

Year 6 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2023-June 30, 2024

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form. Also ensure any websites included on this form are to publicly accessible sites

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2023 and June 30, 2024 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: City of Watertown

EPA NPDES Permit Number: MAR041083

Primary MS4 Program Manager Contact Information

Name: Tyler Glode Title: City Engineer

Street Address Line 1: 124 Orchard St.

Street Address Line 2: N/A

City: Watertown State: MA Zip Code: 02472

Email: tglode@watertown-ma.gov Phone Number: (617) 972-6420

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): <https://www.watertown-ma.gov/793/National-Pollutant-Discharge-Elimination>

Date SWMP was Last Updated: September 2021

If the SWMP is not available on the web please provide the physical address:

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>

Impairment(s)

Bacteria/Pathogens Chloride Nitrogen Phosphorus
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

TMDL(s)

In State: Assabet River Phosphorus Bacteria and Pathogen Cape Cod Nitrogen
 Charles River Watershed Phosphorus Lake and Pond Phosphorus

Out of State: Bacteria/Pathogens Metals Nitrogen Phosphorus

Clear Impairments and TMDLs

Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.

Annual Requirements

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
 - This is not applicable because we do not have sanitary sewer
 - This is not applicable because we did not find any new SSOs
 - The updated SSO inventory is attached to the email submission
 - The updated SSO inventory can be found at the following publicly available website:

- Updated system map due in year 10 with information from completed catchment investigations
- Provided training to employees involved in IDDE program within the reporting period
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

- Updated inventory of all permittee owned facilities as necessary
- O&M programs for all permittee owned facilities have been completed and updated as necessary
- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Inspected all permittee owned treatment structures (excluding catch basins)

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria
 - This is not applicable because there are no septic systems present

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

The City is 100% sewerred and there are no known septic systems.

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

- Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers
- Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

Structural BMPs

- Installed a structural BMP as a demonstration project within the drainage area of the water quality limited water or its tributaries. The type of BMP installed is (*e.g. biofiltration*):

As noted in the City's PSIR, the area tributary to the Mystic River encapsulates a very small portion of Watertown's MS4. The majority of Watertown's drainage infrastructure is located within the Charles River Watershed. The City has developed a Phosphorus Control Plan for the Charles River Watershed and updates the report annually. This report includes information on structural BMPs in catchments tributary to the Charles. As part of plan development and implementation, the City will look for opportunities to install BMPs in the watershed area for the Mystic River as well. The City installed a number of structural BMPs in the Charles River Watershed during Permit Year 6. An inventory of that list is appended to the PCP and attached to the email submission.

- Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated phosphorus removed in mass per year by the BMP were documented.

- No BMPs were installed
- The above referenced BMP information is attached to the email submission
- The above referenced BMP information can be found at the following publicly available website:

Total estimated phosphorus removed in **lbs/year** from the installed BMPs: 169.7

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Solids, Oil and Grease (Hydrocarbons), or Metals

Annual Requirements

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads
 - The street sweeping schedule is attached to the email submission
 - The street sweeping schedule can be found at the following publicly available website:

Street sweeping schedule is outlined on Page 5.

- Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Cleaned catch basins more frequently if inspection and maintenance activities indicated excessive sediment or debris loadings

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

All residential streets are swept a minimum of twice per year. Main roads (e.g., Arsenal Street, Mt. Auburn St.) are swept weekly and connector roads (e.g. Waverley Ave.) are swept monthly.

Charles River Watershed Phosphorus TMDL

Below, calculate your current phosphorus export rate by first filling out the individual phosphorus loading components (labeled [A], [B], [C], and [D]) and then computing your current phosphorus export rate using the equation provided.

