHUSETTS

I/I IDENTIFICATION & REHABILITATION (CANTON SEWER SUBAREAS 22 & 16)

TOWN OF CANTON PROJECT # 25-008S

MWRA PROJECT NO. WRA-P16-10-3-1605

PROJECT SCHEDULE

Item	Start Date	Completion Date
CCTV Inspections	November 2024	July 2025
Design & Bid	November 2024	August 2025
Rehabilitation Construction	November 2025	June 2026

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A

MWRA PROJECT NO. WRA-P16-32-3-1606

TOWN OF STOUGHTON, MASSACHUSETTS

SEWER INVESTIGATION AND REHABILITATION: YR.1-2 DESIGN & CONSTRUCTION / YR.3 INVESTIGATION

SCOPE OF SERVICES

The purpose of these projects is to identify and rehabilitate community subareas that contribute excessive I/I, evaluate rehabilitation options, and rehabilitate the sewer system on a continuous set schedule. Project work will include, but not be limited to, the following 3 components:

1. Yr.1 & 2 Design & Construction Services: Design of sewer rehabilitations based on cost and value effectiveness and preparing detailed construction documents and final cost estimates for public bidding. Construction oversight will ensure proper execution of prioritized repairs throughout the Town.

2. Yr.1 & 2 Construction; Cleaning, inspecting, and sealing joints in 479 linear feet of sewer, installing 8,943 linear feet of cured-in-place pipe, and performing various tap and wye repairs, as well as, open-cut point repairs at four locations, lateral liner installations at 19 sites, and manhole improvements such as cementitious lining, inflow dish installation, bench and invert construction, and frame replacements. Additional tasks include heavy cleaning and CCTV inspection of 419 linear feet of sewer and inspection of 15 manholes.

3. Yr.3 Sewer Investigation: Inspection of approximately 50,000 feet of sewer lines and 250 manholes using CCTV and surface inspections. Areas with high infiltration/inflow and streets slated for paving between 2026 and 2028 will be prioritized. Findings will be added to the town's GIS database and summarized in a report with recommendations and cost-effective rehabilitation priorities.

Total project cost is estimated at $1,469,168. Eligible MWRA I/I Local Financial Assistance is $1,322,000 (Phase 16). Project work will be performed pursuant to the terms and conditions detailed within the Agreement for Engineering Services by and between the Town of Stoughton and Weston & Sampson Engineers, Inc and the approved MWRA I/I Local Financial Assistance Project Application received October 15, 2025. As a result of the above rehabilitation work, an estimated 0.0500 MGD of peak I/I will be removed from the collection system upon contract completion.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B

MWRA PROJECT NO. WRA-P16-32-3-1606

TOWN OF STOUGHTON, MASSACHUSETTS

SEWER INVESTIGATION AND REHABILITATION: YR.1-2 DESIGN & CONSTRUCTION / YR.3 INVESTIGATION

PROJECT SCHEDULE

General Description of Work Performed	Start Date
Design	Winter 2025
Study/Investigation	Spring 2026
Construction/Construction Services	Summer 2026
Engineering Review/Reporting/Update Database	Fall/Winter 2026

MWRA I/I Local Financial Assistance Program Funding Summary

February 2026 Funding Cycle

Community	Funding Allocation
Boston	$7,423,988.00
Braintree	$1,138,643.00
Brookline	$3,092,000.00
Dedham	$1,452,000.00
Framingham	$2,000,000.00
Needham	$3,479,000.00
Walpole	$656,790.00
Watertown	$1,672,000.00
Westwood	$500,000.00
Weymouth	$425,000.00
Total	$21,839,421.00

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
MWRA PROJECT NO. WRA-P16-05-3-1608

BWSC CITY-WIDE SEWER REPLACEMENT & REHABILITATION

BWSC CONTRACT NO. 20-309-007

SCOPE OF SERVICES

This project includes sewer separation and rehabilitation which will result in infiltration & inflow removal and decrease in combined sewer overflows. Project work under this contract includes the replacement of approximately 3,970 LF of combined sewers / sanitary sewers, installation of approximately 1,740 LF of storm drains, rehabilitation of approximately 2,540 LF of existing sewer pipes, and the performance of all other work pursuant to the terms and conditions detailed within the plans and specifications of BWSC Contract No. 20-309-007 and the approved MWRA I/I Local Financial Assistance Project Application received December 2, 2025.

Project work will take place on various streets in Allston/Brighton, Fenway/Kenmore, Jamaica Plain, and Roxbury.

Total project cost is estimated at $8,486,854. Eligible MWRA I/I Local Financial Assistance is $7,423,988. The average annual infiltration and inflow reduction at contract completion is estimated to be 0.21 mgd.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
MWRA PROJECT NO. WRA-P16-05-3-1608

BWSC CITY-WIDE SEWER REPLACEMENT & REHABILITATION

BWSC CONTRACT NO. 20-309-007

PROJECT SCHEDULE

Item	Start Date	Completion Date
Rehabilitation Design	March 2023	August 2025
Construction Rehabilitation	April 2026	October 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A-1
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF BRAINTREE, MASSACHUSETTS

YEAR 13 (FY25) I/I REHABILITATION PROGRAM

MWRA PROJECT NO. WRA-P16-06-3-1614

SCOPE OF SERVICES

The purpose of this project is to rehabilitate identified community subareas that contribute excessive I/I in the sewer system and evaluate rehabilitation options on a continuous set schedule. This project includes design, construction, and construction services. Project work will be conducted in Braintree's sewer subareas CP1, DH1, M2, P1, and TA1.

Year 13 (FY25) I/I Rehabilitation – Design / Construction / Construction Services:
Construction plans and specifications (to remove excessive I/I identified in sewer pipelines and manholes during year 13 investigation.) will be developed and submitted, followed by rehabilitation construction. A draft copy of the construction plans, specifications and bidding documents will be submitted to the MWRA for review and comment during the design phase. The estimated quantity of I/I to be reduced will be determined as part of the final design.

Total project cost estimated at $970,898 (Design/Construction Service=$217,000; Construction Cost = $690,898). Eligible MWRA I/I Local Financial Assistance is $907,898.

Project work will be performed pursuant to the terms and conditions detailed within the approved MWRA I/I Local Financial Assistance Project Application (received January 15, 2026) and the Agreement For Engineering Services By And Between The Town of Braintree, MA And Weston & Sampson Engineers, Inc.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A-2
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF BRAINTREE, MASSACHUSETTS

YEAR 14 (FY26) I/I INVESTIGATION

MWRA PROJECT NO. WRA-P16-06-1-1615

SCOPE OF SERVICES

The purpose of this project is to identify community sewer subareas that contribute excessive I/I and evaluate rehabilitation options on a continuous set schedule. Project work will include, but not be limited to, the following:

Year 14 (FY26) I/I Investigation: Investigation work will include, but not be limited to the following: clean, CCTV inspect and record as many as 43,000 LF of sewer main in Braintree Sewer Subareas W3 and W4; review CCTV inspection videos (as many as 43,000 LF) to locate problem areas and I/I sources within manhole-to-manhole segments of the sewer main; flow isolate as many as 43,000 LF of sewer main in Subareas W3 and W4; perform as many as 225 topside sewer manhole inspections in Subareas W3 and W4; and submit a letter report summarizing the results of this work, identifying those areas which appear to contribute excessive I/I, and provide detailed conclusions and recommendations (including a cost-effectiveness analysis for identified I/I sources and a transportation & treatment cost calculation).

Total project cost is estimated at $230,745 (Investigation Services = $230,745). Eligible MWRA I/I Local Financial Assistance is $230,745.

Project work will be performed pursuant to the terms and conditions detailed within the approved MWRA I/I Local Financial Assistance Project Application (received January 15, 2026) and the Agreement For Engineering Services By And Between The Town of Braintree, MA And Weston & Sampson Engineers, Inc.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B-1
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF BRAINTREE, MASSACHUSETTS

YEAR 13 (FY25) I/I REHABILITATION PROGRAM

MWRA PROJECT NO. WRA-P16-06-3-1614

PROJECT SCHEDULE

Item	Start Date	Completion Date
Design	March 2026	May 2026
Bid and Award	July 2026	September 2026
Construction	October 2026	January 2027
Warranty Retesting	April 2027	May 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B-2
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF BRAINTREE, MASSACHUSETTS

YEAR 14 (FY26) I/I INVESTIGATION

MWRA PROJECT NO. WRA-P16-06-1-1615

PROJECT SCHEDULE

Item	Start Date	Completion Date
Investigation	March 2026	May 2026
Investigation Review	September 2026	October 2026
Reporting	December 2026	February 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A

MWRA PROJECT NO. WRA-P16-07-3-1612

TOWN OF BROOKLINE

2027 SEWER REHABILITATION DESIGN / CONSTRUCTION SUBAREA
NI-4,S-1, S-3 & BRINGTON RD

SCOPE OF SERVICES

The purpose of this project is to identify and rehabilitate community subareas that contribute excessive I/I, evaluate rehabilitation options and rehabilitate the sewer system on a continuous set schedule. This project includes a combination of planning, investigation, design and construction. In 2016, Brookline initiated a sewer system capital improvement program with the goal of rehabilitating all non-CIPP lined sanitary sewer mains and their associated manholes throughout the Town during the 2018-2032 timeframe through 16 capital improvement projects.

The planning and investigation work includes field inspections of all sewer manholes within Sewer Subarea NI-4,S-1, S-3 & Brington Rd.

The design component of the project involves the preparation of biddable construction documents based on the planning and investigation work completed. Separate construction contracts will be issued for the CIPP lining of sewers in NI-4,S-1, S-3 & Brington Rd, and sewer manhole rehabilitation in NI-4,S-1, S-3 & Brington Rd.

An estimate of the recommended sewer rehabilitations included in the construction component of the project will include, but not be limited to:

- Installation of approximately 29,570 LF of cured-in-place pipe (CIPP) lining.
- Heavy cleaning of approximately 4,500 LF of sewer main.
- Cleaning and CCTV inspection of 4,500 LF of sewer main.
- Installation of epoxy lining on approximately 3,000 VF of sewer manholes.
- Installation of approximately 150 gallons of injection grouting.
- Reconstruction of approximately 15 sewer manhole benches/inverts.
- Reconstruction of approximately 10 VF of grading course/corbel/wall; and
- Adjustment and/or replacement of 10 sewer manhole frame and covers.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement for Engineering Services by and Between the Town of Brookline and BETA Group, Inc. and the approved MWRA I/I Local Financial Assistance Project Application received January 15, 2026. The total project cost is estimated at $3,866,107, thus Eligible MWRA I/I Local Financial Assistance is $3,092,000 (Phase 16). At the completion of this project, it is estimated that 0.063 mgd of annual average infiltration will be removed from the collection system.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B

MWRA PROJECT NO. WRA-P16-07-3-1612

TOWN OF BROOKLINE

2027 SEWER REHABILITATION DESIGN / CONSTRUCTION SUBAREA
NI-4,S-1, S-3 & BRINGTON RD

PROJECT SCHEDULE

General Description of Work Performed	Start Date	Completion Date .
I/I Planning & Investigation	March 2026	May 2026
Design & Bid of Recommended Sewer Rehabilitations	April 2026	June 2026
Construction of Sewer Rehabilitations	July 2026	November 2026

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A

MWRA PROJECT NO. WRA-P16-12-3-1611

TOWN OF DEDHAM

2026 SEWER INVESTIGATION AND REHABILITATION

SCOPE OF SERVICES

The purpose of this project is to identify and rehabilitate community subareas that generate excessive inflow and infiltration (I/I), assess potential rehabilitation strategies, and implement ongoing, scheduled improvements to the sewer system. The scope of work will include, but is not limited to, the following:

a) Manhole work which includes conducting a topside physical survey in as many as 525 sewer manholes within Dedham Sewer Subareas EE / HH / LL / OO and drafting a letter report for the work completed. Total estimated cost = $68,775 (Manhole inspections = $47,250, Database & Letter report = $21,525).

b) Sewer rehabilitation work involving the installation of approximately 4,810 LF of 8-inch cured-in-place (CIP) pipe liners, 1,527 LF of 10-inch CIP pipe liners and cementitious lining of 78 VF of sewer manholes. (Estimated Rehabilitation Construction cost = $500,000).

c) Inflow reduction measures that include 5 connections to the town drain and 1 extension of the town drain. The installation of 21 dry wells and 1 CIPP as well as the addition of 7 new cleanout caps. (Estimated Inflow removal cost = $300,000)

d) Flow metering work that includes furnishing, installing, calibrating, maintaining, and monitoring 16 temporary flow meters, 3 groundwater gauges, and 1 temporary rain gauge at various locations. The work also involves flow isolation for up to 46,000 LF of sewer in select areas of Subareas BB, II, LL, and MM. The existing hydraulic model will be updated in XPSWMM using data from roughly 42,700 LF of major town-owned sewers. All collected data, including that from MWRA 8 meters, if available will be analyzed and summarized in a letter report with identified and estimated flows, I/I quantities, and recommendations for reducing I/I entering the town's sewer system. (Estimated Flow metering cost= $360,000)

e) Wet weather inspections of approximately 52,817 LF of 6 to 8-inch pipe and 36,000 LF of 10 to 15-inch pipe. Total estimated cost = $223,225 (6 to 8-inch pipe = $79,225 and 10 to 15-inch pipe = $144,000)

The above work will be performed pursuant to the terms and conditions detailed within the approved MWRA I/I Local Financial Assistance Project Application received January 15, 2026 and the Agreement for professional services by and between the Town of Dedham, MA And Weston & Sampson Engineers, Inc.

Total project cost is estimated at $1,452,000. Eligible MWRA I/I Local Financial Assistance is $1,452,000 (MWRA I/I Phase 16 Funding Allocation Limit). As a result of the above work, an estimated 0.126 mgd of peak I/I will be removed from the collection system upon contract completion.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B

MWRA PROJECT NO. WRA-P16-12-3-1611

TOWN OF DEDHAM

2026 SEWER INVESTIGATION AND REHABILITATION

PROJECT SCHEDULE

General Description of Work Performed	Start Date	Completion Date
Manhole Inspections	March 2026	October 2026
Sewer Rehabilitation Construction	April 2026	June 2027
Inflow Removal Construction	June 2026	June 2028
Wet Weather Inspections	March 2026	June 2026
Town-Wide FM	March 2027	December 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

CITY OF FRAMINGHAM, MASSACHUSETTS

WARREN, WALNUT, PRINDIVILLE AND BURDETTE SEWER IMPROVEMENTS

MWRA PROJECT NO. WRA-P16-14-3-1604

SCOPE OF SERVICES

The Warren, Walnut, Prindiville and Burdette Sewer and Water Improvements project is the culmination of several previous studies the City of Framingham conducted in conformance with their Comprehensive Wastewater Management Plan. The project is intended to redirect flow discharged from the Worcester Road Pump Station force main away from the Farm Pond Interceptor to the 42-inch interceptor on Grant Street via a new 16-inch force main and 30-inch gravity sewer. Although design and construction of the new force main and new trunk gravity sewer are the primary drivers for the project, the City will replace old and undersized sanitary sewers as well as perform cast-in-place pipelining and manhole rehabilitation in adjacent sewers. The project also includes selective replacement of water mains and storm drains while street work is occurring. Replacement and lining of these aging sewers will reduce infiltration through pipe joints and defects. All sewers in the project area are to be replaced with PVC.

The project includes approximately 8,000 LF in sewer main replacement on the following streets:
Walnut St., Warren Rd., Prindiville Ave., Burdette Ave., Buckminster St., Middlesex St., Hillcrest Rd., and Hampshire Rd.

Total construction cost for the sewer portion of this project is estimated to be $20,000,000. Eligible MWRA I/I Local Financial Assistance is $2,000,000. As a result of the above rehabilitation work, an estimated 0.04 mgd of annual average I/I will be removed from the collection system upon contract completion.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

CITY OF FRAMINGHAM, MASSACHUSETTS

WARREN, WALNUT, PRINDIVILLE AND BURDETTE SEWER IMPROVEMENTS

MWRA PROJECT NO. WRA-P16-14-3-1604

PROJECT SCHEDULE

Item	Start Date	Completion Date
Construction	March 2026	May 2028

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF NEEDHAM, MASSACHUSETTS

I-95 SEWER INTERCEPTOR IMPROVEMENTS

MWRA PROJECT NO. WRA-P16-23-3-1610

SCOPE OF SERVICES

This project involves construction of the sewer replacement for the I-95 Interceptor from I-95 to Valley Rd at Norwich Rd (replacement of 3,000 LF) which includes an MBTA crossing. The project also involves CIPP lining from Valley Rd at Sterling Rd to the Heron Trail, located southeast of the intersection of Great Plain Road and I-95 in Needham, Massachusetts.

Sewer rehabilitation work (Base Bid + Alternate Bid A) will include, but not be limited to, the following: installation of 3,000 LF of sewer main; installation of 950 LF of CIP pipe liners in sewer mains; installation of 15 sewer manholes; replacement of 17 manhole frames and covers; lining of 5 sewer service laterals; installation of 70 LF of CIPP in sewer service laterals; rehabilitation of 35 VF of sewer manholes; and cleaning and tv inspection of 1,210 LF of sewers.

Total project cost is estimated at $12,365,000. Eligible MWRA I/I Local Financial Assistance is $3,479,000. Project work will be performed pursuant to the terms and conditions detailed within the approved MWRA I/I Local Financial Assistance Project Application (received January 13, 2026) and the Agreements For Engineering Services By And Between The Town of Needham, MA and Apex Companies, LLC. As a result of the above work, an estimated 0.04 mgd of peak infiltration and inflow will be removed from the collection system upon contract completion.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF NEEDHAM, MASSACHUSETTS

I-95 SEWER INTERCEPTOR IMPROVEMENTS

MWRA PROJECT NO. WRA-P16-23-3-1610

PROJECT SCHEDULE

Item	Start Date	Completion Date
Rehabilitation Construction	March 2026	August 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF WALPOLE, MASSACHUSETTS

CY2025 SEWER SYSTEM IMPROVEMENTS

MWRA PROJECT NO. WRA-P16-34-3-1617

SCOPE OF SERVICES

The purpose of this project is to identify and rehabilitate community subareas that contribute excessive I/I, evaluate rehabilitation options, and rehabilitate the sewer system on a continuous set schedule. This work is part of an ongoing wastewater capital improvement program.

Project work will include, but not be limited to, the following: Cementous lining of 420 VF of sewer manholes; exterior grouting of 10 sewer manholes; building four (4) sewer manhole bench and inverts; repairing two (2) manhole bench and inverts; furnishing and installing 19 sewer manhole inflow dishes; furnishing and installing 39 sewer manhole farm and covers; installing 7,700 LF of CIPPL in 8-18 inch sewer mains; grout reinstating 110 sewer laterals in CIPP; cleaning and CCTV inspections of 3,500 LF of sewers; testing of 280 joints; sealing of 140 joints; installation of CIPPL in 7 sewer laterals; CCTV inspection and grouting of 13 laterals; and perform open cut point repairs at four (4) locations. The sewer rehabilitation work will take place in Walpole Sewer Subareas 1, 3, 11, 12, and 14.

Project work will be performed pursuant to the terms and conditions detailed within the approved MWRA I/I Local Financial Assistance Project Application and the Agreement For Engineering Services By And Between The Town of Walpole, MA And Weston & Sampson Engineers, Inc. Total project cost is estimated at $798,042. Eligible MWRA I/I Local Financial Assistance is $656,790. An estimated annual average of 0.04 MGD will be removed from the collection system, upon contract completion.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF WALPOLE, MASSACHUSETTS

CY2025 SEWER SYSTEM IMPROVEMENTS

MWRA PROJECT NO. WRA-P16-34-3-1617

PROJECT SCHEDULE

Item	Start Date	Completion Date
Construction Rehabilitation	February 2026	June 2026
Warranty Retesting	June 2026	July 2026

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A

MWRA PROJECT NO. WRA-P16-36-3-1609

CITY OF WATERTOWN

CIP PROJECTS 3 / 4 - SEWER REHABILITATION CONSTRUCTION/CS

SCOPE OF SERVICES

This project is part of the city's sanitary sewer capital improvement plan. The construction project will be the fifth phase of rehabilitation construction. Using the information collected in the CIP Projects 2, 3 and 4 investigations, cost-effective rehabilitation design will be performed.

Additional Construction Funding for CIP Project 3/4 Rehabilitation: The purpose of this project is to construct rehabilitation identified during sanitary sewer evaluation surveys completed in the CIP Project Areas 2, 3 and 4. The CIP Project 3/4 construction will eliminate infiltration and inflow to the sanitary sewer system as well as cross connections between sanitary and stormwater systems. Additional funding is being requested through the MWRA Phase 16 1/1 Financial Assistance Program to supplement the CIP ¾ Rehabilitations.

The total project cost is estimated at $3,910,000 (Rehabilitation Construction = $3,400,000 and Construction Services = $510,000). Eligible MWRA I/I Local Financial Assistance is $1,672,000 (Phase 16).

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B

MWRA PROJECT NO. WRA-P16-36-3-1609

CITY OF WATERTOWN

CIP PROJECTS 3 / 4 - SEWER REHABILITATION CONSTRUCTION/CS

PROJECT SCHEDULE

General Description of Work Performed	Start Date	Completion Date
Construction Bid	Winter 2026	Spring 2026
Construction	Spring 2026	Spring 2027
Final Completion		Spring 2028

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF WESTWOOD, MASSACHUSETTS
FY25 / FY26 I/I REHABILITATION

MWRA PROJECT NO. WRA-P16-38-3-1616

SCOPE OF SERVICES

The purpose of this project is to identify and rehabilitate community subareas that contribute excessive I/I, evaluate rehabilitation options and rehabilitate the sewer system on a continuous set schedule. Project work will include, but not be limited to, the following:

FY25 / FY26 I/I Rehabilitation Construction: Sewer rehabilitation work will include, but not be limited to the following: heavy cleaning & CCTV of 1,490 LF of sewer mains; installing 1,930 LF of CIPPL in sewer mains; open cut spot repair of 20 LF; grouting one leak at service/joint; repairing (via full wrap) 12 lateral connections; cementitious lining of 140 VF of sewer manholes; rebuilding three (3) bench and inverts; re-setting/re-mortar 30 sewer manhole chimneys; grouting four (4) sewer manholes; and replacing four (4) sewer manhole frame & covers. Project work will be performed within Nahatan Street, the Lull-Loring-Hillview-Curtis neighborhood and Clapboardtree Street.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement For Engineering Services By and Between the Town of Westwood and Apex Companies, LLC and the approved MWRA I/I Local Financial Assistance Project Application received January 15, 2026.

Total project cost is estimated at $500,000 (Construction Cost = $372,050 / Construction Services Cost = $127,950). Eligible MWRA I/I Local Financial Assistance is $500,000. As a result of the above work, an estimated 0.02 mgd of peak infiltration will be removed from the collection system.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

TOWN OF WESTWOOD, MASSACHUSETTS
FY25 / FY26 I/I REHABILITATION

MWRA PROJECT NO. WRA-P16-38-3-1616

PROJECT SCHEDULE

Item	Start Date	Completion Date
Bid & Award	February 2026	March 2026
Rehabilitation Construction	April 2026	July 2026
Warrant Inspections	September 2026	October 2026

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
FINANCIAL ASSISTANCE AGREEMENT
ATTACHMENT A

MWRA PROJECT NO. WRA-P16-39-2-1613

TOWN OF WEYMOUTH

YEAR 13 I/I REHABILITATION DESIGN
YEAR 15 I/I INVESTIGATION- STUDY AND REPORTING

SCOPE OF SERVICES

The purpose of this project is to identify and rehabilitate community subareas that contribute excessive I/I, evaluate rehabilitation options, and rehabilitate the sewer system on a continuous set schedule. The location of this work will take place in sewer subareas B-5, B-6, D-2, and D-3. Project work will include, but not be limited to, the following:

Year 13 I/I Rehabilitation – Design/Bid and Award (Estimated Cost = $110,000)
The design Work will be based on the Year 13-investigation report and shall include, but not be limited to approximately: 4,500 LF of cleaning, inspecting, testing, and sealing of sewers; 6,500 LF of light cleaning and television inspection; 1,500 LF of heavy cleaning and TV inspection; 11,500 LF of CIPPL and structural CIPPL; root treatment of 1,000 LF of sewers and 20 manholes; installation of short liners and structural short liners at 11 locations; testing and grouting of six service laterals; installation of lateral liners at five locations; open cut point repair at seven locations; manhole cementitious lining at 66 locations; and replacement of 12 manhole frames and covers.

Year 15 I/I Investigation - Study and Reporting (Estimated Cost = $315,000)

1. Isolate flow in up to 58,600 LF of 6 to 15-inch sewer in subareas to quantify infiltration amounts within manhole-to-manhole segments of sewer. The inspection will occur between the hours of 12AM and 6AM during a high groundwater and dry weather period.

2. Perform light cleaning, TV inspection, and documentation of up to 58,600 LF of 6 to 15-inch sewer in subareas. The TV inspection will focus on identifying problem areas and I/I sources within manhole-to-manhole segments of sewer. The inspection will take place in the spring when groundwater levels are typically at their highest.

3. Conduct a topside physical survey of up to 335 sewer manholes in subareas to identify defects and I/I sources. A detailed written log will be provided for each manhole inspected.

4. Prepare a letter report outlining the areas where work was performed, summarizing completed tasks and offering recommendations. The report will include a cost-effectiveness analysis, prioritization analysis for rehabilitation of pipeline and manhole defects, and I/I sources identified during investigation, along with estimated construction costs.

Total project cost is estimated at $425,000. Eligible MWRA I/I Local Financial Assistance is 425,000. Project work will be performed pursuant to the terms, conditions detailed within the approved MWRA I/I Local Financial Assistance Project Application (received January 15, 2026), and the Agreements for Engineering Services by and between the Town of Weymouth, MA and Weston & Sampson Engineers, Inc. Infiltration will not be removed through this phase of the project. Infiltration will be removed during the construction phase of the project, tentatively scheduled for Summer 2026. Additional infiltration will be identified during this investigation.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
FINANCIAL ASSISTANCE AGREEMENT

ATTACHMENT B

MWRA PROJECT NO. WRA-P16-39-2-1613

TOWN OF WEYMOUTH

YEAR 13 I/I REHABILITATION DESIGN
YEAR 15 I/I INVESTIGATION- STUDY AND REPORTING

PROJECT SCHEDULE

General Description of Work Performed	Start Date	Completion Date
Year 13 (2026) Sewer System Infiltration Rehabilitation		
Design	February 2026	May 2026
Bid and Award	June 2026	
Year 15 Investigation		
Flow Isolation	March 2026	May 2026
Television Inspection	March 2026	May 2026
Manhole Inspections	March 2026	May 2026
Engineering Review/Update Database	June 2026	September 2026
Letter Report	October 2026	November 2026

MWRA I/I Local Financial Assistance Program Funding Summary

May 2026 Funding Cycle

Community	Funding Allocation
Boston	$11,517,678.00
Lexington	$2,103,000.00
Winchester	$1,237,000.00
Total	$14,857,678.00

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
MWRA PROJECT NO. WRA-P16-05-3-1619

SEWER REHABILITATION - ROSLINDALE AND WEST ROXBURY

BWSC CONTRACT NO. 22-309-001

SCOPE OF SERVICES

This project includes sewer replacement and rehabilitation which will result in infiltration & inflow removal from BWSC's sanitary sewer system. Project work under this contract includes the rehabilitation of approximately 47,740 LF of existing sewer pipes with structural lining, approximately 18 sewer point repairs, installation of 20 sewer manholes, and the performance of all other work pursuant to the terms and conditions detailed within the plans and specifications of BWSC Contract No. 22-309-001 and the approved MWRA I/I Local Financial Assistance Project Application received February 26, 2026.

Project work will take place on various streets in Roslindale and West Roxbury.

Total project cost is estimated at $5,418,750. Eligible MWRA I/I Local Financial Assistance is $5,084,568. The average annual infiltration and inflow reduction at contract completion is estimated to be 3.00 mgd.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
MWRA PROJECT NO. WRA-P16-05-3-1619

SEWER REHABILITATION - ROSLINDALE AND WEST ROXBURY

BWSC CONTRACT NO. 22-309-001

PROJECT SCHEDULE

Item	Start Date	Completion Date
Rehabilitation Design	March 2024	August 2025
Construction Rehabilitation	November 2025	April 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
MWRA PROJECT NO. WRA-P16-05-3-1620

SEWER REPLACEMENT AND REHABILITATION – ALLSTON / BRIGHTON

BWSC CONTRACT NO. 23-309-001

SCOPE OF SERVICES

This project includes sewer replacement and rehabilitation which will result in infiltration & inflow removal from BWSC's sanitary sewer system. Project work under this contract includes the rehabilitation of approximately 59,300 LF of existing sewer pipes with structural lining, approximately 52 point repairs, installation of 13 sewer manholes, and the performance of all other work pursuant to the terms and conditions detailed within the plans and specifications of BWSC Contract No. 23-309-001 and the approved MWRA I/I Local Financial Assistance Project Application received February 26, 2026.

Project work will take place on various streets in Allston / Brighton.

Total project cost is estimated at $6,433,110. Eligible MWRA I/I Local Financial Assistance is $6,433,110. The average annual infiltration and inflow reduction at contract completion is estimated to be 1.55 mgd.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
MWRA PROJECT NO. WRA-P16-05-3-1620

SEWER REPLACEMENT AND REHABILITATION – ALLSTON / BRIGHTON

BWSC CONTRACT NO. 23-309-001

PROJECT SCHEDULE

Item	Start Date	Completion Date
Rehabilitation Design	March 2024	August 2025
Construction Rehabilitation	April 2026	November 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

MWRA PROJECT NO. WRA-P16-17-3-1621

TOWN OF LEXINGTON

Phase 11 sewer Rehabilitation and Phase 17 SSES

SCOPE OF SERVICES

This project includes multiple phases within the Town of Lexington's ongoing Sewer System Improvement Program. The objective of this project is to rehabilitate community sewer basins that contribute excessive I/I to the sanitary sewer system. The project areas are primary located within Lexington Sewer Basins 09 and 12. Project work will include the Phase 11 Sewer Rehabilitation project and the Phase 17 Sewer System Evaluation Survey (SSES).

The Phase 17 Sewer System Evaluation Survey is an I/I investigation project. The objective of this project is to identify and quantify I/I present within Sewer Basin 12. This project is part of the investigation and reporting phase of the program. SSES project work will include, but not be limited to: flow isolation of 72,000 LF of sewers; TV inspection of 81,000 LF of sewers; manhole inspections of 420 sewer manholes; and database development and reporting of all results found.

The Phase 11 Sewer Rehabilitation is a construction project that will remove I/I through the rehabilitation of sewer manholes and pipeline sections. The proposed work is to be performed in Lexington's Sewer Basin 09. Construction work will be based on the Phase 11 Design. Project work will include but not be limited to: cleaning and inspection of 13,280 LF of sewers; testing and sealing of 5,317 LF of sewers and 855 joints; installation of cured-in-place-pipe (CIPP) in 10,117 LF of sewers; reinstating 155 service connections; installation of CIPP lateral liners in 13 services and CIPP short liners in 52 LF of sewers; grouting of 28 service connections; performing open cut repairs in 11 locations; installing 3 sewer manholes; installing cementitious lining in 386 VF of manholes; installing 5 inflow dishes; rebuilding 3 manhole inverts; replacing 5 manhole frame and covers; and inspecting 53 sewer manholes.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement For Engineering Services By and Between the Town of Lexington and Weston & Sampson Engineers, Inc. and the approved MWRA I/I Local Financial Assistance Project Application received April 15, 2026. Total project cost is estimated at $2,139,100. Eligible MWRA I/I Local Financial Assistance is $2,103,000 (Phase 17 SSES Cost = $412,500 / Phase 11 Design & Construction Services = $350,000 / Phase 11 Construction Cost = $1,340,500). As a result of the above work, an estimated 0.03 mgd of peak infiltration will be removed from the collection system.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

MWRA PROJECT NO. WRA-P16-17-3-1621

TOWN OF LEXINGTON

Phase 11 Sewer Rehabilitation and Phase 17 SSES

PROJECT SCHEDULE

Description of Work	Start Date	Completion Date
Phase 17 SSES	April 2026	December 2026
Phase 11 Design / Bid	April 2026	June 2026
Phase 11 Rehabilitation Construction	July 2026	August 2027

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT A
FINANCIAL ASSISTANCE AGREEMENT

PROJECT NO. WRA-P16-41-3-1618

TOWN OF WINCHESTER

CIP Project 2 Sewer Rehabilitations

SCOPE OF SERVICES

The purpose of this work is to identify and rehabilitate community sewers that contribute excessive I/I, evaluate rehabilitation options and rehabilitate the sewer system on a continuous set schedule. This project is part of the Town's East Side Sanitary Sewer Capital Improvement Program.

The objective of CIP Project 2 Sewer Rehabilitations is to design and construct rehabilitations identified during the CIP Project 2 sanitary sewer evaluation surveys (SSES to be completed in Spring 2026).

