Stormwater Management Program (SWMP)

Town of Webster

23 Cudworth Road MA 01570

EPA NPDES Permit Number MAR041170

Updated October 2025

This Stormwater Management Plan is based on the EPA's Template and is designed to be updated annually based on the progress of the Town's Stormwater Management Program. Tighe & Bond has added language and information and provided corrected deadlines for requirements where EPA's Template was in error. Page numbers have not been noted in the Table of Contents below because they are anticipated to change annually.

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TMDLs and Water Quality Limited Waters

Bacteria/Pathogens Impairment - Sucker Brook (MA42-15), French River (MA42-05 and MA42-06)

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Certification

Authorized Representative (Optional): All reports, including SWPPPs, inspection reports, annual reports, monitoring reports, reports on training and other information required by this permit must be signed by a person described in Appendix B, Subsection 11.A or by a duly authorized representative of that person in accordance with Appendix B, Subsection 11.B. If there is an authorized representative to sign MS4 reports, there must be a signed and dated written authorization.
The authorization letter is:

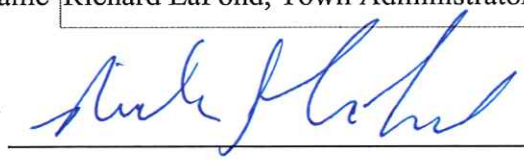
☒ Attached to this document (document name listed below)

Delegation of Authority attached in Appendix A.

☐ Publicly available at the website below

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Printed Name: Richard LaFond, Town Administrator

Signature: 

Date: 10/24/2022

Click Here for Revisions

Background

Stormwater Regulation

The Stormwater Phase II Final Rule was promulgated in 1999 and was the next step after the 1987 Phase I Rule in EPA's effort to preserve, protect, and improve the Nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas and operators of small construction sites, through the use of NPDES permits, to implement programs and practices to control polluted stormwater runoff. Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Under the Phase II rule all MS4s with stormwater discharges from Census designated Urbanized Area are required to seek NPDES permit coverage for those stormwater discharges.

Permit Program Background

On May 1, 2003, EPA Region 1 issued its Final General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 small MS4 permit) consistent with the Phase II rule. The 2003 small MS4 permit covered "traditional" (i.e., cities and towns) and "non-traditional" (i.e., Federal and state agencies) MS4 Operators located in the states of Massachusetts and New Hampshire. This permit expired on May 1, 2008 but remained in effect until operators were authorized under the 2016 MS4 general permit, which became effective on July 1, 2018.

Stormwater Management Program (SWMP)

The SWMP describes and details the activities and measures that will be implemented to meet the terms and conditions of the permit. The SWMP accurately describes the permittees plans and activities. The document should be updated and/or modified during the permit term as the permittee's activities are modified, changed or updated to meet permit conditions during the permit term. The main elements of the stormwater management program are (1) a public education program in order to affect public behavior causing stormwater pollution, (2) an opportunity for the public to participate and provide comments on the stormwater program (3) a program to effectively find and eliminate illicit discharges within the MS4 (4) a program to effectively control construction site stormwater discharges to the MS4 (5) a program to ensure that stormwater from development projects entering the MS4 is adequately controlled by the construction of stormwater controls, and (6) a good housekeeping program to ensure that stormwater pollution sources on municipal properties and from municipal operations are minimized.

Town Specific MS4 Background (optional)

Attached in Appendix B.

Small MS4 Authorization

The NOI was submitted on Sep 28, 2018

The NOI can be found at the following (document name or web address):

https://www3.epa.gov/region1/npdes/stormwater/ma/tms4noi/webster.pdf AND Attached in Appendix C.

Authorization to Discharge was granted on Apr 5, 2019

The Authorization Letter can be found (document name or web address):

https://www3.epa.gov/region1/npdes/stormwater/ma/tms4noi/webster-auth.pdf AND Attached in Appendix C.

Stormwater Management Program Team

SWMP Team Coordinator

Name	Kenneth Pizzetti	Title	Highway Superintendent
Department	Highway Department		
Phone Number	508-949-3873	Email	KPizzetti@webster-ma.gov
Responsibilities	Manages the Town of Webster's Stormwater Management Program and compliance with the MS4 Permit. Oversees Highway Department Stormwater Operations, including outfall screening, IDDE employee training, and the good housekeeping program.		

SWMP Team

Name	Ann Morgan	Title	Director of Planning & Economic Devel
Department	Planning & Economic Development		
Phone Number	508-949-3800 ext. 1002	Email	AMorgan@webster-ma.gov
Responsibilities	Oversees public education and outreach for the Town of Webster's Stormwater Management Program, and assists in developing construction and post-construction regulations and procedures.		

Name	Richard LaFond	Title	Town Administrator
Department	Town Administrator		
Phone Number	508-949-3800 ext. 4000	Email	rlafond@webster-ma.gov
Responsibilities	Annually provides the public with an opportunity to review the Stormwater Management Plan, provides program oversight, and works with the Stormwater Team to develop annual budgets.		

Name	Chuck Eaton	Title	Town Engineer
Department	Consulting Engineer		
Phone Number	860-214-2294	Email	ceaton@chacompanies.com
Responsibilities	Assists in developing construction and post-construction regulations and procedures; tracks permit applications and site inspections.		

Name	Carol Cyr	Title	Director of Community Development
Department	Community Development/Webster Redevelopment Authority		
Phone Number	508-949-3800 ext 4004	Email	CCyr@webster-ma.gov
Responsibilities	Will oversee the development of an inventory of Town-owned properties and ranking for retrofit potential. Responsible for keeping a running list of at least five retrofit sites from Permit Year 5 onwards.		

Name	Sebastian J. Mroczka	Title	Building Commissioner
Department	Building Department		
Phone Number	508-949-3800 ext. 4005	Email	SMroczka@webster-ma.gov
Responsibilities	Assists the Planning Department in developing construction and post-construction regulations and procedures.		

Name	Joey Wigglesworth	Title	Conservation Agent
Department	Conservation Commission		
Phone Number	508-949-3800 ext. 4008	Email	JWigglesworth@webster-ma.gov
Responsibilities	Assists the Planning and Highway Departments in developing construction regulations and procedures.		

Add SWMP Member

Receiving Waters

The following table lists all receiving waters, impairments and number of outfalls discharging to each waterbody segment.

OR

The information can be found in the following document or at the following web address:

Table of Receiving Waters included in NOI and Attached in Appendix C.

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
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Click here to lengthen table

Eligibility: Endangered Species and Historic Properties

*Reminder: The proper consultations and updates to the SWMP must be conducted for construction projects related to your permit compliance where Construction General Permit (CGP) coverage, which requires its own endangered species and history preservation determination, is NOT being obtained.

Attachments:

- ☒ The results of Appendix C U.S. Fish and Wildlife Service endangered species screening determination
- ☒ The results of the Appendix D historic property screening investigations
- ☐ If applicable, any documents from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other Tribal representative to mitigate effects

These attachments are required within one year of the permit effective date and are:

- ☒ Attached to this document (document names listed below)

  Endangered Species Act Eligibility Certification attached in Appendix D and National Historic Preservation Act Certification attached in Appendix E.

- ☐ Publicly available at the website listed below

Under what criterion did permittee determine eligibility for ESA?

☐ Criterion A ☐ Criterion B ☒ Criterion C

Under what criterion did permittee determine eligibility for Historic Properties?

☒ Criterion A ☐ Criterion B ☐ Criterion C

Below add any additional measures for structural controls that you're required to do through consultation with U.S. Fish and Wildlife Service (if applicable):

Not applicable.

Below add any additional measures taken to avoid or minimize adverse impacts on places listed, or eligible for listing, on the NRHP, including any conditions imposed by the SHPO or THPO (if applicable):

Not applicable.

MCM 1
Public Education and Outreach
Permit Part 2.3.2

Objective: The permittee shall implement an education program that includes educational goals based on stormwater issues of significance within the MS4 area. The ultimate objective of a public education program is to increase knowledge and change behavior of the public so that the pollutants in stormwater are reduced.

Examples and Templates:
EPA's Stormwater Education Toolbox
MassDEP's Stormwater Outreach Materials

Other templates relevant to MCM 1 can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#peo

BMP: Multi-media Public Education and Outreach

BMP Number (Optional) **1A**

Document Name and/or Web Address: To be included in Appendix I when complete.

Description:

Education and outreach on stormwater management using multi-media methods, including web and printed materials. Distribute seasonal messages to residents related to impaired waters in the spring, summer and fall. Annual spring messages will encourage proper disposal of grass clippings and the use of slow release fertilizers. Annual summer messages will encourage proper pet waste management, noting Chapter 313 of the Town of Webster Bylaws. Annual fall messages will encourage proper disposal of leaf litter. The Town will also provide information to owners of septic systems about proper maintenance in any catchment that discharges to a waterbody impaired for bacteria or pathogens (i.e., French River and Sucker Brook). This BMP will be coordinated with requirements for TMDLs and Water Quality Limited Waters.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

Distribute a minimum of two educational messages to residents spaced at least one year apart. Supplement this message with three educational messages per year in the spring, summer and fall as outlined in Appendix F of the General Permit. The Town may also wish to measure results in more specific ways like the percent of residents reached or changes in behaviors impacting stormwater management.

Message Date(s): 2018 (PY1), 2019 (PY2), 2020 (PY3), 2021(PY4), 2022 (PY5), 2023 (PY6), 2024 (PY7)

BMP: Multi-media Public Education and Outreach

BMP Number (Optional) **1B**

Document Name and/or Web Address: To be included in Appendix I when complete.