Baseline phosphorus export rate from PCP Area, as identified in Appendix F (lbs/year) [A]:	1,549.9
Total phosphorus reduction from all nonstructural controls implemented this reporting period (lbs/year) [B]:	73.3
Total phosphorus reduction from all structural controls installed this reporting period and all previous years (lbs/year) [C]:	169.7
Phosphorus load increase due to development incurred since 2005 in lbs/year [D]:	0

Current phosphorus export rate from the PCP Area in **lbs/year** [=A-(B+C)+D from above]: 1,306.9

- I certify under penalty of law that all source control and treatment Best Management Practices being claimed for phosphorus reduction credit have been inspected, maintained and repaired in accordance
- with manufacturer or design specification. I certify that, to the best of my knowledge, all Best Management Practices being claimed for a phosphorus reduction credit are performing as originally designed.
 - All municipally owned and maintained turf grass areas are being managed in accordance with Massachusetts Regulation 331 CMR 31 pertaining to proper use of fertilizers on turf grasses
 - Implemented all nonstructural control measures **during this reporting period** and documented the measures and their phosphorus reduction. The nonstructural control measure information:
 - is attached to the email submission
 - can be found at the following publicly available website:

<https://www.watertown-ma.gov/793/National-Pollutant-Discharge-Elimination>

- Documented the structural control measures implemented during **this reporting period and all previous years**, including location, phosphorus reduction in mass/year, and date of last completed maintenance and inspection for each control. The structural control measure information:
 - is not applicable; no structural control measures were implemented
 - is attached to the email submission
 - can be found at the following publicly available website:

<https://www.watertown-ma.gov/793/National-Pollutant-Discharge-Elimination>

The Phase 1 PCP: (*select one of the following options. If you submitted your PCP last year and have an updated website, please include the website below*)

- was submitted in the Year 5 Annual Report
- is attached to the email submission
- can be found at the following publicly available website:

<https://www.watertown-ma.gov/793/National-Pollutant-Discharge-Elimination>

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

The City is working to develop an updated list of structural control measures inspected and maintained during Permit Year 6 and will report on this next year. The City is also working to update their city-wide baseline phosphorus load due to development occurring since 2005. This information will be reflected in the PCP in Permit Year 7. The City continued their intensive catch basin cleaning efforts in Permit Year 6 to ensure no catch basin was more than 50% full. The City is planning to enhance their street sweeping and leaf litter collection programs where feasible to promote additional phosphorus reduction through implementation of non-structural controls in Permit Year 7.

NON-TRADITIONAL AND TRANSPORTATION MS4s ONLY- municipalities please skip this section:

Describe the planned phosphorus reduction activities on site and coordination progress with the applicable municipality:

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

- Yes
 No

If yes, describe below, including any relevant impairments or TMDLs:

Additional interconnections were identified based on review of record drawings and field investigations:

Outfall 31, interconnections to Watertown from Newton at 170 Watertown Street and at California Street at the City Line

Outfall 38, interconnections to Watertown from Newton at Boyd Street and at Galen Street at City Line

Outfall 99, interconnection to Watertown from Waltham at Webster Street at City Line

Outfall 1, interconnection to Watertown from Waltham at Waltham Street at City Line

Outfall 109, interconnection to Watertown from Waltham at Belmont Street and City Line

These changes do not alter the overall watershed area include under the Charles River TMDLs.

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education

Number of educational messages completed **during this reporting period:**

Below, report on the educational messages completed **during this reporting period**. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

BMP: Tax Bill Newsletter

Message Description and Distribution Method:

Provide educational messaging in the quarterly tax bill newsletter/insert at least once per year.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Spring 2024: Reminder to keep your property clean by removing pet waste and keeping your trash stored in closed tote barrels.

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Web Page

Message Description and Distribution Method:

During Permit Year 6, the City provided stormwater educational information on the Town's website addressing lawns/grounds maintenance, use of salts/de-icing materials, permit requirements and other relevant practices: <https://www.watertown-ma.gov/988/Education-Materials>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

By posting the informational to the City's website, Watertown ensured that it would be accessible to as many

residents as possible.

Message Date(s): Permit Year 6

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Newspaper Articles/Press Releases

Message Description and Distribution Method:

Provide information to residents using press releases and newspapers.

The City issued a press release announcing 2024 Waste Reduction, Recycling, and Re-use Update from the Watertown Department of Public Works:
<https://content.civicplus.com/api/assets/708555bc-e5ef-4412-84fe-d8798fa1e2ac>

The press release was adapted in a newspaper article published by Watertown News:
<https://www.watertownmanews.com/2024/02/19/dpw-update-on-waste-reduction-recycling-re-use/>

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):
The site receives about 4,000 user views per week

Message Date(s): February 1, 2024

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Special Events/Festivals/Fairs

Message Description and Distribution Method:

Continue participation in the annual Faire on the Square, including staffing a table to educate residents on the City's stormwater system.