The project design will be based on results found in the CIP Project 2 SSES and allow the town to perform as many rehabilitations as possible within the proposed project budget. The CIP Project 2 SSES included the investigation of approximately 99,200 LF of sewers and 503 manholes. The design work will include, but not be limited to: open cut point repairs of sanitary sewers, cleaning and lining of sewers, rehabilitation of sewer manholes, post-construction flow isolations, and other related tasks in the Town of Winchester. The CIP Project 2 construction is anticipated to eliminate infiltration and inflow from the sanitary sewer system and repair structural defects.

The above work will be performed pursuant to the terms and conditions detailed within the Agreement For Engineering Services By and Between the Town of Winchester and Weston & Sampson, Inc. and the approved MWRA I/I Local Financial Assistance Project Application received January 27, 2026. The total project cost is estimated at $1,237,000. Eligible MWRA I/I Local Financial Assistance is $1,237,000 (Design = $200,000; Engineering Construction Services = $200,000; Construction Rehabilitations = $837,000). An estimated quantity of infiltration and inflow removal will be determined at the completion of the CIP Project 2 SSES and design.

MWRA I/I LOCAL FINANCIAL ASSISTANCE PROGRAM
ATTACHMENT B
FINANCIAL ASSISTANCE AGREEMENT

PROJECT NO. WRA-P16-41-3-1618

TOWN OF WINCHESTER

CIP Project 2 Sewer Rehabilitations

PROJECT SCHEDULE

Description of Work	Start Date	Completion Date .
Design	April 2026	May 2026
Bid / Award	May 2026	June 2026
Construction	July 2026	December 2026
Warranty Retest	Fall 2027	Spring 2028

ATTACHMENT 5
TO
MWRA ANNUAL I/I REDUCTION REPORT FOR FY26
Reporting Period: July 2025 Through June 2026

I/I REDUCTION STATUS UPDATE FOR MEMBER COMMUNITIES

The MWRA is working cooperatively with member communities to develop phased I/I reduction programs throughout the service area. The Authority will encourage continuing community efforts in I/I reduction as detailed in the MWRA Regional I/I Reduction Plan. Many community I/I projects are funded through MWRA's I/I Local Financial Assistance Program. This $1.086 billion grant/loan program was established to provide funding to member sewer communities to perform I/I reduction and sewer system rehabilitation projects within their locally-owned collection systems. Through FY26, MWRA has distributed $633 million to fund local projects. A detailed update on MWRA's I/I Local Financial Assistance Program is included as Attachment 4 to this report.

The Authority distributes a computer-based questionnaire format for communities to submit annual status reports on their I/I reduction programs. All 43 member sewer communities have submitted information to MWRA for FY26. Community information is summarized below:

1. ARLINGTON: North System

Background Information:
- Miles of Sewer: 117
- Sewered Population: 47,074
- Three Year (CY23 - CY25) Annual Average I/I: 2.35 mgd
- MassDEP Administrative Actions Since 2010: ACOP-NE-10-1N006 (August 2010)

Latest I/I or SSES Reports:
Phase #12 Sanitary Sewer Rehabilitation - Post Rehabilitation Flow Evaluation (July 2022)
Phase #13 Sanitary Sewer Rehabilitation - Post Rehabilitation Flow Evaluation (July 2023)
Phase #14 Sanitary Sewer Rehabilitation - Post Rehabilitation Flow Evaluation (July 2024)
Phase #15 Sanitary Sewer Rehabilitation - Post Rehabilitation Flow Evaluation (July 2025)
Phase #16 Sanitary Sewer Rehabilitation - Post Rehabilitation Flow Evaluation (July 2026)
East End Sewer Cleaning and Investigation Project (Ongoing)

Private Source Inflow Removal Program: The Town is working with DEP to develop a new schedule to complete this Private Inflow Abatement task, including the remaining building inspections. Work completed through 6/28/23 includes: 2308 of the planned 3420 buildings (67% for this project phase) have been internally inspected for illicit connections to the sanitary sewer. Forty-one (41) positive inflow sources (sump pumps / basement drains / open sewer cleanouts) at 38 locations have been identified. One hundred forty-five (145) suspect inflow sources (sump pumps / basement drains / open sewer cleanouts) at 141 locations have been identified. The Town paired the remaining building inspections with a Water Meter Replacement Program to obtain a higher percentage of building entries. Building inspections are in progress. Dye testing investigation of the private inflow sources was performed in Spring 2024. Dye testing is ongoing, pending additional building inspections for properties that still need to be accessed.

I/I Rehabilitation Projects in Design or Construction:
The Phase #17 Sanitary Sewer Rehabilitations design is in progress, expected to be completed in 2026.
The Phase #16 Sanitary Sewer Rehabilitations - Bid No. 24-39 was substantially completed in June 2025.

Reporting Period Activity: The warranty inspections for the Phase #16 Sanitary Sewer Rehabilitations - Bid No. 24-39 were completed in May 2026. The Phase #16 Post Construction Flow Evaluation Report will be completed in July 2026.
The Phase #17 Sanitary Sewer Rehabilitations design is in progress, expected to be completed in 2026.
The East End Sewer Cleaning and Investigation Project is ongoing. Light cleaning and inspection was performed in June 2026. CCTV data is being evaluated to assess heavy cleaning needs. Heavy cleaning is expected to be performed in 2026, with a final report to follow. The warranty inspections for the Phase #15 Sanitary Sewer Rehabilitations - Bid No. 23-50 were completed in June 2025. The Phase #16 Sanitary Sewer Rehabilitations - Bid No. 23-50 was substantially completed in July 2025. In March

2025, funds ($697,100) were distributed for the Phase #17 Sanitary Sewer Rehabilitation Design & Construction Project and Phase #15 Post- Construction Flow Evaluation (MWRA Project No. WRA-P14-01-3-1443). In March 2024, funds ($800,000) were distributed for the Phase 16 Sewer System Rehabilitation Construction Project and Phase #14 Post Construction Flow Evaluation (MWRA Project No. WRA-P11-01-3-1428).

MWRA I/I Local Financial Assistance Program: The community has financed thirty (30) I/I reduction projects through the Authority's funding assistance program. Of the $19,408,000 allotted through the Program's Phases 1 - 16, the community has $5,695,000 remaining in funding assistance.

2. ASHLAND: South System

Background Information:

- Miles of Sewer: 78
- Sewered Population: 15,200
- Three Year (CY23- CY25) Annual Average I/I: 0.54 mgd
- MassDEP Administrative Actions Since 2010: Admin. Order Docket No. 594 (November 1985)

Latest I/I or SSES Report: I/I Analysis Report: (July 2020)
SSES Initial Phase Report: (July 2020)
Smoke & Dye Testing Report: August (October 2020)
Inflow Removal Recommendations Report: (July 2023)

Private Source Inflow Removal Program: The Town is performing sump pump inspection in basements during meter change outs. Through this process we have done 233 sump pump inspections in 2025. In addition, a sump pump inspection line item was added to the ongoing Sewer Rehabilitation (I/I) program that began this May. The Town is in the process of sending out letters to the homeowners of the identified locations to remove private inflow sources. The Town is also performing sump pump inspections on all meter change outs.

I/I Rehabilitation Projects in Design or Construction: In December 2025, MWRA funds were distributed for the 3 yr sewer rehabilitation project in Ashland Sub-Basins 2-4 (MWRA Project No. WRA-P16-02-3-1607). Project work is ongoing. Details of this project are included in Attachment 4.
In May 2024, MWRA funds were distributed for an I/I Rehabilitation Project in Ashland Sub-Basins1-4 and Weir Gauging Study (MWRA Project No. WRA-P14-02-3-1432). Project work is ongoing.

Reporting Period Activity: In May 2026, the Town conducted mainline CCTV inspections of the sewer system. In June 2026, the Town inspected manholes for rehabilitation and initiated maintenance on the Smart Cover monitoring system to address battery and communication alerts.
There are several housing projects that are in various stages (from conceptual to site plan review). The Town is in the process of continuously updating the status of the sewer capacity for the Bracket Road and the Chestnut Street pump stations. Mitigation will be discussed with these potential developments when the time comes.
In February 2025, the Town completed the installation of 10 sewer flow meters. Since then, the Smart Cover system has been monitoring for signs of I/I. So far, no significant signs of I/I have been detected in the areas where the flow meters have been placed. In May of 2025 the Town kicked off its Sewer Rehabilitation Project by beginning to CCTV areas of suspected I/I in Sub-Basin 1. We anticipate that by the end of July 2025 approximately 40,000 ft of sewer main will be CCTV-ed. The new Chestnut Pump Station pumps will be installed in July of 2025.

MWRA I/I Local Financial Assistance Program: The community has financed eleven (11) I/I reduction projects through the Authority's funding assistance program. Of the $5,579,500 allotted through the Program's Phases1-16, the community has $1,267,640 remaining in funding assistance.

3. BEDFORD: North System

Background Information:

- Miles of Sewer: 77
- Sewered Population: 14,569
- Three Year (CY23 - CY25) Annual Average I/I: 1.14 mgd
- MassDEP Administrative Actions: None

Latest I/I or SSES Report: Phase #6 Sewer System Investigation (May 2022)
Phase #7 Flow Isolation (July 2026)
CIP Project 1 Flow Metering (July 2026)
CIP Project 1 SSES (July 2026)

Private Source Inflow Removal Program: The Town identified 50 sump pumps during their Phase #5 Sewer System Investigation and plans on designing a project for removing the sump pumps connected to the sewer system. Sump pump connections in nine (9) apartment buildings were disconnected from the Town's sewer and rerouted to overland flow.

I/I Rehabilitation Projects in Design or Construction: The Middlesex Turnpike Pump Station rehabilitation is complete. The Middlesex Turnpike Pump Station Force Main Extension project was on hold from September 2025 to June 2026 and construction is anticipated to be completed in Fall 2026.

Reporting Period Activity: The CIP Project 1 Metering & SSES project was completed in July 2026. The metering program was used in conjunction with the Phase #7 Flow Isolation results to develop a Sewer System Capital Improvement Program. The CIP Project 1 Flow Metering (town-wide) identified approximately 1.74 mgd of peak infiltration and 2.86 mgd of peak inflow was projected for the 1-year, 6-hour design storm.

MWRA I/I Local Financial Assistance Program: The community has financed ten (10) I/I reduction projects through the Authority's funding assistance program. Of the $7,955,600 allotted through the Program's Phases 1 - 16, the community has $4,846,442 remaining in funding assistance.

4. BELMONT: North System

Background Information:

- Miles of Sewer: 76
- Sewered Population: 27,078
- Three Year (CY23 - CY25) Annual Average I/I: 1.48 mgd
- MassDEP Administrative Actions: None

Latest I/I or SSES Report: 2024 Storm Drain CCTV Evaluations Outfall 1 (August 2024)
2024 Flow Monitoring Program (December 2024)
SSES, CY2025 Sewer Investigation (November 2025)
2026 Storm and Sewer CCTV Evaluations in Outfall 2 (Ongoing)

Private Source Inflow Removal Program: As part of the on-going IDDE Program, the property inspections related to Outfall 2 are ongoing. As part of the IDDE Program catchment investigations, 35 properties were identified for investigation using dye testing. As a result, seven (7) locations were identified as the source of either direct inflow and/or infiltration from house fixtures. Contact with the homeowners is underway to require removal of direct inflow and replacement of sewer service conditions to address infiltration to adjacent storm drain infrastructure. Once the required disconnection and improvements are made and confirmed an IDDE Report will issued.
The Private Sector Sump Pump Removal & Sewer System Rehabilitation Project is complete. 24 of 28 identified sump pumps connected to the sewer system were removed and redirected to a separate drain service to the storm drain. The 4 remaining sump pumps were inspected and were confirmed to have no sump pump connected to the sewer system.

I/I Rehabilitation Projects in Design or Construction: As a result of the CY2025 Investigations, Weston & Sampson will be tasked with the preparation of sewer rehabilitation design plans, to include administration and coordination of MWRA Financial Assistance Request, Project Bid & Award and associated Construction Services.

Reporting Period Activity: The CY2025 Sewer Investigation was completed. The investigation identified 71,293 gpd of removable infiltration and 72,838 of removable inflow to be addressed through an upcoming construction project. Design and construction are expected to be performed in 2027. This investigation work was performed by Weston & Sampson and inspected and evaluated 52,000 LF of sewer main and 260 sewer manhole structures in five (5) sewer tributary zones.

MWRA I/I Local Financial Assistance Program: The community has financed eight (8) I/I reduction projects through the Authority's funding assistance program. Of the $11,690,100 allotted through the Program's Phases 1 - 16, the community will have $6,555,000 remaining in funding assistance.

5. BOSTON: North and South Systems

Background Information:

- Miles of Sewer: 854
- Sewered Population: 673,458
- Three Year (CY23 - CY25) Annual Average I/I: 32.26 mgd
- MassDEP Administrative Actions: None (Cooperative Agreement Exists)

Boston North is one of MWRA's five combined sewer service communities (Boston North, Brookline, Cambridge, Chelsea and Somerville). Portions of Boston North are impacted by projects under MWRA's CSO Control Plan.

Latest I/I or SSES Reports: Charlestown SSES; West Roxbury/Hyde Park SSES; Jamaica Plain SSES; Allston-Brighton SSES; Mattapan SSES; City-Wide I/I Analysis; Roslindale SSES; Dorchester SSES; West Roxbury Low Level Sewer I/I Study; Roxbury Canal Sewer Separation Study; Upper Neponset Valley Sewer Inflow Survey; Granite Avenue I/I Survey; Dorchester High Level Sewer I/I Survey; Lower Dorchester Brook Sewer Study; and Longwood Medical Area I/I Survey.

Private Source Inflow Removal Program: Since the Downspout Disconnection Program began in 1994, approximately 38,000 building surveys have been conducted, approximately 10,520 dye tests have been performed and approximately 26,466 downspouts have been disconnected City-wide. From CY05 - CY23, a total of seventy-five (75) large impervious areas were surveyed to identify inflow sources. All seventy-five (75) areas have been dye tested.

I/I Rehabilitation Projects in Design or Construction: BWSC has both completed and is currently working on a wide variety of separation and I/I identification/rehabilitation projects. To date, ninety-four (94) I/I identification/rehabilitation projects have received funding through the MWRA I/I Local Financial Assistance Program [Projects include fifty (50) sewer separation projects, five (5) downspout disconnection projects, nineteen (19) sewer system rehabilitation projects and twenty (20) Sewer System Evaluation Surveys / Planning Studies.]

From FY07 - FY26, BWSC completed the following MWRA-financed I/I rehabilitation projects: Upper Roxbury Area Sewer Separation Phase III; East Boston Sewer Separation Phase 2/3; South Boston Sewer Separation - Phase I, East Boston Sewer Separation Phase I; Upper Roxbury Area Sewer Separation Phase 2; Dudley Square Sewer Separation; Fairfield Street Sewer Rehabilitation; Rehabilitation of Sewers in the Fenway (Audubon Circle / St. Mary's Street Area); A Street Area Sewer Separation (South Boston Gillette Headquarters); Mass Ave - Dorchester Separation (New Market Square Area); East Boston (Border/ Meridian Street Area) Sewer Separation; Sewer Rehabilitation in Back Bay/Kenmore/Hyde Park/Mattapan; Albany Street Sewer Separation; Sewer Rehabilitation in Dorchester/Mattapan/West Roxbury/Brighton; Talbot Avenue High Level Sewer Area Sewer Replacement/Manhole Rehabilitation; South End Sewer Rehabilitation; Marginal Street Sewer Separation; St. Botolph Street Sewer Separation; Maverick Street Sewer Separation; West Side Interceptor and Public Garden Lining; Back Street Sewer Separation and Chester Park Area Sewer Separation.

Ongoing I/I rehabilitation projects (funded through the MWRA I/I Local Financial Assistance Program) include: Sewer Replacement and Rehabilitation – Allston /Brighton (BWSC Contract No. 23-309-001 / MWRA Project No. WRA-P16-05-3-1620); Sewer Rehabilitation – Roslindale and West Roxbury (BWSC Contract No. 22-309-001 / MWRA Project No. WRA-P16-05-3-1619); Replacement and Rehabilitation of Sewers (BWSC Contract No. 20-309-007 / MWRA Project No. WRA-P16-05-3-1608), City-Wide Sewer Rehab (BWSC Contract No. 20-309-004 / MWRA Project No. WRA-P14-05-3-1447); and South End Sewer Rehabilitation (WRA-P14-05-3-1419).

BWSC entered into an I/I reduction agreement with the MassDEP in January 1986. As provided in the agreement, BWSC has performed a Phase II SSES on separated sewer areas within the City. BWSC also has an ongoing tide gate/regulator inspection and repair program and performs separation projects on pockets of combined sewers tributary to separated sewer areas.

Reporting Period Activity: BWSC is required to report to the EPA on I/I reduction measures under their NPDES permit. This reporting requirement coincides with the MWRA's required submittal dates; therefore, please refer to the BWSC NPDES report for a summary of activities during this period.

MWRA I/I Local Financial Assistance Program: The Commission has financed ninety-four (94) I/I identification/reduction projects through the Authority's funding assistance program. Of the $309,135,200 allotted through the Program's Phases 1 - 16, the Commission has $159,164,197 remaining in funding assistance.

6. BRAINTREE: South System

Background Information:

- Miles of Sewer: 140
- Sewered Population: 39,062
- Three Year (CY23 - CY25) Annual Average I/I: 3.52 mgd
- MassDEP Administrative Actions: ACO Docket No. CWA-AO-R01-FY22-14 (Issued on September 2022)

Latest I/I or SSES Report: Smoke Testing 2023 (April 2024)
Collection System Modeling (February 2025)
Annual I/I Removal Program, Year 12 (February 2025)
Pump Station Evaluations (September 2025)
Collection System Capacity Assessment (August 2025)
Annual I/I Removal Program, Year 13 (December 2025)

Private Source Inflow Removal Program: The Town continues to perform building inspections in conjunction with water meter changeouts. A contract for a pilot building inspection program for summer/fall 2026 has been executed.

Sump pump removal program is ongoing. Ten (10) private source sump pump removal contracts have redirected 296 sump pumps to date. The Developer Flow Reduction Program is now 6 to 1 per MassDEP ACO.

I/I Rehabilitation Projects in Design or Construction: Year 13 I/I Rehabilitation and Year 14 I/I Investigation - Study (MWRA Project Nos. WRA-P16-06-3-1614 & WRA-P16-06-1-1615) were funded March 2026. Year 12 I/I Rehabilitation and Year 13 I/I Investigation - Study (MWRA Project Nos. WRA-P14-06-3-1444 & WRA-P14-06-1-1445) were funded March 2025.

Reporting Period Activity: The Sewer System Rehabilitation – Year 11 project has been completed. The Year 11 project is estimated to have removed 38,590 gpd of peak infiltration from the Town's sewer system.
The Sewer System Rehabilitation – Year 12 project is ongoing. An I/I reduction will be estimated when the project reaches substantial completion.
The Annual I/I Removal Program, Year 13 Investigation was completed in Spring 2025. Approximately 57,168 gpd of peak infiltration was observed during television inspections and 145,760 gpd of peak infiltration was measured through flow isolation. In addition, approximately 9,504 gpd of peak infiltration and 21,600 gpd of inflow was identified during manhole inspections.
Field work for the Annual I/I Removal Program, Year 14 Investigation was completed in Spring 2026. Evaluation of the data is ongoing.

MWRA I/I Local Financial Assistance Program: The community has financed twenty-four (24) I/I reduction projects through the Authority's funding assistance program. Of the $20,901,000 allotted through the Program's Phases 1 - 16, the community has $6,472,000 remaining in funding assistance.

7. BROOKLINE: North and South Systems

Background Information:

- Miles of Sewer: 110
- Sewered Population: 63,865
- Three Year (CY23 - CY25) Annual Average I/I: 2.77 mgd
- Mass DEP Administrative Actions: None

Brookline is one of MWRA's five combined sewer service communities (Boston North, Brookline, Cambridge, Chelsea and Somerville). Portions of Brookline are impacted by projects under MWRA's CSO Control Plan.

Latest I/I or SSES Report:

Wastewater Master Plan Update (December 2013)
Sewer Condition Survey in Subareas NI-9, NI-10 & NI-11 Technical Memo (September 2014)
2018 Smoke Testing Phase 1 Summary Report (Subareas NI-4, NI-5, NI-7, NI-8 & NI-9)
2020 Smoke Testing Phase 2 Summary Report (Subareas NI-7 & NI-12)
2024 Smoke Testing Phase 3 Summary Report (complete)

Private Source Inflow Removal Program: The Town is working on the exact policy for removal private inflow sources in our sewer use regulations that still needs Town meeting approval. The Towns long term plan is to CIPP all the public sewer mains and epoxy line all public SMH's in the Town. After the Town has completely rehabilitated its sewer system in a particular basin, the Town will then address suspected private inflow sources.

I/I Rehabilitation Projects in Design or Construction: In March 2026, MWRA funds were distributed for the following project: CIP Project 3/4-Sewer Rehabilitation Construction (MWRA Project #WRA-P16-07-3-1612). Project Work is ongoing. Details of this project are included in Attachment 4.
In February 2025, MWRA funds were distributed for the following project: Design & Construction of Recommended Sewer Rehabilitations in Sewer Subarea NI-6 East & Larz Park. (MWRA Project #WRA-P14-07-3-1441). Project Work is ongoing.
In December 2023, MWRA funds were distributed for the following project: Design & Construction of Recommended Sewer Rehabilitations in Sewer Subareas NI-6. (MWRA Project #WRA-P14-07-3-1420). Project Work is ongoing.
In December 2022, MWRA funds were distributed for the following project: Design & Construction of Recommended Sewer Rehabilitations in Sewer Subareas NI-12. (MWRA Project #WRA-P14-07-3-1403). Project Work is ongoing.

Reporting Period Activity: PW/23-21 Sewer System Rehabilitation (CIPP) has been completed and closed out. PW/23-22 Epoxy Lining of SMH's. PW/24-18 Sewer System Rehabilitation (CIPP) is 90% complete and in closeout stage. PW/24-19 Epoxy Lining of SMH's is 80% completed.
The Town awarded and executed PW/26-07 Sewer System Rehabilitation (CIPP) to Insituform Technologies, and the project is 90% completed. The Town also awarded and executed PW/26-07 Epoxy Lining of SMH's; project is 20% completed.
The Town is reviewing few large approved large developments, but none are near construction stage yet.

MWRA I/I Local Financial Assistance Program: The community has financed fourteen (14) I/I reduction projects through the Authority's funding assistance program. Of the $29,698,200 allotted through the Program's Phases 1 - 16, the community has $5,331,000 remaining in funding assistance.

8. BURLINGTON: North System

Background Information:

- Miles of Sewer: 117
- Sewered Population: 26,816
- Three Year (CY23 - CY25) Annual Average I/I: 1.74 mgd
- MassDEP Administrative Actions Since 2010: ACO-NE-15-1N001 (October 2015)

Latest I/I or SSES Reports:
Project 9 SSES (September 2019)
Project 10 SSES (February 2021)
Project 11 SSES (December 2021)
Project 12 SSES (January 2025)
Town-Wide Sewer Flow Metering (Ongoing)

Private Source Inflow Removal Program: The Town attempted to inspect 38 Amnesty List properties to identify improper connections to the sanitary sewer system. Twenty (20) of the 38 house-to-house inspections were performed. A work summary memorandum (dated December 2, 2021) details the results of the inspections.

I/I Rehabilitation Projects in Design or Construction: Middlesex Turnpike Sewer Replacement Project was substantially completed May 2026. The project was estimated to remove approximately 40,000 gpd of peak infiltration.
Project 12 and 13 Sewer Rehabilitations were funded in 2025. The Design phase will begin in 2026.
Project 10 and 11 Sewer Rehabilitations warranty retest inspections were completed Spring 2024. The project removed an estimated 37,904 gpd of cost effective, value effective and non-excessive recommended peak infiltration.

Reporting Period Activity: In August 2025, funds were distributed for the Middlesex Turnpike Sewer replacement project and design of sanitary sewer rehabilitations in the Project 12 & 13 Areas and SSES in the Project 13 Area. (MWRA Project No. WRA-P16-08-3-1602). Project is ongoing.
The Town's sewer connection fund balance (5 for 1 sewer connection fee), excluding encumbrances, is $2,206,868.82.

MWRA I/I Local Financial Assistance Program: The community has financed sixteen (16) I/I reduction projects through the Authority's funding assistance program. Of the $12,215,800 allotted through the Program's Phases 1 - 16, the community has $2,261,000 remaining in funding assistance.

9. CAMBRIDGE: North System

Background Information:

- Miles of Sewer: 147
- Sewered Population: 121,164
- Three Year (CY23 - CY25) Annual Average I/I: 10.28 mgd
- Mass DEP Administrative Actions Since 2010: None

Cambridge is one of MWRA's five combined sewer service communities (Boston North, Brookline, Cambridge, Chelsea and Somerville). Portions of Cambridge are impacted by projects under MWRA's CSO Control Plan.

Latest I/I or SSES Reports:
Partial Sewer Separation Model Calibration Report (March 2022)
Ten-Year Sewer and Drain Infrastructure Plan (April 2022)
Hampshire Street Area Flow Metering (November 2022)
Kirkland Area I/I Analysis (Nov 2025)
Draft CSO Control Plan (April 2026)
Sewer Separation Master Plan (In Progress)

Private Source Inflow Removal Program: The City conducted inspections of 200 buildings over the past year. Sewer lateral at 3 Gray Gardens West was lined in June 2025. Remaining unlined section of lateral (~17ft) was lined in March 2026 and the leaking sewer lateral was resolved. Healy Street test pits and Hemlock St sewer rehabilitation are outstanding. Repair/rehabilitation of leaking laterals for 18 and 27 Fainwood Circle, 18 Corcoran Lane, are outstanding. Sanitary lateral defects were identified at 27 Normandy Terrace and 1/3 Normandy Ave. City to relay laterals under the Normandy/Loomis Sewer Repair Project (Item 5) .
Concord Ave (near #795) defects in City sewer identified in March 2026 from dye tests of #795. To be televised and lined in 2026.

Potential leaking lateral at 95 Mount Auburn Street. Further investigation required.

The City continues to work with developers on I/I removal projects triggered by increased sewer flows greater than 15,000 gpd on new development projects. I/I removal projects and project planning that are currently in progress for developments at: Volpe Center Redevelopment (55 Broadway), Walden Square 2, CHA Jackson Place, 28-30 Wendall Street (affordable housing), 330 Third Street (formerly 585 3rd Street), HealthPeaks Properties (Mooney Street), 1826-1840 Mass Ave (affordable housing).

I/I Rehabilitation Projects in Design or Construction:

- CambridgeSide redevelopment (600-110 First Street): Land Boulevard/First Street Sewer Separation construction complete. (Estimated I/I removal: 373,450 gpd)
- Rindge/Haskell/Yerxa infiltration and Peabody School private inflow removal. In design, estimated construction start 2027 and estimated construction completion 2028 (estimated I/I removal 269,256 gal)
- River Street Infrastructure Project: sewer replacement on Blackstone and River Streets and Blackstone Street separation completed in 2025: Estimated construction completion Spring 2027 (Estimated I/I removal: 0.28 MG);
- Port Phase 2 Infrastructure Improvements: construction in progress, sewer rehabilitation/replacement, inflow removal, and green infrastructure. Estimated construction completion Summer 2029 (Estimated I/I removal: 0.57 MG);
- Chapter 90 Contract 26A (Gray Street, Haskell Street, and Kirkland Road infiltration, Norfolk Street common manhole separation); construction start Summer 2026. (Estimated I/I removal: TBD)
- Chapter 90 Contract 26B (Avon Hill and Shepard Street infiltration); under design, estimated construction start 2027.(Estimated I/I removal: TBD)
- Normandy Terrace/Loomis Sewer Repair: under design, estimated construction start by late 2026.
- Inman Street Common Manhole Separation: under design, estimated construction start 2027 (Estimated I/I removal: TBD)
- Kirkland Street Area Common Manhole Separation: under design, estimated construction start Fall 2026 (Estimated I/I removal: TBD)
- Wadsworth Street Inflow Investigations – in progress, dye testing to identify inflow sources, (Estimated I/I removal: TBD)

Reporting Period Activity: In FY 2026, the City cleaned and CCTV'd approximately 104,868 LF of sanitary and combined sewers.
In FY 2026, the City lined approximately 8,470 LF of sanitary and combined sewers and 310 LF of storm drains.
Remedial Repair – In FY2026, the City's Remedial Repair Contractor has made various repairs to the City's sewer and drain system at 142 locations. Theses repairs consist primarily of spot repairs on mainline pipes, replacing manhole frames and covers and replacement of catch basins.

Port Sanitary Sewer Storage Tank and Pumping Station design is currently on hold. A new sanitary sewer force main will also be constructed on Windsor Street, discharging to Portland Street. Estimated construction completion in 2033.
The Tobin Montessori Vassal Lane Upper School - Stormwater Storage Tank was completed in October 2025. The stormwater storage tank is intended to improve storm level of service for the most upstream portion of the former CAM004 catchment (approximately 200 acres), especially at the Standish Street/Vassal Lane intersection and low-lying areas near Concord Avenue. There is no I/I removal requirement for this project.
As part of the River Street reconstruction a new drain extension will be constructed on River Street between Massachusetts Avenue and Cottage Street. Estimated construction completion in 2027.
City of Cambridge Cemetery sanitary sewer pump station and force main construction is expected to be completed by Spring 2027.
Sherman Street CSO Storage Tank is currently in preliminary design. The conceptual design includes a 2.1MG CSO storage tank located at 135 Sherman Street. Estimated construction start in late Fall 2027.

MWRA I/I Local Financial Assistance Program: The community has financed eleven (11) I/I reduction projects through the Authority's funding assistance program. Of the $57,507,100 allotted through the Program's Phases 1 - 16, the community has $28,677,000 remaining in funding assistance.

10. CANTON: South System

Background Information:

- Miles of Sewer: 87
- Sewered Population: 17,641
- Three Year (CY23 - CY25) Annual Average I/I: 2.02 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: I/I Management Plan (MassDEP) (June 2018)
I/I Study (June 2022)
Flow Isolation and CCTV Inspection Program (December 2022)
Design and bid Phase II I/I project (July 2025)
Design Phase III I/I project (Spring 2026)

Private Source Inflow Removal Program: No additional inspections were reported during this period. Town has established an I/I Mitigation Fee for all new connections. Fee is paid based upon MassDEP flow rates at a 4 to 1 ratio.

I/I Rehabilitation Projects in Design or Construction: In November 2025, funds ($1,058,210) were distributed for Subarea 22 & 16 Infiltration Rehabilitation – Study / Design / Construction (MWRA Project No. WRA-P16-10-3-1605).
Sewer System Rehabilitation will be performed within Sewer Subsections 22 & 16. Project work includes: CCTV inspection of approximately 4,250 LF of sewer mains; CIPP rehabilitation of approximately 8,800 LF of 8-inch through 15-inch diameter sewer main and rehabilitation of approximately 65 sewer manholes.

Reporting Period Activity: Completing Phase II infiltration rehabilitations as described above (Project #1605). Details of this project are included in Attachment 4.

Flow Isolation and CCTV Inspection Program work complete (MWRA Project No. WRA-P11-10-2-1188). Field work was completed in June 2022 and included flow isolation of approximately 112,000 LF of gravity sewer within priority Canton sewer Sub-areas 7 / 16 / 18 / 22 / 24 / 27 and CCTV inspection of approximately 23,000 LF of gravity sewer. Summary Report recommendations completed December 2022. In March 2023, Town completed audit/review of 2020-2021 CCTV video (performed by Town CCTV vehicle) to determine condition assessment and PACP rating of pipe segments viewed. The results of the work will be incorporated into the FY21 Asset Management project work and will be evaluated further for potential I/I rehabilitation work.

MWRA I/I Local Financial Assistance Program: The community has financed ten (10) I/I reduction projects through the Authority's funding assistance program. Of the $9,701,900 allotted through the Program's Phases 1 - 16, the community has $4,179,440 remaining in funding assistance.

11. CHELSEA: North System

Background Information:

- Miles of Sewer: 42
- Sewered Population: 40,245
- Three Year (CY23 - CY25) Annual Average I/I: 3.55 mgd
- MassDEP Administrative Actions since 2010: NON #00004520 – May 10, 2018 Failed to submit I/I Analysis due 12/31/17.
- EPA Clean Water Act Administrative Order: EPA Docket No. 09-008 (March 2009)

Chelsea is one of MWRA's five combined sewer service communities (Boston North, Brookline, Cambridge, Chelsea and Somerville). Portions of Chelsea are impacted by projects under MWRA's CSO Control Plan.