Description:

Education and outreach on stormwater management using multi-media methods, including web and printed materials. Distribute seasonal messages to businesses, institutions and commercial facilities related to impaired waters in the spring, summer and fall. Annual spring messages will encourage proper disposal of grass clippings and the use of slow release fertilizers. Annual summer messages will encourage proper pet waste management, noting Chapter 313 of the Town of Webster Bylaws. Annual fall messages will encourage proper disposal of leaf litter. The Town will also provide information to owners of septic systems about proper maintenance in any catchment that discharges to a waterbody impaired for bacteria or pathogens (i.e. French River and Sucker Brook). This BMP will be coordinated with requirements for TMDLs and Water Quality Limited Waters.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

Distribute a minimum of two educational messages to businesses, institutions and commercial facilities spaced at least one year apart. Supplement this message with three educational messages per year in the spring, summer and fall as outlined in Appendix F of the General Permit. The Town may also wish to measure results in more specific ways like the percent of businesses, institutions and commercial facilities reached or changes in behaviors impacting stormwater management.

Message Date(s): 2018 (PY1), 2019 (PY2), 2020 (PY3), 2021(PY4), 2022 (PY5), 2023 (PY6), 2024 (PY7)

BMP: Multi-media Public Education and Outreach

BMP Number (Optional) **1C**

Document Name and/or Web Address: To be included in Appendix I when complete.

Description:

Education and outreach to developers on stormwater management using multi-media methods, including web and printed materials.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

Distribute a minimum of two (2) educational messages to developers spaced at least one year apart. The Town may also wish to measure results in more specific ways like the percent of developers reached or changes in behaviors impacting stormwater management.

Message Date(s): 2018 (PY1), 2020 (PY3), 2023 (PY6), 2024 (PY7)

BMP: Multi-media Public Education and Outreach

BMP Number (Optional) **1D**

Document Name and/or Web Address: To be included in Appendix I when complete.

Description:

Education and outreach to industrial facilities on stormwater management using multi-media methods, including web and printed materials.

Targeted Audience: Industrial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

Distribute a minimum of two (2) educational messages to industrial facilities spaced at least one year apart.

The Town may also wish to measure results in more specific ways like the percent of industrial facilities reached or changes in behaviors impacting stormwater management.

Message Date(s): 2019 (PY2), 2021 (PY4), 2023 (PY6), 2024 (PY7)

BMP: N/A

BMP Number (Optional) _____

Document Name and/or Web Address:

Description:

N/A

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP: N/A

BMP Number (Optional) _____

Document Name and/or Web Address:

Description:

N/A

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP: N/A

BMP Number (Optional)

Document Name and/or Web Address:

Description:

N/A

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP: N/A

BMP Number (Optional)

Document Name and/or Web Address:

Description:

N/A

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Add BMP

MCM 2
Public Involvement and Participation
Permit Part 2.3.3

Objective: The permittee shall provide opportunities to engage the public to participate in the review and implementation of the permittee's SWMP.

BMP: Public Review of Stormwater Management Program

BMP Number (Optional) **2A**

Location of Plan and/or Web Address: Located at Highway Department and on the Town's website

Responsible Department/Parties: Town Administrator

Measurable Goal(s):

Annually provide the public with an opportunity to participate in the review and implementation of the SWMP.

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) **2B**

Description:

Provide opportunities for public involvement and participation in Webster's stormwater program. Specific activities may include but are not limited to Hazardous Waste Collection Days, watershed cleanups in partnership with the Webster Lake Association and the French River Connection, and the Annual Earth Day cleanup.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Ongoing compliance. Reporting of events and activities organized for public participation in Annual Reports.

BMP: Public Participation

BMP Number (Optional) **2C**

Document Name and/or Web Address: N/A

Description:

Organize meetings of Interdepartmental Stormwater Working Group, consisting of representatives from the Highway Department, Planning and Economic Development, Conservation Commission and the Town Administrator's Office.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Meetings and communication between the Interdepartmental Stormwater Working Group as needed.

Add BMP

MCM 3
Illicit Discharge Detection and Elimination (IDDE) Program

Permit Part 2.3.4

Objective: The permittee shall implement an IDDE program to systematically find and eliminate illicit sources of non-stormwater discharges to its municipal separate storm sewer system and implement procedures to prevent such discharges.

Examples and Templates:
IDDE Program Template and SOPs

Other templates relevant to IDDE can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#idde

BMP: IDDE Legal Authority

BMP Number (Optional) **3A** **Completed** (by May 1, 2008) ☒

Ordinances Link or Reference: Chapter 570 Stormwater Management, Article II Non-Stormwater Discharge Bylaw (https://ecode360.com/28392732)

Department Responsible for Enforcement: Department of Public Works

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BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) **3B** **Completed** (by year 1) ☒

Document Name and/or Web Address: SSO Inventory included in Appendix F.

Description:

Annually track and report the following SSO information: the location; a clear statement of whether the discharge entered a surface water directly or entered the MS4; date(s) and time(s) of each known SSO occurrence; estimated volume(s) of the occurrence; description of the occurrence indicating known or suspected cause(s); mitigation and corrective measures completed with dates implemented; and mitigation and corrective measures planned with implementation schedules.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Develop SSO inventory by June 30, 2019. Track number of SSOs identified and removed annually and update in Annual Reports.

SSO Reporting:

In the event of an overflow or bypass, a notification must be reported within 24 hours by phone to MassDEP, EPA, and other relevant parties. Follow up the verbal notification with a written report following MassDEP's Sanitary Sewer Overflow (SSO)/Bypass notification form within 5 calendar days of the time you become aware of the overflow, bypass, or backup.

The MassDEP contacts are:	The EPA contacts are:
Northeast Region (978) 694-3215 205B Lowell Street Wilmington, MA 01887 Central Region (508) 792-7650 8 New Bond Street Worcester, MA 01606 Southeast Region (508) 946-2750 20 Riverside Drive Lakeville, MA 02347 Western Region (413) 784-1100 436 Dwight Street Springfield, MA 01103 24-hour Emergency Line 1-888-304-1133	EPA New England (617) 918-1510 5 Post Office Square Boston, MA 02109

BMP: Map of Storm Sewer System

BMP Number (Optional) **3C**

Phase I Completed (by year 2) ☒ **Phase II Completed** (by year 10) ☐

Document Location and/or Web Address: https://www3.epa.gov/region1/npdes/stormwater/ma/tms4noi/webster.pdf

Description:

Create a map of the storm sewer system and update during IDDE program implementation.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

By June 30, 2020, complete Phase I mapping: update map and include 100% of outfalls and receiving waters; open channel conveyances; interconnections with other MS4s and other storm sewer systems, municipally-owned stormwater treatment structures; waterbodies identified by name and indication of all use impairments; and initial catchment delineations. By June 30, 2028, complete Phase II mapping: map 100% of outfall spatial locations; pipes, manholes; catch basins; refined catchment delineations; and municipal sanitary sewer system.

BMP: IDDE Program

BMP Number (Optional) **3D/3E1-3**

Written Document Completed (by year 1) ☒

Document Name and/or Web Address: Illicit Discharge Detection and Elimination Program

Description:

Create written IDDE program. Complete outfall/interconnection inventory and initial ranking, dry weather outfall screening and sampling, and catchment investigations.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

By June 30, 2019, develop written IDDE program and complete outfall/interconnection and initial ranking. Annually update the written IDDE program, and update the inventory and ranking as necessary. By June 30, 2021, conduct 100% of outfall screening on High and Low Priority Outfalls. By June 30, 2025, complete catchment investigations for 100% of the Problem Outfalls. By June 30, 2028, complete 100% of all catchment investigations. Track number of illicit discharges identified and volume removed. This BMP will be coordinated with requirements for TMDLs and Water Quality Limited Waters.

The outfall/interconnection inventory and initial ranking and the dry weather outfall and interconnection screening and sampling results can be found:

The outfall/interconnection inventory and initial ranking can be found in the written Illicit Discharge Detection and Elimination Program located at the Highway Department. The dry weather outfall screening and sampling results will be included in the IDDE Program when complete.

BMP: Employee Training

BMP Number (Optional) **3F**

Description:

Train employees on IDDE implementation.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Training occurs annually. Track employees trained, training topics, date/time and materials presented using the training log provided in the IDDE Plan Appendices.

BMP: N/A

BMP Number (Optional) **Completed** ☐

Document Name and/or Web Address:

Description:

N/A

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

MCM 4
Construction Site Stormwater Runoff Control
Permit Part 2.3.5

Objective: The objective of an effective construction stormwater runoff control program is to minimize or eliminate erosion and maintain sediment on site so that it is not transported in stormwater and allowed to discharge to a water of the U.S. through the permittee's MS4.

Examples and Templates:
Examples and templates relevant to MCM 4, including model ordinances and site inspection templates, can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#csrc

BMP: Sediment and Erosion Control Ordinance

BMP Number (Optional) **4A** **Completed** (by May 1, 2008) ☒

Ordinances Link or Reference: Chapter 570 Stormwater Management, Article I Stormwater Management and Erosion Control (https://ecode360.com/28392685)

Department Responsible for Enforcement: Planning Board

BMP: Site Plan Review Procedures

BMP Number (Optional) **4B** **Written procedures completed** (by year 1) ☒

Document Name and/or Web Address: Central Massachusetts Regional Stormwater Coalition SOPs: Standard Operating Procedure No. 5 - Construction Site Inspection

Description:

Develop and implement written procedures for site plan review per Part 2.3.5 of the General Permit.

Responsible Department/Parties: Planning, Conservation Commission, Highway Department

Measurable Goal(s):

Review current procedures and, if necessary, modify by June 30, 2019. These SOPs were finalized and adopted in the 2015 "Municipal Good Housekeeping & Pollution Prevention Program" report in Appendix E.

BMP: Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures

BMP Number (Optional) **4B** **Completed** (by year 1) ☒

Document Name and/or Web Address: Central Massachusetts Regional Stormwater Coalition SOPs: Standard Operating Procedure No. 5 - Construction Site Inspection and No. 6 - Erosion & Sedimentation Control

Description:

Develop and implement written procedures for site inspections and enforcement procedures per Part 2.3.5 of the General Permit.