Targeted Audience: Residents

Responsible Department/Parties: DPW, SAC

Measurable Goal(s):

Continue to staff table annually and track the number of residents reached.

Message Date(s): September 23, 2023

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: School Curricula/Programs

Message Description and Distribution Method:

Continue to participate in the 7th grade "Building Cities of the Future" project at local middle school. Staff and volunteers perform a stormwater walk through the City and discuss stormwater sources, sources of pollution, and best management practices.

Targeted Audience: Residents

Responsible Department/Parties: SAC

Measurable Goal(s):

Track number of students reached

Message Date(s): Permit Year 6

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Social Media

Message Description and Distribution Method:

Post educational messages to the City and DPW social media outlets (Facebook, Twitter, Instagram).

Examples include:

- Proper use of fertilizer
- Yard waste management
- Catch basin cleaning reduces sand and nutrients in the drainage system
- Low Impact Development

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

Was this opportunity different than what was proposed in your NOI? Yes No

Describe any other public involvement or participation opportunities conducted **during this reporting period:**

The SAC holds regular meetings every third Thursday of the month; the meetings are open to the public and are posted in accordance with City policies. The SAC met five times during Permit Year 6. The SAC also has a web page available at: <https://www.watertown-ma.gov/403/Stormwater-Advisory-Committee>

The DPW supports volunteers in holding community clean up events along the Charles River in the spring and tree planting throughout the city for Arbor Day. There were 401 new trees planted during FY24 across the city. 2 Specific plantings were performed as part of arbor day festivities.

The Health Department holds two (2) household hazardous waste removal days per year to dispose of oil-based paints, pesticides, cleaning solvents, cathode ray tubes, tires and mercury containing materials. The Recycling Facility off of Pleasant Street is in continuous operation year-round.

The DPW makes rain barrels available to those residents who choose to participate in the program. Rain barrels are available for purchase at the DPW and their availability is posted on the City's website.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

- This SSO section is NOT applicable because we DO NOT have sanitary sewer

*Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period**.*

Number of SSOs identified:

Number of SSOs removed:

MS4 System Mapping

Percent of Phase II map complete:

Optional: Provide additional status information regarding your map:

System mapping was completed during the previous permit term and includes outfalls, catch basins, drainage structures and piping. The system map is a living document that is updated in conjunction with the City's IDDE program. When inconsistencies between the system map and field investigations are identified, the system map is updated as-needed.

The City continues mapping municipally-owned and private BMPs. As applicable, data exported from the BATT tool is included in the City' Drainage GIS to track phosphorus removal.

Screening of Outfalls/Interconnections

If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.

- No outfalls were inspected
- The above referenced outfall screening data is attached to the email submission

- The above referenced outfall screening data can be found at the following publicly available website:

<https://portal.laserfiche.com/Portal/Browse.aspx?id=16122&repo=r-5ece5628>

*Below, report on the number of outfalls/interconnections screened **during this reporting period**.*

Number of outfalls screened:

*Below, report on the percent of outfalls/interconnections screened **to date**.*

Percent of outfalls screened:

Optional: Provide additional information regarding your outfall/interconnection screening:

The City of Watertown has had a comprehensive IDDE plan in place in response to an EPA Administrative Order issued in 2005.

Under the plan, the City performs quarterly outfall sampling, alternating between periods of wet and dry weather for each outfall so long as historical data shows exceedences for fecal coliform, E.coli, surfactants, or ammonia. All outfalls must be sampled a minimum of once per year.

All 28 municipal outfalls, plus 10 non-municipal outfalls, and 6 interconnections are sampled quarterly. The number of outfalls screened, listed above, does not include non-municipal outfalls.

Catchment Investigations

If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.

- No catchment investigations were conducted
- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following publicly available website:

<https://portal.laserfiche.com/Portal/Browse.aspx?id=16122&repo=r-5ece5628>

*Below, report on the number of catchment investigations completed **during this reporting period**.*

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated **to date**.*

Percent of total catchments investigated:

Optional: Provide any additional information for clarity regarding the catchment investigations below:

Investigations continued in outfalls 8, 18, 31, 38, and 99 during the permit year.