Latest I/I or SSES Report: City-Wide Sewer Separation Master Plan (April 2020)
Broadway Sewer Separation [Preliminary Design Report] (December 2020)
Stormwater Management Plan (SWMP) 2021 (June 2021)
Chelsea Stormwater Outfall Monitoring Report (January 2023)

Private Source Inflow Removal Program: The City began collecting Sewer Bank fees for redevelopment projects in CY13. Local I/I Mitigation Fees are assessed for new developments and redevelopment projects at a rate of $10.30/gpd. The City has also

undertaken a move toward the implementation of Green vs. Gray infrastructure to reduce the amount of stormwater discharged to its combined sewers. Efforts to date have included requiring all redevelopment projects to utilize Low Impact Development and retain/infiltrate stormwater onsite, along with incorporating green infrastructure into municipal projects (e.g., the Rain Garden at the Mace Housing Complex).

I/I Rehabilitation Projects in Design or Construction: In March 2024, MWRA funds were distributed for the following project: Downtown Broadway Utility Improvements Project. (MWRA Project # WRA-P14-11-3-1429).
In August 2021, MWRA funds were distributed to support the Central Avenue, Willow Street and Watts Street Utility Improvement Project (MWRA Project No. WRA-P11-11-3-1175). Central Avenue is still ongoing.

Reporting Period Activity: The Broadway Utilities Project (CHE-004 Sewer Separation) was completed in December 2025. construction began June 2024. This project involved comprehensive sewer and drain reconstruction, including sewer separation. This would result in an estimated annual average inflow removal of 0.02 mgd.
The Willow Street/Watts Street/Central Avenue Utility, Road, And Traffic Improvements project is nearing completion and entering final punch list items. With the Willow and Watts Street projects concluded, the completed work will significantly reduce peak inflow volumes. Expected reductions include:

(1) Design Storm peak hour inflow rate reduction:	2.43 MGD
(2) Design storm inflow volume reduction:	0.39 MG
(3) Average Annual inflow reduction:	4.30 MG
(4) Average Annual inflow reduction:	0.012 MGD

MWRA I/I Local Financial Assistance Program: The community has financed eighteen (18) I/I reduction projects through the Authority's funding assistance program. Of the $17,586,100 allotted through the Program's Phases 1 - 16, the community has $4,076,000 remaining in funding assistance.

12. DEDHAM: South System

Background Information:

- Miles of Sewer: 89
- Sewered Population: 24,589
- Three Year (CY23 - CY25) Annual Average I/I: 1.90 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report:
2022 Town-Wide Flow Monitoring (November 2022)
2023 Sewer Manhole Investigations (August 2023)
2024 Sewer Manhole Investigations (November 2024)
2025 Sewer Manhole Investigations (October 2025)
Manor Neighborhood Inflow Investigations Report (October 2025)
2026 Sewer Manhole Investigation (Ongoing)

Private Source Inflow Removal Program: The Town has finalized a Private Infiltration Removal Policy that will allow the community to use its Sewer Enterprise Fund to locate and eliminate infiltration observed in private property sewer laterals. The Town adopted a Sewer System Enterprise Fund at its May 2009 Town Meeting.
The Manor Neighborhood Inflow Investigations (f/k/a House-To-House Inspection Program) report mentioned in 2025 has been completed and is available on the Town's website. The Town is currently working on a Private Inflow Identification & Removal Regulation to redirect the prohibited connections identified during the House-To-House inspections.
A Municipal Buildings Inspection Program was undertaken to identify inflow sources. Inspections identified approximately 78,231 gpd of peak inflow. The Town removed the 78,231 gpd of peak inflow during CY15-23.

I/I Rehabilitation Projects in Design or Construction: The Town, as part of our 2024 Sewer On-Call Services Contract (Year 2 - from 1/31/25 to 12/31/25), completed the chemical root treatment of approximately 13,000 linear feet of sewer main. The cost associated with all the sewer rehabilitation performed in 2025 was approximately $41,000.
The Town is also nearing completion of its annual sewer system inspection program under its 2024 Sewer On-Call Services Contract (Year 3). The Town also retained the service of Weston & Sampson to conduct top-side manhole inspection for several of our sewer sub-basins. The Town plans to utilize this data, along with our previous year's backlog work to perform additional rehabilitation on the most cost-effective sewer lines/manholes in 2026 utilizing our on-call rehabilitation contract.

Reporting Period Activity: In February 2026, funds ($1,450,000) were distributed for the 2026 I/I Identification & Rehabilitation project (MWRA Project No. WRA-P16-12-3-1611). Project work is ongoing. Details of this project are included in Attachment 4.

MWRA I/I Local Financial Assistance Program: The community has financed twenty (20) I/I reduction projects through the Authority's funding assistance program. Of the $13,051,000 allotted through the Program's Phases 1 - 16, the community has $2,359,000 remaining in funding assistance.

13. EVERETT: North System

Background Information:

- Miles of Sewer: 72
- Sewered Population: 51,825
- Three Year (CY23 - CY25) Annual Average I/I: 2.45 mgd
- MassDEP Administrative Actions Since 2010: None
- EPA Clean Water Act Administrative Order: EPA Docket No. 09-026 (August 2009)

Latest I/I or SSES Report: EPA Administrative Order Compliance Report (January 2017)
Lower Broadway I/I Investigation (November 2018)
2018 Sewer I/I Investigation (December 2018)
2021 VI sewer rehabilitation (February 2021)
2022 Paris Street sewer separation (June 2022)
2025 Paris Street sewer separation (April 2026, December 2025)

Private Source Inflow Removal Program: A Sewer and Drain Ordinance was adopted in Fall 2018. To date, the city has collected fees from developments totaling approximately $3.65 million. Fees are used to fund future I/I identification/removal projects.

I/I Rehabilitation Projects in Design or Construction: In June 2022, MWRA funds were distributed for the Paris Street Sewer Separation Project (MWRA Project No. WRA-P11-13-3-1192). Project is ongoing.
In February 2021, MWRA funds were distributed for the Village 1/1 Rehabilitation Project. (MWRA Project No. WRA-Pl l-13-3-1162). Project is ongoing.

Reporting Period Activity: The Paris Street Sewer Separation Project (MWRA Project No. WRA-P11-13-3-1192) is to disconnect catch basins connected to the sewer system and install new drain infrastructure in the Paris Street area to remove sewer system inflow. The construction design is based on the 'Draft Evaluation Memo - Inflow/Infiltration Project Approach' report (dated October 2015). Construction work was delayed but began January 2024.
The Village I/I Rehabilitation Project (MWRA Project No. WRA-P11-13-3-1162) covers I/I rehabilitation in the Village and Main Street areas in order to reduce I/I sources and repair sewer defects. Construction rehabilitation work includes: CIPP lining, lateral grouting, dig and replace sewer rehabilitation, manhole rehabilitation and point repairs. Approximately 0.14 mgd of peak infiltration and 0.11 mgd of peak inflow is anticipated to be removed.

MWRA I/I Local Financial Assistance Program: The community has financed eleven (11) I/I reduction projects through the Authority's funding assistance program. Of the $19,511,500 allotted through the Program's Phases 1-16, the community has $7,900,000 remaining in funding assistance.

14. FRAMINGHAM: South System

Background Information:

- Miles of Sewer: 231
- Sewered Population: 71,396
- Three Year (CY23 - CY25) Annual Average I/I: 3.72 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: Citywide I/I Study / SSES Phase 1 / CWMP (December 2005);
SSES Phase 2 (March 2006); SSES Phase III (November 2006);
SSES Phase IV / V (2010); Blackberry Lane SSES (Complete);

SSES Phase VI (September 2021); SSES Phase VII (Spring 2024);
SSES Phase VIII (ongoing)

Private Source Inflow Removal Program: The City's capital improvements plan now includes multiple phases of inflow removal projects. The City is continuously developing capital projects that will incorporate the removal of the illicit connections identified during the field reconnaissance efforts of the SSES programs. The most recent work includes the City's Phases 6, 7, and 8 SSES projects.

From the Phase 6 SSES findings, design contract documents were developed for the Private Inflow Removal Pilot Project. The project is includes the removal of sump pumps at six (6) locations. Phase 7 SSES smoke testing and any necessary dye testing took place in the fall of 2023. Phase 7 is now complete and a report was submitted to the city during the spring of 2024.
Phase 8 SSES started in the spring of 2026 by performing 425 manhole inspections, 78,000 LF of flow isolation, and 78,000 LF of CCTV. In the summer/fall of 2026 smoke testing and dye testing is expected to take place followed by a completed report in spring/summer of 2027. A wastewater master plan was funded in FY25. As part of this master plan it was requested that the plan offer prioritized recommendations for the remaining I/I removal projects identified through all phases of the SSES program, including sump pump elimination. The goal is to implement a plan that optimizes I/I removal and prioritizes those projects that eliminate or reduce the greatest quantity of infiltration and inflow while considering the City's responsibility and yearly budgetary constraints. The private inflow removal is on hold pending an evaluation of the efficiency and effectiveness of our current plan for private inflow removal and recommendations on how best to move forward.

I/I Rehabilitation Projects in Design or Construction:
In March 2026, funds ($2,000,000) were distributed for the Walnut, Warren, Burdette Sewer Improvements Project (MWRA Project Nos. WRA-P16-14-3-1604). The project includes approximately 8,000 LF in sewer main replacement on the following streets: Walnut St., Warren Rd., Prindiville Ave., Burdette Ave., Buckminster St., Middlesex St., Hillcrest Rd., and Hampshire Rd. As a result of the rehabilitation work, an estimated 0.04 mgd of annual average I/I will be removed from the collection system. Project work is ongoing.
The Union Avenue & Pearl Street Sewer System Rehabilitation Project (Contract PW-407 / MWRA Project No. WRA-P11-14-3-1148) is complete. Project work included replacement of 650 LF of 8-inch sewer main; replacement of 250 LF of 10-inch sewer main; installation of 575 LF of 10-inch CIP sewer main liner; installation of 575 LF of 12-inch CIP sewer main liner; replacement of 800 LF of sewer service laterals; and replacement of 11 sewer manholes. The limits of the project area were Union Avenue (between Proctor Street and Beech Street) and Pearl Street (between Lincoln Street and Franklin Street).

Reporting Period Activity: During the reporting period, construction and rehabilitation activities to remove infiltration and inflow sources were primarily related to repairs performed by City staff and on-call construction services contracts for trenchless repairs. These repairs are found through the City's ongoing internal inspection program. This work included: 3,390 LF of sewer main replacements at nine (9) locations; installation of approximately 6,700 LF of CIPP linings (at 17 locations) and rehabilitation of 100 sewer manholes.
MWRA I/I Local Financial Assistance Program: The community has financed twenty (20) I/I reduction projects through the Authority's funding assistance program. Of the $29,111,000 allotted through the Program's Phases 1 - 16, the community has $13,440,000 remaining in funding assistance.

15. HINGHAM: South System

Background Information:
- Miles of Sewer: 33
- Sewered Population: 7,328
- Three Year (CY23 - CY25) Annual Average I/I: 0.88 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: Annual I/I Program (FY18) Year 2 Evaluation (December 2018)
Annual I/I Program (FY19) Year 3 Evaluation (August 2019)
Annual I/I Program (FY23) Year 2&3 Evaluation (2022)
Annual I/I Program Year 4 Evaluation (September 2025)

Private Source Inflow Removal Program: A 6 to 1 [@ $2.67/gallon] fee for new flow has been implemented. The general funds are used to reduce I/I through inspection and repair.

Through CY17-21, approximately 500 homes were inspected for sump pumps. During FY23, two (2) sump pumps on Shute Avenue were identified as being connected to the sanitary system. These sump pumps have been removed.

I/I Rehabilitation Projects in Design or Construction: Year 4 of the Annual I/I investigation program is complete through the reporting phase as of September 2025. The project area included sewer subarea 2.
Design of recommended sewer rehabilitations from previous projects along with Year 4 is ongoing. Estimated peak infiltration and peak design storm inflow removal during construction is 0.039 MGD and 0.014 MDG respectively.
FY23 On Call Sewer Services Contract 2, Work Order 1 included the following: 1,417 linear feet of CIPP, one lateral liner, 1,117 linear feet of mainline grouting, grouting of six laterals, two short liners, and cementitious lining of 12 manholes. Approximately 8,064 gpd of peak removable infiltration.
FY23 On-Call Sewer Services Contract 2, Work Order 2 included the following: 2,194 linear feet of CIPP and three lateral liners. Approximately 9,288 gpd of peak removable infiltration.

Reporting Period Activity: Broad Cover Pump Station Force Main Improvements Project is complete. Next phase of this project to extend the force main to Stodder's Neck is ongoing. Design is ongoing, planned to be completed and bid end of Summer 2026. Construction to begin Fall 2026. Following the force main extension design to Stodder's Neck, a separate design to CIPP line 18" gravity sewer is this area is planned.
In June 2024, funds ($218,830) were distributed for the FY23-S1 I/I Investigation & Rehabilitation Program (Contract 2 – Work Order No. 2) (MWRA Project No. WRA-P14-15-3-1435). Project work is ongoing.

MWRA I/I Local Financial Assistance Program: The community has financed twelve (12) I/I reduction projects through the Authority's funding assistance program. Of the $4,105,500 allotted through the Program's Phases 1 - 16, the community has $1,293,000 remaining in funding assistance.

16. HOLBROOK: South System

Background Information:
- Miles of Sewer: 49
- Sewered Population: 10,471
- Three Year (CY23 - CY25) Annual Average I/I: 0.55 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: CWSRF No. 2919 Contract No. 1 (October 2009)
Annual I/I Program – Year 1 Investigation (March 2025)
Annual I/I Program – Year 2 Investigation (Ongoing)

Private Source Inflow Removal Program: Smoke testing of Subarea I did not take place and will be rolled into the next phase of investigation. House-to-House inspections continue. All new home construction is inspected by DPW personnel and the Town Plumbing Inspector. New development requires a $12 per gallon mitigation payment on all flow added. The mitigation funds collected are used to finance the Town's I/I identification & rehabilitation program.

I/I Rehabilitation Projects in Design or Construction:

The Annual I/I Control Plan (Year 2) (MWRA Project No. WRA-P11-16-3-1193) is complete and a deliverable will be finalized after reviewing with the Town. Project work included: Manhole Inspections (750 total), CCTV Inspection (22,000 LF), Flow Isolation (22,000 LF), Smoke Testing (22,000 LF) and Dyed Water Testing with CCTV Inspection. The town plans to continue their I/I program and apply for funding for future phases.

Reporting Period Activity: Data from the Annual I/I Program – Year 2 was reviewed and approximately 40,000 GPD of infiltration was identified in 750 manholes and approximately 1,152 GPD of infiltration was identified as part of CCTV in in subarea I. The town intends to apply for MWRA funding to continue investigations in remaining subareas and eventually put out a rehabilitation construction contract to rehabilitate sewers with infiltration. 750 sewer manholes were inspected as part of the Annual I/I Program – Year 2. Approximately 22,000 LF of sewers were CCTV inspected in Subarea I in June 2025. Review of inspection data is underway. Smoke testing and dye testing/dye floods are planned for Subarea I in August 2025. (MWRA Project No. WRA-P11-16-3-1193). 10 New sewer services installed and 3,050' of new sewer main installed in two different subdivisions.

MWRA I/I Local Financial Assistance Program: The community has financed four (4) I/I reduction projects through the Authority's funding assistance program. Of the $4,016,600 allotted through the Program's Phases 1 - 16, the community has $2,667,000 remaining in funding assistance.

17. LEXINGTON: North System

Background Information:

- Miles of Sewer: 171
- Sewered Population: 34,363
- Three Year (CY23 - CY25) Annual Average I/I: 3.61 mgd
- MassDEP Administrative Actions since 2010: ACO-NE-11-015 (July 2011)
- EPA Clean Water Act Administrative Order: EPA Docket No. 11-015 (July 2011)

Latest I/I or SSES Reports: Town-Wide Flow Metering (November 2019)
SSES Phase 12: Sewer Basin 02 (November 2021)
SSES Phase 13: Sewer Basins 04 & 14 (March 2023)
SSES Phase 14: Sewer Basin 03 (February 2024)
SSES Phase 15: Sewer Basin 08 (May 2025)
SSES Phase 16: Sewer Basin 05 (January 2026)
SSES Phase 17: Sewer Basin 12 (Ongoing)

Private Source Inflow Removal Program: The Town is using the February 2012 *Lexington Sewer Use Code Review* to update their current regulations to incorporate a sewer bank or other funding options. A private inflow identification program based on the February 2012 Private Inflow Removal Program Letter Report is currently on hold.

I/I Rehabilitation Projects in Design or Construction: In May 2026, funds ($2,103,000) were distributed for the Phase 11 Sewer System Improvements Project and Phase 17 SSES (MWRA Project # WRA-P16-17-3-1621). The Phase 11 Sewer Rehabilitations are currently under design and will be performed in Lexington's Sewer Basin 09. As a result of the Phase 11 work, an estimated 0.03 mgd of peak infiltration will be removed from the collection system.
The Phase 9 Sewer System Improvements project warranty and re-test inspection was completed as of November 2025. This project's goal was to remove I/I primarily in Sewer Basin 13 (approx. 80,000 gpd).
The Phase 10 Sewer System Improvements project is substantially complete as of June 2026. Warranty and re-test inspection is anticipated to begin winter/spring 2026-27. This project's goal is to remove I/I primarily in Sewer Basin 10 (approx. 64,000 gpd).
The Phase 8 Sewer System Improvements construction began March 2022. Project work, including Warranty Inspection, was complete May 2023. The project's goal was to remove I/I sources primarily within Sewer Basin 11. The Sewer System Evaluation Survey for Sewer Basin 09 (Phase 11) was completed in March 2021. The project identified approximately 35,000 gpd of cost-effective removable peak I/I within 55,000 LF of sewer main.

Reporting Period Activity: The Sewer System Evaluation Survey for Sewer Basin 12 (Phase 17) began April 2026. The Sewer System Evaluation Survey for Sewer Basin 08 (Phase 15) was completed May 2025. New sewer services were installed at 14 locations during FY26.

MWRA I/I Local Financial Assistance Program: The community has financed fifteen (15) I/I reduction projects through the Authority's funding assistance program. Of the $17,476,300 allotted through the Program's Phases 1 - 16, the community has $3,218,000 remaining in funding assistance.

18. MALDEN: North System

Background Information:

- Miles of Sewer: 100
- Sewered Population: 66,410
- Three Year (CY23 - CY25) Annual Average I/I: 3.21 mgd
- MassDEP Administrative Actions: NON #00004556 - May 9, 2018 (Failed to submit I/I Analysis due 12/31/17)

- EPA Clean Water Act Administrative Order: EPA Docket No. 09-002 (January 2009)

Latest I/I or SSES Report: Hydraulic Model and Capacity Assessment Final Report (December 2012)
Phase IV I/I Assessment Program (April 2020)

Private Source Inflow Removal Program: The City is planning to perform a community-wide smoke testing program to identify roof runoff connections and other illicit discharges. The City's DPW Commission voted to approve a revised Water & Sewer Fee Schedule on October 9, 2018. This revised schedule includes a new sewer connection fee of $500 plus an I/I fee of $8.50/gpd for new connections with a design flow over 15,000 gpd.

I/I Rehabilitation Projects in Design or Construction: The City completed an I/I Assessment for another 5-year (2027-2032) Sewer Rehabilitation Program. Sewer Improvements Project - Years 3, 4, and 5 of the 5 year I/I removal plan (Contract 2026-S-1) was bid in March 2026. The work under this contract includes pipeline cleaning, CCTV video inspection, followed by cured-in-place pipe (CIPP) lining of sanitary sewers along various streets throughout the City. The pipelines to be CIPP lined will be determined based on a review of the initial cleaning and CCTV video of the various sewer lines. The City has compiled a list of approximately 37,400 linear feet of sewer lines that will be initially cleaned and videoed. As the videos are completed the City will review the videos and select the pipes to be lined. The total described work may also consist of sewer manhole rehabilitation along with other appurtenant items.
Contract 2022-S-1 is complete. Approximately 18,000 LF of sewer mains were lined.

Reporting Period Activity: In May 2025, funds ($3,076,970) were distributed to continue City wide SSES & Sewer Improvements - Design / Construction projects (Years 3, 4, & 5) (MWRA Project No. WRA-P14-18-3-1452).

MWRA I/I Local Financial Assistance Program: The community has financed eight (8) I/I reduction projects through the Authority's funding assistance program. Of the $29,486,900 allotted through the Program's Phases 1 - 16, the community has $19,684,030 remaining in funding assistance.

19. MEDFORD: North System

Background Information:

- Miles of Sewer: 120
- Sewered Population: 59,862
- Three Year (CY23 - CY25) Annual Average I/I: 3.65 mgd
- MassDEP Administrative Actions Since 2010: None
- EPA Clean Water Act Administrative Order: EPA Docket No. 09-027 (August 2009)

Latest I/I or SSES Report: James Street & Swan Street SSES (February 2022)
Mini-System A & G SSES Phase II (May 2023)
Mini-System P Lining Construction (April 2024)
Mini-System A SSES Construction (April 2025)
Sub-Areas O2 and K1 SSES study (May 2025)
Systems K1 and O2 SSES Draft Report (May 2026)

Private Source Inflow Removal Program: Suspected inflow locations were found during Phase 1 inspections. Two (2) additional locations were found in FY22/23. Removal plans are to be developed.

I/I Rehabilitation Projects in Design or Construction: The Mini-System P Sewer Rehabilitation project is substantially complete. Mini-System P Sewer Rehabilitation CIPP lining work is approximately 50% complete. A City-wide sewer rehabilitation design contract started June 2024 and is ongoing. The Mini-System A SSES Construction is 20% Complete.

Reporting Period Activity: Mary Kenney Way Subdivision extension, approximately 190 LF sewer extension serving 10 new homes, 7 homes complete as of June 2026.

In April 2026, the City established a Special Revenue Account for sewer I/I mitigation fees. Applicants that add over 15,000 gallons per day through a new sewer system connection can now elect to either perform I/I mitigation, pay a fee based on an approved fee schedule, or a combination of the two.
The sewer relay and lining project completed in July 2025 covered Boston Avenue, St. Clements Road, Bristol Road, Warner Street, Wareham Street, Morton Avenue, and Newbern Avenue, with work totaling 3,480 linear feet of cured-in-place pipe (CIPP) lining for 8 and 10 inch diameters, and 24 open cut point repairs for 12 inch diameter pipes.

MWRA I/I Local Financial Assistance Program: The community has financed nine (9) I/I reduction projects through the Authority's funding assistance program. Of the $27,868,600 allotted through the Program's Phases 1-16, the community has $19,907,000 remaining in funding assistance.

20. MELROSE: North System

Background Information:

- Miles of Sewer: 75
- Sewered Population: 29,901
- Three Year (CY23 - CY25) Annual Average I/I: 1.84 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: 2022 Sewer Manhole Frame and Cover Replacement Project (Spring 2022)
2023 Sewer Rehabilitation Project – Sewer Manhole Lining (Spring 2023)
2024 Sewer Rehabilitation Project – CIPP Lining Design & Bidding (Summer/Fall 2023)
2024 Sewer Rehabilitation Project – CIPP Lining Construction (Summer 2024)

Private Source Inflow Removal Program: Smoke testing was performed in the six (6) subareas where investigations were done as part of the 2020 SSES - Phase 3 (MWRA Project No. WRA-P11-20-3-1137). All findings from SSES Phases 1-3 will be investigated in the near term. The city, as part of its water main replacement projects, continued performing basement inspections for illicit connections. In FY26, there were no illicit connection inspections, but they will resume in FY 27.

I/I Rehabilitation Projects in Design or Construction: The next phase of the City's annual I/I program will potentially use the Phase 16 funds from MWRA. The city plans to meet with Weston & Sampson to discuss next steps in the I/I program, which will likely focus on either or both Phase 2 and 3 open cut repairs and Phase 4 SSES investigations.
In June 2023, MWRA funds were distributed for the Design and Construction of the 2023 CIPP Lining-Sewer Rehabilitation Project (MWRA Project No. WRA-P14-20-3-1414). This project is substantially complete.
In December 2019, MWRA funds were distributed for the following projects: Design and Construction for Phase 2 Sewer Rehabilitation, and Phase 3 Sewer System Evaluation Survey (MWRA Project No. WRA-P11-20-3-1137). A final progress report will be submitted; all project work is complete.

Reporting Period Activity: The city completed warranty inspections for the 2024 CIPP Lining project. The estimated I/I removal for the 2024 CIPP project is 18,200 GPD.
Extensions of the Collection System: The following private developments have either recently tied into the City's of MWRA's sewer system, or have been approved to do so, as summarized below:

a) 521-529 Franklin St (Mixed Use), estimated to add 5,645 gpd
b) 31-39 West Wyoming Ave (Mixed Use), estimated to add 5,280 gpd
c) 18 Tremont Street (Mixed use), estimated to add 12,760 gpd

During FY26, the city collected $75,790 in I/I mitigation fees. The fees are stored in a dedicated fund and are only used for work related to I/I reduction. The sewer enterprise fund fully covered the costs of sewer system operations, maintenance, debt service and other expenses. The city maintains reserves equal to at least 10% of the operating budget
Sewer Rehabilitation Design Project (MWRA Project No: WRA-P14-20-3-1414) began Spring 2023. The city is about to complete the 2024 CIPP Lining project, which was awarded to Green Mountain Pipeline in 2024. Post-construction flow isolation has recently been completed as part of the project. Estimated I/I removal to be determined at the completion of project. The project is partially funded through the MWRA I/I LFAP, Phases 12 and 14. Additional funds (as needed) will be paid from the City's I/I mitigation fee fund.

The 2023 Sewer Replacement Project (Sewer Manhole Lining) was completed June 2023. The project included the grouting of leaks and cementitious lining of forty-four (44) sewer manholes. The average I/I removal for the project was approximately 0.03 mgd.
The city also commenced with the removal and replacement of sewer manhole frames and covers that were identified with multiple holes in their manhole covers during the SSES Phases 1-3 projects (2022 Sewer Manhole Frame and Covers Replacement Project). To date, eighty (80) manhole frames and covers have been replaced.
The 2020 Sewer Rehabilitation Project (CIPP Lining) was completed in May 2021. Post-construction flow isolation was completed in Spring 2022. The I/I removal was approximately 0.07 mgd or an approximate 84% infiltration reduction based on the pre-construction flow isolation estimates. Approximately 6100 LF of 6 to 12-inch sewer main received root treatment. Approximately 21,000 LF of CIPP liners were installed in 6 to 20-inch sewer mains.

MWRA I/I Local Financial Assistance Program: The community has financed eleven (11) I/I reduction projects through the Authority's funding assistance program. Of the $14,357,300 allotted through the Program's Phases 1-16, the community has $4,251,000 remaining in funding assistance.

21. MILTON: South System (Small Portion Tributary to the North System)

Background Information:

- Miles of Sewer: 98
- Sewered Population: 28,164
- Three Year (CY23 – CY25) Annual Average I/I: 2.99 mgd
- MassDEP Administrative Actions Since 2010: Docket No. 580

Latest I/I or SSES Report:
CIP Program 1 Investigation (January 2020)
CIP Project 2 Investigation (January 2021)
CIP Project 3 Investigation (December 2021)
CY2022 Sewer Investigation (September 2022)
2022 Pump Station Evaluations (March 2023)
Post-Construction Flow Evaluation (July 2025)

Private Source Inflow Removal Program: The Town is continuing to pursue the removal of sump pumps and other private inflow sources identified through a previously completed building inspection program. All new connections to the municipal sanitary sewer system will be charged a one-time I/I mitigation fee. Connection applicants must remove four gallons of I/I from the sewer system for each one gallon of new wastewater flow requested in the connection permit. If there are not sources of I/I that, at the discretion of the DPW Director, are appropriate for removal at the time of the permit, a monetary fee may be required (at a cost of $3.00 per gallon of flow per day to be removed).
Also, a building inspection is performed during the final water meter reading when a house is being sold. If the building inspection identifies an illegally connected sump pump, a fine is issued and the residence cannot be sold until the sump pump has been rerouted and inspected. Additionally, during the water meter replacement program, Town inspectors have been trained to identify sump pumps and note whether they are: (a) connected to the sewer, (b) daylighted to the outside, or (c) unknown. The Town's Engineering Department then performs follow-up inspections as needed.

I/I Rehabilitation Projects in Design or Construction: In September 2023, MWRA funds were distributed for the CY2023 Sewer & Storm Drain Rehabilitations – Design and Construction (MWRA Project No. WRA-P14-21-3-1417). This project was renamed to CY2024 Sewer Rehabilitations. Project work is substantially complete.
The CY2022 Sewer Investigation was completed Spring 2022 (MWRA Project No. WRA-P11-21-3-1178).Data review/reporting complete September 2022. The 2022 Pump Station Evaluations were completed in March 2023.
The Drain and Sewer Improvements Project (Milton Contract No. DS21-1) began in November 2021 and reached substantial completion in April 2022 (MWRA Project No. WRA-P11-21-3-1178). It is estimated this project removed 3168 gpd of infiltration through comprehensive sewer pipeline and manhole repairs.

Reporting Period Activity: The CY2024 Sewer Rehabilitations project reached substantial completion on August 19, 2024. The project rehabilitations included cured-in-place pipe, cured-in-place lateral liners, lateral grouting, and manhole cementitious

lining. Warranty retest work was completed in April 2025. Pre-construction flow isolation was completed in Spring 2024 and post-construction flow isolation was completed in Spring 2025. It is estimated this project removed 85,769 gpd of peak I/I based on comparison of flow isolation values and visual manhole inspections.
The CY2024 Sewer Rehabilitations project is ongoing. This design incorporated three years of investigations (CIP 2 Investigation, CIP 3 Investigation, and CY2022 Sewer Investigation). The project rehabilitations are focused on CIPP and manhole cementitious lining. Pre-construction flow isolation was completed in Spring 2024. I/I removal will be estimated once post-construction flow isolation is completed.
Approximately 1150 LF of 2-inch HDPE low-pressure sewer was installed on Randolph Avenue as part of a sewer betterment plan to the area. Approximately 70 LF of 8-inch sewer was extended on Highland Street as part of a private property endeavor. The Highland Street extension was accepted by the Town in May 2022.
CIP Project 3 Investigation was completed Spring 2021 (MWRA Project No. WRA-P11-21-3-1178). Data review and reporting complete December 2021. Approximately 34,128 gpd of peak infiltration was observed during television inspections and 10,224 gpd of peak infiltration and 7700 gpd of peak inflow was identified during manhole inspections.

MWRA I/I Local Financial Assistance Program: The community has financed twenty-one (21) I/I reduction projects through the Authority's funding assistance program. Of the $12,904,500 allotted through the Program's Phases 1-16, the community has $2,740,000 remaining in funding assistance.

22. NATICK: South System

Background Information:

- Miles of Sewer: 129
- Sewered Population: 34,673
- Three Year (CY23 - CY25) Annual Average I/I: 1.47 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: Town-Wide SSES (Ongoing)
I/I Study (Ongoing)

Private Source Inflow Removal Program: The Town-Wide SSES included a house-to-house inspection component. Home inspections are also conducted in conjunction with the water meter replacement program. The Town has prepared an informational handout on eliminating sump pump connections to the wastewater system, which is distributed to targeted/suspect areas of the community.

I/I Rehabilitation Projects in Design or Construction: The next round of sewer rehabilitation improvements is under development based upon the results of 20,000 LF of CCTV inspection completed this past spring.
Work on Contract No. S-162 was completed in December 2024. Between July 1, 2024 and June 30, 2025 the following additional rehab work items have been completed: manhole rehabilitation in 67 MH's including chemical grout sealing, structural defect repairs, corbel/riser/lining, and frame inserts; post-construction CCTV inspection, and final paving. Peak infiltration removal at 100% contract completion is expected to be ±215,000 gpd, estimated based on review of the inspection reports for the structures being worked on. Inflow removal, using MassDEP's design storm characteristics (0.29 in/hr average rainfall intensity for 6-hr period) is conservatively estimated to be 48,000 gpd.
This project was approved with planned MWRA funding from Phase 10 ($969,000), Phase 11 ($1,250,000), and Phase 12 ($1,250,000). Money from Phases 10 and 11 has been distributed to the Town. The Town is currently evaluating whether the available Phase 12 funds should be requested to cover these project costs or apply the Phase 12 funds towards other on-going I/I investigations.

Reporting Period Activity: The Town has completed the purchase of the CCTV inspection vehicle (MWRA Project No. WRA-P9-22-1-966). Training on the equipment has been completed. The vehicle (with Town personnel) performed a portion of the above Natick Contract No. S-162 CCTV inspection work.