Responsible Department/Parties: Planning, Conservation Commission, Highway Department

Measurable Goal(s):

Review current procedures and, if necessary, modify by June 30, 2019. These SOPs were finalized and adopted in the 2015 "Municipal Good Housekeeping & Pollution Prevention Program" report in Appendix E.

BMP: N/A

BMP Number (Optional) _____ **Completed** ☐

Document Name and/or Web Address:

Description:

N/A

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

MCM 5
Post Construction Stormwater Management in New Development and Redevelopment

Permit Part 2.3.6

Objective: The objective of an effective post construction stormwater management program is to reduce the discharge of pollutants found in stormwater to the MS4 through the retention or treatment of stormwater after construction on new or redeveloped sites and to ensure proper maintenance of installed stormwater controls.

Examples and Templates:
Examples and templates relevant to MCM 5, including model ordinances and bylaw review templates and guidance can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#pcsm

BMP: Post-Construction Ordinance

BMP Number (Optional) **5A** **Completed** (by year 2) ☐

Town Ordinances Link or Reference: Chapter 570 Stormwater Management, Article I Stormwater Management and Erosion Control (https://ecode360.com/28392685)

Department Responsible for Enforcement: Planning Board

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) **5B** **Completed** (by year 4) ☒

Document Name and/or Web Address:

Description:

By June 30, 2022, develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if change to design standards for streets and parking lots can be modified to support low impact design options.

Responsible Department/Parties: Planning

Measurable Goal(s):

Complete report no later than four (4) years of permit effective date.

BMP: Green Infrastructure Report

BMP Number (Optional) **5C** **Completed** (by year 4) ☒

Document Name and/or Web Address:

Description:

By June 30, 2022, develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist.

Responsible Department/Parties: Planning

Measurable Goal(s):

Complete report no later than four (4) years of permit effective date.

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) **5D** **Completed** (by year 4) ☒

Document Name and/or Web Address:

Description:

By June 30, 2022, conduct detailed inventory of Town-owned properties and rank for retrofit potential. At a minimum, the Town shall consider municipal properties with significant impervious cover that could be modified or retrofitted to reduce the frequency, volume or pollutant loads of stormwater discharges. This BMP will be coordinated with requirements for TMDLs and Water Quality Limited Waters.

Responsible Department/Parties: Office of Community Development

Measurable Goal(s):

Complete report no later than four (4) years of permit effective date, beginning in year 5 keep a running list of at least five (5) retrofit sites.

BMP: N/A

BMP Number (Optional) **Completed** ☐

Document Name and/or Web Address:

Description:

N/A

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

MCM 6
Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Permit Part 2.3.7

Objective: The permittee shall implement an operations and maintenance program for permittee-owned operations that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned operations.

Examples and Templates:
Examples and templates relevant to MCM 6, including SOP templates for catch basin cleaning, street sweeping, vehicle maintenance, parks and open space management, winter deicing, and Stormwater Pollutoin Prevention Plans can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#gh

PERMITTEE OWNED FACILITIES

BMP: Parks and Open Spaces Operations and Maintenance Procedures

BMP Number (Optional) **6A** **Written Document Completed** (by year 2) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

By June 30, 2020, inventory and create O&M procedures for all Town-owned parks and open spaces.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Inventory and written Operations & Maintenance procedures for Town-owned parks and open spaces are complete. Continue to implement Operations and Maintenance Program.

Properties List (Optional)**:**

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) **6A** **Written Document Completed** (by year 2) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

By June 30, 2020, inventory and create O&M procedures for all Town-owned buildings and facilities (including their storm drains).

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Inventory and written Operations & Maintenance procedures for Town-owned buildings and facilities are complete. Continue to implement Operations and Maintenance Program.

Properties List (Optional)**:**

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) **6A** **Written Document Completed** (by year 2) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

By June 30, 2020, inventory and create O&M procedures for all Town-owned vehicles and equipment.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Inventory and written Operations & Maintenance procedures for Town-owned vehicles and equipment are complete. Continue to implement Operations and Maintenance Program.

Properties List (Optional)**:**

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) **6B** **Written Procedure Completed** (by year 2) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

By June 30, 2020, establish and implement a program for repair and rehabilitation of MS4 infrastructure.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Written program for repair and rehabilitation of MS4 infrastructure is complete. Continue to implement Operations and Maintenance Program.

BMP: Catch Basin Cleaning Program

BMP Number (Optional) **6D-1** **Written Procedure Completed** (by year 1) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

By June 30, 2019, implement procedures to optimize catch basin cleaning developed under BMP 6B. This

BMP will be coordinated with requirements for TMDLs and Water Quality Limited Waters.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Track frequency and material quantity of catch basin cleaning. Document plan for optimizing catch basin cleaning in the first Annual Report.

BMP: Street Sweeping Program

BMP Number (Optional) **6D-2** **Written Procedure Completed** (by year 1) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

By June 30, 2019, implement procedures for street and parking lot sweeping developed under BMP 6B. Per the Long Island Nitrogen TMDL, Webster will conduct street and parking lot sweeping twice per year at a minimum, once in the spring and at least once in the fall. For rural streets with no curbs or catch basins, the Town must sweep at least once per year or develop a targeted inspection and sweeping plan for those streets, per Section 2.3.7.a.iii.3 of the permit.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Annually track number of miles cleaned or the volume or mass of material removed. Work with the Board of Selectmen and Town Administrator to increase street sweeping frequency in impaired watersheds and watersheds with a TMDL.

BMP: Winter Road Maintenance Program

BMP Number (Optional) **6D-3** **Written Procedure Completed** (by year 1) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

By June 30, 2019, implement procedures for use and storage of deicing materials developed under BMP 6B.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Evaluate at least one salt/chloride alternative for use in the municipality. Implement program for winter road maintenance throughout permit term.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) **6D-4** **Completed** (by year 1) ☒

Document Name and/or Web Address: Municipal Good Housekeeping Pollution and Prevention Program located at the Highway Department

Description:

Inspect stormwater treatment structures annually by June 30, beginning in Year 1. By June 30, 2020, implement procedures to inspect and maintain Town-owned structural stormwater BMPs.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

Develop an inventory of Town-owned structural BMPs within two years of permit effective date. Annually report on inspection and maintenance conducted.

BMP: SWPPP

BMP Number (Optional) **6C** **Completed** (by year 2) ☒

Document Name and/or Web Address: Highway Department SWPPP located at the Highway Department

Description:

By June 30, 2020, develop and implement a SWPPP and SWPPP BMPs at maintenance garages, transfer stations and other waste-handling facilities.

Responsible Department/Parties: Highway Department

Measurable Goal(s):

A SWPPP has been developed for the Highway Department. Continue to implement SWPPP and SWPPP BMPs.

BMP: N/A

BMP Number (Optional) **Completed** ☐

Document Name and/or Web Address:

Description:

N/A

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2019/webster-ma-ar19.pdf AND in Appendix I.

Year 2 Annual Report

Document Name and/or Web Address:

https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2020/webster-ma-ar20.pdf AND in Appendix I.

Year 3 Annual Report

Document Name and/or Web Address:

https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2021/WEBSTER_MA_AR21.pdf AND in Appendix I.

Year 4 Annual Report

Document Name and/or Web Address:

https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2022/WEBSTER_MA_AR22.pdf AND in Appendix I.

Year 5 Annual Report

Document Name and/or Web Address:

https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2023/Wellesley_MA_AR23.pdf AND in Appendix I.

Year 6 Annual Report

Document Name and/or Web Address:

https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2024/Webster_MA_AR24.pdf AND in Appendix I.

Year 7 Annual Report

Document Name and/or Web Address:

Copy included in Appendix I.

Add a Year

TMDLs and Water Quality Limited Waters

Select the applicable Impairment(s) and/or TMDL(s).

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 and Pathogen ☐ Metals ☒ Nitrogen ☐ Phosphorus

Clear Impairments and TMDLs

Bacteria/Pathogens

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Sucker Brook (MA42-15)		+ -
French River (MA42-06)		+ -

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Town of Webster will implement the IDDE program described in BMPs 3A-3F. Catchments draining to the waterbodies listed above, which are impaired for bacteria or pathogens, have been designated as either Problem Catchments or High Priority in the IDDE program and initial outfall ranking.

Public Education and Outreach

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

Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Town of Webster will supplement the residential public education program described in BMP 1A with an annual message about the proper management of pet waste, including noting Chapter 313 of the Town of Webster Bylaws.

Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Town of Webster will supplement the residential public education program described in BMP 1A by disseminating educational material to dog owners at the time of issuance or renewal of dog licenses. This is an ongoing requirement.

Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Town of Webster will supplement the residential public education program described in BMP 1A by providing information to owners of septic systems about proper maintenance in any catchment that discharges to a waterbody impaired for bacteria or pathogens (i.e., French River and Sucker Brook).

Nitrogen

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
All Receiving Waters in NOI	Long Island Sound Nitrogen TMDL	+ -

Annual Requirements Beginning Year 1

Public Education and Outreach

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

Distribute an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Town of Webster will supplement its residential and commercial/institutional public education programs described in BMPs 1A and 1B with an annual spring message encouraging the proper disposal of grass clippings and the use of slow-release fertilizers.

Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Town of Webster will supplement its residential and commercial/institutional public education programs described in BMPs 1A and 1B with an annual summer message encouraging the proper management of pet waste and noting Chapter 313 of the Town of Webster Bylaws.

Distribute an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Town of Webster will supplement its residential and commercial/institutional public education programs described in BMPs 1A and 1B with an annual fall message encouraging the proper disposal of leaf litter.

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

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Establish requirements for the use of slow release fertilizers on permittee owned property currently using fertilizer, in addition to reducing and managing fertilizer use as provided in part 2.3.7.1

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

BEGIN IN PERMIT YEAR 2 (Note: EPA Template provides incorrect deadline). As part of the Operations & Maintenance procedures for Town-owned parks and open spaces established as part of BMP 6A, the Town of Webster will establish requirements for use of slow release fertilizer on Town-owned property currently using fertilizer and encourage reduction of fertilizer use.

Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

BEGIN IN PERMIT YEAR 2 (Note: EPA Template provides incorrect deadline). As part of the Town's Operations & Maintenance procedures for Town-owned properties established as part of BMP 6A, the Town of Webster will establish a program to properly manage grass cuttings and leaf litter on Town-owned properties. This program will prohibit blowing organic waste onto impervious surfaces.

Increase 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)

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

As part of the Town's Operation & Maintenance procedures for street and parking lot sweeping established as part of BMP 6D-2, the Town of Webster will increase street and parking lot sweeping to a minimum of two occurrences per year, once in the spring and once in the fall. For rural streets with no curbs or catch basins, the Town must sweep at least once per year or develop a targeted inspection and sweeping plan for those streets, per Section 2.3.7.a.iii.3 of the permit.

Nitrogen Reduction Tracking BMP

Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen removal by the BMP consistent with Attachment 1 to Appendix H. .

The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP is found in the following document or website and is updated yearly at a minimum:

This information will be recorded in Appendix I of this document and updated annually.

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

The requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for nitrogen removal

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

The Post-Construction Bylaw, developed under BMP 5A, and any associated regulations shall be modified to require that new development and redevelopment stormwater management BMPs be optimized for nitrogen removal.

Requirements Due by Year 4

Complete a Nitrogen Source Identification Report

The document name (if attached) and/or web address is/are:

Completed in Webster Retrofit Assessment and Nitrogen Source Identification Report, enclosed in Appendix I of this document.

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Completed in Webster Retrofit Assessment and Nitrogen Source Identification Report, enclosed in Appendix I of this document.

Requirements Due by Year 5

Potential Structural BMPs

Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.d.ii or identified in the Nitrogen Source Identification Report that are within the drainage area of the impaired water or its tributaries

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Completed in Webster Retrofit Assessment and Nitrogen Source Identification Report, enclosed in Appendix I of this document.

Complete a listing of planned structural BMPs and a plan and schedule for implementation

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Completed in Webster Retrofit Assessment and Nitrogen Source Identification Report, enclosed in Appendix I of this document.

Appendix A

Delegation of Authority

TOWN OF WEBSTER
OFFICE OF THE TOWN ADMINISTRATOR

350 Main Street
Webster, Massachusetts 01570

Doug Willardson
Town Administrator

(508) 949-3800 Extension 4000
Fax (508) 949-3888

September 10, 2018

Ms. Thelma Murphy
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100 (OEP06-1)
Boston, MA 02109-3912

Re: NPDES MA Small MS4 General Permit
Delegating an "Authorized Representative"

Dear Ms. Murphy:

This letter serves to designate the Town of Webster's **Town Administrator** as an authorized person for signing the Stormwater Management Plan (SWMP), stormwater pollution prevention plans (SWPPPs), inspection reports, annual reports, monitoring reports, reports on training and other information required under the General Permit. This authorization cannot be used for signing a NPDES permit application (e.g., Notice of Intent (NOI)) in accordance with 40 CFR 122.22.

By signing this authorization, I confirm that the Board of Selectmen meets the following requirements to make such a designation as set forth in Appendix B, Subparagraph 11 of the Small MS4 General Permit:

> *For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this subsection, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA).*

"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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,

Andrew Jolda, Chairman
Webster Board of Selectmen

Appendix B

Town Specific MS4 Background

Webster is located in Worcester County, approximately 15 miles southwest of the City of Worcester, and borders the Massachusetts Connecticut state line. There are approximately 2.1 square miles of open water within its 14.5 square mile footprint. According to the 2010 United States Census, Webster is home to approximately 16,765 residents in more than 7,000 households. All but the northeastern corner of the Town is within the urbanized area and therefore regulated by EPA under the MS4 program. The Urbanized Area map prepared by EPA is included at the end of this Appendix.

The majority of the Town of Webster is located within the French River Watershed. Small portions of the Town are within the Quinebaug River Watershed and the Blackstone River Watershed. Essentially the entire Town is within the Long Island Sound Watershed. Protecting the quality of Webster's water resources, including lakes, ponds, rivers and groundwater supplies, is a priority for the Town. Pollutants from stormwater runoff are a contributing factor to the impairment of Webster's waterbodies, including bacterial contamination and high turbidity.

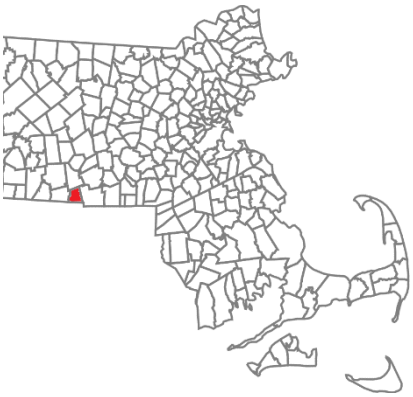


Figure 1 Location of Webster, Massachusetts

The Town of Webster has achieved all of the measurable goals for the BMPs selected in the 2003 Notice of Intent and those added in subsequent years to reflect unplanned stormwater activities by the Town. A list of BMPs completed under the 2003 Small MS4 Permit is included on the next page.

The Town of Webster has taken advantage of low-cost and innovative approaches to provide stormwater education and outreach, primarily to residential audiences. The Town distributes educational pamphlets on stormwater and improving water quality and publishes stormwater information on the Town website, in the local newspaper and on the local cable access channel. The Town provides opportunities for public participation in the Stormwater Management Program through the Hazardous Waste Collection Day, stream cleanup and monitoring, and the Roadside Cleanup Day. The Town has established an Interdepartmental Stormwater Working Group that meets as needed to discuss General Permit Requirements and next steps in the Stormwater Management Program.

The Town has made significant progress in mapping the stormwater system and developing a map of catch basins, drainage manholes, 288 known Town-owned outfalls and known connectivity. The Town adopted the Stormwater Management Bylaw, Chapter 570 of the Town's General Bylaws, in 2012. This bylaw prohibits non-stormwater discharges to the MS4, requires erosion and sediment controls at construction sites that disturb 10,000 square feet (SF) or more or increase imperviousness over 25%, and regulates stormwater runoff from new development and redevelopment projects.

During the construction of the new Webster Police Facility, located adjacent to the French River, the Town installed an improved stormwater drainage system including a rain garden, vegetated swale and subsurface infiltration system.

The Town has developed a written Town-wide Good Housekeeping Program for stormwater pollution prevention including street sweeping, catch basin cleaning, and maintaining a SWPPP for the Town's highway facility.

Summary of 2003 and 2016 MS4 General Permit BMPs

BMPs identified in the 2003 General Permit NOI have evolved over the permit term due to staff changes and Stormwater Program modifications. The intent of the 2003 BMPs are being met under the following proposed 2016 General Permit BMPs (BMPS current as of 2018 Annual Report):

MCM 1: Public Education and Outreach

1.a. Educational Flyers and Pamphlets/Town Website - now under BMP 1 (A-D)

1.b. Newspapers – Press Releases - now under BMP 1 (A-D)

1.c. Local Cable Access Channel - now under BMP 1 (A-D)

1.d. Hazardous Waste Collection Day - now under BMP 2B

1.e. Educational Training Materials - now under BMP 1A

MCM 2: Public Involvement and Participation

2.a. Stormwater Management Committee - now under BMP 2C

2.b. Storm Drain Stenciling - now under BMP 1 (A-D) and 2B

2.c. Educational Outreach Materials - now under BMP 2A

2.d. Stream Cleanup and Monitoring - now under BMP 2B

2.e. Roadside Cleanup Day - now under BMP 2B

MCM 3: Illicit Discharge Detection and Elimination

3.a. Mapping of Stormwater Outfalls - now under BMP 3C

3.b. Identification of Outfalls - now under BMP 3C and 3E2

3.c. Capital Planning/Budget - BMP removed

3.d. Assess Current By-Laws/Amend to Meet Phase II Regulations - now under BMP 3A

3.e. BMP Installation - now under BMP 5D and 6B

3.f. IDDE Program Development - now under BMP 3D

3.g. Inspecting Stormwater System Components - now under BMP 6B and 6D

3.h. Develop Stormwater Management Program Web based GIS system - now under BMP 3C

MCM 4: Construction Site Stormwater Runoff Control

4.a. Site Plan Review - now under BMP 4B

4.b. Building Permit Requirement - now under BMPs 4A and 4B

4.c. Inspection - now under BMP 4B

4.d. Assess Planning Board Regulations/Amend to meet Phase II Regulations - now under BMP 4A

4.e. Erosion and Sedimentation Control Standard Operating Procedure (SOP) - now under BMP 4B

MCM 5: Post Construction Stormwater Management in New Development and Redevelopment

5.a. Eliminating Curbs and Gutters- now under BMP 5A and 6B

5.b. Urban Forestry- now under BMP 5C

5.c. Zoning- now under BMP 5B and 5C

5.d. Assess Planning Board Regulations/Amend to meet Phase II Regulations - now under BMP 5A