Watertown has been investigating its catchments since 2006 using the top-down approach. Percent of catchments investigated are reported above based on the percent of system-wide key junction manholes inspected during the reporting period and to-date (June 2006 to present).

IDDE Progress

If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.

- No illicit discharges were found
- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following publicly available website:

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed **during this reporting period.***

Number of illicit discharges identified:

Number of illicit discharges removed:

Estimated volume of sewage removed: gallons/day

*Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed **since the effective date of the permit (July 1, 2018).***

Total number of illicit discharges identified:

Total number of illicit discharges removed:

Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

Total numbers are reported since June 2006. The City continues to work on identifying sources of illicit discharge, so they may be removed, as reported in the City's IDDE quarterly reports.

Employee Training

Describe the frequency and type of employee training conducted **during this reporting period:**

IDDE training was provided to municipal staff on June 14, 2024. There were 67 attendees.

MCM4: Construction Site Stormwater Runoff Control

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period.***

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

During Permit Year 6, fifteen (15) site plan reviews were completed, of which there were six (6) approvals; two hundred fifty-two (252) inspections were completed; and zero (0) formal enforcement actions were taken but four (4) written warnings were issued.

MCM5: Post-Construction Stormwater Management in New Development and Redevelopment

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3):

Website of ordinance or regulatory mechanism:

As-built Drawings

Below, report on the number of as-built drawings received during this reporting period.

Number of as-built drawings received:

Optional: Enter any additional information relevant to the submission of as-built drawings:

The City's current Stormwater Management and Erosion Control Rules and Regulations require an as-built plan within one-year following completion of the work. Also required is a long-term Operations and Maintenance Plan. Fourteen (14) of the as-built drawings received were related to stormwater permits.

Street Design and Parking Lots Report

Below, describe any changes made or planned to be made to local regulations and guidelines based on the report completed in Year 4:

As part of the City's Phosphorus Control Plan Legal Analysis, the City's Stormwater Management and Erosion and Control Ordinance, Stormwater Management and Erosion and Sediment Control Rules and Regulations, Curb and Sidewalk Ordinance, and Zoning Ordinance (sections related to Site Plan Review and Subdivisions) were reviewed. Part of the review focused on impervious area management, parking areas and sidewalks, as well as streets and driveways.

As a result of the review, the City's Stormwater Management and Erosion Control Rules and Regulations were modified to require that appropriate measures to reduce stormwater runoff have been provided through

better design practices, such as removing extraneous parking, reconfiguring required parking, minimizing the use of impervious materials, and providing enhanced vegetation.

The City's Complete Streets Policy, which applies to "all transportation infrastructure and street design and construction projects requiring funding or approval from the City of Watertown, as well as approved private developments" also requires that projects "include elements such as street trees, street furniture, rain gardens, and other green infrastructure."

Green Infrastructure Report

Below, describe progress towards making green infrastructure practices allowable based on the report completed in Year 4:

As part of the City's Phosphorus Control Plan Legal Analysis, the City's Stormwater Management and Erosion and Control Ordinance, Stormwater Management and Erosion and Sediment Control Rules and Regulations, Curb and Sidewalk Ordinance, and Zoning Ordinance (sections related to Site Plan Review and Subdivisions) were reviewed. In general, green roofs, infiltration practices, and water harvesting devices are allowable and encouraged when appropriate site conditions exist.

A number of recommendations were made to strengthen language with regards to implementation of green infrastructure, low impact development and BMPs. The recommendations were prioritized into low, medium, and high priority. No high priority recommendations were made.

The City's Stormwater Management and Erosion Control Rules and Regulations were modified to clarify that:

- rainwater storage/harvesting for non-potable use is an allowable stormwater management method;
- low impact development techniques shall be used for runoff reduction, including (but not limited to): porous pavement, green roofs, rain gardens, bioretention areas and rainwater harvesting and reuse;
- low impact strategies shall be implemented for water quality control, including (but not limited to): soil decompaction and amendments, grading to direct runoff towards pervious surfaces, and minimizing impervious surfaces.
- measures shall be taken to disconnect roof runoff and paved areas from direct discharge to drainage systems; and
- the use of retention or biofiltration is the preferred method of water quality treatment

Retrofit Properties Inventory

Below, list remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (must maintain a minimum of 5 sites in inventory until less than 5 sites remain):