Extensions of the Collection System: (1) Fox Hill Drive (1386 LF of 8-inch sewer, 1 pump station, and 732 LF of 4-inch force main installed in previous years): In the past year, there were no additional connections made. 16 sewer stubs remain for future connection. (2) Windy Lo (1246 LF of 8-inch sewer installed in previous years): In the past year, an additional 3 sewer

connections were made. (3) 69 East Central Street: Not an extension or modification to the collection system. There is one sewer connection for this building. As of June 30, 2025, the connection has been installed; however, occupancy has not been granted to this building as of this date so no associated flow at this point. (4) St. Benedict's School (89 Union Street): In the past year, 432 LF of 8-inch PVC sewer and three manholes have been installed. Additionally, all sewer connections and associated work have been completed, and occupancy has been granted. This has added an approximate 1,730 gallons per day (using 310 CMR). Future projects will include additional buildings as well as additional sewer manholes and pipe on-site. (5) Old St. Patrick's School Site (45 East Central Street): As of this report, all nine service connections have been made; however, occupancy has not been granted to this building as of this date so no associated flow at this point. (6) 7-11 Washington Street: During this reporting period, the connection to the sewer has been made; however, occupancy has not yet been granted to this building as of this date and there is no associated flow. (7) Mathworks Lakeside Campus addition (1 Lakeside Campus Drive): The site was previously a parking lot for the existing Mathworks facility and will be a 260,000 square foot addition which includes a 4-story office building, two Mathworks data centers and a reception building. The project will consist of 790 LF of 6-inch PVC sewer and seven manholes for the office building and data centers. An additional 80 LF of 4-inch PVC sewer will be installed for the smaller reception building. Each building will have a sewer connection. This will add an approximate 19,500 gallons per day (using 310 CMR). As of this report, the sewer connections have not been installed, and no occupancy has been granted as the buildings are still under construction. (8) 32 Union Street (Assisted Living Facility): Not an extension or modification to the collection system, however this is a conversion of three single family homes to a 47-unit assisted living facility. This will add an approximate 6,390 gallons per day (using 310 CMR). There is one sewer connection for the building. As of this report, the sewer connections have not been installed, and no occupancy has been granted as the buildings are still under construction.

MWRA I/I Local Financial Assistance Program: The community has financed eleven (11) I/I reduction projects through the Authority's funding assistance program. Of the $13,248,600 allotted through the Program's Phases 1 - 16, the community has $6,416,000 remaining in funding assistance.

23. NEEDHAM: South System

Background Information:

- Miles of Sewer: 130
- Sewered Population: 31,655
- Three Year (CY23 - CY25) Annual Average I/I: 2.51 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: CCTV Inspection (2018)
Continuous Flow Monitoring (12 subareas) (Ongoing)

Private Source Inflow Removal Program: A private source identification program, using Town-owned CCTV inspection equipment, is ongoing. The Town continues to enforce 4:1 I/I removal prior to issuing occupancy permits.

I/I Rehabilitation Projects in Design or Construction: In March 2026 funds ($3,479,000) were distributed for the I-95 Sewer Interceptor Improvements Project (MWRA Project No. WRA-P16-23-3-1610). This project involves construction of the sewer replacement for the I-95 Interceptor from I-95 to Valley Rd at Norwich Rd (replacement of 3,000 LF). The project also involves CIPP lining from Valley Rd at Sterling Rd to the Heron Trail, located southeast of the intersection of Great Plain Road and I-95 in Needham, Massachusetts. Sewer rehabilitation work (Base Bid + Alternate Bid A) will include, but not be limited to, the following: installation of 3,000 LF of sewer main; installation of 950 LF of CIP pipe liners in sewer mains; installation of 15 sewer manholes; replacement of 17 manhole frames and covers; lining of 5 sewer service laterals; installation of 70 LF of CIPP in sewer service laterals; rehabilitation of 35 VF of sewer manholes; and cleaning and tv inspection of 1,210 LF of sewers. As a result of the work, an estimated 0.04 mgd of peak infiltration and inflow will be removed from the collection system upon contract completion. Project work is ongoing.

Reporting Period Activity: Twelve meters (ten permanent and two portable area velocity flow modules) have been installed for continued I/I monitoring.

MWRA I/I Local Financial Assistance Program: The community has financed twelve (12) I/I reduction projects through the Authority's funding assistance program. Of the $14,302,600 allotted through the Program's Phases 1 - 16, the community has $6,805,000 remaining in funding assistance.

24. NEWTON: North and South Systems

Background Information:

- Miles of Sewer: 284
- Sewered Population: 89,956
- Three Year (CY23 - CY25) Annual Average I/I: 8.44 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Reports: CIP - Project 9 Inspection and Assessment (April 2020)
CIP Project 6 Flow Evaluation (November 2021)
CIP - Project 10 Inspection and Assessment (January 2022)
CIP - Project 11 Inspection and Assessment (December 2022)
CIP Project 7 Flow Evaluation (April 2025)
CIP Project 8 Flow Evaluation (Ongoing)

Private Source Inflow Removal Program: No work undertaken during this reporting period.

I/I Rehabilitation Projects in Design or Construction: The CIP Project 8 post construction flow evaluation will be completed by Weston & Sampson. CIP Project 9 Inspection and Assessment is planned for rehabilitation as part of a three (3) phased construction project. The estimated I/I removal is 329,145 gpd of peak infiltration and 38,192 gpd of removable inflow. The phased construction projects are described below:

• CIP Project 9 – Phase I is nearing completion. Remaining work includes repairs to defects identified during warranty inspections and completion of post construction flow isolation.

• Bids were opened for the Oak Hill Park Area Sewer Replacement project on April 16, 2026. The city is currently working to award the project to Aqualine Utility, LLC. Construction is anticipated to start in Summer 2026.

• CIP Project 9 – Phase II is scheduled for construction upon completion of the Oak Hill Park Area Sewer Replacement project. Design of the Phase II rehabilitations will be started in Fall 2026.

CIP Project 10 Design will be completed during construction of CIP Project 9. CIP Project 10 construction to begin upon completion of CIP Project 9 Construction.

The CIP Project 8 Rehabilitations are complete (MWRA Project Nos. WRA-P11-24-3-1126 / 1158). The estimated I/I removal is 658,788 gpd of peak infiltration and 92,967 gpd of peak inflow.

CIP Project 11 Inspection and Assessment is complete and included investigating 106,266 LF of sewer and 740 manholes. CIP Project 10 Inspection and Assessment is complete and included investigating 121,166 LF of sewer and 714 manholes. CIP Project 9 Inspection and Assessment is complete and included investigating 132,489 LF of sewer and 852 sewer manholes. The estimated I/I removal is 329,145 gpd of peak infiltration and 38,192 gpd of peak inflow. CIP Project 8 Inspection and Assessment is complete and included investigating 138,354 LF of sewer and 854 sewer manholes. The estimated I/I removal is 658,788 gpd of peak infiltration and 92,967 gpd of peak inflow.

CIP Project 7 Rehabilitations are complete (MWRA Project No. WRA-P11-24-3-1126). The estimated I/I removal is 165,051 gpd of peak infiltration, 71,784 gpd of peak rain-induced infiltration and 102,112 gpd of peak inflow. CIP Project 6 Rehabilitations are complete. The estimated I/I removal is 299,399 gpd of peak infiltration, 64,224 gpd of peak rain-induced infiltration and 501,408 gpd of peak inflow.

Reporting Period Activity: The CIP Project 9 Sewer Rehabilitations and Oak Hill Park Area Sewer Replacement (MWRA Project No: WRA-P14-24-3-1408) is ongoing. CIP Project 9 is part of the City's 11 Year Sewer Capital Improvement Plan. The project area for CIP Project 9 includes Newton Subareas A001/ A002 / A003 / A010 / A011 / A013 / A015. The project area for the Oak Hill Park Area Sewer Replacement Project includes Newton Subarea A001. The objective is to design 'dig and replace' rehabilitations that will eliminate infiltration and inflow. Total project work will include: installing CIPP liners in approximately 35,000 LF of sewers; cementitious lining approximately 200 sewer manholes; installing structural CIPP liners in 11,175 LF of

6 to 12-inch diameter sewer main; sealing approximately 20 underdrain access ports; installing approximately 300 LF of short liners; and performing open cut point repairs on sewer lines at approximately 45 locations.

MWRA I/I Local Financial Assistance Program: The community has financed thirty-one (31) I/I reduction projects through the Authority's funding assistance program. Of the $49,302,400 allotted through the Program's Phases 1 - 16, the community has $5,622,000 remaining in funding assistance.

25. NORWOOD: South System

Background Information:

- Miles of Sewer: 108
- Sewered Population: 31,559
- Three Year (CY23 – CY25) Annual Average I/I: 3.78 mgd
- MassDEP Administrative Actions Since 2010: 534 July 25, 1983 Draft Order issued by EPA to address CMOM and Storm water concerns: 2009

Latest I/I or SSES Report: I/I Assessment and GIS Tracking Program (2019)

Private Source Inflow Removal Program: As part of the Meadowbrook Area Sewer Inspection, ten (10) buildings were identified with various illicit connections and eleven (11) sources have been removed to date. Within the Hawes Brook sewer tributary area, eight (8) property owners have been notified to redirect sump pumps. Work is scheduled to begin shortly that will include building inspections for identifying illicit connections and sump pumps in portions of the Meadowbrook area. The Town is under contact with CDM Smith who will conduct building inspections in the Meadowbrook watershed area to identify illicit discharges and illicit connections.

I/I Rehabilitation Projects in Design or Construction: In June 2025, MWRA funds were distributed for the Meadowbrook Underdrain Rehabilitation: Investigation / Design / Construction Project (MWRA Project No. WRA-P14-25-3-1451). Project work is ongoing.
In August 2017, MWRA funds were distributed for the Meadowbrook Priority Area 5 Rehabilitation Construction Project (MWRA Project No. WRA-P9-25-3-974). Project work is complete.
In February 2017, MWRA funds were distributed for the Meadowbrook Priority Area 5 Rehabilitation Design and Misc. Rehabilitation Measures Projects (MWRA Project No. WRA-P9-25-3-964). Project work is complete.

Reporting Period Activity: The Town has contracted with National Water Main Cleaning (NWMC) for the sewer rehabilitation project. Work began in the Adams Street neighborhood in early August of 2026. A second phase of the project will include sewer rehabilitation in other parts of the Meadowbrook watershed area later this summer/fall.
The Town's sanitary sewer system has had two new mains installed within new developments in 2026: Brothers Way- 996 LF and Viburnum Way: 1,500 L.F.
The Town's Water and Sewer Department operates as an Enterprise Fund. Funding for the removal of I & I is funded through the enterprise fund and funds received from private developments. For new private developments, the developer provides the Town funding for I & I removal based on 4 times the estimated daily sewer flow rate (4:1 ratio).
Sewer rehabilitation project design is nearing completion. Project scheduled to be advertised for bid in August with a likely construction start in September 2025. Work includes comprehensive rehabilitation in the Adams Street area and completion of sewer rehabilitation in other portions of the Meadowbrook area.

MWRA I/I Local Financial Assistance Program: The community has financed twenty-two (22) I/I reduction projects through the Authority's funding assistance program. Of the $17,124,400 allotted through the Program's Phases 1-16, the community has $8,675,000 remaining in funding assistance.

26. QUINCY: South System

Background Information:

- Miles of Sewer: 209
- Sewered Population: 103,434
- Three Year (CY23 - CY25) Annual Average I/I: 5.06 mgd
- MassDEP Administrative Actions Since 2010: None
- EPA Administrative Actions: Consent Decree (June 2021)

Latest I/I or SSES Report: Fall 2018 Sewer Investigation (April 2019)
CMOM Self-Assessment Program (April 2019)
2020 SSES and Update Project (February 2020)
Supplemental SSES Report (November 2022)
Area 3 SSES (Ongoing)

Private Source Inflow Removal Program: In January 2026 the City kicked off their Commercial Business Sump Pump I/I Amnesty Program. This project targets and assesses commercial businesses possibly contributing to I/I via internal building sump pumps or illicit roof drain connections within the building. As part of this project, City staff along side their consultant will visit an initial 500 commercial buildings, many in areas with I/I impacts based upon SSES 1 (2018/2020) SSES 2(2020) and SSES 3 (2025). To date, inspections have identified, documented, and catalogued 44 sump pumps. The sump pumps are all legal connections and have been documented in the City's asset management software, CityWorks. The goal is to complete all inspections by September 2026. A smoke testing program was conducted in Fall 2024 to investigate potential infiltration and inflow (I/I), specifically through direct and indirect inflow sources, in the City's wastewater collection system within the SSES Area 3.

The City has partnered with the Plumbing Inspector on its FOG Program. As part of this program, the inspector visits CV License Holders for Grease Trap Inspections. While inspecting for grease traps, the inspector also observes the property for illegal inflow connections. Although this program directly addresses FOG discharges, it has been successful in identifying direct private inflow sources for removal.

The City continues its opportunistic residential and business inspections to identify sump pumps and private drain infrastructure connected to the sewer system. The City's Storm Water Discharge Ordinance forbids non-sanitary connections. A new fee structure was made effective July 1, 2013. Part II, Chapter 270, Article II 270-5 of the City's Ordinance outlines penalties for illegal connections and discharges to the sanitary sewer system: https://ecode360.com/29090773. The fee structure remains in effect and has resulted in improvements to the system.

Developers contribute one percent of total project value to the City of Quincy Sewer and Drain Rehabilitation Fund (QSDRF). Additionally, as part of site plan review, the City is engaged in mitigation negotiations and requires I/I removal by applicants whose flow exceeds 15,000 gpd up to 4:1. Through June 30, 2026, the QSDRF had a balance of $ 3,267,484.73.

The City owns a CCTV sewer inspection vehicle. The vehicle provided significant input towards the development of the Coastal Structures I/I Evaluation & Identification Study. Also, many of the open cut and rehabilitation repairs on the Phase IIB Coastal Structures I/I Reduction Project were identified via the City's CCTV vehicle during I/I investigative efforts in the Houghs Neck area.

I/I Rehabilitation Projects in Design or Construction: The FY25 Sewer CIPP Project started rehabilitation work in September 2025. Work included 51,221 LF of CIPP lining for 8-inch, 10-inch, 12-inch, 15-inch, 18-inch, and 20-inch sewer pipe on 121 different streets throughout the City of Quincy. Work also included manhole restoration, lining of various existing sewer laterals, and open cut spot repairs. The awarded price was $5,066,861.60. The project's substantial completion date was May 8, 2026 and the final completion date is May 8, 2027.
The FY2024 Sewer & Drain Improvement Design Project (MWRA Project No. WRA-P14-26-2-1413) began Summer 2023. Project work is ongoing.

FY24 Sewer CIPP Project Contract 1 awarded in July 2023. Work includes 25,600 LF of CIPP lining for 8-inch, 10-inch, 12-inch, and 15-inch sewer pipe. Work also includes manhole restoration, lining of various existing sewer laterals, and open cut spot repairs. The awarded price was $3,034,775.00. Project is anticipated to be substantially complete by January 2025.
FY24 Sewer CIPP Project Contract 2 awarded in July 2024. Work includes 43,450 LF of CIPP lining for 8-inch, 10-inch, and 12-inch sewer pipe on throughout the City. Work also includes manhole restoration, lining of various existing sewer laterals,

and open cut spot repairs. The awarded price was $2,818,295.00. Project work substantially complete.

Reporting Period Activity: The City is conducting a Citywide sub-metering program which started in January 2026 and is anticipated to complete in July 2026 with 26 flow meters, 4 rainfall gauges, and 5 conductivity meters that capture all five SSES areas. The sub-metering results will inform the City's Wastewater Collection System Hydraulic Model updates and the design of future sewer rehabilitation improvements.

MWRA I/I Local Financial Assistance Program: The community has financed twenty (20) I/I reduction projects through the Authority's funding assistance program. Of the $46,608,000 allotted through the Program's Phases 1 - 16, the community has $14,283,000 remaining in funding assistance.

27. RANDOLPH: South System

Background Information:

- Miles of Sewer: 113
- Sewered Population: 35,038
- Three Year (CY23 - CY25) Annual Average I/I: 2.04 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: Wastewater System Metering Program (June 2017)
I/I Removal and Martindale Pump Station Rehabilitation (January 2020)
Sanitary Sewer System Investigation (November 2022)

Private Source Inflow Removal Program: The Town developed a sump pump inspection and amnesty program. As a result of the program, the Town was contacted by 202 homeowners having sump pumps. Internal inspections were completed to determine sump pump locations. One hundred twenty-one homes (121) were determined to have sump pumps connected to the sewer system. Ninety-four (94) of these homes have drainage directly adjacent to the homes. Each of the 94 homes was inspected. Design was completed to redirect these sump pumps to the drainage system. Sump pump redirection construction is complete (Randolph Contract Nos. 08-SP1/2/3) (MWRA Project No. WRA-P6-27-3-655). Total peak flow inflow removed is estimated to be 0.61 mgd.

I/I Rehabilitation Projects in Design or Construction: The Martindale Pump Station wet well lining work is complete (Randolph Contract 20-S1 / MWRA Project No. WRA-P11-27-3-1139).

An I/I Investigation Report (July 2013) was drafted for the community areas affected by the March 2010 storm events. As a result of that report, a rehabilitation contract (Randolph Contract 15-S1/ MWRA Project No. WRA-P8-27-3-820) was designed (March 2015) and bid (April 2015). Rehabilitation construction is complete and included lining of the Vine Street Pump Station wet well, CIPP lining 1600 LF of sewer main, installing seven (7) short liners, grouting of 24 service connections, installing nine (9) manhole liners, digging and replacing two (2) sewer mains, testing and sealing of 5500 LF of sewer main and root removal within 500 LF of sewer main.

A Town-Wide wastewater flow metering program was performed during Spring 2017. Data review/report preparation completed Summer 2018.

Reporting Period Activity: A comprehensive I/I program is currently being developed based on the results of the town-wide metering program, and this effort is likely to include the lining of wet wells within the system.
The Town conducted CCTV inspection of approximately 50,000 LF of sewer mains between November 2021 and March 2022. This is part of a larger I/I Design / Rehabilitation Project (MWRA Project No. WRA-P11-27-3-1139). There have been no modifications and/or extensions of the collection over the last year. A small number of family homes were connected to the system in 2022 / 2023.
Randolph requires either a one-time connection fee of $7.50/gallon for new flow into the sewer system or 4 to 1 removal of I/I for each gallon of flow into the sewer system.

MWRA I/I Local Financial Assistance Program: The community has financed eleven (11) I/I reduction projects through the Authority's funding assistance program. Of the $14,423,800 allotted through the program's Phases 1 - 16, the community has $9,452,742 remaining in funding assistance.

28. READING: North System

Background Information:
- Miles of Sewer: 100
- Sewered Population: 25,640
- Three Year (CY23 - CY25) Annual Average I/I: 3.78 mgd
- MassDEP Administrative Actions: None

Latest I/I or SSES Report: Infiltration and Inflow (I/I) Investigations Final Report (November 2012)
I/I Investigations Report - Section 2 Supplement (November 2014)

Private Source Inflow Removal Program: The Town is continuing to work with property owners where illicit connections were found during the Building Inspection Program. The Town is working to establish a private inflow removal program, which will utilize funds collected under development fees. In FY25, the Town repaired a cross connection eliminating an underdrain from the sewer. In FY24, four (4) sewer manholes were raised out of the flood elevation in a cross-country sewer main, eliminating inflow.

I/I Rehabilitation Projects in Design or Construction: In March 2025, MWAR funds were distributed for the Sewer System Rehabilitation: Planning / Design / Construction in Subareas 4b and 3c (MWRA Project No.WRA-P14-28-3-1449). Project work is ongoing.
The Collection System Lining Project that began Summer 2022 and is now complete. Project work consisted of approximately 15,500 LF of CIPP lining, 6000 LF of CCTV inspection and testing & sealing of laterals at 130 locations (MWRA Project No. WRA-P11-28-3-1164).

Reporting Period Activity: The Town will be putting out a bid for Phase 14 CIPPL this Summer and anticipates lining approximately 7,000LF. In FY26, the Town installed/replaced approximately 1080 LF of service laterals to 27 residences.
The Town performed Town-wide sewer flow monitoring this Summer and is in the process of putting out a bid late Summer for the next round of CIPPL. In FY25, the Town installed/replaced approximately 1370 LF of service laterals to 44 residences. In FY22, the Town received $23,295 in sewer I/I connection fees from various developments. In FY23/24/25/26, the Town received $0 in sewer I/I connection fees from various developments.

MWRA I/I Local Financial Assistance Program: The community has financed twelve (12) I/I reduction projects through the Authority's funding assistance program. Of the $10,964,100 allotted through the Program's Phases 1 - 16, the community has $3,215,000 remaining in funding assistance.

29. REVERE: North System

Background Information:
- Miles of Sewer: 98
- Sewered Population: 60,685
- Three Year (CY23 - CY25) Annual Average I/I: 3.34 mgd
- MassDEP Administrative Actions since 2010: None
- EPA Clean Water Act Administrative Order: CD 1:10-cv-11460 (November 16, 2010)

Latest I/I or SSES Reports:

Illicit Connection Detection Phase 5 (CWSRF 4386) (April 2020)
SSES - Phase XI Field Investigations (CWSRF 6648) (April 2021)
SSES - Phase XII Field Investigations (CWSRF 6800) (April 2022)
SSES - Phase XIII Field Investigations (CWSRF 6805) (August 2023)
SSES – Phase XIV Field Investigations (CWSRF 7123) (August 2024)
SSES – Phase XV Field Investigations (CWSRF 19150) (ongoing)

Private Source Inflow Removal Program: Contract 12 was awarded to Niezgoda & Murray Excavating LLC., work commenced Summer 2026 and includes: Redirection of inflow sources at 18 private properties and 1,450 lf. of drain

extensions**.** Contract 11 was awarded to Niezgoda & Murray Excavating LLC., work to commence Summer 2025 and includes: Redirection of 27 private property inflow sources, and 985 lf. of drain extensions.
Contract 9A project work to begin Summer/Fall 2023. Work includes redirection of 55 sump pumps and installation of 1325 LF of drain extensions. Contract 8A project work began Fall 2022. Work includes redirection of 25 sump pumps and installation of 530 LF of drain extensions. The City continues to maintain a 10:1 I/I removal fee based on development size.

I/I Rehabilitation Projects in Design or Construction: In June 2025, MWRA funds were distributed for Phase 15 Designs of Recommended Sewer Rehabilitations (MWRA Project No.WRA-P14-29-2-1453). Project work is ongoing.
In August 2022, MWRA funds were distributed for Phase 13 Designs of Recommended Sewer Rehabilitations Project (MWRA Project No. WRA-P11-29-2-1196). Project work included drainage and stormwater design in support of inflow redirection. Phase 12 and 13 Designs are now complete.

Reporting Period Activity: The Town completed the installment of 175' lf of 8-inch PVC sewer pipe and 2 manholes on Phillips Ave in November 2023.
In January 23 to January 25, the town installed 300' lf of 8'PVC sewer pipe and 4 manholes between Winthrop Ave and Boudrot Rd. On Boudrot Rd between Salt St and Stewart St, 800 lf of 8" PVC sewer pipe and 4 manholes were installed. And on Salt St between Boudrot Rd and Suffolk Downs Blvd, 400 lf of 8" PVC sewer pipe were installed and 3 manholes.
In FY23, rehabilitation work included: CIPP lining of 13,380 LF of 8-inch sewer; CIPP lining of 2200 LF of 10-inch sewer; CIPP lining of 300 LF of 12-inch sewer; installing service lateral connection liners at 355 locations; installing full length service lateral connection liners at 20 locations; performing 799 VF cement/epoxy manhole lining; sealing 88 manhole corbels; and performing 18 sewer spot repairs. Sewer extensions added: Approximately 210 LF (8-inch PVC) on Walnut Street, 150 LF (8-inch PVC) on Winthrop Place and 150 LF (8-inch PVC) on Campbell Court.

MWRA I/I Local Financial Assistance Program: The community has financed nine (9) I/I reduction projects through the Authority's funding assistance program. Of the $24,325,900 allotted through the Program's Phases 1 - 16, the community has $17,523,000 remaining in funding assistance.

30. SOMERVILLE: North System

Background Information:

- Miles of Sewer: 165
- Sewered Population: 82,149
- Three Year (CY23 - CY25) Annual Average I/I: 4.48 mgd
- MassDEP Administrative Actions: Unilateral Order (September 2010)

Somerville is one of MWRA's five combined sewer service communities (Boston North, Brookline, Cambridge, Chelsea and Somerville). Portions of Somerville are impacted by projects under MWRA's CSO Control Plan.

Latest I/I or SSES Report:

CIP Project 1 - Manhole Inspection, Assessment and Design (March 2021)
CIP Project 2 - Pipeline Inspection, Assessment, and Design (March 2022)
Citywide Drainage and Water Quality Master Plan (November 2022)
Ward 2 - Pipeline Inspection, Assessment, Design and Construction (June 2023)
FY22-23 Pipeline Inspection, Assessment, Design and Construction (Ongoing)
CSO Control Program - Joint Efforts by Cambridge, MWRA & Somerville (Ongoing)
Winter Hill & East Somerville (FY22-23) Pipeline Inspection, Assessment, Design (Ongoing)
West Somerville & Ten Hills (FY23-FY24) Pipeline Inspection, Assessment, Design (Ongoing)

Private Source Inflow Removal Program: The Engineering Division reviewed 88 site construction permits. Each permit enforced the Engineering Site Permit Rules and Regulations. Most involved some amount of redirection of stormwater from the combined sewer system and/or reduced stormwater runoff through groundwater recharge.

I/I Rehabilitation Projects in Design or Construction:
East Somerville & Winter Hill Sewer Rehabilitation: The East Somerville & Winter Hill Sewer Rehabilitation project was substantially complete. The East Somerville & Winter Hill Sewer Rehabilitation has completed approximately 13 Excavated

Point Repairs (EPRs) on the gravity sewer, replacement of 8 manhole-to-manhole pipe segments of gravity sewer totaling 800 linear feet, Cured-in-Place Pipe (CIPP) rehabilitation of 47 manhole-to-manhole pipe segments of gravity sewer totaling 12,300 linear feet, 11 new 4-foot diameter sewer manholes, replacement of 10
sewer manholes, and the rehabilitation and lining of 69 sewer manholes as of June 30, 2024. An additional 2 EPRs, 500 linear feet of gravity sewer replacement, and 1,500 linear feet of CIPP remain and are expected to be completed by August 2024. It is estimated that 0.9MGD of I/I has been removed as a result of completed work.
Poplar Street Pump Station: The Poplar Street Pump Station has progressed, including the slab for the 4- million-gallon storage tank. Approximately ¼ of the total 42" force main has been installed. The remainder of the project, including the influent box culvert and pump house, is bid and will be progressing according to critical path of the storage tank construction. The bid contract drawings for the station includes a 4 million-gallon storage tank and 50 MGD pumping capacity. The Pump Station is expected to be online in late 2026.
Spring Hill Sewer Separation: The construction of this project started in February 2022. To date, the contractor has lined approximately 7,600 LF of (combined) sewer main, and installed approximately 10,200 LF of separated storm sewer line and approximately 2,900 LF of separated sanitary sewer line. Estimated I/I removal is 2.5 MGD (inflow) that will be realized once the Poplar Street Pump Station is completed. In addition, there is an estimated I/I removal of 30,000 GPD (inflow) due to the proposed Green Stormwater Infrastructure that will be realized once construction of this project is complete. Substantial completion of new utility installation is currently anticipated in November 2024.
West Somerville and Ten Hills Sewer Rehabilitation: The contract for the West Somerville & Ten Hills Sewer Rehabilitation project was executed in May 2024 and mobilization occurred in late June 2024. The project consists of general underground utility repair and specialty trenchless pipe rehabilitation on gravity sanitary and storm sewer ranging from 8-in to 20-in diameter. Work includes 13 Excavated Point Repairs (EPRs) on the gravity sewer, replacement of manhole-to-manhole pipe segments of gravity sewer totaling 1,100 linear feet, Cured-in-Place Pipe rehabilitation of manhole-to-manhole pipe segments of gravity sewer totaling 12,500 linear feet, installation or replacement of 12 sewer manholes, and the rehabilitation and lining of 310 vertical feet of sewer manholes. Additional rehabilitation of approximately 7,100LF of separated storm sewer is included in this project. Substantial completion is scheduled for November 2024. This project accounts for approximately 0.4 MGD of I/I removal, based on flow isolation measurements which were taken prior to the beginning of construction.

Reporting Period Activity: West Somerville & Ten Hills (FY23-FY24) Pipeline Inspection, Assessment and Design work ongoing. Winter Hill & East Somerville (FY22-23) construction complete.

MWRA I/I Local Financial Assistance Program: The community has financed twelve (12) I/I reduction projects through the Authority's funding assistance program. Of the $36,621,800 allotted through the Program's Phases 1 - 16, the community has $17,626,000 remaining in funding assistance.

31. STONEHAM: North System

Background Information:

- Miles of Sewer: 75
- Sewered Population: 24,294
- Three Year (CY23 - CY25) Annual Average I/I: 2.09 mgd
- MassDEP Administrative Actions: None
- EPA Clean Water Act Administrative Order: EPA Docket No. 09-028 (August 2009)

Latest I/I or SSES Report: Infiltration/Inflow Analysis Summary Report (December 2017)
Fallon Road Sanitary Sewer Investigations (December 2022)

Private Source Inflow Removal Program: The Town conducted an inflow analysis of the Fallon Road Pump Station tributary area and has removed the identified private inflow sources. The Town is continuing to investigate and eliminate illicit cross-connections between the sanitary sewer and storm water systems as part of its NPDES Phase 3 & 4 MS4 Permit Investigations and Illicit Discharge Detection and Elimination Program (IDDE).

I/I Rehabilitation Projects in Design or Construction: In August 2025, funds were distributed for the Phase 10 Sewer System I/I Rehabilitation (MWRA Project No. WRA-P16-31-3-1601).
Construction has been completed for Phase 9 Sanitary Sewer System Rehabilitation (MWRA I/I Local Financial Assistance Program Project #WRA-P14-31-3-1423). Warranty inspections are expected to be completed Spring of 2027.

Phase 8 Sanitary Sewer System Rehabilitation (MWRA Project No. WRA-P11-31-3-1182) contract awarded March 2023. Project work was completed October 2023.
Phase 7 Sanitary Sewer System Rehabilitation (MWRA Project No. WRA-P11-31-3-1107) contract awarded June 2021. Work included: pre- and post-rehabilitation CCTV inspection, CIPP lining, lateral connection rehabilitation by grout injection, replacement of gravity sewer and lateral connections, manhole bench reconstruction, manhole frame and cover replacement and warranty inspections of rehabilitated sanitary sewers. Project work is complete. Fallon Road / Park Street System Rehabilitation (Phase 1) Project work complete.

Reporting Period Activity: Town is continuing to investigate and eliminate illicit cross-connections between the sanitary sewer and storm water systems as part of its MS4 Permit Compliance. The Town is continuing to evaluate options for establishing a 4:1 I/I removal program in accordance with MassDEP Regulations 314 CMR 12.

MWRA I/I Local Financial Assistance Program: The community has financed fourteen (14) I/I reduction projects through the Authority's funding assistance program. Of the 11,422,900 allotted through the Program's Phases 1 - 16, the community has $2,503,000 remaining in funding assistance.

32. STOUGHTON: South System

Background Information:
- Miles of Sewer: 94
- Sewered Population: 22,751
- Three Year (CY23 - CY25) Annual Average I/I: 1.61 mgd
- MassDEP Administrative Actions since 2010: 538 June 12, 1984

Latest I/I or SSES Report: Year 1 2023 I/I Investigation & Reporting (January 2025)
Wastewater Flow Metering (August 2025)
Year 2 2024 I/I Investigation & Reporting (Ongoing)
Hydraulic Model & Flow Metering – Analysis & Reporting (Ongoing)
Years 1 & 2 (Round 3) Design and CS (Ongoing)
Year 3 Infiltration Inv. & Reporting (Ongoing)

Private Source Inflow Removal Program: The Town has continued to address private inflow removal through jetting and CCTV inspection of service connections.

I/I Rehabilitation Projects in Design or Construction: In November 2025, MWRA funds were allocated for the Sewer Investigation and Rehabilitation: Yr.1-2 Design & Construction / Yr.3 Investigation project (MWRA Project No. WRA-P16-32-3-1606). Project work is ongoing. Details of this project are included in Attachment 4.
In July 2024, additional MWRA funds were distributed for the Years 8 / 9 / 10 I/I Rehabilitation - Construction (MWRA Project No. WRA-P14-32-3-1436). Project work is ongoing.
In March 2023, funds ($1,060,000) were allocated for the Years 8 / 9 / 10 I/I Rehabilitation - Design / Construction and Year 1 2023 I/I Investigation Projects (MWRA Project No. WRA-P14-32-3-1410). Project work for the Years 8 / 9 / 10 I/I Rehabilitation - Construction is ongoing. Project work for the Year 1 2023 I/I Investigation is complete.

Reporting Period Activity: The investigation and analysis for the Year Two Infiltration Project concluded in the winter of 2025. The final report is currently being drafted, with submission anticipated in August 2026 once the latest hydraulic model results and Capital Improvement Plan (CIP) updates are incorporated. Based on the fieldwork, repairs have been identified and recommended to eliminate an estimated 0.015 MGD of peak infiltration and 0.01 MGD of peak inflow.
Construction wrapped up in the summer of 2025 for the Years 8, 9, and 10 Project (24-1), which tackled issues found during field studies between 2021 and 2023. Warranty inspections and retest repairs are currently underway and wrapping up in summer 2026, aiming to remove an estimated 0.075 MGD of peak infiltration and 0.033 MGD of peak inflow.
Year Three Infiltration Project is slated for completion in winter 2026, and the total estimated removable I/I will be reported upon completion of evaluation.