5.e. Stormwater Best Management Practices (BMP) Tool Box - now under BMP 6D

MCM 6: Public Education and Outreach

6.a. Parking Lot and Street Cleaning - now under BMP 6D2

6.b. Road Salt/Sand/Mix Application and Storage - now under BMP 6D3

6.c. Drain System Cleaning - now under BMP 6D1 and 6B

6.d. Outfall Cleanup and Monitoring - now under BMP 6B

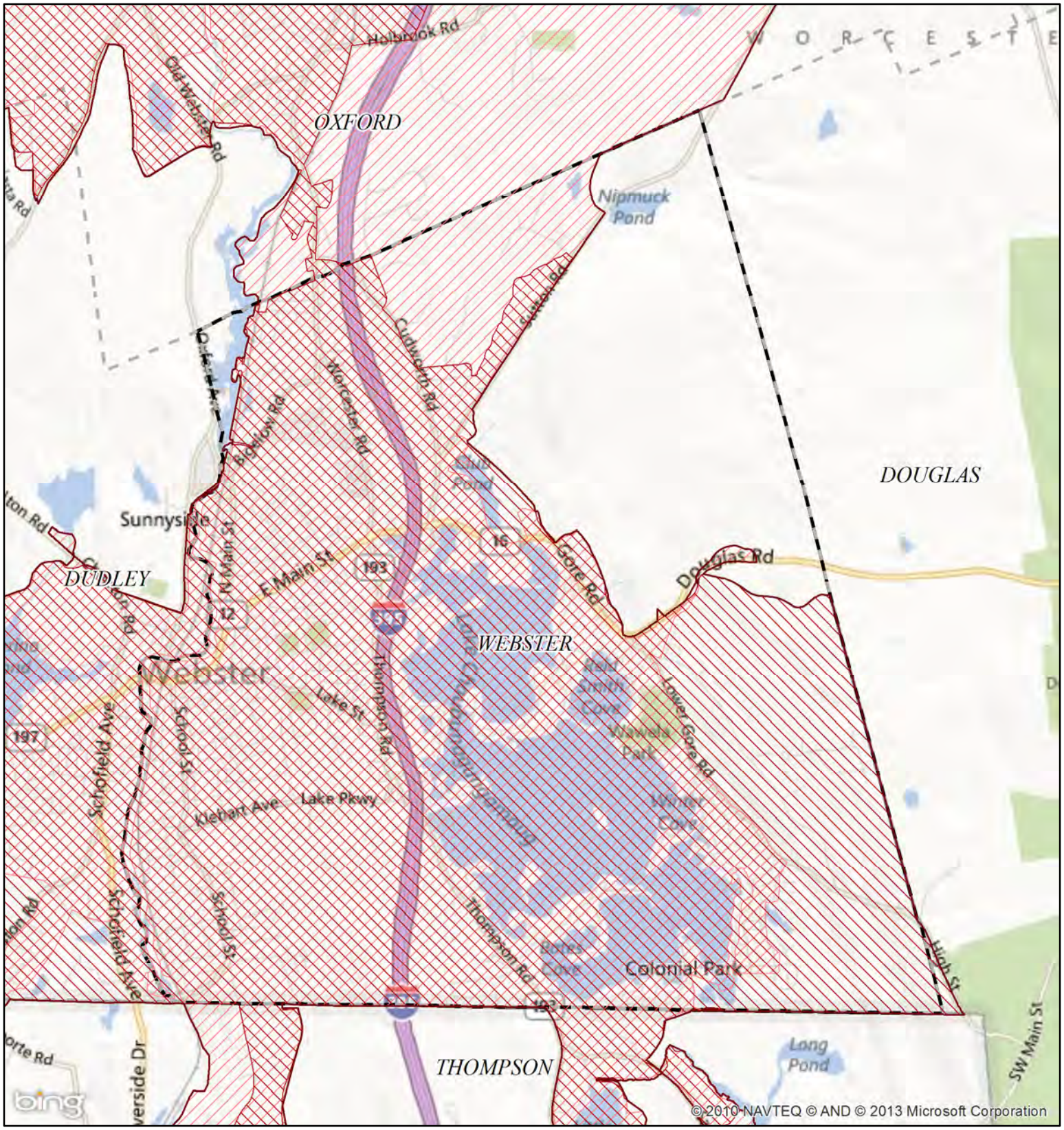
6.e. DPW Employee Education - now under BMP 6 (A-C) and 3F

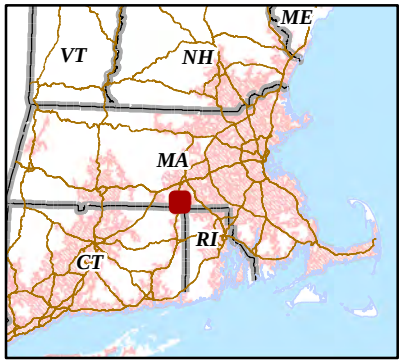
6.f. Municipal Operation and Maintenance Procedures - now under BMP 6A and 6B

6.g. Sump Pump Discharge Policy - now under BMP 3D

6.h. Salt/Sand Benchmarking - now under BMP 6D3

6.i. Municipal SWPPP - now under BMP 6C





NPDES Phase II Stormwater Program
Automatically Designated MS4 Areas
Webster MA

Regulated Area:

UA Based on 2000 Census | UA Based on 2010 Census

0 1 2 3 Kilometers

0 1 2 Miles

Town Population: 16767

Regulated Population: 16483

(Populations estimated from 2010 Census)

Urbanized Areas, Town Boundaries:
US Census (2000, 2010)
Base map © 2013 Microsoft Corporation
and its data suppliers

US EPA Region 1 GIS Center Map #8824, 8/9/2013

Appendix C

Notice of Intent, System Map and
Authorization to Discharge Letter from EPA

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part I: General Conditions

General Information

Name of Municipality or Organization: Town of Webster

State: MA

EPA NPDES Permit Number (if applicable): MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti

Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster

State: MA

Zip Code: 01570

Email: kpizzetti@webster-ma.gov

Phone Number: (508) 949-3862

Fax Number: (508) 949-3873

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed): Once complete, SWMP will be at the Highway Department, 32 Cudworth Road

Eligibility Determination

Endangered Species Act (ESA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☐ A ☐ B ☒ C

National Historic Preservation Act (NHPA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☒ A ☐ B ☐ C

☑ Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

MS4 Infrastructure (if covered under the 2003 permit)

Estimated Percent of Outfall Map Complete? *(Part II, III, IV or V, Subpart B.3.(a.) of 2003 permit)*: 100%

If 100% of 2003 requirements not met, enter an estimated date of completion (MM/DD/YY):

Web address where MS4 map is published:

If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission (see section V for submission options)

See attached maps

Regulatory Authorities (if covered under the 2003 permit)

Illicit Discharge Detection and Elimination (IDDE) Authority Adopted? *(Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)*: Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 10/15/12

Construction/Erosion and Sediment Control (ESC) Authority Adopted? *(Part II,III,IV or V, Subpart B.4.(a.) of 2003 permit)*: Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 10/15/12

Post- Construction Stormwater Management Adopted? *(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)*: Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 10/15/12

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part II: Summary of Receiving Waters

Please list the waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments.

Massachusetts list of impaired waters: *Massachusetts 2014 List of Impaired Waters-* http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf

Check off relevant pollutants for discharges to impaired waterbodies (see above 303(d) lists) without an approved TMDL in accordance with part 2.2.2.a of the permit. List any other pollutants in the last column, if applicable.

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Tributary/Wetland to French River (MA42-04)	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	Mercury in Fish Tissue
Direct Discharge to French River (MA42-05)	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	Debris/Floatables/Trash, Other flow regime alterations, Aquatic Macroinvertebrate Bioassessments, Fecal Coliform
Tributary/Wetland to French River (MA42-05)	7	☐	☐	☐	☐	☐	☐	☐	☐	☐	Debris/Floatables/Trash, Other flow regime alterations, Aquatic Macroinvertebrate Bioassessments, Fecal Coliform
Tributary/Wetland to French River (MA42-06)	3	☐	☐	☐	☐	☐	☐	☒	☐	☐	Debris/Floatables/Trash, Aquatic Macroinvertebrate Bioassessments, Fecal Coliform, Sediment Screening Value (Exceedence), Taste and Odor, Other
Tributary/Wetland to Browns Brook	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Direct Discharge to Sucker Brook (MA42-15)	2	☐	☐	☐	☐	☐	☐	☐	☒	☐	Aquatic Macroinvertebrate Bioassessments
Tributary/Wetland to Sucker Brook (MA42-15)	4	☐	☐	☐	☐	☐	☐	☐	☒	☐	Aquatic Macroinvertebrate Bioassessments
Direct Discharge to Webster Lake (MA42064)	31	☐	☐	☐	☐	☐	☐	☐	☐	☐	Eurasian Water Milfoil, Myriophyllum spicatum, Non-Native Aquatic Plants
Tributary/Wetland to Webster Lake (MA42064)	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	Eurasian Water Milfoil, Myriophyllum spicatum, Non-Native Aquatic Plants
Tributary/Wetland to Club Pond	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Direct Discharge to Freemans Brook	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Tributary/Wetland to Freemans Brook	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Direct Discharge to Unnamed Tributary	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Tributary/Wetland to Mill Brook	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Direct Discharge to Unnamed Isolated Wetland	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
All Other MS4 Outfalls in Regulated Area	195	☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	

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Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMS). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and applicable waste load allocation (WLA), identify any additional BMPs employed to specifically support the achievement of the WLA in the TMDL section at the end of Part III.

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also require a target audience).