1. Install tree trenches on Francis Street.
2. Install tree trenches on Dexter Ave. between #191 Dexter Ave. and Cypress Street
3. Install a bioretention basin on Templeton Parkway at Salisbury Road
4. Install green infrastructure on Mount Auburn Street as part of road reconstruction
5. Green infrastructure improvements through MVP grant program at Ralph Piteri Terrace
6. SIS on Copeland Street

In 2017, the City prepared a Green Infrastructure Planning Report, with funding from EPA/MassDEP through the 604(b) funding program. The report identified 22 potential projects on City-owned properties to mitigate impervious areas. The report is available at:

<http://www.watertowndpw.org/163/Green-Infrastructure-Grants>

Below, list all properties that have been modified or retrofitted with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.d of the permit and the type of BMP(s) implemented. Non-MS4 owned properties that have been modified or retrofitted with BMPs to mitigate impervious area may also be listed, but must be indicated as non-MS4.

Arsenal Park Ph B SIS (Stormtrap ST-2s)
 Highland Ave TT-1 Cemetery Entrance (Tree Trench)
 Highland Ave TT-2 - 58 Hershorn (Tree Trench)
 Highland Ave TT-3 - 59 Hershorn (Tree Trench)
 Highland Ave TT-4 - 74 Olcott St (Tree Trench)
 Highland Ave TT-5 - 78 Highland (Tree Trench)
 Highland Ave TT-6 - 65 Gilbert (Tree Trench)
 Highland Ave TT-7 - 55 Highland (Tree Trench)
 Highland Ave TT-8 - 60 Highland (Tree Trench)
 Highland Ave TT-9 - 102 Lexington (Tree Trench)
 Install infiltration trenches in the Cottage Street neighborhood
 Install green infrastructure on Morse Street as part of road reconstruction
 Install media box filters at the DPW

MCM6: Good Housekeeping

Catch Basin Cleaning

*Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins **during this reporting period**.*

Number of catch basins inspected:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins:

Below, report on the total number of catch basins in the MS4 system.

Total number of catch basins:

If applicable:

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

During Permit Year 6, the City continued collecting catch basin cleaning information using GIS.

Information including depth of sediment, depth to pipe, and depth to bottom of structure were also collected. The City has a Catch Basin Cleaning Optimization Plan in place, and updates this plan annually as new information is collected. Approximately 650 catch basins were found to have sumps greater than 50% full, and

supplemental cleanings were conducted for these basins in the Fall of 2023.

Street Sweeping

Report on street sweeping completed **during this reporting period** using one of the three metrics below.

- Number of miles cleaned:
- Volume of material removed: [Select Units]
- Weight of material removed: [Select Units]

Stormwater Pollution Prevention Plan (SWPPP)

Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.

Number of site inspections completed:

Describe any corrective actions taken at a facility with a SWPPP:

Five (5) site inspections each were completed during the reporting period at the DPW facility, the Ridgelawn Cemetery, the Recycling Center, Walker Pond, and the Howard Street Laydown Area for a total of twenty (20) inspections. Corrective actions were taken as needed based on the quarterly inspections. Example actions include: adding more protective barriers to the yard waste disposal area at the Recycling Facility, adding protective barriers that encase stockpiles at Walker Pond and the Ridgelawn Cemetery, replacing and stabilizing sediment at the Howard Street Lawdown Area, and BMP maintenance at each site.

Additional Information

Monitoring or Study Results

Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following publicly available website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

Additional Information

Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above.

Year 7

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 7 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

- Complete investigations of catchments associated with Problem Outfalls
- Complete investigations of catchments where any information gathered on the outfall/interconnection identifies sewer input

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls

- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 7 below:

The City was awarded an MVP Action Grant in Summer of 2024. The MVP project focuses on green infrastructure improvements and water quality initiatives within the Charles River watershed. The project will be completed over two years, with 100% design plans being completed in Permit Year 7 and construction being completed in Permit Year 8.

Part V: Certification of Small MS4 Annual Report 2024

40 CFR 144.32(d) Certification

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

Name:	<input type="text" value="Tyler Glode"/>	Title:	<input type="text" value="City Engineer"/>
Signature:	<input type="text" value="Tyler R. Glode"/> <i>[Signatory may be a duly authorized representative]</i>	Date:	<input type="text" value="9/30/24"/>