MWRA I/I Local Financial Assistance Program: The community has financed twenty (21) I/I reduction projects through the Authority's funding assistance program. Of the $11,353,900 allotted through the Program's Phases 1-16, the community has $1,069,000 remaining in funding assistance.

33. WAKEFIELD: North System

Background Information:

- Miles of Sewer: 95
- Sewered Population: 29,135
- Three Year (CY23 - CY25) Annual Average I/I: 2.36 mgd
- MassDEP Administrative Actions: None

Latest I/I or SSES Report: Sewer System Evaluation Survey - Year Four (March 2020)
Sewer System Evaluation Survey - Year Five (February 2021)
Sewer System Evaluation Survey - Year Six (March 2023)
Brick Sewer Interceptor Investigation (January 2026)

Private Source Inflow Removal Program: The Town is developing a plan to notify residents in the Paon Boulevard area of a potential pilot building inspection program to investigate private inflow sources.

I/I Rehabilitation Projects in Design or Construction: The Town is currently applying for I/I Financial Assistance to begin the Year 7 Rehabilitation Design and Construction in fall 2026.
The Contract for Year 6 Rehabilitation has been awarded and is scheduled to begin summer 2026. Estimated to remove approximately 20,000 gpd of removable infiltration.
The Sewer System Infiltration Rehabilitation – Year 5 project was substantially complete in July 2024. This project was estimated to remove approximately 10,000 gpd of removable infiltration.
The Year Five Sewer System Evaluation Survey was completed in February 2021 and included CCTV and manhole inspections of approximately 16,000 LF of sewer main. This project identified 1600 gpd of recommended removable peak I/I and structural defects in select areas that are scheduled to be paved within the next few calendar years. Some of these repairs were completed within the Sewer System Infiltration Rehabilitation - Year 4 construction project (MWRA Project No. WRA-P11-33-3-1150). The remaining repairs were incorporated into the Year 5 Sewer System Infiltration Rehabilitation construction contract.
The Sewer System Infiltration Rehabilitation (Year 3 and Year 4) construction contracts were complete February 2023.

Reporting Period Activity: The Town continues to require a 4 to 1 removal of flow from completed subdivisions/ developments. Also, the Town implemented a $500 Sewer Connection Fee in June 2019. In December 2023, funds were distributed for the: Year 6 - Sewer System Infiltration Rehabilitation (Design & Construction). (MWRA Project No. WRA-P14-33-3-1422).

MWRA I/I Local Financial Assistance Program: The community has financed twenty-nine (29) I/I reduction projects through the Authority's funding assistance program. Of the $13,953,900 allotted through the Program's Phases 1 - 16, the community has $4,117,000 remaining in funding assistance.

34. WALPOLE: South System

Background Information:

- Miles of Sewer: 93
- Sewered Population: 19,563
- Three Year (CY23 - CY25) Annual Average I/I: 1.18 mgd
- MassDEP Administrative Actions: None

Latest I/I or SSES Report: I/I Investigation Program (Round 2): Year 5 (January 2021)
2020 Sewer Investigation (July 2021)
I/I Investigation Program (Round 2): Year 6 (April 2023)
2022 Flow Metering Program (May 2023)

CIP Year 1 Investigation (June 2024)
CIP Year 2 Investigation (October 2024)
CIP Year 3 Investigation (January 2026)

Private Source Inflow Removal Program: The Town includes house-to-house private inflow inspection program as part of its water meter replacement program. Effective July 1, 2025, developers having projects with discharges in excess of 15,000 gpd are required to remove I/I at a ratio of 4:1 as a condition of a sewer connection. For discharges less than 15,000 gpd the I/I removal program remains in place; however, it will now be fully funded by the town. The town no longer charges I/I removal fees however the local Sewer Commission is currently investigating the re-establishment of this fee.

I/I Rehabilitation Projects in Design or Construction: Review and reporting for the CIP Year 3 Investigation was completed January 2026. Approximately 11,232 gpd of peak infiltration was observed during television inspection and 28,671 gpd of peak infiltration was measured through flow isolation. In addition, approximately 5,040 gpd of peak infiltration was identified during manhole inspection.
Field work for a lateral inspection program was completed in Spring 2026. Evaluation of the data is ongoing.
Review and reporting for the CIP Year 2 Investigation was completed October 2024. Approximately 20,448 gpd of peak infiltration was observed during television inspection and 23,829 gpd of peak infiltration was measured through flow isolation. In addition, approximately 14,976 gpd of peak infiltration and 9,160 gpd of peak inflow was identified during manhole inspection.
Review and reporting for the CIP Year 1 Investigation was completed June 2024. Approximately 12,816 gpd of peak infiltration was observed during television inspection and 4,176 gpd of peak infiltration and 10,946 gpd of peak inflow was identified during manhole inspection.

Reporting Period Activity: In March 2026, funds ($656,790) were distributed for the CY2025 Sewer System Improvements Project (MWRA Project No. WRA-P16-34-2-1617. Project work is ongoing.
In March 2025, funds ($332,160) were distributed for the Wastewater CIP Year 3 Investigation Project (MWRA Project No. WRA-P14-34-2-1446). Project work is ongoing.
In April 2024, funds ($335,000) were distributed for the Wastewater CIP Year 2 Investigation Project (MWRA Project No. WRA-P14-34-1-1433).
The CIP 1 I/I Investigation (MWRA Project No. WRA-P14-34-1-1405) was completed in Spring 2023.

MWRA I/I Local Financial Assistance Program: The community has financed thirteen (13) I/I reduction projects through the Authority's funding assistance program. Of the $8,876,000 allotted through the Program's Phases 1 - 16, the community has $2,746,000 remaining in funding assistance.

35. WALTHAM: North System

Background Information:
- Miles of Sewer: 137
- Sewered Population: 65,010
- Three Year (CY23 - CY25) Annual Average I/I: 3.09 mgd
- MassDEP Administrative Actions: ACOP-NE-10-1N001 (February 2010 / amended November 2019)

Latest I/I or SSES Report: CMOM Plan and Sewer System Flow Metering (September 2020)
Sewer System Flow Metering and Analysis (February 2022)
Sewer System Evaluation Study for Meter Area 8 (Ongoing)

Private Source Inflow Removal Program: From July 2025 – June 2026: 50 Sewer laterals were repaired/replaced , main line to property line by the City of Waltham crews. The city has conservatively estimated that the relaying of the old sewer laterals has removed 263 GPD on I & I. Based upon the length of sewer laterals, a total of 1210 feet of pipe were replaced. 17 services were also replaced as part of the water and sewer services contract.
From January 2025 – June 2025: 27 Sewer laterals were repaired/replaced, main line to property line by the City of Waltham crews. The city has conservatively estimated that the relaying of the old sewer laterals has removed 133 GPD on I & I. Based upon the length of sewer laterals, a total of 520 feet of pipe was replaced.

From July 2024 to December 2024: 14 Sewer laterals were repaired/replaced mainline to property line by the City of Waltham crews. The city has conservatively estimated that the relaying of the old sewer laterals has removed 62 GPD of I & I. Based upon the length of the sewer laterals, a total of 220.5 feet of pipe was replaced.

I/I Rehabilitation Projects in Design or Construction: In addition, extra remaining funds from the Bear Hill Valley SMH Rehabilitation Project were reallocated to I/I-related work associated with the Lead Gooseneck Removal Project (LRP26-64).
The remaining funds from the Bear Hill Valley SMH Rehabilitation Project were reallocated to I/I-related work associated with the Winter and Lincoln Streets Utility Improvement Project (LWSAP24-199/393). The expected annual average I/I removal was 44,238 gpd. N. Granese & Sons completed this project. The Winter Street Utility Improvements began January 2024. Sewer work includes CCTV inspection, CIPP lining, sewer repairs, and service replacements. This would result in an estimated annual average I/I removal of 44,238 gpd. As part of MWRA's Section 101 Pipeline Extension project in the city, approximately 2,700 LF of sewer main, and sewer laterals are being replaced from Lexington Street to Totten Pond Road. Construction began in April 2023 and expected completion 2025.
In March 2021, MWRA funds were distributed for the Bear Hill Valley Sewer and Manhole Rehabilitation Project (MWRA Project No. WRA-P11-35-3-1167). The estimated average annual I/I removal is 0.21 mgd and construction got underway in March 2021. Project was completed as of March of 2023.
The Prospect Hill Road project includes lining approximately 640 LF of sewer main, associated manholes, and sealing of laterals. Several other sewer rehabilitation projects are ongoing throughout the City including sewer lining on Clark Street, Summit Ave Roadway, Glen Circle, and Lincoln Terrace. Removable infiltration and inflow totals to be reported upon completion of these projects.

Reporting Period Activity: The city continued sewer repairs, pipe lining, and service replacements as part of the Winter Street project, alongside ongoing sewer main and service replacements for the MWRA Lexington Street Project. On Prospect Hill Road, the sewer lining of approximately 560 feet of sewer main, rehabilitating associated manholes, and sealing sewer lateral connections. The city completed CCTV inspections of roughly 52,000 feet of sewer main and 360 manholes as part of the SSES survey in sewer shed Area 8.
The Water and Sewer Services Replacement contract was completed, resulting in the replacement of 5,635 feet of 6-inch sewer, 568 feet of 8-inch sewer, and 200 feet of 10-inch sewer. On South Street, the city completed CCTV inspections and are currently developing plans to install a pipe liner for 480 feet of 8-inch sewer.
The city has upcoming developer I/I reduction projects that have been scheduled across three primary areas of the city. These upcoming pipeline and manhole lining improvements will target approximately 17,500 feet of 6- to 10-inch pipe in the Bacon Street area, 5,300 feet of 6- to 24-inch pipe in the Felton Street area, and 6,400 feet of 6- to 24-inch pipe in the School Street area.

MWRA I/I Local Financial Assistance Program: The community has financed ten (10) I/I projects through the Authority's funding assistance program. Of the $31,278,400 allotted through the Program's Phases 1 - 16, the community has $12,063,840 remaining in funding assistance.

36. WATERTOWN: North System

Background Information:
- Miles of Sewer: 75
- Sewered Population: 35,985
- Three Year (CY23 - CY25) Annual Average I/I: 2.05 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: CIP Project 2 Investigation and Evaluation (December 2022)
CIP Projects 3 & 4 Investigation and Evaluation (December 2022)
CIP Projects 5 Investigation and Evaluation (Ongoing)

Private Source Inflow Removal Program: The City of Watertown Department of Public Works continues to work with Weston & Sampson to develop an I/I mitigation fee consistent with neighboring communities. No developments have contributed to fund sewer investigations and rehabilitations at this time. As projects progress to development this will change.

I/I Rehabilitation Projects in Design or Construction: In February 2026, MWRA funds were distributed for: CIP Projects 3/4 Sewer Rehabilitation Construction (MWRA Project No. WRA-P14-36-3-1609). Project is ongoing. Details of this project are included in Attachment 4.
In February 2025, MWRA funds were distributed for: CIP Projects 3/4 Rehab Construction & CIP Project 5 Investigation (MWRA Project No. WRA-P14-36-3-1440). Project is ongoing.
In November 2022, MWRA funds were distributed for: CIP Project 2: I/I Investigation & Rehabilitation Program (MWRA Project No. WRA-P14-36-3-1401). Project is ongoing.

Reporting Period Activity: The CIP Project 2 Sewer Rehabilitation started on March 3, 2025. Warranty inspections are currently being completed. The project area includes an estimated 12,456 gpd of removable infiltration and 4,000 gpd of removable inflow. A portion of the rehabilitations recommended in the CIP Project 2 area were included in Watertown's Mount Auburn Street Water Main Improvement project. CIP Project 2 area open cut point repairs totaling approximately $647,375.00 were completed as part of the Mount Auburn Street Project.
The CIP Project 3 & 4 Sewer Rehabilitations is beginning. Public bids were opened on May 19, 2026 with work scheduled to begin in July 2026. The project area includes an estimated 12,816 gpd of removable infiltration and 8,184 gpd of removable inflow.
The CIP Project 5 Investigation and Evaluation project began in March 2026. The remainder of field investigations are scheduled to be performed in July 2026. Review and evaluation of the data is ongoing. Infiltration and Inflow estimates will be provided in the CIP Project 5 Report upon completion.
The City of Watertown relocated the sewer main located in the easement between Greenough Boulevard and the Charles River into the right of way on Greenough Boulevard. The project is substantially complete and approximately 2,825 linear feet of sewer was replaced. The rehabilitations were recommended as part of CIP Project 4. Open cut replacements totaling approximately $3,995,000 were completed as part of this project.

MWRA I/I Local Financial Assistance Program: The community has financed thirteen (14) I/I investigation projects through the Authority's funding assistance program. Of the $14,457,800 allotted through the Program's Phases 1 - 16, the community has $2,600,000 remaining in funding assistance.

37. WELLESLEY: South System

Background Information:
- Miles of Sewer: 135
- Sewered Population: 30,690
- Three Year (CY23 - CY25) Annual Average I/I: 2.45 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: I/I Analysis and Flow Metering Program (April 2019)
SSES (Ongoing)

Private Source Inflow Removal Program: The Town will pursue illegal sump pump connections identified through this year's water meter change-out program. The Town has fewer than 20 meters to change out and will continues to use this opportunity to investigate any illegal connections. The town previously offered sewer rodding as a service to its customers, we ended that policy in FY25 to encourage replacement of older sewer laterals, while also offering an rebate program for the replacement of orange burg services. Based upon previous private source inflow studies, DPW is contacting the owners of identified illegal sump pumps. To date, 18 sump pumps have been removed from the sanitary system.

I/I Rehabilitation Projects in Design or Construction: In FY 24 as part of the third year of the contract, National Water main performed CCTV inspections on 243,323 LF of sewer mains. We have contracted with Weston and Sampson to investigate those videos and prepare a summary of deficiencies and problem areas. Both cost-effective and value-effective analyses of various sewer rehabilitation methods will be conducted to assist with recommendation for improvements to the wastewater collection system.

Sewer System Inspection and Rehabilitation (Contract No. 16C-460-1564 / MWRA Project No. WRA-P11-37-3-1152) work consisted of CCTV inspection of 62,800 LF of sewer; chemical root treatment of 7500 LF of sewer; testing 8800 joints and

sealing/retesting 3100 joints; installing 24 LF of CIP short liners; testing & sealing six (6) service connections and sealing 400 VF of manholes. Project work is complete.

Cliff Road Sewer Main Lining (MWRA Project No. WRA-P11-37-3-1152) work consisted of CCTV inspection, installation of CIPP lining within 5260 LF of 8-inch VC sewer main and reinstatement of all active house service connections on Cliff Road. Additional project rehabilitation work consisted of CCTV inspection, installation of CIPP lining within 424 LF of 8-inch VC sewer main and reinstatement of all active house service connections along a sewer easement between Kingsbury Street and Donizetti Street. Project work is complete.

Reporting Period Activity: In FY26, The town contracted with Weston & Sampson to conduct sewer manhole inspections and review CCTV footage in Phase 5 of our SSES. That work was done to inform our FY27 Sewer Rehabilitation Contract. Two sewer point repairs were made by the town.
In May 2024, funds ($2,150,000) were distributed for the Sewer System Inspection and Rehabilitation (Contract No. 19S-410-1609 & No. 21C-460-1663); Mica Lane Sewer Rehabilitation Project (Contract No. 21C-460-1664); Grove Street Sewer Rehabilitation Project (Contract No. 19C-460-1629); Open-Cut Sewer Repairs (Contract No. 22C-460-1691) Projects (MWRA Project No. WRA-P14-37-3-1434). Project work is ongoing.

A wastewater flow metering program (conducted April 11 - June 20, 2018) utilizing 38 flow meters was completed. The *Report for the I/I Analysis and Flow Metering Program* provided an overview of the results for the 2018 Flow Metering Program including recommendations for the next phase of investigations. The I/I Analysis identified approximately 3.40 mgd of total peak infiltration in the community system. Peak design storm inflow (for the 5-year, 24-hour storm) was calculated to be approximately 13.5 mgd. As a follow-up to the I/I Analysis, the Town is now conducting an SSES. The purpose of this study is to identify subareas of I/I throughout Wellesley's sanitary sewer system (MWRA Project No. WRA-P11-37-3-1152).

MWRA I/I Local Financial Assistance Program: The community has financed fifteen (15) I/I reduction projects through the Authority's funding assistance program. Of the $13,282,700 allotted through the Program's Phases 1 - 16, the community has $6,393,000 remaining in funding assistance.

38. WESTWOOD: South System

Background Information:

- Miles of Sewer: 89
- Sewered Population: 15,642
- Three Year (CY23 - CY25) Annual Average I/I: 0.54 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: FY21 Infiltration Rehabilitation Program (January 2021)
FY23 Infiltration Rehabilitation Program (September 2023)
FY25 Infiltration Rehab Program (January 2026)

Private Source Inflow Removal Program: A house-to-house inspection survey has been completed. The survey included inspection of 1880 residences and identified 135 suspect sump pumps. Sump pump removal notification letters forthcoming. The Town continues to use contracted services to CCTV inspect sewer mains at various locations for evidence of inflow.

I/I Rehabilitation Projects in Design or Construction: FY25 Sewer System Investigations were completed in January 2026. The continuation of Westwood's I/I program included 28,500-feet CCTV inspection, and the inspection of 154-manholes in the vicinity of Canton Street, Brook Street, and neighborhoods east and west of Route 1.
Construction began in June 2026, and should be completed by September 2026. This includes work on Nahatan Street, the Lull-Loring-Hillview-Curtis neighborhood, Clapboardtree Street, and the Brook Street pump station neighborhood. The work will include installing cured-in-place pipe (CIPP) liner; leak repairs; heavy cleaning; service lateral connection re-instatement after new CIPP liner installation; service lateral connection repairs; and manhole repairs and lining. The work is estimated to remove 14.3 gpm of infiltration, or 0.02 MGD, as reported in the FY25 Infiltration Rehab Program report.
FY24 Sewer System Rehabilitation Construction is complete. The Work included installing cured-in-place pipe (CIPP) liner for approximately 3,300 linear feet; leak repairs; heavy cleaning; service lateral connection re-instatement after new CIPP

liner installation; service lateral connection repairs; and manhole repairs and lining. 62,000-gpd of I/I was estimated to be reduced in the system based on inspections.
FY23 Sewer System Investigations is complete. Wastewater flow meters were installed in three locations throughout the Town. Smoke testing, manhole inspections and CCTV inspection will occur in the area upstream of the meter with the highest infiltration and inflow volumes. Smoke testing, manhole inspections and CCTV inspection will performed Summer 2023. Rehabilitation construction rehabilitation is planned for Fall/Winter 2023.

Reporting Period Activity: In March 2026, funds ($500,000) were distributed for the FY25 / FY26 I/I Rehabilitation Project (MWRA Project No. WRA-P16-38-3-1616). Project work is ongoing.

MWRA I/I Local Financial Assistance Program: The community has financed ten (10) I/I reduction projects through the Authority's funding assistance program. Of the $6,268,300 allotted through the Program's Phases 1 - 16, the community has $2,677,000 remaining in funding assistance.

39. WEYMOUTH: South System

Background Information:

- Miles of Sewer: 205
- Sewered Population: 58,913
- Three Year (CY23 - CY25) Annual Average I/I: 4.70 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: Town-Wide Sewer Investigation - Year 9 (March 2021)
Town-Wide Sewer Investigation - Year 10 (November 2021)
Town-Wide Sewer Investigation - Year 11 (January 2023)
Town-Wide Sewer Investigation - Year 12 (April 2024)
Town-Wide Sewer Investigation – Year 13 (July 2025)
Town-Wide Sewer Investigation – Year 14 (February 2026)
Spring 2026 Investigation (Ongoing)

Private Source Inflow Removal Program: The Town continues to pursue the removal of sump pumps and other private inflow sources. The Town has completed the redirection of 330 sump pumps (for an estimated 165,000 gpd of inflow removal).

I/I Rehabilitation Projects in Design or Construction: Construction of rehabilitations recommended from the Year 11 Investigation was completed in November 2024 and is estimated to have removed approximately 0.041 MGD of peak infiltration and 0.011 MGD of peak design storm inflow.
Design of rehabilitations recommended from the Year 12 Investigation is ongoing and will be completed Summer 2025. Construction to begin Fall 2025 and is estimated to remove 0.080 MGD of peak infiltration and 0.002 MGD of peak design storm inflow.
The Year 13 Investigation report was completed in June 2025 and identified approximately 44,250 gpd of infiltration. The Year 14 Investigation is currently ongoing.

The Year 12 Investigation report was completed in April 2024 and identified approximately 80,000 gpd of infiltration and 2,000 gpd of peak design storm inflow.
Design of rehabilitations recommended from the Year 11 Investigation was completed in May 2024 and construction began in July 2024. Construction of these rehabilitations is estimated to remove approximately 0.041 MGD of peak infiltration and 0.011 MGD of peak design storm inflow.
The Year 9 & 10 I/I Rehabilitation Construction (Weymouth Contract No. PW-22-003-S) began Fall 2022 and was substantially complete June 2023 (MWRA Project No. WRA-P11-39-3-1195). Approximately 0.12 mgd of infiltration and 0.009 mgd of peak design storm inflow was removed through construction. The Year 9 & 10 I/I Rehabilitation Construction Design completed Spring 2022 (MWRA Project No. WRA-P11-39-2-1185).

Reporting Period Activity: In March 2026, funds ($425,000) were distributed for the Year 13 I/I Rehabilitation Design and Year 15 I/I Investigation Study/Reporting Projects (MWRA Project No. WRA-P16-39-2-1613). Project work is ongoing. Details of this project are included in Attachment 4.

In March 2025, funds ($1,012,316) were distributed for the Year 12 I/I Rehabilitation Construction and Year 14 I/I Investigation Study/Reporting Projects (MWRA Project No. WRA-P14-39-3-1448).

The Year 11 I/I Rehabilitation Design Project is complete (MWRA Project No. WRA-P14-39-2-1409). The design of the Year 11 I/I Rehabilitations includes approximately: 7400 LF of cleaning, inspecting, testing, and sealing of sewers; 4400 LF of light cleaning and television inspection; 2400 LF of heavy cleaning and television inspection; 7400 LF of cured-in-place pipe and structural cured-in-place pipe; installation of short liners and structural short liners at eight (8) locations; testing and grouting of 34 service laterals; installing lateral liners at five (5) locations; open cut point repair at four (4) locations; manhole cementitious lining at 52 locations; replacing one (1) sewer manhole frame & cover; repairing one (1) sewer manhole bench & invert; and installing 11 manhole inflow dishes.

The Year 12 I/I Investigation is complete (MWRA Project No. WRA-P14-39-2-1409). Field investigations have been completed. The Year 11 I/I Investigation was completed January 2023 (MWRA Project No WRA-P11-39-2-1185). The Year 10 I/I Investigation (MWRA Project No WRA-P11-39-3-1157) was completed November 2021. The Year 9 I/I Investigation was completed in March 2021.

The 2021 Town-Wide Wastewater Flow Metering Project is complete. Flow from the Town's 31 subareas was monitored with 36 flow meters from March 22 to June 16, 2021. Summary Report completed January 2022.

Sewer extensions in FY25 include: Installation of 250 LF of 6-inch PVC sewer at 257-261 Washington St.; installation of 500 LF of 8-inch PVC sewer at 1197 Washington Street; and installation of 1,450 LF of 8-inch PVC sewer at 1350 Washington Street.

MWRA I/I Local Financial Assistance Program: The community has financed twenty-six (26) I/I reduction projects through the Authority's funding assistance program. Of the $27,667,900 allotted through the Program's Phases 1 - 16, the community has $10,682,000 remaining in funding assistance.

40. WILMINGTON: North System

Background Information:

- Miles of Sewer: 31
- Sewered Population: 5,018
- Three Year (CY23 - CY25) Annual Average I/I: 0.85 mgd
- MassDEP Administrative Actions: None

Latest I/I or SSES Report: Infiltration/Inflow Analysis Report (December 2017)
SSES Sub-Areas 5, 6 and 8 Report (November 2018)

Private Source Inflow Removal Program: The Town is continuing private inflow source inspections on an as-needed basis. The Town continues to evaluate options for establishing a 4:1 I/I removal program in accordance with MassDEP Regulations 314 CMR 12.

I/I Rehabilitation Projects in Design or Construction: Sewer System Rehabilitation Construction for I/I rehabilitation in Sub-Areas 5 and 8 (MWRA Project Nos. WRA-P11-40-3-1118 / 1136) was completed September 2021. Project Warranty Inspections were completed Fall 2022. Minor issues had to be corrected after warranty inspections; reparations were completed in Fall 2023. An estimated 60,000 gpd of I/I was removed from the system as a result of the sewer rehabilitation.

Reporting Period Activity: Industrial Way Pump Station upgrades: Construction is expected to commence summer of 2026. Construction at #208 Main Street for the redevelopment of existing commercial space has been completed. Arcadis provided a sewer capacity assessment and peer review for this project.
There is ongoing construction at #271 Main Street for the expansion of an existing car dealership. Arcadis provided a sewer capacity assessment and peer review for this project.
Construction began at 100-104 West Street for a new 132-unit residential apartment and townhouse complex. Arcadis provided a sewer capacity assessment and peer review for this project.
The Town is planning to implement a Sanitary Sewer Evaluation Survey (SSES) this year to identify I/I in their main interceptor and various low-lying areas.

MWRA I/I Local Financial Assistance Program: The community has financed eight (8) I/I reduction projects through the Authority's funding assistance program. Of the $6,184,000 allotted through the Program's Phases 1 - 16, the community has $3,722,000 remaining in funding assistance.

41. WINCHESTER: North System

Background Information:
- Miles of Sewer: 85
- Sewered Population: 23,909
- Three Year (CY23 - CY25) Annual Average I/I: 2.09 mgd
- MassDEP Administrative Actions: None

Latest I/I or SSES Report: Stowell & Marshall Road Sewer System Evaluation (January 2014)
Sewer System Evaluation Survey (SSES) Phase II (November 2016)
East Side CIP Project 1 SSES (March 2024)
East Side CIP Project 2 SSES (July 2026)

Private Source Inflow Removal Program: The Town's Private Inflow Source Removal Program is ongoing. One (1) sump pump was removed from the system in FY22/23.

I/I Rehabilitation Projects in Design or Construction: The East Side Project 1 Sanitary Sewer Rehabilitations Project was substantially completed in June 2026. Warranty re-test inspection will be scheduled in Spring 2027. East Side Project 2 Design & Bid & Award will be performed in Summer/Fall 2026, with Construction beginning in Spring 2027. The East Side Project 2 SSES identified 30,168 gpd of recommended removable infiltration and 20,150 gpd of removable inflow.

Reporting Period Activity: In May 2026, funds ($1,237,000) were distributed for CIP Project 2 Sewer Rehabilitations (MWRA Project No. WRA-P16-41-3-1618). Project Details are included in Attachment 4.
In February 2025, Phases 13 & 14 funds were distributed for CIP Project 1 Sewer Rehabilitations and CIP Project 2 SSES (MWRA Project No. WRA-P14-41-3-1442).

The East Side CIP Project 1 SSES began in April 2022. Manhole inspections and flow isolation work is complete. Field investigations for East Side CIP Project 1 SSES, including cleaning and television inspection, were completed in June 2023. Data evaluation and reporting was completed in March 2024.

MWRA I/I Local Financial Assistance Program: The community has financed thirteen (13) I/I reduction projects through the Authority's funding assistance program. Of the $9,822,000 allotted through the Program's Phases 1 - 16, the community has $912,000 remaining in funding assistance.

42. WINTHROP: North System

Background Information:
- Miles of Sewer: 36
- Sewered Population: 18,739
- Three Year (CY23 - CY25) Annual Average I/I: 1.27 mgd
- MassDEP Administrative Actions: NON - May 2018 Failed to Submit I/I Analysis (Due 12/31/17)

Latest I/I or SSES Report: I/I Analysis Report (October 2019)
Flow Monitoring Program (May 2020)
Phase 2 Sewer System Evaluation Survey (June 2021)
Phase 3 Sewer System Evaluation Survey (Ongoing)

Private Source Inflow Removal Program: In December 2025, the Town's MS4 Program found a sewer lateral at 196 Woodside Avenue that was leaking into a storm drain manhole. The Town notified the homeowner, and the sewer lateral was repaired.

In September 2024, work under the Town's MS4 program found a sump pump connection to the sanitary sewer at 430 Revere Street. The Town notified the property owner and the connection was removed from the sanitary sewer. The DPW, in partnership with the Town's Building and Plumbing Inspectors, continues to actively seek out illegal sump pump connections to the Town's sewer system. Smoke testing was postponed due to scheduling conflicts. Smoke testing work will be included within the remaining CCTV inspection work in the next phase of the Town's Sanitary Sewer System Evaluation Survey. Inspection data will be reviewed and recommendations to remove I/I will be summarized in a report.

I/I Rehabilitation Projects in Design or Construction: In December 2021, MWRA funds were distributed for the Phase 3 SSES Project (MWRA Project No. WRA-P11-42-1-1181). Project Work is complete.
In February 2021, MWRA funds were distributed for the Revere Street Emergency Sewer Repair (MWRA Project No. WRA-P11-42-3-1169). Project Work is complete.
In April 2020, MWRA funds were distributed for the following projects: Phase 2 SSES and Palmyra St. & Crescent St. Sewer Improvements (MWRA Project No. WRA-P11-42-3-1145). Project Work is complete.

Reporting Period Activity: Approximately 31,500 LF of 8 to 15-inch sewer main was cleaned and CCTV inspected during Fall 2021. The inspections were reviewed and infiltration observed in each subarea inspected was estimated. An analysis was also completed to determine where rehabilitation to remove I/I entering the sanitary sewer system is cost-effective. The Phase 3 SSES report is substantially complete. In December 2021, MWRA funds were distributed for the Phase 3 SSES Project (MWRA Project No. WRA-P11-42-1-1181).
The Palmyra Street and Crescent Street Sewer Improvements Project was completed in 2021/2022 (MWRA Project No. WRA-P11-42-3-1145). Project work consisted of sewer main replacement construction on Palmyra Street, Wheelock Street, Pauline Street and Crescent Street. Work included replacing approximately 1265 LF feet of 8 and 15-inch vitrified clay (VC) sewer mains with new 8 through 12-inch polyvinyl chloride (PVC) sewer mains.
The replacement of approximately 350 LF of gravity sewer on Jefferson Street was added to the Centre Business District project (MWRA Project No. WRA-P11-42-3-1144) based on unforeseen site conditions observed during construction of drainage improvements on Jefferson Street. The existing 6-inch VC sewer main in Jefferson Street was found to have collapsed in two locations and inspections noted that the remaining section of pipe was deteriorating. A new 8-inch SDR 35 PVC sewer main (including two new precast concrete manholes) was installed to replace the existing 6-inch VC sewer main.

MWRA I/I Local Financial Assistance Program: The community has financed fifteen (15) I/I reduction projects through the Authority's funding assistance program. Of the $7,963,400 allotted through the Program's Phases 1 - 16, the community has $2,880,000 remaining in funding assistance.

43. WOBURN: North System

Background Information:
- Miles of Sewer: 164
- Sewered Population: 43,074
- Three Year (CY23 - CY25) Annual Average I/I: 3.55 mgd
- MassDEP Administrative Actions Since 2010: None

Latest I/I or SSES Report: CIP Project 5 - Sewer Investigation and Evaluation (February 2021)
CIP Smoke Testing - Project 2 (September 2021)
North Woburn Trunk Sewer Design - Investigation (ongoing)
CIP Project 6 – Phase 1 – Sewer Investigation and Evaluation (July 2025)
Woburn Center and North Woburn Trunk Sideline Investigation (July 2026)

Private Source Inflow Removal Program: No private inflow removal activity occurred during this reporting period.

I/I Rehabilitation Projects in Design or Construction: In April 2025, funds ($1,990,000) were distributed for CIP Project 5 Design/Construction (MWRA Project No. WRA-P14-43-3-1450). Project is ongoing.
In September 2023, funds ($1,840,000) were distributed for the following projects: North Woburn Trunk Sewer Design & Construction, and CIP 3 & 4 Post Construction Flow Evaluations (MWRA Project No. WRA-P14-43-3-1418).
CIP Project 4 Rehabilitations began Spring 2022 (MWRA Project No. WRA-P11-43-3-1134). Project work completed Fall 2022. Warranty retest inspections were completed Spring 2023. The project removed an estimated 27,606 gpd of peak infiltration and 17,473 gpd of peak inflow.

CIP Project 3 Rehabilitations warranty retest inspections were completed Spring 2022 (MWRA Project No. WRA-P11-43-3-1108). The project removed an estimated 56,981 gpd of peak infiltration and 9602 gpd of peak inflow.