MCM 1: Public Education and Outreach

BMP ID	BMP Media/Category	BMP Description	Targeted Audience	Responsible Department/ Parties	Measurable Goal	Beginning Year of BMP Implementation
1A	Multi-media methods (including web content and social media)	Education and outreach on stormwater management topics of significance in Webster (including proper pet waste management, proper use of pesticides and fertilizers). Educational topics will include but are not limited to those in Part 2.3.2.d.i.	Residents	Planning	Distribute a minimum of two (2) educational messages spaced at least a year apart	2018 (PY1)
1B	Multi-media methods (including web content and social media)	Education and outreach on stormwater management topics of significance in Webster (including proper lawn maintenance, parking lot sweeping). Educational topics will include but are not limited to those in Part 2.3.2.d.ii.	Businesses, Institutions, and Commercial Facilities	Planning	Distribute a minimum of two (2) educational messages spaced at least a year apart	2019 (PY2)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

BMP ID	BMP Media/Category	BMP Description	Targeted Audience	Responsible Department/ Parties	Measurable Goal	Beginning Year of BMP Implementation
1C	Multi-media methods (including web content and permit application attachment)	Education and outreach on stormwater management topics of significance in Webster (including proper erosion and sedimentation control, permit requirements). Educational topics will include but are not limited to those in Part 2.3.2.d.iii.	Developers (Construction)	Planning	Distribute a minimum of two (2) educational messages spaced at least a year apart	2018 (PY1)
1D	Multi-media methods (including web content and direct mail)	Education and outreach on stormwater management topics of significance in Webster (including pollution prevention, illicit discharges, information about the Multi-Sector General Permit). Educational topics will include but are not limited to those in Part 2.3.2.d.iv.	Industrial Facilities	Planning	Distribute a minimum of two (2) educational messages spaced at least a year apart	2019 (PY2)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

MCM 2: Public Involvement and Participation

BMP ID	BMP Category	BMP Description	Responsible Department/ Parties	Measurable Goal	Beginning Year of BMP Implementation
2A	Public Review	SWMP review (Plan and reports available on web and public meetings)	Town Administrator	Annually provide the public with an opportunity to participate in the review and implementation of the SWMP	2018 (PY1)
2B	Public Participation	Provide opportunities for public involvement and participation in Webster's stormwater program (including clean up events). Specific activities, schedule, and lead departments are included in the SWMP.	Highway	Ongoing compliance	2018 (PY1)
2C	Public Participation	Inter-departmental Stormwater Working Group	Highway	Stormwater working group will meet and communicate via email as needed	2018 (PY1)

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Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

BMP ID	BMP Category	BMP Description	Responsible Department/ Parties	Measurable Goal	Beginning Year of BMP Implementation
3A	IDDE Ordinance/Bylaw	Complete. Continue to enforce and update if necessary.	Highway	Track illicit discharges identified and removed.	2018 (PY1)
3B	SSO Inventory	Develop SSO inventory in accordance of permit conditions	Highway	Complete within one (1) year of effective date of permit. Track number of SSOs identified and removed annually.	2018 (PY1)
3C	Storm sewer system map	Complete. Update during IDDE program implementation	Highway	Update map within two (2) years of effective date of permit and complete full system map ten (10) years after effective date of permit	2018 (PY1)
3D	Written IDDE program	Complete. Maintain written IDDE program	Highway	Annually update IDDE plan as the plan is implemented	2018 (PY1)
3E-1	Assessment and Priority Ranking of Outfalls & Interconnections	Outfall /Interconnection Inventory and Initial Ranking as part of BMP 3D.	Highway	BMP complete. Update as necessary	2018 (PY1)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

BMP ID	BMP Category	BMP Description	Responsible Department/ Parties	Measurable Goal	Beginning Year of BMP Implementation
3E-2	Assessment and Priority Ranking of Outfalls & Interconnections	Dry Weather Outfall Screening & Sampling in accordance with IDDE Plan and permit conditions. Complete.	Highway	Complete three (3) years after effective date of permit. Track number of illicit discharges identified and volume removed. Summarize screening/sampling results.	2018 (PY1)
3E-3	Assessment and Priority Ranking of Outfalls & Interconnections	Catchment Investigations according to program and permit conditions	Highway	Complete ten (10) years after effective date of permit. Track number and percentage of MS4 catchments evaluated. Track number of illicit discharges identified and volume removed. Summarize screening/sampling results.	2019 (PY2)
3F	Employee Training	Train employees on IDDE implementation	Highway	Train annually. Track employees trained, training topic, date/time, and materials presented.	2018 (PY1)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

MCM 4: Construction Site Stormwater Runoff Control

BMP ID	BMP Category	BMP Description	Responsible Department/ Parties	Measurable Goal	Beginning Year of BMP Implementation
4A	Construction Bylaw and Regulations	Modify local bylaw and/or regulations, if necessary, to contain new MS4 provisions per Part 2.3.5	Planning Board, Conservation Commission, Highway	Review current procedures and modify if necessary within one (1) year of permit effective date	2018 (PY1)
4B	Construction Policy and Procedures	Develop and implement written procedures for site inspections and enforcement procedures per Part 2.3.5	Planning Board, Conservation Commission, Highway	Review current procedures and modify if necessary within one (1) year of permit effective date	2018 (PY1)

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Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID	BMP Category	BMP Description	Responsible Department/ Parties	Measurable Goal	Beginning Year of BMP Implementation
5A	Post-Construction Bylaw and Regulations	Modify local bylaw and regulations to contain new MS4 provisions per Part 2.3.6.a	Planning Board, Building Department	Modify existing bylaw and regulations within two (2) years of permit effective date	2019 (PY2)
5B	Assess street and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	Planning Board	Complete report no later than four (4) years of permit effective date	2020 (PY3)
5C	Assess allowing green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	Planning Board	Complete report no later than four (4) years of permit effective date	2020 (PY3)
5D	Retrofit Feasibility Assessment	Conduct detailed inventory of Town-owned properties and rank for retrofit potential	Office of Community Development	Complete report no later than four (4) years of permit effective date. Beginning in PY5 keep running list of at least five (5) retrofit sites.	2020 (PY3)

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Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

MCM 6: Municipal Good Housekeeping and Pollution Prevention

BMP ID	BMP Category	BMP Description	Responsible Department / Parties	Additional Description/Measurable Goal	Beginning Year of BMP Implementation
6A	Operation & Maintenance Program	Complete. Inventory and create O&M procedures for all permittee-owned parks and open spaces, buildings and facilities (including their storm drains), and vehicles and equipment	Highway	Continue to implement Operations & Maintenance Program	2018 (PY1)
6B	Operation & Maintenance Program	Complete. Establish and implement program for repair and rehabilitation of MS4 infrastructure	Highway	Continue to implement Operations & Maintenance Program	2018 (PY1)
6C	Stormwater Pollution Prevention Plans (SWPPP)	Complete. Implement Highway Department SWPPP	Highway	Continue to implement Stormwater Pollution Prevention Plans	2019 (PY2)
6D-1	Operation & Maintenance Program	Implement procedures to optimize catch basin cleaning developed under BMP 6B	Highway	Track frequency and material quantity of catch basin cleaning. In first Annual Report and in SWMP, document plan for optimizing catch basin cleaning.	2018 (PY1)
6D-2	Operation & Maintenance Program	Implement procedures for street and parking lot sweeping developed under BMP 6B	Highway	Annually track number of miles cleaned or the volume or mass of material removed	2018 (PY1)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

BMP ID	BMP Category	BMP Description	Responsible Department / Parties	Additional Description/Measurable Goal	Beginning Year of BMP Implementation
6D-3	Operation & Maintenance Program	Implement procedures for use and storage of deicing materials developed under BMP 6B	Highway	Implement program for winter road maintenance throughout permit term	2018 (PY1)
6D-4	Operation & Maintenance Program	Implement procedures to inspect and maintain Town-owned structural stormwater BMPs	Highway	Develop an inventory of Town-owned BMPs within two (2) years of permit effective date. Report on inspection and maintenance conducted annually.	2018 (PY1)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Applicable TMDL	**Action Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)
Long Island Sound TMDL (Nitrogen)	Adhere to requirements in part B.I of Appendix F	Highway

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Pollutant	Waterbody ID(s)	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
E. Coli	Sucker Brook (MA42-15)	Adhere to requirements in part III of Appendix H	Highway
Fecal Coliform	French River (MA42-05)	Adhere to requirements in part III of Appendix H	Highway
Fecal Coliform	French River (MA42-06)	Adhere to requirements in part III of Appendix H	Highway
Turbidity	French River (MA42-06)	Adhere to requirements in part V of Appendix H	Highway

Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1and 2.2.2 that you have identified as not applicable to your MS4 because you do not discharge to the impaired water body or a tributary to an impaired water body due to nitrogen or phosphorus. Provide all supporting documentation below or attach additional documents if necessary.
Also, provide any additional information about your MS4 program below.

1. BMPs identified in the 2003 General Permit NOI have been modified or replaced over the permit term due to staff changes and Stormwater Program modifications. The intent of the 2003 BMPs are being met under the proposed 2016 General Permit BMPs included in the Stormwater Management Plan. The Plan will describe how the BMPs under the 2003 permit fit into the new program, particularly where BMPs and/or measurable goals that are outdated or no longer appropriate have been replaced or updated.

2. The National Endangered Species Eligibility Determination screening process has been completed and the Town of Webster meets Criterion C. The Town's stormwater discharges and discharge related activities will have no affect on listed species or critical habitat. The Town will consult with U.S. Fish and Wildlife as needed during the permit term.

3. The National Historic Preservation Act Eligibility Determination screening process has been completed and the Town of Webster meets Criterion A. The Town's stormwater discharges do not have the potential to cause effects on historic properties. The Town will consult with the State Historic Preservation Officer as needed during the permit term.

4. The outfalls and associated receiving waters in Part II are based on mapping as of September 2018 and are subject to change during implementation of the Stormwater Management Program as newly constructed outfalls are added to the map and inventory; locations are adjusted; or outfalls are removed if they are determined to be non-municipally owned/operated or reclassified as a BMP inlet, culvert, or other structure. Changes to the outfall inventory and mapping will be formalized in Annual Reports to EPA.

Detailed explanations of the above notes will be included in the Town's Stormwater Management Plan.

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part V: 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: Andrew M Jolda

Title: Chairman, B.O.S.