Reporting Period Activity: CIP Phase 5 Sewer Rehabilitations began July 2026 and is anticipated to be completed by January 2027. The project is estimated to remove 24,552 gpd of peak infiltration and 14,176 gpd of peak inflow.

MWRA I/I Local Financial Assistance Program: The community has financed sixteen (16) I/I reduction projects through the Authority's funding assistance program. Of the $23,029,500 allotted through the Program's Phases 1 - 16, the community has $4,524,000 remaining in funding assistance.

ATTACHMENT 6
TO
MWRA ANNUAL I/I REDUCTION REPORT FOR FY26
Reporting Period – July 2025 Through June 2026

CY25 COMMUNITY WASTEWATER FLOW DATA

This Attachment contains CY25 wastewater flow data for the 43 MWRA member sewer communities. There are four separate data tables detailed below:

TABLE 1 (Section Page 6-2) presents the CY25 MWRA Wastewater Metering System Community Flow Estimates. This data is monthly total wastewater flow estimates for each of the 43-member sewer communities derived from MWRA's wastewater metering system. Each community's percent share average daily flow and percent share maximum month flow are used as components of MWRA's annual wholesale sewer charge.

TABLE 2 (Section Page 6-3) presents the CY25 MWRA Community Wastewater Flow Component Estimates. This data is developed through an engineering analysis by MWRA staff to estimate wastewater flow components, including: dry day average daily flow, average daily infiltration, average daily sanitary flow and average daily inflow. The data in TABLE 2 is annual data. The percent share for each estimated flow component is also presented. The data presented in TABLE 2 is a summary of the more detailed monthly flow component analysis presented in TABLE 4. The estimated average daily sanitary flow (non-I/I flow) includes: residential, commercial, industrial and institutional flows.

TABLE 3 (Section Page 6-4) presents the CY25 Final Community Wastewater Flow Component Estimates with additional information based on estimated community inch-diameter-miles of sewer.

TABLE 4 (Section Pages 6-5 through 6-17) presents the CY25 Estimated Community Wastewater Flow Components by month. This data is developed through an engineering analysis by MWRA staff of each community's monthly wastewater flow (derived from MWRA's wastewater metering system) to estimate flow components, including: dry day average daily flow, average daily infiltration, average daily sanitary flow and average daily inflow. The data listed as MWRA Estimated Infiltration is a calculated estimate of the infiltration entering MWRA-owned sewers that are upstream of wastewater flow meters within a community. The calculation is a weighted allocation of the Raw Estimated Infiltration to the portion of the sewer system that is MWRA-owned versus community-owned. The weighted allocation is based on inch-diameter-miles of MWRA-owned and community-owned sewer. The data presented in TABLE 4 is also presented in TABLE 2 as an annual summary.

TABLE 1 - CY25 MWRA WASTEWATER METERING SYSTEM COMMUNITY FLOW ESTIMATES

Community	Total Population	Sewered Population	CY25 Average Daily Flow (ADF) By Calendar Month (MGD)												12 Month Average Daily Flow (MGD)	Percent Average Daily Flow	Max. Month ADF (MGD)	Percent Max. Month ADF
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
Arlington	46,111	46,074	4.29	4.38	6.16	5.98	6.37	5.17	3.56	3.24	3.41	4.07	4.28	4.15	4.59	1.5%	6.37	1.6%
Ashland	18,591	14,573	1.26	1.28	1.51	1.53	1.71	1.43	1.28	1.28	1.28	1.33	1.39	1.55	1.40	0.5%	1.71	0.4%
Bedford	14,394	14,023	1.98	2.07	2.67	2.81	2.98	2.27	1.63	1.47	1.56	1.42	1.41	1.61	1.99	0.7%	2.98	0.7%
Belmont	26,886	26,530	2.66	2.92	3.71	3.63	3.88	2.73	1.86	1.76	1.92	2.45	2.42	2.35	2.69	0.9%	3.88	1.0%
BWSC	653,833	653,833	79.42	88.01	97.91	94.77	107.99	79.59	78.72	71.02	75.79	93.85	77.20	80.01	85.37	28.5%	107.99	27.1%
Braintree	38,490	38,419	6.38	7.11	8.46	7.87	8.60	5.88	5.85	4.11	4.49	6.33	6.12	6.37	6.46	2.2%	8.60	2.2%
Brookline	62,962	62,903	6.56	6.80	8.72	8.03	9.16	6.72	6.07	5.53	5.55	6.92	6.02	5.67	6.82	2.3%	9.16	2.3%
Burlington	26,527	26,369	3.25	3.37	4.39	4.29	4.55	3.78	2.89	2.63	2.53	2.60	2.79	2.97	3.34	1.1%	4.55	1.1%
Cambridge	118,214	118,193	19.82	21.61	24.59	23.11	26.27	19.24	21.08	18.69	21.19	23.95	18.67	18.87	21.43	7.2%	26.27	6.6%
Canton	24,635	17,271	3.08	3.10	4.25	4.15	4.38	3.40	3.59	2.74	2.65	2.99	2.93	3.07	3.36	1.1%	4.38	1.1%
Chelsea	38,319	38,319	5.25	6.05	6.88	6.77	8.43	5.23	5.97	4.90	5.55	7.10	5.29	5.56	6.09	2.0%	8.43	2.1%
Dedham	24,968	24,090	3.43	3.36	4.59	4.26	4.68	3.66	2.78	2.38	2.37	2.98	3.08	3.10	3.39	1.1%	4.68	1.2%
Everett	50,318	50,318	5.24	5.72	6.54	6.12	6.74	5.27	5.11	4.72	5.03	5.63	5.18	5.17	5.54	1.9%	6.74	1.7%
Framingham	71,875	69,950	7.08	7.58	9.02	9.27	11.09	7.79	6.06	5.73	5.48	5.97	6.50	6.29	7.32	2.4%	11.09	2.8%
Hingham	7,516	7,137	1.17	1.43	1.69	1.55	1.91	1.23	1.21	0.81	0.80	1.45	1.32	1.27	1.32	0.4%	1.91	0.5%
Holbrook	11,284	10,297	1.25	1.28	1.43	1.27	1.29	1.02	0.89	0.83	0.83	0.98	1.05	1.16	1.11	0.4%	1.43	0.4%
Lexington	33,882	33,386	4.62	4.70	7.13	7.07	7.52	6.95	4.26	3.52	3.17	3.61	4.16	4.31	5.09	1.7%	7.52	1.9%
Malden	65,133	64,856	7.27	7.62	9.47	9.23	10.21	7.58	6.60	6.18	6.19	7.28	7.13	6.87	7.64	2.6%	10.21	2.6%
Medford	58,744	58,709	6.89	7.80	9.87	9.45	10.07	6.82	5.63	5.25	5.54	6.85	6.48	6.47	7.26	2.4%	10.07	2.5%
Melrose	29,357	29,321	3.13	3.43	5.00	4.61	4.81	2.98	2.07	1.96	2.08	2.58	2.61	2.56	3.15	1.1%	5.00	1.3%
Milton	28,374	27,736	4.13	4.46	5.97	5.55	5.82	3.82	2.96	2.62	2.61	3.85	3.59	3.51	4.07	1.4%	5.97	1.5%
Natick	36,518	33,932	2.82	2.94	3.74	3.73	4.13	3.25	2.59	2.47	2.44	2.57	2.58	2.68	3.00	1.0%	4.13	1.0%
Needham	32,157	30,911	3.77	3.82	5.19	5.01	5.63	4.34	3.45	3.37	3.42	3.68	3.51	3.61	4.07	1.4%	5.63	1.4%
Newton	88,415	87,690	12.89	13.11	18.70	18.23	20.04	14.52	11.03	9.81	9.63	12.11	12.24	12.00	13.70	4.6%	20.04	5.0%
Norwood	31,230	31,029	5.77	5.90	7.94	7.04	7.84	5.68	4.79	3.81	3.88	4.79	4.84	5.00	5.61	1.9%	7.94	2.0%
Quincy	101,597	101,597	11.66	12.08	14.39	13.71	15.69	12.15	12.29	10.35	10.03	13.20	11.63	11.18	12.37	4.1%	15.69	3.9%
Randolph	34,487	34,412	3.88	3.95	4.94	4.47	4.76	3.70	4.27	3.60	2.88	3.28	3.40	3.46	3.88	1.3%	4.94	1.2%
Reading	25,428	25,036	2.48	2.54	3.45	3.45	3.45	2.55	1.78	1.70	1.61	1.78	2.01	2.12	2.41	0.8%	3.45	0.9%
Revere	57,954	57,937	6.84	7.68	8.56	8.12	8.85	6.60	6.51	6.36	6.54	7.93	7.33	7.30	7.39	2.5%	8.85	2.2%
Somerville	80,407	80,407	7.63	9.06	10.49	10.00	12.33	6.96	7.27	6.11	7.43	9.88	7.25	7.57	8.50	2.8%	12.33	3.1%
Stoneham	22,854	22,616	2.73	2.82	3.92	3.55	3.48	2.88	2.26	2.01	2.08	2.41	2.68	2.57	2.78	0.9%	3.92	1.0%
Stoughton	28,962	22,369	3.03	3.09	3.28	3.02	3.18	2.53	2.07	1.74	1.81	2.14	2.30	2.36	2.54	0.8%	3.28	0.8%
Wakefield	27,810	27,733	3.15	3.46	4.68	4.78	5.27	3.73	2.47	2.23	2.13	2.45	2.86	2.95	3.35	1.1%	5.27	1.3%
Walpole	25,964	19,247	2.25	2.29	2.70	2.65	2.92	2.47	2.25	1.95	1.89	2.08	2.18	2.17	2.32	0.8%	2.92	0.7%
Waltham	64,477	63,656	6.91	7.55	9.79	9.53	10.83	8.73	6.78	6.29	6.45	7.13	7.28	7.14	7.87	2.6%	10.83	2.7%
Watertown	35,256	35,256	3.77	3.93	4.83	4.85	5.18	4.06	3.41	3.24	3.22	3.60	3.68	3.71	3.96	1.3%	5.18	1.3%
Wellesley	30,733	30,190	3.26	3.42	4.78	4.66	5.06	3.75	2.58	2.22	2.49	2.94	2.98	3.07	3.43	1.1%	5.06	1.3%
Westwood	16,244	15,368	1.22	1.31	1.73	1.74	1.83	1.39	1.07	0.91	0.83	0.98	1.05	1.21	1.27	0.4%	1.83	0.5%
Weymouth	59,114	57,889	8.24	8.94	10.08	9.81	10.70	7.72	8.26	6.58	6.53	9.06	8.58	8.53	8.59	2.9%	10.70	2.7%
Wilmington	23,148	4,880	1.53	1.67	1.76	1.78	1.57	1.48	1.30	1.21	1.34	1.32	1.32	1.40	1.47	0.5%	1.78	0.4%
Winchester	22,837	22,795	2.31	2.46	3.84	3.98	3.89	3.37	2.24	1.92	1.87	2.09	2.18	2.17	2.69	0.9%	3.98	1.0%
Winthrop	18,319	18,319	2.21	2.34	2.61	2.56	2.93	2.35	2.14	2.01	2.07	2.33	2.06	2.07	2.31	0.8%	2.93	0.7%
Woburn	41,647	40,868	5.88	6.36	7.86	7.45	8.18	7.01	5.53	5.33	5.25	5.85	6.15	5.89	6.39	2.1%	8.18	2.1%
Total/Average	2,355,971	2,296,443	282.39	304.80	369.22	355.44	396.20	293.78	266.41	236.59	245.84	297.79	269.71	273.05	299.31	100%	397.80	100%
Logan Airport Monthly Rainfall (in)			2.17	3.14	4.10	3.13	7.25	1.32	3.01	0.83	3.09	4.96	1.75	2.39				

TABLE 2 - 2025 MWRA COMMUNITY WASTEWATER FLOW COMPONENT ESTIMATES (CY25-12 MONTHS)

06/24/26

						2025 Averages (1)			Components of Average Daily Flow (Estimated) (2)							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
COMMUNITY	Community Demographics		No. of Connects to MWRA System	Miles of Local Sewers (3)	No. of Meters for Permanent System	Average Daily Flow ADF (MGD)	Percent Average Daily Flow (6)	Selected Dry Day ADF (MGD)	Average Daily Infiltration (MGD)	Infiltration As a % of Average Daily Flow	Average Sanitary Flow (MGD)	Sanitary As a % of Average Daily Flow	Average Daily Inflow (4) (MGD)	Inflow As a % of Average Daily Flow	Peak Month ADF (MGD)	Percent Peak Month ADF (6)
	Total Population	Sewered Population														
Arlington	46,111	46,074	327	117	7	4.59	1.53%	4.22	1.62	35.3%	2.60	56.6%	0.36	7.8%	6.37	1.60%
Ashland	18,591	14,573	2	78	2	1.40	0.47%	1.35	0.45	32.1%	0.90	64.3%	0.05	3.6%	1.71	0.43%
Bedford	14,394	14,023	1	77	4	1.99	0.66%	1.88	0.58	29.1%	1.30	65.3%	0.11	5.5%	2.98	0.75%
Belmont	26,886	26,530	2	76	2	2.69	0.90%	2.35	0.85	31.6%	1.50	55.8%	0.34	12.6%	3.88	0.98%
BWSC (5)	653,833	653,833	255	854	33	85.37	28.52%	74.24	16.49	19.3%	57.75	67.6%	11.14	13.0%	107.99	27.15%
Braintree	38,490	38,419	21	140	8	6.46	2.16%	5.80	2.60	40.2%	3.20	49.5%	0.66	10.2%	8.60	2.16%
Brookline (5)	62,962	62,903	10	110	14	6.82	2.28%	6.08	1.78	26.1%	4.30	63.0%	0.73	10.7%	9.16	2.30%
Burlington	26,527	26,369	1	117	1	3.34	1.12%	3.19	1.19	35.6%	2.00	59.9%	0.15	4.5%	4.55	1.14%
Cambridge (5)	118,214	118,193	127	147	9	21.43	7.16%	17.92	5.92	27.6%	12.00	56.0%	3.52	16.4%	26.27	6.60%
Canton	24,635	17,271	65	87	6	3.36	1.12%	3.13	1.73	51.5%	1.40	41.7%	0.23	6.8%	4.38	1.10%
Chelsea (5)	38,319	38,319	47	42	8	6.09	2.03%	4.79	1.79	29.4%	3.00	49.3%	1.29	21.2%	8.43	2.12%
Dedham	24,968	24,090	30	89	8	3.39	1.13%	3.08	1.28	37.8%	1.80	53.1%	0.31	9.1%	4.68	1.18%
Everett	50,318	50,318	21	72	6	5.54	1.85%	5.07	1.77	31.9%	3.30	59.6%	0.47	8.5%	6.74	1.69%
Framingham	71,875	69,950	2	231	4	7.32	2.45%	6.97	2.17	29.6%	4.80	65.6%	0.35	4.8%	11.09	2.79%
Hingham	7,516	7,137	1	33	1	1.32	0.44%	1.15	0.65	49.2%	0.50	37.9%	0.17	12.9%	1.91	0.48%
Holbrook	11,284	10,297	2	49	2	1.11	0.37%	1.04	0.44	39.6%	0.60	54.1%	0.06	5.4%	1.43	0.36%
Lexington	33,882	33,386	17	171	6	5.09	1.70%	4.75	2.55	50.1%	2.20	43.2%	0.33	6.5%	7.52	1.89%
Malden	65,133	64,856	242	100	6	7.64	2.55%	7.14	2.14	28.0%	5.00	65.4%	0.50	6.5%	10.21	2.57%
Medford	58,744	58,709	74	120	6	7.26	2.43%	6.47	2.17	29.9%	4.30	59.2%	0.79	10.9%	10.07	2.53%
Melrose	29,357	29,321	188	75	5	3.15	1.05%	2.81	0.91	28.9%	1.90	60.3%	0.34	10.8%	5.00	1.26%
Milton	28,374	27,736	56	98	13	4.07	1.36%	3.61	2.11	51.8%	1.50	36.9%	0.46	11.3%	5.97	1.50%
Natick	36,518	33,932	30	129	4	3.00	1.00%	2.84	0.94	31.3%	1.90	63.3%	0.16	5.3%	4.13	1.04%
Needham	32,157	30,911	21	130	2	4.07	1.36%	3.82	1.82	44.7%	2.00	49.1%	0.25	6.1%	5.63	1.42%
Newton	88,415	87,690	52	284	7	13.70	4.58%	12.60	4.80	35.0%	7.80	56.9%	1.10	8.0%	20.04	5.04%
Norwood	31,230	31,029	31	108	6	5.61	1.87%	5.07	2.57	45.8%	2.50	44.6%	0.54	9.6%	7.94	2.00%
Quincy	101,597	101,597	56	209	6	12.37	4.13%	11.23	3.03	24.5%	8.20	66.3%	1.15	9.3%	15.69	3.94%
Randolph	34,487	34,412	2	113	2	3.88	1.30%	3.64	1.54	39.7%	2.10	54.1%	0.24	6.2%	4.94	1.24%
Reading	25,428	25,036	2	100	2	2.41	0.81%	2.29	0.99	41.1%	1.30	53.9%	0.12	5.0%	3.45	0.87%
Revere	57,954	57,937	3	98	2	7.39	2.47%	6.62	2.62	35.5%	4.00	54.1%	0.77	10.4%	8.85	2.22%
Somerville (5)	80,407	80,407	43	165	8	8.50	2.84%	6.47	0.87	10.2%	5.60	65.9%	2.03	23.9%	12.33	3.10%
Stoneham	22,854	22,616	27	75	7	2.78	0.93%	2.56	1.06	38.1%	1.50	54.0%	0.22	7.9%	3.92	0.99%
Stoughton	28,962	22,369	1	94	2	2.54	0.85%	2.40	0.90	35.4%	1.50	59.1%	0.15	5.9%	3.28	0.82%
Wakefield	27,810	27,733	11	95	2	3.35	1.12%	3.17	1.67	49.9%	1.50	44.8%	0.18	5.4%	5.27	1.32%
Walpole	25,964	19,247	1	93	2	2.32	0.78%	2.23	0.93	40.1%	1.30	56.0%	0.09	3.9%	2.92	0.73%
Waltham	64,477	63,656	5	137	4	7.87	2.63%	7.26	1.66	21.1%	5.60	71.2%	0.61	7.8%	10.83	2.72%
Watertown	35,256	35,256	14	75	3	3.96	1.32%	3.69	1.49	37.6%	2.20	55.6%	0.27	6.8%	5.18	1.30%
Wellesley	30,733	30,190	2	135	3	3.43	1.15%	3.16	1.46	42.6%	1.70	49.6%	0.28	8.2%	5.06	1.27%
Westwood	16,244	15,368	3	89	3	1.27	0.42%	1.20	0.30	23.6%	0.89	70.1%	0.08	6.3%	1.83	0.46%
Weymouth	59,114	57,889	19	205	4	8.59	2.87%	7.88	4.08	47.5%	3.80	44.2%	0.71	8.3%	10.70	2.69%
Wilmington	23,148	4,880	2	31	1	1.47	0.49%	1.43	0.63	42.9%	0.80	54.4%	0.04	2.7%	1.78	0.45%
Winchester	22,837	22,795	102	85	7	2.69	0.90%	2.48	1.28	47.6%	1.20	44.6%	0.21	7.8%	3.98	1.00%
Winthrop	18,319	18,319	22	36	4	2.31	0.77%	2.10	0.90	39.0%	1.20	51.9%	0.21	9.1%	2.93	0.74%
Woburn	41,647	40,868	18	164	13	6.39	2.13%	6.04	2.34	36.6%	3.70	57.9%	0.35	5.5%	8.18	2.06%
Totals/Averages	2,355,971	2,296,443	1,958	5,533		299.31	100.00%	267.22	89.07	29.8%	178.14	59.5%	32.12	10.7%	397.80	100.00%

FOOTNOTES:

(1) Figures tabulated using data from the MWRA Wastewater Metering System for Calendar Year 2025.

(2) Wastewater flow components are estimated through engineering analysis by MWRA staff.

(3) Miles of Local Sewers are from MWRA's regional collection system database or as reported by the Community and do not include service laterals.

(4) Average Daily Inflow is calculated as a total inflow over the period of January through December 2025 divided by 365 days. Actual inflow during a specific storm event must be calculated separately.

(5) Community with combined sewers. Inflow figures include combined flow during storm events tributary to MWRA's WWTP.

(6) Percent average Daily Flow and Percent Peak Month ADF are the two flow-based components of MWRA's Wholesale Sewer Rate Methodology.

Column Summations: Average Daily Flow (ADF) Column F = I+K+M Average Dry Day Flow Column H = I+K

TABLE 3 - 2025 Final Community Wastewater Flow Component Estimates

Community	Sewered Population	Miles of Local Sewers	IDM of Local Sewers	Average Daily Flow ADF (MGD)	Average Annual Infiltration (MGD)	Average Annual Inflow (MGD)	Average Sanitary Flow (MGD)	ADF (GPD Per IDM)	I/I (GPD Per IDM)	Infiltration (GPD Per IDM)	Inflow (GPD Per IDM)	Inflow (GPD Per Sewer Mile)	Average Sanitary (GPD Per Sew. Pop.)
Arlington	46,074	117	947	4.59	1.62	0.36	2.60	4,847	2,091	1,711	380	3,077	56
Ashland	14,573	78	682	1.40	0.45	0.05	0.90	2,053	733	660	73	641	62
Bedford	14,023	77	738	1.99	0.58	0.11	1.30	2,696	935	786	149	1,429	93
Belmont	26,530	76	671	2.69	0.85	0.34	1.50	4,009	1,773	1,267	507	4,474	57
BWSC	653,833	854	14,876	85.37	16.49	11.14	57.75	5,739	1,857	1,108	749	13,044	88
Braintree	38,419	140	1,302	6.46	2.60	0.66	3.20	4,962	2,504	1,997	507	4,714	83
Brookline	62,903	110	1,321	6.82	1.78	0.73	4.30	5,163	1,900	1,347	553	6,636	68
Burlington	26,369	117	1,200	3.34	1.19	0.15	2.00	2,783	1,117	992	125	1,282	76
Cambridge	118,193	147	2,183	21.43	5.92	3.52	12.00	9,817	4,324	2,712	1,612	23,946	102
Canton	17,271	87	864	3.36	1.73	0.23	1.40	3,889	2,269	2,002	266	2,644	81
Chelsea	38,319	42	609	6.09	1.79	1.29	3.00	10,000	5,057	2,939	2,118	30,714	78
Dedham	24,090	89	861	3.39	1.28	0.31	1.80	3,937	1,847	1,487	360	3,483	75
Everett	50,318	72	622	5.54	1.77	0.47	3.30	8,907	3,601	2,846	756	6,528	66
Framingham	69,950	231	2,352	7.32	2.17	0.35	4.80	3,112	1,071	923	149	1,515	69
Hingham	7,137	33	332	1.32	0.65	0.17	0.50	3,976	2,470	1,958	512	5,152	70
Holbrook	10,297	49	408	1.11	0.44	0.06	0.60	2,721	1,225	1,078	147	1,224	58
Lexington	33,386	171	1,777	5.09	2.55	0.33	2.20	2,864	1,621	1,435	186	1,930	66
Malden	64,856	100	926	7.64	2.14	0.50	5.00	8,251	2,851	2,311	540	5,000	77
Medford	58,709	120	1,039	7.26	2.17	0.79	4.30	6,987	2,849	2,089	760	6,583	73
Melrose	29,321	75	611	3.15	0.91	0.34	1.90	5,155	2,046	1,489	556	4,533	65
Milton	27,736	98	837	4.07	2.11	0.46	1.50	4,863	3,070	2,521	550	4,694	54
Natick	33,932	129	1,277	3.00	0.94	0.16	1.90	2,349	861	736	125	1,240	56
Needham	30,911	130	1,157	4.07	1.82	0.25	2.00	3,518	1,789	1,573	216	1,923	65
Newton	87,690	284	3,081	13.70	4.80	1.10	7.80	4,447	1,915	1,558	357	3,873	89
Norwood	31,029	108	1,091	5.61	2.57	0.54	2.50	5,142	2,851	2,356	495	5,000	81
Quincy	101,597	209	2,014	12.37	3.03	1.15	8.20	6,142	2,075	1,504	571	5,502	81
Randolph	34,412	113	1,153	3.88	1.54	0.24	2.10	3,365	1,544	1,336	208	2,124	61
Reading	25,036	100	897	2.41	0.99	0.12	1.30	2,687	1,237	1,104	134	1,200	52
Revere	57,937	98	950	7.39	2.62	0.77	4.00	7,779	3,568	2,758	811	7,857	69
Somerville	80,407	165	1,862	8.50	0.87	2.03	5.60	4,565	1,557	467	1,090	12,303	70
Stoneham	22,616	75	574	2.78	1.06	0.22	1.50	4,843	2,230	1,847	383	2,933	66
Stoughton	22,369	94	955	2.54	0.90	0.15	1.50	2,660	1,099	942	157	1,596	67
Wakefield	27,733	95	1,050	3.35	1.67	0.18	1.50	3,190	1,762	1,590	171	1,895	54
Walpole	19,247	93	904	2.32	0.93	0.09	1.30	2,566	1,128	1,029	100	968	68
Waltham	63,656	137	1,694	7.87	1.66	0.61	5.60	4,646	1,340	980	360	4,453	88
Watertown	35,256	75	621	3.96	1.49	0.27	2.20	6,377	2,834	2,399	435	3,600	62
Wellesley	30,190	135	1,391	3.43	1.46	0.28	1.70	2,466	1,251	1,050	201	2,074	56
Westwood	15,368	89	784	1.27	0.30	0.08	0.89	1,620	485	383	102	899	58
Weymouth	57,889	205	1,911	8.59	4.08	0.71	3.80	4,495	2,507	2,135	372	3,463	66
Wilmington	4,880	31	367	1.47	0.63	0.04	0.80	4,005	1,826	1,717	109	1,290	164
Winchester	22,795	85	699	2.69	1.28	0.21	1.20	3,848	2,132	1,831	300	2,471	53
Winthrop	18,319	36	317	2.31	0.90	0.21	1.20	7,287	3,502	2,839	662	5,833	66
Woburn	40,868	164	1,575	6.39	2.34	0.35	3.70	4,057	1,708	1,486	222	2,134	91
Total	2,296,443	5,533	61,482	299.33	89.07	32.12	178.14						
Average	53,406	129	1,430	6.96	2.07	0.75	4.14	4,623	2,056	1,611	445	4,834	72

Table 4 - Estimated Community Wastewater Flow Components for 2025 — 06/24/26 —

Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average (MGD)
Ashland	Average Daily Flow	1.26	1.28	1.51	1.53	1.71	1.43	1.28	1.28	1.28	1.33	1.39	1.55	1.40
	Dry Day Average Daily Flow	1.25	1.21	1.39	1.45	1.56	1.35	1.23	1.25	1.27	1.31	1.38	1.53	1.35
	Estimated Infiltration	0.35	0.31	0.49	0.55	0.66	0.45	0.33	0.35	0.37	0.41	0.48	0.63	0.45
	Estimated Sanitary Flow	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	Estimated Inflow	0.01	0.07	0.12	0.08	0.15	0.08	0.05	0.03	0.01	0.02	0.01	0.02	0.05
Boston (South Only)	Raw Average Daily Flow	23.20	24.63	33.37	31.59	35.24	23.20	19.50	17.22	16.91	23.41	21.64	21.55	24.30
	Raw Dry Day Average Daily Flow	21.02	22.49	27.45	27.14	28.13	21.92	17.90	15.77	14.81	17.66	20.18	20.84	21.27
	Raw Estimated Infiltration	12.82	14.29	19.25	18.94	19.93	13.72	9.70	7.57	6.61	9.46	11.98	12.64	13.07
	MWRA Estimated Infiltration	4.81	5.36	7.22	7.11	7.48	5.15	3.64	2.84	2.48	3.55	4.50	4.74	4.90
	Final Average Daily Flow	18.39	19.27	26.15	24.48	27.76	18.05	15.86	14.38	14.43	19.86	17.14	16.81	19.39
	Final Dry Day Average Daily Flow	16.21	17.13	20.23	20.03	20.65	16.77	14.26	12.93	12.33	14.11	15.68	16.10	16.36
	Final Estimated Infiltration	8.01	8.93	12.03	11.83	12.45	8.57	6.06	4.73	4.13	5.91	7.48	7.90	8.16
	Estimated Sanitary Flow	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20
	Estimated Inflow	2.18	2.14	5.92	4.45	7.11	1.28	1.60	1.45	2.10	5.75	1.46	0.71	3.03
Braintree	Raw Average Daily Flow	6.81	7.70	9.14	8.62	9.27	6.32	6.22	4.21	4.64	6.59	6.59	6.85	6.91
	Raw Dry Day Average Daily Flow	6.16	7.22	7.81	8.31	7.75	6.19	5.71	3.85	4.24	4.98	6.40	6.45	6.25
	Raw Estimated Infiltration	2.96	4.02	4.61	5.11	4.55	2.99	2.51	0.65	1.04	1.78	3.20	3.25	3.05
	MWRA Estimated Infiltration	0.43	0.59	0.68	0.75	0.67	0.44	0.37	0.10	0.15	0.26	0.47	0.48	0.45
	Final Average Daily Flow	6.38	7.11	8.46	7.87	8.60	5.88	5.85	4.11	4.49	6.33	6.12	6.37	6.46
	Final Dry Day Average Daily Flow	5.73	6.63	7.13	7.56	7.08	5.75	5.34	3.75	4.09	4.72	5.93	5.97	5.80
	Final Estimated Infiltration	2.53	3.43	3.93	4.36	3.88	2.55	2.14	0.55	0.89	1.52	2.73	2.77	2.60
	Estimated Sanitary Flow	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
	Estimated Inflow	0.65	0.48	1.33	0.31	1.52	0.13	0.51	0.36	0.40	1.61	0.19	0.40	0.66
Brookline (South Only)	Raw Average Daily Flow	4.04	4.34	5.83	5.00	5.55	3.77	3.25	2.89	3.00	4.05	3.56	3.50	4.07
	Raw Dry Day Average Daily Flow	3.63	3.96	4.83	4.33	4.36	3.65	2.95	2.70	2.73	3.15	3.36	3.39	3.58
	Raw Estimated Infiltration	1.48	1.81	2.68	2.18	2.21	1.50	0.80	0.55	0.58	1.00	1.21	1.24	1.43
	MWRA Estimated Infiltration	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01
	Final Average Daily Flow	4.03	4.33	5.81	4.98	5.53	3.76	3.24	2.89	3.00	4.04	3.55	3.49	4.05
	Final Dry Day Average Daily Flow	3.62	3.95	4.81	4.31	4.34	3.64	2.94	2.70	2.73	3.14	3.35	3.38	3.57
	Final Estimated Infiltration	1.47	1.80	2.66	2.16	2.19	1.49	0.79	0.55	0.58	0.99	1.20	1.23	1.42
	Estimated Sanitary Flow	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
	Estimated Inflow	0.41	0.38	1.00	0.67	1.19	0.12	0.30	0.19	0.27	0.90	0.20	0.11	0.48
Canton	Raw Average Daily Flow	3.23	3.25	4.49	4.39	4.63	3.60	3.78	2.86	2.77	3.12	3.08	3.23	3.54
	Raw Dry Day Average Daily Flow	3.00	3.08	4.02	4.04	4.10	3.55	3.46	2.71	2.74	2.78	3.08	3.11	3.31
	Raw Estimated Infiltration	1.60	1.68	2.62	2.64	2.70	2.15	2.06	1.31	1.34	1.38	1.68	1.71	1.91
	MWRA Estimated Infiltration	0.15	0.15	0.24	0.24	0.25	0.20	0.19	0.12	0.12	0.13	0.15	0.16	0.18
	Final Average Daily Flow	3.08	3.10	4.25	4.15	4.38	3.40	3.59	2.74	2.65	2.99	2.93	3.07	3.36
	Final Dry Day Average Daily Flow	2.85	2.93	3.78	3.80	3.85	3.35	3.27	2.59	2.62	2.65	2.93	2.95	3.13
	Final Estimated Infiltration	1.45	1.53	2.38	2.40	2.45	1.95	1.87	1.19	1.22	1.25	1.53	1.55	1.73
	Estimated Sanitary Flow	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
	Estimated Inflow	0.23	0.17	0.47	0.35	0.53	0.05	0.32	0.15	0.03	0.34	0.00	0.12	0.23
Dedham	Average Daily Flow	3.43	3.36	4.59	4.26	4.68	3.66	2.78	2.38	2.37	2.98	3.08	3.10	3.39
	Dry Day Average Daily Flow	3.11	3.15	4.02	3.86	3.85	3.40	2.64	2.23	2.24	2.52	2.96	3.02	3.08
	Estimated Infiltration	1.31	1.35	2.22	2.06	2.05	1.60	0.84	0.43	0.44	0.72	1.16	1.22	1.28
	Estimated Sanitary Flow	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
	Estimated Inflow	0.32	0.21	0.57	0.40	0.83	0.26	0.14	0.15	0.13	0.46	0.12	0.08	0.31

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 2	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Framingham	Average Daily Flow	7.08	7.58	9.02	9.27	11.09	7.79	6.06	5.73	5.48	5.97	6.50	6.29	7.32
	Dry Day Average Daily Flow	6.95	7.39	8.32	8.71	9.80	7.63	5.99	5.52	5.31	5.63	6.40	6.03	6.97
	Estimated Infiltration	2.15	2.59	3.52	3.91	5.00	2.83	1.19	0.72	0.51	0.83	1.60	1.23	2.17
	Estimated Sanitary Flow	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80
	Estimated Inflow	0.13	0.19	0.70	0.56	1.29	0.16	0.07	0.21	0.17	0.34	0.10	0.26	0.35
Hingham	Average Daily Flow	1.17	1.43	1.69	1.55	1.91	1.23	1.21	0.81	0.80	1.45	1.32	1.27	1.32
	Dry Day Average Daily Flow	1.06	1.31	1.45	1.40	1.39	1.22	1.07	0.78	0.74	0.93	1.27	1.25	1.15
	Estimated Infiltration	0.56	0.81	0.95	0.90	0.89	0.72	0.57	0.28	0.24	0.43	0.77	0.75	0.65
	Estimated Sanitary Flow	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	Estimated Inflow	0.11	0.12	0.24	0.15	0.52	0.01	0.14	0.03	0.06	0.52	0.05	0.02	0.17
Holbrook	Average Daily Flow	1.25	1.28	1.43	1.27	1.29	1.02	0.89	0.83	0.83	0.98	1.05	1.16	1.11
	Dry Day Average Daily Flow	1.18	1.19	1.34	1.17	1.11	1.00	0.87	0.83	0.82	0.89	1.03	1.08	1.04
	Estimated Infiltration	0.58	0.59	0.74	0.57	0.51	0.40	0.27	0.23	0.22	0.29	0.43	0.48	0.44
	Estimated Sanitary Flow	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Estimated Inflow	0.07	0.09	0.09	0.10	0.18	0.02	0.02	0.00	0.01	0.09	0.02	0.08	0.06
Milton (South Only)	Average Daily Flow	3.85	4.17	5.57	5.19	5.44	3.53	2.72	2.37	2.35	3.54	3.29	3.26	3.77
	Dry Day Average Daily Flow	3.45	3.85	4.63	4.64	4.20	3.42	2.51	2.26	2.26	2.54	3.12	3.17	3.33
	Estimated Infiltration	2.10	2.50	3.28	3.29	2.85	2.07	1.16	0.91	0.91	1.19	1.77	1.82	1.98
	Estimated Sanitary Flow	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
	Estimated Inflow	0.40	0.32	0.94	0.55	1.24	0.11	0.21	0.11	0.09	1.00	0.17	0.09	0.44
Natick	Average Daily Flow	2.82	2.94	3.74	3.73	4.13	3.25	2.59	2.47	2.44	2.57	2.58	2.68	3.00
	Dry Day Average Daily Flow	2.70	2.86	3.38	3.41	3.74	3.11	2.50	2.41	2.39	2.40	2.56	2.63	2.84
	Estimated Infiltration	0.80	0.96	1.48	1.51	1.84	1.21	0.60	0.51	0.49	0.50	0.66	0.73	0.94
	Estimated Sanitary Flow	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
	Estimated Inflow	0.12	0.08	0.36	0.32	0.39	0.14	0.09	0.06	0.05	0.17	0.02	0.05	0.16
Needham	Average Daily Flow	3.77	3.82	5.19	5.01	5.63	4.34	3.45	3.37	3.42	3.68	3.51	3.61	4.07
	Dry Day Average Daily Flow	3.49	3.71	4.65	4.48	5.01	4.21	3.28	3.26	3.37	3.34	3.45	3.57	3.82
	Estimated Infiltration	1.49	1.71	2.65	2.48	3.01	2.21	1.28	1.26	1.37	1.34	1.45	1.57	1.82
	Estimated Sanitary Flow	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	Estimated Inflow	0.28	0.11	0.54	0.53	0.62	0.13	0.17	0.11	0.05	0.34	0.06	0.04	0.25
Newton (South Only)	Raw Average Daily Flow	7.78	7.84	11.43	10.81	12.22	8.46	6.33	5.60	5.51	7.32	7.26	7.10	8.14
	Raw Dry Day Average Daily Flow	7.21	7.38	10.31	9.58	10.04	8.26	6.00	5.26	5.23	5.87	7.02	7.00	7.43
	Raw Estimated Infiltration	3.11	3.28	6.21	5.48	5.94	4.16	1.90	1.16	1.13	1.77	2.92	2.90	3.33
	MWRA Estimated Infiltration	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01
	Final Average Daily Flow	7.77	7.83	11.41	10.80	12.20	8.45	6.32	5.60	5.51	7.32	7.25	7.09	8.13
	Final Dry Day Average Daily Flow	7.20	7.37	10.29	9.57	10.02	8.25	5.99	5.26	5.23	5.87	7.01	6.99	7.42
	Final Estimated Infiltration	3.10	3.27	6.19	5.47	5.92	4.15	1.89	1.16	1.13	1.77	2.91	2.89	3.32
	Estimated Sanitary Flow	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10	4.10
	Estimated Inflow	0.57	0.46	1.12	1.23	2.18	0.20	0.33	0.34	0.28	1.45	0.24	0.10	0.71

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 3	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Norwood	Raw Average Daily Flow	6.08	6.25	8.44	7.44	8.30	6.02	5.00	3.95	4.01	4.98	5.09	5.27	5.90
	Raw Dry Day Average Daily Flow	5.46	5.85	7.34	6.41	6.97	5.81	4.56	3.82	3.74	4.38	4.89	5.14	5.36
	Raw Estimated Infiltration	2.96	3.35	4.84	3.91	4.47	3.31	2.06	1.32	1.24	1.88	2.39	2.64	2.86
	MWRA Estimated Infiltration	0.31	0.35	0.50	0.40	0.46	0.34	0.21	0.14	0.13	0.19	0.25	0.27	0.30
	Final Average Daily Flow	5.77	5.90	7.94	7.04	7.84	5.68	4.79	3.81	3.88	4.79	4.84	5.00	5.61
	Final Dry Day Average Daily Flow	5.15	5.50	6.84	6.01	6.51	5.47	4.35	3.68	3.61	4.19	4.64	4.87	5.07
	Final Estimated Infiltration	2.65	3.00	4.34	3.51	4.01	2.97	1.85	1.18	1.11	1.69	2.14	2.37	2.57
	Estimated Sanitary Flow	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	Estimated Inflow	0.62	0.40	1.10	1.03	1.33	0.21	0.44	0.13	0.27	0.60	0.20	0.13	0.54
Quincy	Average Daily Flow	11.66	12.08	14.39	13.71	15.69	12.15	12.29	10.35	10.03	13.20	11.63	11.18	12.37
	Dry Day Average Daily Flow	10.67	11.26	12.65	12.62	12.81	11.94	11.28	9.89	9.51	10.15	10.96	10.97	11.23
	Estimated Infiltration	2.47	3.06	4.45	4.42	4.61	3.74	3.08	1.69	1.31	1.95	2.76	2.77	3.03
	Estimated Sanitary Flow	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20
	Estimated Inflow	0.99	0.82	1.74	1.09	2.88	0.21	1.01	0.46	0.52	3.05	0.67	0.21	1.15
Randolph	Average Daily Flow	3.88	3.95	4.94	4.47	4.76	3.70	4.27	3.60	2.88	3.28	3.40	3.46	3.88
	Dry Day Average Daily Flow	3.63	3.74	4.41	4.11	4.18	3.65	4.08	3.52	2.71	2.93	3.32	3.42	3.64
	Estimated Infiltration	1.53	1.64	2.31	2.01	2.08	1.55	1.98	1.42	0.61	0.83	1.22	1.32	1.54
	Estimated Sanitary Flow	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
	Estimated Inflow	0.25	0.21	0.53	0.36	0.58	0.05	0.19	0.08	0.17	0.35	0.08	0.04	0.24
Stoughton	Average Daily Flow	3.03	3.09	3.28	3.02	3.18	2.53	2.07	1.74	1.81	2.14	2.30	2.36	2.54
	Dry Day Average Daily Flow	2.86	2.99	2.97	2.90	2.70	2.51	2.01	1.65	1.68	1.95	2.28	2.31	2.40
	Estimated Infiltration	1.36	1.49	1.47	1.40	1.20	1.01	0.51	0.15	0.18	0.45	0.78	0.81	0.90
	Estimated Sanitary Flow	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Estimated Inflow	0.17	0.10	0.31	0.12	0.48	0.02	0.06	0.09	0.13	0.19	0.02	0.05	0.15
Walpole	Average Daily Flow	2.25	2.29	2.70	2.65	2.92	2.47	2.25	1.95	1.89	2.08	2.18	2.17	2.32
	Dry Day Average Daily Flow	2.22	2.23	2.46	2.57	2.64	2.46	2.12	1.89	1.88	1.97	2.17	2.17	2.23
	Estimated Infiltration	0.92	0.93	1.16	1.27	1.34	1.16	0.82	0.59	0.58	0.67	0.87	0.87	0.93
	Estimated Sanitary Flow	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
	Estimated Inflow	0.03	0.06	0.24	0.08	0.28	0.01	0.13	0.06	0.01	0.11	0.01	0.00	0.09
Wellesley	Average Daily Flow	3.26	3.42	4.78	4.66	5.06	3.75	2.58	2.22	2.49	2.94	2.98	3.07	3.43
	Dry Day Average Daily Flow	3.04	3.24	4.21	4.11	4.38	3.49	2.43	2.08	2.31	2.59	2.96	3.05	3.16
	Estimated Infiltration	1.34	1.54	2.51	2.41	2.68	1.79	0.73	0.38	0.61	0.89	1.26	1.35	1.46
	Estimated Sanitary Flow	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
	Estimated Inflow	0.22	0.18	0.57	0.55	0.68	0.26	0.15	0.14	0.18	0.35	0.02	0.02	0.28
Westwood	Average Daily Flow	1.22	1.31	1.73	1.74	1.83	1.39	1.07	0.91	0.83	0.98	1.05	1.21	1.27
	Dry Day Average Daily Flow	1.13	1.27	1.57	1.62	1.62	1.29	1.02	0.90	0.81	0.91	1.05	1.17	1.20
	Estimated Infiltration	0.23	0.37	0.67	0.72	0.72	0.39	0.12	0.00	0.01	0.01	0.15	0.27	0.30
	Estimated Sanitary Flow	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.80	0.90	0.90	0.90	0.89
	Estimated Inflow	0.09	0.04	0.16	0.12	0.21	0.10	0.05	0.01	0.02	0.07	0.00	0.04	0.08

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 4	Average
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(MGD)
Weymouth	Average Daily Flow	8.24	8.94	10.08	9.81	10.70	7.72	8.26	6.58	6.53	9.06	8.58	8.53	8.59
	Dry Day Average Daily Flow	7.75	8.52	9.15	9.22	8.96	7.65	7.42	6.31	6.20	6.78	8.25	8.39	7.88
	Estimated Infiltration	3.95	4.72	5.35	5.42	5.16	3.85	3.62	2.51	2.40	2.98	4.45	4.59	4.08
	Estimated Sanitary Flow	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
	Estimated Inflow	0.49	0.42	0.93	0.59	1.74	0.07	0.84	0.27	0.33	2.28	0.33	0.14	0.71
Subtotal (Southern System)	Raw Average Daily Flow	109.31	114.95	147.34	139.72	155.23	111.33	97.85	83.32	82.27	105.65	102.06	102.40	112.64
	Raw Dry Day Average Daily Flow	100.97	107.90	128.36	126.08	129.30	107.71	91.03	78.89	76.99	85.66	98.09	99.69	102.52
	Raw Estimated Infiltration	46.07	53.00	73.46	71.18	74.40	52.81	36.13	23.99	22.19	30.76	43.19	44.79	47.62
	MWRA Estimated Infiltration	5.72	6.47	8.68	8.53	8.90	6.15	4.43	3.20	2.88	4.14	5.39	5.67	5.84
	Final Average Daily Flow	103.59	108.48	138.66	131.19	146.33	105.18	93.42	80.12	79.39	101.51	96.67	96.73	106.80
	Final Dry Day Average Daily Flow	95.25	101.43	119.68	117.55	120.40	101.56	86.60	75.69	74.11	81.52	92.70	94.02	96.67
	Final Estimated Infiltration	40.35	46.53	64.78	62.65	65.50	46.66	31.70	20.79	19.31	26.62	37.80	39.12	41.78
	Estimated Sanitary Flow	54.90	54.90	54.90	54.90	54.90	54.90	54.90	54.90	54.80	54.90	54.90	54.90	54.89
	Estimated Inflow	8.34	7.05	18.98	13.64	25.93	3.62	6.82	4.43	5.28	19.99	3.97	2.71	10.13
South System Pump Station as Reported by NPDES	Average Daily Flow	98.40	103.80	135.00	126.90	143.10	101.10	89.80	74.20	73.80	96.40	91.40	91.50	102.14

Table 4 - Estimated Community Wastewater Flow Components for 2025														06/24/26 PAGE 5 Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Arlington	Raw Average Daily Flow	4.35	4.45	6.29	6.10	6.50	5.26	3.60	3.26	3.44	4.11	4.35	4.21	4.66
	Raw Dry Day Average Daily Flow	4.08	4.20	5.65	5.42	5.65	4.75	3.49	3.09	3.22	3.61	4.23	4.16	4.30
	Raw Estimated Infiltration	1.48	1.60	3.05	2.82	3.05	2.15	0.89	0.49	0.62	1.01	1.63	1.56	1.70
	MWRA Estimated Infiltration	0.06	0.07	0.13	0.12	0.13	0.09	0.04	0.02	0.03	0.04	0.07	0.06	0.07
	Final Average Daily Flow	4.29	4.38	6.16	5.98	6.37	5.17	3.56	3.24	3.41	4.07	4.28	4.15	4.59
	Final Dry Day Average Daily Flow	4.02	4.13	5.52	5.30	5.52	4.66	3.45	3.07	3.19	3.57	4.16	4.10	4.22
	Final Estimated Infiltration	1.42	1.53	2.92	2.70	2.92	2.06	0.85	0.47	0.59	0.97	1.56	1.50	1.62
	Estimated Sanitary Flow	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
	Estimated Inflow	0.27	0.25	0.64	0.68	0.85	0.51	0.11	0.17	0.22	0.50	0.12	0.05	0.36
Bedford	Average Daily Flow	1.98	2.07	2.67	2.81	2.98	2.27	1.63	1.47	1.56	1.42	1.41	1.61	1.99
	Dry Day Average Daily Flow	1.89	2.00	2.47	2.59	2.83	1.98	1.55	1.45	1.52	1.32	1.40	1.54	1.88
	Estimated Infiltration	0.59	0.70	1.17	1.29	1.53	0.68	0.25	0.15	0.22	0.02	0.10	0.24	0.58
	Estimated Sanitary Flow	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
	Estimated Inflow	0.09	0.07	0.20	0.22	0.15	0.29	0.08	0.02	0.04	0.10	0.01	0.07	0.11
Belmont	Average Daily Flow	2.66	2.92	3.71	3.63	3.88	2.73	1.86	1.76	1.92	2.45	2.42	2.35	2.69
	Dry Day Average Daily Flow	2.44	2.71	3.14	2.98	3.10	2.48	1.65	1.54	1.73	1.91	2.27	2.25	2.35
	Estimated Infiltration	0.94	1.21	1.64	1.48	1.60	0.98	0.15	0.04	0.23	0.41	0.77	0.75	0.85
	Estimated Sanitary Flow	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Estimated Inflow	0.22	0.21	0.57	0.65	0.78	0.25	0.21	0.22	0.19	0.54	0.15	0.10	0.34
Boston (North Only)														
Boston Charlestown	Raw Average Daily Flow	2.46	2.75	2.91	2.96	3.33	2.76	2.66	2.43	2.83	2.98	2.75	2.68	2.79
	Raw Dry Day Average Daily Flow	2.29	2.49	2.55	2.65	2.70	2.69	2.47	2.29	2.55	2.41	2.53	2.63	2.52
	Raw Estimated Infiltration	0.59	0.79	0.85	0.95	1.00	0.99	0.77	0.59	0.85	0.71	0.83	0.93	0.82
	MWRA Estimated Infiltration	0.08	0.10	0.11	0.12	0.13	0.13	0.10	0.08	0.11	0.09	0.11	0.12	0.11
	Final Average Daily Flow	2.38	2.65	2.80	2.84	3.20	2.63	2.56	2.35	2.72	2.89	2.64	2.56	2.69
	Final Dry Day Average Daily Flow	2.21	2.39	2.44	2.53	2.57	2.56	2.37	2.21	2.44	2.32	2.42	2.51	2.41
	Final Estimated Infiltration	0.51	0.69	0.74	0.83	0.87	0.86	0.67	0.51	0.74	0.62	0.72	0.81	0.71
	Estimated Sanitary Flow	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
	Estimated Inflow	0.17	0.26	0.36	0.31	0.63	0.07	0.19	0.14	0.28	0.57	0.22	0.05	0.27
Boston Columbus Park	Raw Average Daily Flow	27.27	31.73	33.65	31.98	38.38	27.13	28.20	24.97	28.48	35.90	26.58	31.99	30.53
	Raw Dry Day Average Daily Flow	24.08	27.11	26.87	26.65	27.06	25.67	23.72	21.76	23.49	24.29	24.16	27.47	25.18
	Raw Estimated Infiltration	3.78	6.81	6.57	6.35	6.76	5.37	3.42	1.46	3.19	3.99	3.86	7.17	4.88
	MWRA Estimated Infiltration	0.10	0.18	0.17	0.17	0.18	0.14	0.09	0.04	0.08	0.11	0.10	0.19	0.13
	Final Average Daily Flow	27.17	31.55	33.48	31.81	38.20	26.99	28.11	24.93	28.40	35.79	26.48	31.80	30.40
	Final Dry Day Average Daily Flow	23.98	26.93	26.70	26.48	26.88	25.53	23.63	21.72	23.41	24.18	24.06	27.28	25.05
	Final Estimated Infiltration	3.68	6.63	6.40	6.18	6.58	5.23	3.33	1.42	3.11	3.88	3.76	6.98	4.75
	Estimated Sanitary Flow	20.30	20.30	20.30	20.30	20.30	20.30	20.30	20.30	20.30	20.30	20.30	20.30	20.30
	Estimated Inflow	3.19	4.62	6.78	5.33	11.32	1.46	4.48	3.21	4.99	11.61	2.42	4.52	5.35
Boston East Boston	Raw Average Daily Flow	6.46	6.93	6.66	6.28	7.29	5.56	6.18	6.68	5.48	6.65	5.30	5.41	6.24
	Raw Dry Day Average Daily Flow	5.97	6.09	5.66	5.37	5.49	5.32	5.39	5.94	4.74	5.16	4.84	4.92	5.41
	Raw Estimated Infiltration	2.47	2.59	2.16	1.87	1.99	1.82	1.89	2.44	1.24	1.66	1.34	1.42	1.91
	MWRA Estimated Infiltration	0.36	0.37	0.31	0.27	0.29	0.26	0.27	0.35	0.18	0.24	0.19	0.20	0.27
	Final Average Daily Flow	6.10	6.56	6.35	6.01	7.00	5.30	5.91	6.33	5.30	6.41	5.11	5.21	5.97
	Final Dry Day Average Daily Flow	5.61	5.72	5.35	5.10	5.20	5.06	5.12	5.59	4.56	4.92	4.65	4.72	5.13
	Final Estimated Infiltration	2.11	2.22	1.85	1.60	1.70	1.56	1.62	2.09	1.06	1.42	1.15	1.22	1.63
	Estimated Sanitary Flow	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	Estimated Inflow	0.49	0.84	1.00	0.91	1.80	0.24	0.79	0.74	0.74	1.49	0.46	0.49	0.84

Table 4 - Estimated Community Wastewater Flow Components for 2025											06/24/26			PAGE 6	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Boston Ward Street	Raw Average Daily Flow	25.50	28.63	29.75	30.18	32.37	26.76	26.32	23.08	24.95	29.03	25.85	23.66		27.16
	Raw Dry Day Average Daily Flow	25.04	28.32	28.09	27.69	27.63	25.16	24.53	22.62	24.35	25.11	24.40	23.48		25.51
	Raw Estimated Infiltration	0.74	4.02	3.79	3.39	3.33	0.86	0.23	0.32	0.05	0.81	0.10	0.18		1.47
	MWRA Estimated Infiltration	0.12	0.65	0.62	0.55	0.54	0.14	0.04	0.05	0.01	0.13	0.02	0.03		0.24
	Final Average Daily Flow	25.38	27.98	29.13	29.63	31.83	26.62	26.28	23.03	24.94	28.90	25.83	23.63		26.92
	Final Dry Day Average Daily Flow	24.92	27.67	27.47	27.14	27.09	25.02	24.49	22.57	24.34	24.98	24.38	23.45		25.27
	Final Estimated Infiltration	0.62	3.37	3.17	2.84	2.79	0.72	0.19	0.27	0.04	0.68	0.08	0.15		1.23
	Estimated Sanitary Flow	24.30	24.30	24.30	24.30	24.30	24.30	24.30	22.30	24.30	24.30	24.30	23.30		24.05
	Estimated Inflow	0.46	0.31	1.66	2.49	4.74	1.60	1.79	0.46	0.60	3.92	1.45	0.18		1.65
Boston (North Total)	Raw Average Daily Flow	61.69	70.04	72.97	71.40	81.37	62.21	63.36	57.16	61.74	74.56	60.48	63.74		66.73
	Raw Dry Day Average Daily Flow	57.38	64.01	63.17	62.36	62.88	58.84	56.11	52.61	55.13	56.97	55.93	58.50		58.62
	Raw Estimated Infiltration	7.58	14.21	13.37	12.56	13.08	9.04	6.31	4.81	5.33	7.17	6.13	9.70		9.07
	MWRA Estimated Infiltration	0.66	1.30	1.21	1.11	1.14	0.67	0.50	0.52	0.38	0.57	0.42	0.54		0.75
	Final Average Daily Flow	61.03	68.74	71.76	70.29	80.23	61.54	62.86	56.64	61.36	73.99	60.06	63.20		65.98
	Final Dry Day Average Daily Flow	56.72	62.71	61.96	61.25	61.74	58.17	55.61	52.09	54.75	56.40	55.51	57.96		57.87
	Final Estimated Infiltration	6.92	12.91	12.16	11.45	11.94	8.37	5.81	4.29	4.95	6.60	5.71	9.16		8.33
	Estimated Sanitary Flow	49.80	49.80	49.80	49.80	49.80	49.80	49.80	47.80	49.80	49.80	49.80	48.80		49.55
	Estimated Inflow	4.31	6.03	9.80	9.04	18.49	3.37	7.25	4.55	6.61	17.59	4.55	5.24		8.11
Brookline (North Only)	Average Daily Flow	2.53	2.47	2.91	3.05	3.63	2.96	2.83	2.64	2.55	2.88	2.47	2.18		2.76
	Dry Day Average Daily Flow	2.40	2.28	2.50	2.89	3.04	2.86	2.56	2.40	2.30	2.41	2.29	2.15		2.51
	Estimated Infiltration	0.25	0.13	0.35	0.74	0.89	0.71	0.41	0.25	0.15	0.26	0.14	0.00		0.36
	Estimated Sanitary Flow	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15		2.15
	Estimated Inflow	0.13	0.19	0.41	0.16	0.59	0.10	0.27	0.24	0.25	0.47	0.18	0.03		0.25
Burlington	Average Daily Flow	3.25	3.37	4.39	4.29	4.55	3.78	2.89	2.63	2.53	2.60	2.79	2.97		3.34
	Dry Day Average Daily Flow	3.14	3.28	4.09	3.99	4.20	3.55	2.83	2.49	2.46	2.52	2.78	2.93		3.19
	Estimated Infiltration	1.14	1.28	2.09	1.99	2.20	1.55	0.83	0.49	0.46	0.52	0.78	0.93		1.19
	Estimated Sanitary Flow	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00		2.00
	Estimated Inflow	0.11	0.09	0.30	0.30	0.35	0.23	0.06	0.14	0.07	0.08	0.01	0.04		0.15
Cambridge	Raw Average Daily Flow	20.94	22.87	25.86	24.33	27.47	20.29	21.94	19.59	22.14	24.91	19.57	19.80		22.48
	Raw Dry Day Average Daily Flow	19.41	20.39	20.44	20.07	19.97	18.94	17.73	17.95	18.30	18.35	18.00	18.15		18.97
	Raw Estimated Infiltration	7.41	8.39	8.44	8.07	7.97	6.94	5.73	5.95	6.30	6.35	6.00	6.15		6.97
	MWRA Estimated Infiltration	1.12	1.26	1.27	1.22	1.20	1.05	0.86	0.90	0.95	0.96	0.90	0.93		1.05
	Final Average Daily Flow	19.82	21.61	24.59	23.11	26.27	19.24	21.08	18.69	21.19	23.95	18.67	18.87		21.43
	Final Dry Day Average Daily Flow	18.29	19.13	19.17	18.85	18.77	17.89	16.87	17.05	17.35	17.39	17.10	17.22		17.92
	Final Estimated Infiltration	6.29	7.13	7.17	6.85	6.77	5.89	4.87	5.05	5.35	5.39	5.10	5.22		5.92
	Estimated Sanitary Flow	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00		12.00
	Estimated Inflow	1.53	2.48	5.42	4.26	7.50	1.35	4.21	1.64	3.84	6.56	1.57	1.65		3.52
Chelsea	Raw Average Daily Flow	5.47	6.34	7.17	7.09	8.77	5.50	6.19	5.10	5.74	7.33	5.52	5.80		6.34
	Raw Dry Day Average Daily Flow	4.79	5.34	5.37	5.60	5.78	5.20	4.76	4.61	4.54	4.88	4.82	4.90		5.05
	Raw Estimated Infiltration	1.79	2.34	2.37	2.60	2.78	2.20	1.76	1.61	1.54	1.88	1.82	1.90		2.05
	MWRA Estimated Infiltration	0.22	0.29	0.29	0.32	0.34	0.27	0.22	0.20	0.19	0.23	0.23	0.24		0.25
	Final Average Daily Flow	5.25	6.05	6.88	6.77	8.43	5.23	5.97	4.90	5.55	7.10	5.29	5.56		6.09
	Final Dry Day Average Daily Flow	4.57	5.05	5.08	5.28	5.44	4.93	4.54	4.41	4.35	4.65	4.59	4.66		4.79
	Final Estimated Infiltration	1.57	2.05	2.08	2.28	2.44	1.93	1.54	1.41	1.35	1.65	1.59	1.66		1.79
	Estimated Sanitary Flow	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.00
	Estimated Inflow	0.68	1.00	1.80	1.49	2.99	0.30	1.43	0.49	1.20	2.45	0.70	0.90		1.29

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 7	Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Everett	Raw Average Daily Flow	5.25	5.73	6.55	6.13	6.75	5.28	5.12	4.73	5.04	5.64	5.19	5.18	5.55
	Raw Dry Day Average Daily Flow	4.95	5.25	5.88	5.47	5.69	5.23	4.82	4.52	4.57	4.85	4.89	4.89	5.08
	Raw Estimated Infiltration	1.65	1.95	2.58	2.17	2.39	1.93	1.52	1.22	1.27	1.55	1.59	1.59	1.78
	MWRA Estimated Infiltration	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	Final Average Daily Flow	5.24	5.72	6.54	6.12	6.74	5.27	5.11	4.72	5.03	5.63	5.18	5.17	5.54
	Final Dry Day Average Daily Flow	4.94	5.24	5.87	5.46	5.68	5.22	4.81	4.51	4.56	4.84	4.88	4.88	5.07
	Final Estimated Infiltration	1.64	1.94	2.57	2.16	2.38	1.92	1.51	1.21	1.26	1.54	1.58	1.58	1.77
	Estimated Sanitary Flow	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
	Estimated Inflow	0.30	0.48	0.67	0.66	1.06	0.05	0.30	0.21	0.47	0.79	0.30	0.29	0.47
Lexington	Raw Average Daily Flow	4.85	4.94	7.59	7.51	7.99	7.36	4.45	3.62	3.26	3.73	4.36	4.52	5.35
	Raw Dry Day Average Daily Flow	4.63	4.77	7.14	6.89	7.23	6.62	4.21	3.28	3.17	3.45	4.35	4.47	5.02
	Raw Estimated Infiltration	2.43	2.57	4.94	4.69	5.03	4.42	2.01	1.08	0.97	1.25	2.15	2.27	2.82
	MWRA Estimated Infiltration	0.23	0.24	0.46	0.44	0.47	0.41	0.19	0.10	0.09	0.12	0.20	0.21	0.26
	Final Average Daily Flow	4.62	4.70	7.13	7.07	7.52	6.95	4.26	3.52	3.17	3.61	4.16	4.31	5.09
	Final Dry Day Average Daily Flow	4.40	4.53	6.68	6.45	6.76	6.21	4.02	3.18	3.08	3.33	4.15	4.26	4.75
	Final Estimated Infiltration	2.20	2.33	4.48	4.25	4.56	4.01	1.82	0.98	0.88	1.13	1.95	2.06	2.55
	Estimated Sanitary Flow	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Estimated Inflow	0.22	0.17	0.45	0.62	0.76	0.74	0.24	0.34	0.09	0.28	0.01	0.05	0.33
Malden	Raw Average Daily Flow	7.47	7.88	9.88	9.63	10.66	7.88	6.76	6.29	6.29	7.45	7.35	7.07	7.89
	Raw Dry Day Average Daily Flow	6.96	7.49	8.96	8.83	9.32	7.85	6.57	6.07	5.92	6.64	7.12	6.94	7.39
	Raw Estimated Infiltration	1.96	2.49	3.96	3.83	4.32	2.85	1.57	1.07	0.92	1.64	2.12	1.94	2.39
	MWRA Estimated Infiltration	0.20	0.26	0.41	0.40	0.45	0.30	0.16	0.11	0.10	0.17	0.22	0.20	0.25
	Final Average Daily Flow	7.27	7.62	9.47	9.23	10.21	7.58	6.60	6.18	6.19	7.28	7.13	6.87	7.64
	Final Dry Day Average Daily Flow	6.76	7.23	8.55	8.43	8.87	7.55	6.41	5.96	5.82	6.47	6.90	6.74	7.14
	Final Estimated Infiltration	1.76	2.23	3.55	3.43	3.87	2.55	1.41	0.96	0.82	1.47	1.90	1.74	2.14
	Estimated Sanitary Flow	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	Estimated Inflow	0.51	0.39	0.92	0.80	1.34	0.03	0.19	0.22	0.37	0.81	0.23	0.13	0.50
Medford	Raw Average Daily Flow	7.17	8.21	10.45	10.00	10.63	7.17	5.77	5.34	5.62	7.03	6.73	6.72	7.57
	Raw Dry Day Average Daily Flow	6.56	7.56	8.92	8.74	8.78	7.10	5.39	4.99	4.96	5.77	6.34	6.31	6.78
	Raw Estimated Infiltration	2.26	3.26	4.62	4.44	4.48	2.80	1.09	0.69	0.66	1.47	2.04	2.01	2.48
	MWRA Estimated Infiltration	0.28	0.41	0.58	0.55	0.56	0.35	0.14	0.09	0.08	0.18	0.25	0.25	0.31
	Final Average Daily Flow	6.89	7.80	9.87	9.45	10.07	6.82	5.63	5.25	5.54	6.85	6.48	6.47	7.26
	Final Dry Day Average Daily Flow	6.28	7.15	8.34	8.19	8.22	6.75	5.25	4.90	4.88	5.59	6.09	6.06	6.47
	Final Estimated Infiltration	1.98	2.85	4.04	3.89	3.92	2.45	0.95	0.60	0.58	1.29	1.79	1.76	2.17
	Estimated Sanitary Flow	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Estimated Inflow	0.61	0.65	1.53	1.26	1.85	0.07	0.38	0.35	0.66	1.26	0.39	0.41	0.79
Melrose	Raw Average Daily Flow	3.35	3.74	5.58	5.09	5.34	3.23	2.09	1.96	2.09	2.64	2.75	2.69	3.38
	Raw Dry Day Average Daily Flow	3.00	3.42	4.79	4.29	4.55	3.16	2.01	1.90	1.93	2.19	2.62	2.56	3.03
	Raw Estimated Infiltration	1.10	1.52	2.89	2.39	2.65	1.26	0.11	0.00	0.03	0.29	0.72	0.66	1.13
	MWRA Estimated Infiltration	0.22	0.31	0.58	0.48	0.53	0.25	0.02	0.00	0.01	0.06	0.14	0.13	0.23
	Final Average Daily Flow	3.13	3.43	5.00	4.61	4.81	2.98	2.07	1.96	2.08	2.58	2.61	2.56	3.15
	Final Dry Day Average Daily Flow	2.78	3.11	4.21	3.81	4.02	2.91	1.99	1.90	1.92	2.13	2.48	2.43	2.81
	Final Estimated Infiltration	0.88	1.21	2.31	1.91	2.12	1.01	0.09	0.00	0.02	0.23	0.58	0.53	0.91
	Estimated Sanitary Flow	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
	Estimated Inflow	0.35	0.32	0.79	0.80	0.79	0.07	0.08	0.06	0.16	0.45	0.13	0.13	0.34