Signature: Andrew M Jolda

Date: 9/17/18

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

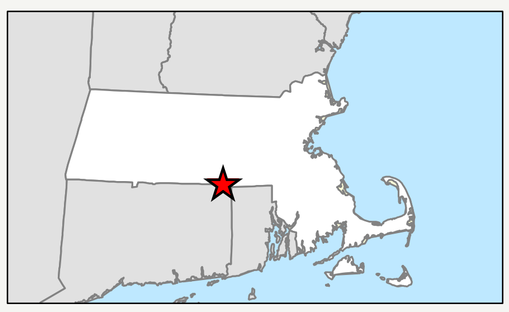
Note: When prompted during signing, save the document under a new file name

OXFORD

DUDLEY

DOUGLAS

CONNECTICUT



Legend

- Outfalls
- Catch Basin
- Drain Manhole
- Culverts
- Drain Line
- Open Channel
- Limited Access Highway
- Multi-Lane Highway, NOT Limited Access
- Other Numbered Highway
- Major Road - Collector
- Minor Street or Road
- MS4 Regulated Area (2000 Census)
- MS4 Regulated Area (2010 Census)
- Subbasin
- Town Boundary
- Lake, Pond, River or Impoundment
- Inland Wetlands
- Coastal Wetlands
- Stream/Intermittent Stream

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Feet

STORMWATER MS4 INFRASTRUCTURE

Notice of Intent
Webster, Massachusetts

January 2018

Tighe&Bond
Engineers | Environmental Specialists

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OXFORD

DOUGLAS

DUDLEY

CONNECTICUT

Outfalls
Receiving Waterbody

- Direct Discharge to Freemans Brook
- Tributary/Wetland to Freemans Brook
- Tributary/Wetland to French River MA42-04
- Direct Discharge to French River MA42-05
- Tributary/Wetland to French River MA42-05
- Tributary/Wetland to French River MA42-06
- Direct Discharge to Sucker Brook MA42-15
- Tributary/Wetland to Sucker Brook MA42-15
- Direct Discharge to Webster Lake MA42064
- Tributary/Wetland to Webster Lake MA42064
- Tributary/Wetland to Browns Brook
- Tributary/Wetland to Club Pond
- Tributary/Wetland to Mill Brook
- Direct Discharge to Unnamed Isolated Wetland
- Direct Discharge to Unnamed Tributary
- Outside Urban Area/Receiving Water Discharge

Legend

Water Body Segments - Rivers
- 2 - Attaining some uses; other uses not assessed
- 3 - No uses assessed
- 4A - Impaired - TMDL is completed
- 4C - Impairment not caused by a pollutant
- 5 - Impaired - TMDL required

Water Body Segments - Lakes, Estuaries
- 2 - Attaining some uses; other uses not assessed
- 3 - No uses assessed
- 4A - Impaired - TMDL is completed
- 4C - Impairment not caused by a pollutant
- 5 - Impaired - TMDL required

- Major Drainage Basins
- Subbasin
- Town Boundary
- MS4 Regulated Area (2010 Census)
- MS4 Regulated Area (2000 Census)

MassDOT Major Roads

Road Type
- Limited Access Highway
- Multi-lane Hwy, not limited access
- Other Numbered Highway
- Major Road, Collector

- NWI Rivers and Streams

NWI Wetland Areas
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Estuarine and Marine Deepwater
- Freshwater Pond
- Lake
- Riverine

Flood Zone Designations
- FEMA National Flood Hazard

1. Based on USGS Topo Map (1982)
2. MassGIS: 2014 Integrated List Data (2016), Major Drainage Basins (2003), Subbasins (2007) Coumminity Boundary (2017), Nation Wetlands Inventory (2007), FEMA National Flood Hazard (2017), MassDOT Major Roads (2014)
3. Town of Webster: Outfalls

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Feet

OUTFALLS AND RECEIVING WATERBODIES

Notice of Intent
Webster, Massachusetts

January 2018

Tighe&Bond
Engineers | Environmental Specialists

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W-1781

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MA 02109-3912

VIA EMAIL

April 5, 2019

Andrew M Jolda
Chairman, Board of Selectmen

And;

Kenneth Pizzetti
Highway Superintendent
23 Cudworth Road
Webster, MA. 01570
kpizzetti@webster-ma.gov

Re: National Pollutant Discharge Elimination System Permit ID #: MAR041170, Town of Webster

Dear Kenneth Pizzetti:

The 2016 NPDES General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts (MS4 General Permit) is a jointly issued EPA-MassDEP permit. Your Notice of Intent (NOI) for coverage under this MS4 General Permit has been reviewed by EPA and appears to be complete. You are hereby granted authorization by EPA and MassDEP to discharge stormwater from your MS4 in accordance with the applicable terms and conditions of the MS4 General Permit, including all relevant and applicable Appendices. This authorization to discharge expires at midnight on **June 30, 2022.**

For those permittees that certified Endangered Species Act eligibility under Criterion C in their NOI, this authorization letter also serves as EPA's concurrence with your determination that your discharges will have no effect on the listed species present in your action area, based on the information provided in your NOI.

As a reminder, your first annual report is due by **September 30, 2019** for the reporting period from May 1, 2018 through June 30, 2019.

Information about the permit and available resources can be found on our website: https://www.epa.gov/npdes-permits/massachusetts-small-ms4-general-permit. Should you have

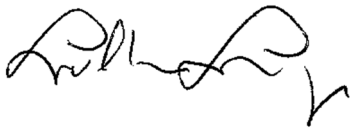
any questions regarding this permit please contact Newton Tedder at tedder.newton@epa.gov or (617) 918-1038.

Sincerely,



Thelma Murphy, Chief
Stormwater and Construction Permits Section
Office of Ecosystem Protection
United States Environmental Protection Agency, Region 1

and;



Lealdon Langley, Director
Wetlands and Wastewater Program
Bureau of Water Resources
Massachusetts Department of Environmental Protection

Appendix D

Endangered Species Act Eligibility Criteria Documentation

Endangered Species Act Eligibility Certification

TO: Town of Webster Stormwater Management Program Files

FROM: Tighe & Bond

COPY: Kenneth Pizzetti, Highway Superintendent

DATE: July 18, 2018

Tighe & Bond has completed the National Endangered Species Eligibility Determination screening process in accordance with Part 1.9.1 and Appendix C of U.S. EPA's National Pollutant Discharge Elimination System (NPDES) General Permits for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) in Massachusetts (see Attachment A of this memorandum), effective July 1, 2018[1], and determined that the **Town of Webster** meets **Criterion C**, where informal consultation with U.S. Fish and Wildlife Service (USFWS) resulted in a finding that the stormwater discharges and discharge related activities will have "no affect" on listed species or critical habitat.

Tighe & Bond followed EPA's screening process required by the 2016 Small MS4 General Permit as follows:

Tighe & Bond went to the USFWS Information for Planning and Consultation (IPaC) website [2] and created an IPaC Trust Resources Report, included in Attachment B to this memorandum. This Report lists the following species that may occur or could potentially be affected by activities in the Town:

- Northern Long-eared Bat.

This report documents that there are no critical habitats in Webster.

Tighe & Bond then went to the USFWS New England Field Office website for Endangered Species Reviews/Consultations[3] and selected the Massachusetts state list[4] to review which Towns have federally-listed species. A copy of the list of Federally Listed Endangered and Threatened Species in Massachusetts is included in Attachment C to this memorandum. Based on review of this list, the Northern Long-eared Bat is listed statewide.

Tighe & Bond then reviewed Step 1 Part B of the USFWS endangered species consultation, and visited the Massachusetts Natural Heritage and Endangered Species Program (NHESP) species information and conservation website about the Northern Long-eared Bat[5]. The NHESP website included a map showing the known locations of the Northern Long-eared Bat within Massachusetts. Attachment D includes a map showing there are no roost trees or hibernating locations within Webster. Based on the results of the NHESP website review, Tighe & Bond determined there is no potential habitat for any USFWS listed endangered species within the action area and therefore no further coordination is required with the USFWS.

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[1] Revised General Permit effective date according to June 29, 2017 EPA memorandum from EPA Region 1 Acting Regional Administrator.

[2] http://ecos.fws.gov/ipac/

[3] https://www.fws.gov/newengland/EndangeredSpec-Consultation_Project_Review.htm

[4] https://www.fws.gov/newengland/pdfs/MA%20species%20by%20town.pdf

[5] http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/rare-mammals/northern-long-eared-bat.html

Attachment E provides the results of Tighe & Bond's informal consultation on behalf of the Town of Webster with USFWS "no species present" letter that states "no species are known to occur in the project area".

Step 1 – Determine if you can meet USFWS Criterion A

"USFWS Criterion A: You can certify eligibility, according to USFWS Criterion A, for coverage by this permit if, upon completing the Information, Planning, and Conservation (IPaC) online system process, you printed and saved the preliminary determination which indicated that federally listed species or designated critical habitats are not present in the action area. See Attachment 1 to Appendix C for instructions on how to use IPaC."

No, the Town of Webster's IPaC action area contains the Northern Long-eared Bat.

Step 2 – Determine if You Can Meet Eligibility USFWS Criteria B

"USFWS Criterion B: You can certify eligibility according to USFWS Criteria B for coverage by this permit if you answer "Yes" to **all** of the following questions:

1) Does your action area contain one or more of the following species: Sandplain gerardia, Small whorled Pogonia, American burying beetle, Dwarf wedgemussel, Northeastern bulrush, Piping Plover, Northern Red-bellied cooter, Bog Turtle, Roseate Tern, Puritan tiger beetle, and Northeastern beach tiger beetle?"

   No, the Town of Webster's action area does not contain any of the above species.

Step 3 – Determine if You Can Meet Eligibility USFWS Criteria C

"USFWS Criterion C: You can certify eligibility according to USFWS Criterion C for coverage by this permit if you answer "Yes" to both of the following questions:

1) Does your action area contain one or more of the following species: Northern Long-eared Bat, Sandplain gerardia, Small whorled Pogonia and/or American burying beetle and does not contain one any following species: Dwarf wedgemussel, Northeastern bulrush, Piping Plover, Northern Red-bellied cooter, Bog Turtle, Roseate Tern, Puritan tiger beetle, and Northeastern beach tiger beetle?

   Yes, the Town of Webster's action area contains the Northern Long-eared Bat, but does not contain other subsequent species.

2) Did the assessment of your discharge and discharge related activities and indicate that there would be "no affect" on listed species or critical habitat and EPA provided concurrence with your determination?

   Yes, Tighe & Bond performed an informal consultation with USFWS and determined that the Town's discharges and discharge related activities will have "no affect" on listed species or critical habitat (see discussion above).