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 8	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Milton (North Only)	Average Daily Flow	0.28	0.29	0.40	0.36	0.38	0.29	0.24	0.25	0.26	0.31	0.30	0.25	0.30
	Dry Day Average Daily Flow	0.26	0.28	0.35	0.32	0.30	0.28	0.23	0.24	0.26	0.27	0.29	0.25	0.28
	Estimated Infiltration	0.11	0.13	0.20	0.17	0.15	0.13	0.08	0.09	0.11	0.12	0.14	0.10	0.13
	Estimated Sanitary Flow	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	Estimated Inflow	0.02	0.01	0.05	0.04	0.08	0.01	0.01	0.01	0.00	0.04	0.01	0.00	0.02
Newton (North Only)	Average Daily Flow	5.12	5.28	7.29	7.43	7.84	6.07	4.71	4.21	4.12	4.79	4.99	4.91	5.56
	Dry Day Average Daily Flow	4.87	5.07	6.66	6.79	6.85	5.72	4.44	3.90	3.95	4.18	4.82	4.86	5.18
	Estimated Infiltration	1.17	1.37	2.96	3.09	3.15	2.02	0.74	0.20	0.25	0.48	1.12	1.16	1.48
	Estimated Sanitary Flow	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70
	Estimated Inflow	0.25	0.21	0.63	0.64	0.99	0.35	0.27	0.31	0.17	0.61	0.17	0.05	0.39
Reading	Raw Average Daily Flow	2.49	2.55	3.47	3.47	3.47	2.56	1.78	1.70	1.61	1.78	2.02	2.13	2.42
	Raw Dry Day Average Daily Flow	2.38	2.46	3.18	3.21	3.24	2.50	1.74	1.60	1.57	1.63	2.01	2.09	2.30
	Raw Estimated Infiltration	1.08	1.16	1.88	1.91	1.94	1.20	0.44	0.30	0.27	0.33	0.71	0.79	1.00
	MWRA Estimated Infiltration	0.01	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01
	Final Average Daily Flow	2.48	2.54	3.45	3.45	3.45	2.55	1.78	1.70	1.61	1.78	2.01	2.12	2.41
	Final Dry Day Average Daily Flow	2.37	2.45	3.16	3.19	3.22	2.49	1.74	1.60	1.57	1.63	2.00	2.08	2.29
	Final Estimated Infiltration	1.07	1.15	1.86	1.89	1.92	1.19	0.44	0.30	0.27	0.33	0.70	0.78	0.99
	Estimated Sanitary Flow	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
	Estimated Inflow	0.11	0.09	0.29	0.26	0.23	0.06	0.04	0.10	0.04	0.15	0.01	0.04	0.12
Revere	Raw Average Daily Flow	6.87	7.71	8.60	8.16	8.89	6.62	6.54	6.38	6.56	7.96	7.36	7.33	7.42
	Raw Dry Day Average Daily Flow	6.38	6.99	7.37	7.16	7.44	6.09	6.20	5.90	5.54	6.76	7.04	6.90	6.65
	Raw Estimated Infiltration	2.38	2.99	3.37	3.16	3.44	2.09	2.20	1.90	1.54	2.76	3.04	2.90	2.65
	MWRA Estimated Infiltration	0.03	0.03	0.04	0.04	0.04	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.03
	Final Average Daily Flow	6.84	7.68	8.56	8.12	8.85	6.60	6.51	6.36	6.54	7.93	7.33	7.30	7.39
	Final Dry Day Average Daily Flow	6.35	6.96	7.33	7.12	7.40	6.07	6.17	5.88	5.52	6.73	7.01	6.87	6.62
	Final Estimated Infiltration	2.35	2.96	3.33	3.12	3.40	2.07	2.17	1.88	1.52	2.73	3.01	2.87	2.62
	Estimated Sanitary Flow	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
	Estimated Inflow	0.49	0.72	1.23	1.00	1.45	0.53	0.34	0.48	1.02	1.20	0.32	0.43	0.77
Somerville	Raw Average Daily Flow	7.65	9.10	10.54	10.04	12.38	6.98	7.27	6.11	7.43	9.89	7.26	7.59	8.52
	Raw Dry Day Average Daily Flow	6.42	7.20	7.56	7.27	7.56	6.42	5.62	5.74	5.64	6.15	6.13	6.25	6.49
	Raw Estimated Infiltration	0.82	1.60	1.96	1.67	1.96	0.82	0.02	0.14	0.04	0.55	0.53	0.65	0.89
	MWRA Estimated Infiltration	0.02	0.04	0.05	0.04	0.05	0.02	0.00	0.00	0.00	0.01	0.01	0.02	0.02
	Final Average Daily Flow	7.63	9.06	10.49	10.00	12.33	6.96	7.27	6.11	7.43	9.88	7.25	7.57	8.50
	Final Dry Day Average Daily Flow	6.40	7.16	7.51	7.23	7.51	6.40	5.62	5.74	5.64	6.14	6.12	6.23	6.47
	Final Estimated Infiltration	0.80	1.56	1.91	1.63	1.91	0.80	0.02	0.14	0.04	0.54	0.52	0.63	0.87
	Estimated Sanitary Flow	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60
	Estimated Inflow	1.23	1.90	2.98	2.77	4.82	0.56	1.65	0.37	1.79	3.74	1.13	1.34	2.03
Stoneham	Raw Average Daily Flow	2.92	3.04	4.32	3.87	3.79	3.12	2.39	2.08	2.16	2.53	2.90	2.76	2.99
	Raw Dry Day Average Daily Flow	2.67	2.84	3.93	3.47	3.39	2.95	2.30	1.91	2.01	2.25	2.83	2.68	2.77
	Raw Estimated Infiltration	1.17	1.34	2.43	1.97	1.89	1.45	0.80	0.41	0.51	0.75	1.33	1.18	1.27
	MWRA Estimated Infiltration	0.19	0.22	0.40	0.32	0.31	0.24	0.13	0.07	0.08	0.12	0.22	0.19	0.21
	Final Average Daily Flow	2.73	2.82	3.92	3.55	3.48	2.88	2.26	2.01	2.08	2.41	2.68	2.57	2.78
	Final Dry Day Average Daily Flow	2.48	2.62	3.53	3.15	3.08	2.71	2.17	1.84	1.93	2.13	2.61	2.49	2.56
	Final Estimated Infiltration	0.98	1.12	2.03	1.65	1.58	1.21	0.67	0.34	0.43	0.63	1.11	0.99	1.06
	Estimated Sanitary Flow	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Estimated Inflow	0.25	0.20	0.39	0.40	0.40	0.17	0.09	0.17	0.15	0.28	0.07	0.08	0.22

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 9	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Wakefield	Raw Average Daily Flow	3.16	3.47	4.70	4.80	5.29	3.74	2.48	2.23	2.13	2.45	2.87	2.96	3.36
	Raw Dry Day Average Daily Flow	2.95	3.23	4.34	4.54	4.92	3.65	2.38	2.14	2.02	2.23	2.81	2.94	3.18
	Raw Estimated Infiltration	1.45	1.73	2.84	3.04	3.42	2.15	0.88	0.64	0.52	0.73	1.31	1.44	1.68
	MWRA Estimated Infiltration	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01
	Final Average Daily Flow	3.15	3.46	4.68	4.78	5.27	3.73	2.47	2.23	2.13	2.45	2.86	2.95	3.35
	Final Dry Day Average Daily Flow	2.94	3.22	4.32	4.52	4.90	3.64	2.37	2.14	2.02	2.23	2.80	2.93	3.17
	Final Estimated Infiltration	1.44	1.72	2.82	3.02	3.40	2.14	0.87	0.64	0.52	0.73	1.30	1.43	1.67
	Estimated Sanitary Flow	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Estimated Inflow	0.21	0.24	0.36	0.26	0.37	0.09	0.10	0.09	0.11	0.22	0.06	0.02	0.18
Waltham	Raw Average Daily Flow	6.95	7.61	9.91	9.65	10.97	8.82	6.81	6.30	6.47	7.16	7.34	7.19	7.93
	Raw Dry Day Average Daily Flow	6.59	7.29	8.86	8.78	9.43	8.05	6.41	5.91	6.06	6.40	7.09	7.04	7.32
	Raw Estimated Infiltration	0.99	1.69	3.26	3.18	3.83	2.45	0.81	0.31	0.46	0.80	1.49	1.44	1.72
	MWRA Estimated Infiltration	0.04	0.06	0.12	0.12	0.14	0.09	0.03	0.01	0.02	0.03	0.06	0.05	0.06
	Final Average Daily Flow	6.91	7.55	9.79	9.53	10.83	8.73	6.78	6.29	6.45	7.13	7.28	7.14	7.87
	Final Dry Day Average Daily Flow	6.55	7.23	8.74	8.66	9.29	7.96	6.38	5.90	6.04	6.37	7.03	6.99	7.26
	Final Estimated Infiltration	0.95	1.63	3.14	3.06	3.69	2.36	0.78	0.30	0.44	0.77	1.43	1.39	1.66
	Estimated Sanitary Flow	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60
	Estimated Inflow	0.36	0.32	1.05	0.87	1.54	0.77	0.40	0.39	0.41	0.76	0.25	0.15	0.61
Watertown	Average Daily Flow	3.77	3.93	4.83	4.85	5.18	4.06	3.41	3.24	3.22	3.60	3.68	3.71	3.96
	Dry Day Average Daily Flow	3.58	3.76	4.37	4.43	4.49	3.93	3.19	3.05	3.06	3.14	3.63	3.67	3.69
	Estimated Infiltration	1.38	1.56	2.17	2.23	2.29	1.73	0.99	0.85	0.86	0.94	1.43	1.47	1.49
	Estimated Sanitary Flow	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	Estimated Inflow	0.19	0.17	0.46	0.42	0.69	0.13	0.22	0.19	0.16	0.46	0.05	0.04	0.27
Wilmington	Raw Average Daily Flow	1.54	1.68	1.77	1.79	1.58	1.49	1.30	1.21	1.34	1.32	1.32	1.40	1.48
	Raw Dry Day Average Daily Flow	1.47	1.66	1.73	1.69	1.57	1.49	1.22	1.20	1.31	1.31	1.30	1.34	1.44
	Raw Estimated Infiltration	0.67	0.86	0.93	0.89	0.77	0.69	0.42	0.40	0.51	0.51	0.50	0.54	0.64
	MWRA Estimated Infiltration	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Final Average Daily Flow	1.53	1.67	1.76	1.78	1.57	1.48	1.30	1.21	1.34	1.32	1.32	1.40	1.47
	Final Dry Day Average Daily Flow	1.46	1.65	1.72	1.68	1.56	1.48	1.22	1.20	1.31	1.31	1.30	1.34	1.43
	Final Estimated Infiltration	0.66	0.85	0.92	0.88	0.76	0.68	0.42	0.40	0.51	0.51	0.50	0.54	0.63
	Estimated Sanitary Flow	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
	Estimated Inflow	0.07	0.02	0.04	0.10	0.01	0.00	0.08	0.01	0.03	0.01	0.02	0.06	0.04
Winchester	Average Daily Flow	2.31	2.46	3.84	3.98	3.89	3.37	2.24	1.92	1.87	2.09	2.18	2.17	2.69
	Dry Day Average Daily Flow	2.18	2.31	3.44	3.63	3.32	2.95	2.14	1.80	1.82	1.95	2.12	2.14	2.48
	Estimated Infiltration	0.98	1.11	2.24	2.43	2.12	1.75	0.94	0.60	0.62	0.75	0.92	0.94	1.28
	Estimated Sanitary Flow	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
	Estimated Inflow	0.13	0.15	0.40	0.35	0.57	0.42	0.10	0.12	0.05	0.14	0.06	0.03	0.21
Winthrop	Average Daily Flow	2.21	2.34	2.61	2.56	2.93	2.35	2.14	2.01	2.07	2.33	2.06	2.07	2.31
	Dry Day Average Daily Flow	2.05	2.12	2.27	2.33	2.41	2.29	1.98	1.88	1.95	2.01	1.95	1.91	2.10
	Estimated Infiltration	0.85	0.92	1.07	1.13	1.21	1.09	0.78	0.68	0.75	0.81	0.75	0.71	0.90
	Estimated Sanitary Flow	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
	Estimated Inflow	0.16	0.22	0.34	0.23	0.52	0.06	0.16	0.13	0.12	0.32	0.11	0.16	0.21

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 10	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Woburn	Raw Average Daily Flow	6.05	6.58	8.19	7.74	8.52	7.25	5.68	5.46	5.38	6.00	6.35	6.09	6.61
	Raw Dry Day Average Daily Flow	5.77	6.32	7.63	7.19	7.78	6.64	5.50	5.24	5.24	5.55	6.12	6.08	6.25
	Raw Estimated Infiltration	2.07	2.62	3.93	3.49	4.08	2.94	1.80	1.54	1.54	1.85	2.42	2.38	2.55
	MWRA Estimated Infiltration	0.17	0.22	0.33	0.29	0.34	0.24	0.15	0.13	0.13	0.15	0.20	0.20	0.21
	Final Average Daily Flow	5.88	6.36	7.86	7.45	8.18	7.01	5.53	5.33	5.25	5.85	6.15	5.89	6.39
	Final Dry Day Average Daily Flow	5.60	6.10	7.30	6.90	7.44	6.40	5.35	5.11	5.11	5.40	5.92	5.88	6.04
	Final Estimated Infiltration	1.90	2.40	3.60	3.20	3.74	2.70	1.65	1.41	1.41	1.70	2.22	2.18	2.34
	Estimated Sanitary Flow	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70
	Estimated Inflow	0.28	0.26	0.56	0.55	0.74	0.61	0.18	0.22	0.14	0.45	0.23	0.01	0.35
Subtotal (Northern System)	Raw Average Daily Flow	182.28	201.07	236.49	229.76	255.63	192.64	175.48	158.65	168.54	198.96	176.02	179.40	196.25
	Raw Dry Day Average Daily Flow	169.20	184.23	204.21	200.93	205.72	181.52	157.03	147.41	150.18	158.70	165.18	167.90	174.27
	Raw Estimated Infiltration	45.70	60.73	80.71	77.43	82.22	58.02	33.53	25.91	26.68	35.20	41.68	45.40	51.02
	MWRA Estimated Infiltration	3.48	4.75	5.93	5.51	5.76	4.04	2.49	2.18	2.09	2.68	2.98	3.08	3.74
	Final Average Daily Flow	178.80	196.32	230.56	224.25	249.87	188.60	172.99	156.47	166.45	196.28	173.04	176.32	192.51
	Final Dry Day Average Daily Flow	165.72	179.48	198.28	195.42	199.96	177.48	154.54	145.23	148.09	156.02	162.20	164.82	170.53
	Final Estimated Infiltration	42.22	55.98	74.78	71.92	76.46	53.98	31.04	23.73	24.59	32.52	38.70	42.32	47.28
	Estimated Sanitary Flow	123.50	123.50	123.50	123.50	123.50	123.50	123.50	121.50	123.50	123.50	123.50	122.50	123.25
	Estimated Inflow	13.08	16.84	32.28	28.83	49.91	11.12	18.45	11.24	18.36	40.26	10.84	11.50	21.98
Total (North and South)	Raw Average Daily Flow	291.59	316.02	383.83	369.48	410.86	303.97	273.33	241.97	250.81	304.61	278.08	281.80	308.89
	Raw Dry Day Average Daily Flow	270.17	292.13	332.57	327.01	335.02	289.23	248.06	226.30	227.17	244.36	263.27	267.59	276.78
	Raw Estimated Infiltration	91.77	113.73	154.17	148.61	156.62	110.83	69.66	49.90	48.87	65.96	84.87	90.19	98.65
	MWRA Estimated Infiltration	9.20	11.22	14.61	14.04	14.66	10.19	6.92	5.38	4.97	6.82	8.37	8.75	9.58
	Final Average Daily Flow	282.39	304.80	369.22	355.44	396.20	293.78	266.41	236.59	245.84	297.79	269.71	273.05	299.31
	Final Dry Day Average Daily Flow	260.97	280.91	317.96	312.97	320.36	279.04	241.14	220.92	222.20	237.54	254.90	258.84	267.20
	Final Estimated Infiltration	82.57	102.51	139.56	134.57	141.96	100.64	62.74	44.52	43.90	59.14	76.50	81.44	89.06
	Estimated Sanitary Flow	178.40	178.40	178.40	178.40	178.40	178.40	178.40	176.40	178.30	178.40	178.40	177.40	178.14
	Estimated Inflow	21.42	23.89	51.26	42.47	75.84	14.74	25.27	15.67	23.64	60.25	14.81	14.21	32.11
North System as Reported by NPDES	Average Daily Flow	179.10	198.90	236.30	226.20	256.10	192.70	179.40	156.60	167.80	196.70	172.40	173.80	194.69
Total System as Reported by NPDES	Average Daily Flow	277.50	302.70	371.30	353.10	399.20	293.80	269.20	230.80	241.60	293.10	263.80	265.30	296.83

Table 4 - Estimated Community Wastewater Flow Components for 2025											06/24/26		PAGE 11	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Chelsea Creek	Average Daily Flow	83.85	91.36	114.13	110.46	121.19	90.45	75.47	67.30	70.81	82.60	77.63	78.47	88.64
	Dry Day Average Daily Flow	77.53	83.57	99.06	96.23	100.02	85.60	67.66	62.47	62.86	67.24	73.15	73.84	79.06
	Estimated Infiltration	29.93	35.97	51.46	48.63	52.42	38.00	20.06	14.87	15.26	19.64	25.55	26.24	31.46
	Estimated Sanitary Flow	47.60	47.60	47.60	47.60	47.60	47.60	47.60	47.60	47.60	47.60	47.60	47.60	47.60
	Estimated Inflow	6.32	7.79	15.07	14.23	21.17	4.85	7.81	4.83	7.95	15.36	4.48	4.63	9.57
Columbus Park	Average Daily Flow	27.55	32.02	34.05	32.35	38.76	27.42	28.44	25.22	28.74	36.21	26.88	32.24	30.84
	Dry Day Average Daily Flow	24.33	27.39	27.22	26.97	27.37	25.95	23.96	22.00	23.75	24.57	24.45	27.71	25.46
	Estimated Infiltration	3.88	6.94	6.77	6.52	6.92	5.50	3.51	1.55	3.30	4.12	4.00	7.26	5.01
	Estimated Sanitary Flow	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.45	20.45
	Estimated Inflow	3.22	4.63	6.83	5.38	11.39	1.47	4.48	3.22	4.99	11.64	2.43	4.53	5.38
Ward Street	Average Daily Flow	52.68	57.74	66.68	66.49	72.34	57.51	53.80	48.64	52.38	60.18	54.47	52.58	57.96
	Dry Day Average Daily Flow	50.53	55.38	59.48	59.93	59.98	53.72	47.25	45.11	46.17	49.93	51.71	50.98	52.49
	Estimated Infiltration	6.18	11.03	15.13	15.58	15.63	9.37	2.90	2.76	1.82	5.58	7.36	7.63	8.39
	Estimated Sanitary Flow	44.35	44.35	44.35	44.35	44.35	44.35	44.35	42.35	44.35	44.35	44.35	43.35	44.10
	Estimated Inflow	2.15	2.36	7.20	6.56	12.36	3.79	6.55	3.53	6.21	10.25	2.76	1.60	5.48
Winthrop Terminal	Average Daily Flow	17.73	19.34	20.94	19.90	22.73	16.85	17.29	17.12	16.29	18.91	17.02	17.29	18.45
	Dry Day Average Daily Flow	16.36	17.29	17.72	17.23	17.79	15.83	15.57	15.65	14.12	13.59	15.91	15.87	16.07
	Estimated Infiltration	5.96	6.89	7.32	6.83	7.39	5.43	5.17	5.25	3.72	3.19	5.51	5.47	5.67
	Estimated Sanitary Flow	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40
	Estimated Inflow	1.37	2.05	3.22	2.67	4.94	1.02	1.72	1.47	2.17	5.32	1.11	1.42	2.38
Subtotal - Northern Headworks	Average Daily Flow	181.81	200.46	235.80	229.20	255.02	192.23	174.99	158.28	168.22	197.90	176.00	180.58	195.89
	Dry Day Average Daily Flow	168.75	183.63	203.48	200.36	205.16	181.10	154.44	145.23	146.90	155.33	165.22	168.40	173.08
	Estimated Infiltration	45.95	60.83	80.68	77.56	82.36	58.30	31.64	24.43	24.10	32.53	42.42	46.60	50.53
	Estimated Sanitary Flow	122.80	122.80	122.80	122.80	122.80	122.80	122.80	120.80	122.80	122.80	122.80	121.80	122.55
	Estimated Inflow	13.06	16.83	32.32	28.84	49.86	11.13	20.55	13.05	21.32	42.57	10.78	12.18	22.81
Headworks as Reported by NPDES	SUM of NPDES HW ADF's (below)	179.10	198.90	236.30	226.20	256.10	192.70	179.40	156.60	167.80	196.70	172.40	173.80	194.69
Chelsea Creek	Average Daily Flow	84.80	92.20	116.10	111.00	124.10	93.40	81.10	70.30	72.70	83.40	77.80	77.10	90.34
Columbus Park	Average Daily Flow	27.10	31.70	34.30	31.60	38.60	27.20	28.70	24.70	28.60	36.00	26.70	32.10	30.62
Ward Street	Average Daily Flow	52.40	57.80	66.50	64.80	71.40	57.00	54.30	48.30	52.60	60.10	53.70	50.60	57.46
Winthrop Terminal	Average Daily Flow	14.80	17.20	19.40	18.80	22.00	15.10	15.30	13.30	13.90	17.20	14.20	14.00	16.27
Total System Flow (Southern Collection System Plus Northern Headworks)	Raw Average Daily Flow	291.12	315.41	383.14	368.92	410.25	303.56	272.84	241.60	250.49	303.55	278.06	282.98	308.53
	Raw Dry Day Average Daily Flow	269.72	291.53	331.84	326.44	334.46	288.81	245.47	224.12	223.89	240.99	263.31	268.09	275.59
	Raw Estimated Infiltration	92.02	113.83	154.14	148.74	156.76	111.11	67.77	48.42	46.29	63.29	85.61	91.39	98.16
	MWRA Estimated Infiltration	5.72	6.47	8.68	8.53	8.90	6.15	4.43	3.20	2.88	4.14	5.39	5.67	5.84
	Final Average Daily Flow	285.40	308.94	374.46	360.39	401.35	297.41	268.41	238.40	247.61	299.41	272.67	277.31	302.68
	Final Dry Day Average Daily Flow	264.00	285.06	323.16	317.91	325.56	282.66	241.04	220.92	221.01	236.85	257.92	262.42	269.75
	Final Estimated Infiltration	86.30	107.36	145.46	140.21	147.86	104.96	63.34	45.22	43.41	59.15	80.22	85.72	92.31
	Estimated Sanitary Flow	177.70	177.70	177.70	177.70	177.70	177.70	177.70	175.70	177.60	177.70	177.70	176.70	177.44
	Estimated Inflow	21.40	23.88	51.30	42.48	75.79	14.75	27.37	17.48	26.60	62.56	14.75	14.89	32.93

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 12	Annual Average (MGD)
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Boston (Total)	Raw Average Daily Flow	84.89	94.67	106.34	102.99	116.61	85.41	82.86	74.38	78.65	97.97	82.12	85.29	91.03
	Raw Dry Day Average Daily Flow	78.40	86.50	90.62	89.50	91.01	80.76	74.01	68.38	69.94	74.63	76.11	79.34	79.89
	Raw Estimated Infiltration	20.40	28.50	32.62	31.50	33.01	22.76	16.01	12.38	11.94	16.63	18.11	22.34	22.14
	MWRA Estimated Infiltration	5.47	6.66	8.43	8.22	8.62	5.82	4.14	3.36	2.86	4.12	4.92	5.28	5.65
	Final Average Daily Flow	79.42	88.01	97.91	94.77	107.99	79.59	78.72	71.02	75.79	93.85	77.20	80.01	85.37
	Final Dry Day Average Daily Flow	72.93	79.84	82.19	81.28	82.39	74.94	69.87	65.02	67.08	70.51	71.19	74.06	74.24
	Final Estimated Infiltration	14.93	21.84	24.19	23.28	24.39	16.94	11.87	9.02	9.08	12.51	13.19	17.06	16.49
	Estimated Sanitary Flow	58.00	58.00	58.00	58.00	58.00	58.00	58.00	56.00	58.00	58.00	58.00	57.00	57.75
	Estimated Inflow	6.49	8.17	15.72	13.49	25.60	4.65	8.85	6.00	8.71	23.34	6.01	5.95	11.14
Brookline (Total)	Raw Average Daily Flow	6.57	6.81	8.74	8.05	9.18	6.73	6.08	5.53	5.55	6.93	6.03	5.68	6.83
	Raw Dry Day Average Daily Flow	6.03	6.24	7.33	7.22	7.40	6.51	5.51	5.10	5.03	5.56	5.65	5.54	6.09
	Raw Estimated Infiltration	1.73	1.94	3.03	2.92	3.10	2.21	1.21	0.80	0.73	1.26	1.35	1.24	1.79
	MWRA Estimated Infiltration	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01
	Final Average Daily Flow	6.56	6.80	8.72	8.03	9.16	6.72	6.07	5.53	5.55	6.92	6.02	5.67	6.82
	Final Dry Day Average Daily Flow	6.02	6.23	7.31	7.20	7.38	6.50	5.50	5.10	5.03	5.55	5.64	5.53	6.08
	Final Estimated Infiltration	1.72	1.93	3.01	2.90	3.08	2.20	1.20	0.80	0.73	1.25	1.34	1.23	1.78
	Estimated Sanitary Flow	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
	Estimated Inflow	0.54	0.57	1.41	0.83	1.78	0.22	0.57	0.43	0.52	1.37	0.38	0.14	0.73
Milton (Total)	Average Daily Flow	4.13	4.46	5.97	5.55	5.82	3.82	2.96	2.62	2.61	3.85	3.59	3.51	4.07
	Dry Day Average Daily Flow	3.71	4.13	4.98	4.96	4.50	3.70	2.74	2.50	2.52	2.81	3.41	3.42	3.61
	Estimated Infiltration	2.21	2.63	3.48	3.46	3.00	2.20	1.24	1.00	1.02	1.31	1.91	1.92	2.11
	Estimated Sanitary Flow	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	Estimated Inflow	0.42	0.33	0.99	0.59	1.32	0.12	0.22	0.12	0.09	1.04	0.18	0.09	0.46
Newton (Total)	Raw Average Daily Flow	12.90	13.12	18.72	18.24	20.06	14.53	11.04	9.81	9.63	12.11	12.25	12.01	13.71
	Raw Dry Day Average Daily Flow	12.08	12.45	16.97	16.37	16.89	13.98	10.44	9.16	9.18	10.05	11.84	11.86	12.60
	Raw Estimated Infiltration	4.28	4.65	9.17	8.57	9.09	6.18	2.64	1.36	1.38	2.25	4.04	4.06	4.80
	MWRA Estimated Infiltration	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01
	Final Average Daily Flow	12.89	13.11	18.70	18.23	20.04	14.52	11.03	9.81	9.63	12.11	12.24	12.00	13.70
	Final Dry Day Average Daily Flow	12.07	12.44	16.95	16.36	16.87	13.97	10.43	9.16	9.18	10.05	11.83	11.85	12.60
	Final Estimated Infiltration	4.27	4.64	9.15	8.56	9.07	6.17	2.63	1.36	1.38	2.25	4.03	4.05	4.80
	Estimated Sanitary Flow	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80
	Estimated Inflow	0.82	0.67	1.75	1.87	3.17	0.55	0.60	0.65	0.45	2.06	0.41	0.15	1.10

Table 4 - Estimated Community Wastewater Flow Components for 2025										06/24/26			PAGE 13	Annual Average
Community	Flow Characteristic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(MGD)
Subtotal	Raw Average Daily Flow	95.75	108.35	116.54	112.86	129.99	94.98	98.76	87.96	97.05	116.69	92.83	96.93	104.07
Northern System CSO	Raw Dry Day Average Daily Flow	88.00	96.94	96.54	95.30	96.19	89.40	84.22	80.91	83.61	86.35	84.88	87.80	89.12
Communities Only:	Raw Estimated Infiltration	17.60	26.54	26.14	24.90	25.79	19.00	13.82	12.51	13.21	15.95	14.48	18.40	18.98
[Sum of Boston (North),	MWRA Estimated Infiltration	2.02	2.89	2.82	2.69	2.73	2.01	1.58	1.62	1.52	1.77	1.56	1.73	2.07
Cambridge, Chelsea,	Final Average Daily Flow	93.73	105.46	113.72	110.17	127.26	92.97	97.18	86.34	95.53	114.92	91.27	95.20	102.00
and Somerville]	Final Dry Day Average Daily Flow	85.98	94.05	93.72	92.61	93.46	87.39	82.64	79.29	82.09	84.58	83.32	86.07	87.05
	Final Estimated Infiltration	15.58	23.65	23.32	22.21	23.06	16.99	12.24	10.89	11.69	14.18	12.92	16.67	16.91
	Estimated Sanitary Flow	70.40	70.40	70.40	70.40	70.40	70.40	70.40	68.40	70.40	70.40	70.40	69.40	70.15
	Estimated Inflow	7.75	11.41	20.00	17.56	33.80	5.58	14.54	7.05	13.44	30.34	7.95	9.13	14.95
Subtotal	Raw Average Daily Flow	86.53	92.72	119.95	116.90	125.64	97.66	76.72	70.69	71.49	82.27	83.19	82.47	92.18
Northern System Without	Raw Dry Day Average Daily Flow	81.20	87.29	107.67	105.63	109.53	92.12	72.81	66.50	66.57	72.35	80.30	80.10	85.14
North CSO Communities:	Raw Estimated Infiltration	28.10	34.19	54.57	52.53	56.43	39.02	19.71	13.40	13.47	19.25	27.20	27.00	32.04
	MWRA Estimated Infiltration	1.46	1.86	3.11	2.82	3.03	2.03	0.91	0.56	0.57	0.91	1.42	1.35	1.67
	Final Average Daily Flow	85.07	90.86	116.84	114.08	122.61	95.63	75.81	70.13	70.92	81.36	81.77	81.12	90.51
	Final Dry Day Average Daily Flow	79.74	85.43	104.56	102.81	106.50	90.09	71.90	65.94	66.00	71.44	78.88	78.75	83.48
	Final Estimated Infiltration	26.64	32.33	51.46	49.71	53.40	36.99	18.80	12.84	12.90	18.34	25.78	25.65	30.38
	Estimated Sanitary Flow	53.10	53.10	53.10	53.10	53.10	53.10	53.10	53.10	53.10	53.10	53.10	53.10	53.10
	Estimated Inflow	5.33	5.43	12.28	11.27	16.11	5.54	3.91	4.19	4.92	9.92	2.89	2.37	7.04
Subtotal	Raw Average Daily Flow	195.84	207.67	267.29	256.62	280.87	208.99	174.57	154.01	153.76	187.92	185.25	184.87	204.82
North/South Systems Without	Raw Dry Day Average Daily Flow	182.17	195.19	236.03	231.71	238.83	199.83	163.84	145.39	143.56	158.01	178.39	179.79	187.66
North CSO Communites:	Raw Estimated Infiltration	74.17	87.19	128.03	123.71	130.83	91.83	55.84	37.39	35.66	50.01	70.39	71.79	79.67
	MWRA Estimated Infiltration	7.18	8.33	11.79	11.35	11.93	8.18	5.34	3.76	3.45	5.05	6.81	7.02	7.51
	Final Average Daily Flow	188.66	199.34	255.50	245.27	268.94	200.81	169.23	150.25	150.31	182.87	178.44	177.85	197.31
	Final Dry Day Average Daily Flow	174.99	186.86	224.24	220.36	226.90	191.65	158.50	141.63	140.11	152.96	171.58	172.77	180.15
	Final Estimated Infiltration	66.99	78.86	116.24	112.36	118.90	83.65	50.50	33.63	32.21	44.96	63.58	64.77	72.16
	Estimated Sanitary Flow	108.00	108.00	108.00	108.00	108.00	108.00	108.00	108.00	107.90	108.00	108.00	108.00	107.99
	Estimated Inflow	13.67	12.48	31.26	24.91	42.04	9.16	10.73	8.62	10.20	29.91	6.86	5.08	17.16