3) Do you agree that if, during the course of the permit term, you plan to install a structural BMP not identified in the NOI that you will to conduct an endangered species screening for the proposed site and contact the USFWS if you determine that the new activity "may affect" or is "not likely to adversely affect" listed species or critical habitat under the jurisdiction of the USFWS."

Yes, during the course of the permit term the Town of Webster agrees to conduct an endangered species screening for the proposed site and contact USFWS if they plan to install a structural BMP not identified in the NOI.

Tighe & Bond's review of the questions under Step 3 resulted in "Yes", and thereby we determined the Town of Webster's action area meets the endangered species' eligibility requirements included in Criterion C.

J:\W\W1781 Webster 2011 Stormwater SRF\Task 2 SWMP\SWMP\Appendix D - ESA Eligibility\Endangered Species Act Eligibility Certification - Final.docx

Attachment A

Appendix C of U.S. EPA's National Pollutant Discharge Elimination System (NPDES) General Permits for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) in Massachusetts

APPENDIX C
ENDANGERED SPECIES GUIDANCE

A. Background

In order to meet its obligations under the Clean Water Act and the Endangered Species Act (ESA), and to promote the goals of those Acts, the Environmental Protection Agency (EPA) is seeking to ensure the activities regulated by this general permit do not adversely affect endangered and threatened species or critical habitat. Applicants applying for permit coverage must assess the impacts of their stormwater discharges and discharge-related activities on federally listed endangered and threatened species ("listed species") and designated critical habitat ("critical habitat") to ensure that those goals are met. Prior to obtaining general permit coverage, applicants must meet the ESA eligibility provisions of this permit by following the steps in this Appendix[1].

Applicants also have an independent ESA obligation to ensure that their activities do not result in any prohibited "take" of listed species[12]. The term "Take" is used in the ESA to include harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in any such conduct. "Harm" is further defined to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns including breeding, feeding, or sheltering. "Harass" is defined as intentional or negligent actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. Many of the measures required in this general permit and in these instructions to protect species may also assist in ensuring that the applicant's activities do not result in a prohibited take of species in violation of section 9 of the ESA. If the applicant has plans or activities in an area where endangered and threatened species are located, they may wish to ensure that they are protected from potential take liability under ESA section 9 by obtaining an ESA section 10 permit or by requesting formal consultation under ESA section 7. Applicants that are unsure whether to pursue a section 10 permit or a section 7 consultation for takings protection should confer with the appropriate United States Fish and Wildlife Service (USFWS) office or the National Marine Fisheries Service (NMFS), (jointly the Services).

Currently, there are 20 species of concern for applicants applying for permit coverage, namely the Dwarf wedgemussel *(Alasmidonta heterodon)*, Northeastern bulrush (*Scirpus ancistrochaetus*), Sandplain gerardia *(Agalinis acuta)*, Piping Plover (*Charadrius melodus*), Roseate Tern (*Sterna dougallii*), Northern Red-bellied cooter (*Pseudemys rubriventis)*, Bog Turtle (*Glyptemys muhlenbergii*), Small whorled Pogonia (*Isotria medeoloides*), Puritan tiger beetle (*Cicindela puritana*), American burying beetle (*Nicrophorus americanus*), Northeastern beach tiger beetle (*Cicindela dorsalis*), Northern Long-eared Bat *(Myotis septentriolis)*Atlantic Sturgeon *(Acipenser oxyrinchus*), Shortnose Sturgeon *(Acipenser brevirostrum)*, North Atlantic Right Whale (*Eubalaena glacialis*) Humpback Whale *(Megaptera novaengliae)*, Fin Whale (*Balaenoptera physalus)*, Kemp's Ridley Sea Turtle *(Lepidochelys kempii)*, Loggerhead Sea Turtle *(Caretta caretta)*, Leatherback Sea Turtle *(Dermochelys coriacea)*, and the Green Turtle *(Chelonia*

[1] EPA strongly encourages applicants to begin this process at the earliest possible stage to ensure the notification requirements for general permit coverage are complete upon Notice of Intent (NOI) submission.
[2] Section 9 of the ESA prohibits any person from "taking" a listed species (e.g. harassing or harming it) unless: (1) the taking is authorized through an "incidental take statement" as part of completion of formal consultation according to ESA section 7; (2) where an incidental take permit is obtained under ESA section 10 (which requires the development of a habitat conversion plan; or (3) where otherwise authorized or exempted under the ESA. This prohibition applies to all entities including private individuals, businesses, and governments.

mydas). The Atlantic Sturgeon, Shortnose Sturgeon, North Atlantic Right Whale, Humpback Whale, Fin Whale, Loggerhead Sea Turtle, Kemp's Ridley Sea Turtle, Leatherback Sea Turtle and Green Turtle are listed under the jurisdiction of NMFS. The Dwarf wedgemussel, Northeastern bulrush, Sandplain gerardia, Piping Plover, Northern Red-bellied cooter, Bog Turtle, Small whorled Pogonia, Roseate Tern, Puritan tiger beetle, Northeastern beach tiger beetle, Northern Long-eared Bat and American burying beetle are listed under the jurisdiction of the U.S. Fish and Wildlife Service.

Any applicant seeking coverage under this general permit, must consult with the Services where appropriate. When listed species are present, permit coverage is only available if EPA determines, or the applicant determines and EPA concurs, that the discharge or discharge related activities will have "no affect" on the listed species or critical habitat, or the applicant or EPA determines that the discharge or discharge related activities are "not likely to adversely affect" listed species or critical habitat and formal or informal consultation with the Services has been concluded and results in written concurrence by the Services that the discharge is "not likely to adversely affect" an endangered or threatened species or critical habitat.

EPA may designate the applicants as non-Federal representatives for the general permit for the purpose of carrying out formal or informal consultation with the Services (See 50 CFR §402.08 and §402.13). By terms of this permit, EPA has automatically designated operators as non-Federal representatives for the purpose of conducting formal or informal consultation with the U.S. Fish and Wildlife Service. EPA has not designated operators as non-Federal representatives for the purpose of conducting formal or informal consultation with the National Marine Fisheries Service. EPA has determined that discharges from MS4s are not likely to adversely affect listed species or critical habitat under the jurisdiction of the National Marine Fisheries Service. EPA has initiated informal consultation with the National Marine Fisheries Service on behalf of all permittees and no further action is required by permittees in order to fulfill ESA requirements of this permit related to species under the jurisdiction of NMFS

B. The U.S. Fish and Wildlife Service ESA Eligibility Process

Before submitting a notice of intent (NOI) for coverage by this permit, applicants must determine whether they meet the ESA eligibility criteria by following the steps in Section B of this Appendix. Applicants that cannot meet the eligibility criteria in Section B must apply for an individual permit.

The USFWS ESA eligibility requirements of this permit relating to the Dwarf wedgemussel, Northeastern bulrush, Sandplain gerardia, Piping Plover, Northern Red-bellied cooter, Bog Turtle, Small whorled Pogonia, Roseate Tern, Puritan tiger beetle, Northeastern beach tiger beetle, Northern Long-eared Bat and American burying beetle may be satisfied by documenting that one of the following criteria has been met:

USFWS Criterion A: No endangered or threatened species or critical habitat are in proximity to the stormwater discharges or discharge related activities.

USFWS Criterion B: In the course of formal or informal consultation with the Fish and Wildlife Service, under section 7 of the ESA, the consultation resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by USFWS on a finding that the stormwater discharges and

discharge related activities are "not likely to adversely affect" listed species or critical habitat (informal consultation).

USFWS Criterion C: Using the best scientific and commercial data available, the effect of the stormwater discharge and discharge related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the applicant and affirmed by EPA, that the stormwater discharges and discharge related activities will have "no affect" on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the USFWS.

1. The Steps to Determine if the USFWS ESA Eligibility Criteria Can Be Met

To determine eligibility, you must assess the potential effects of your known stormwater discharges and discharge related activities on listed species or critical habitat, PRIOR to completing and submitting a Notice of Intent (NOI). You must follow the steps outlined below and document the results of your eligibility determination.

Step 1 – Determine if you can meet USFWS Criterion A

USFWS Criterion A: You can certify eligibility, according to USFWS Criterion A, for coverage by this permit if, upon completing the Information, Planning, and Conservation (IPaC) online system process, you printed and saved the preliminary determination which indicated that federally listed species or designated critical habitats are not present in the action area. See Attachment 1 to Appendix C for instructions on how to use IPaC.

If you have met USFWS Criterion A skip to Step # 4.

If you have not met USFWS Criterion A, go to Step # 2.

Step 2 – Determine if You Can Meet Eligibility USFWS Criteria B

USFWS Criterion B: You can certify eligibility according to USFWS Criteria B for coverage by this permit if you answer "Yes" to **all** of the following questions:

1) Does your action area contain one or more of the following species: Sandplain gerardia, Small whorled Pogonia, American burying beetle, Dwarf wedgemussel, Northeastern bulrush, Piping Plover, Northern Red-bellied cooter, Bog Turtle, Roseate Tern, Puritan tiger beetle, and Northeastern beach tiger beetle?
   AND
2) Did your assessment of the discharge and discharge related activities indicate that the discharge or discharge related activities "may affect" or are "not likely to adversely affect" listed species or critical habitat?
   AND
3) Did you contact the USFWS and did the formal or informal consultation result in either a "no jeopardy" opinion by the USFWS (for formal consultation) or concurrence by the

USFWS that your activities would be "not likely to adversely affect" listed species or critical habitat (for informal consultation)?
AND

4) Do you agree to implement all measures upon which the consultation was conditioned?
5) Do you agree that if, during the course of the permit term, you plan to install a structural BMP not identified in the NOI that you will re-initiate informal or formal consultation with USFWS as necessary?

Use the guidance below Step 3 to understand effects determination and to answer these questions.

If you answered "Yes" to all four questions above, you have met eligibility USFWS Criteria B. Skip to Step 4.

If you answered "No" to any of the four questions above, go to Step 3.

Step 3 – Determine if You Can Meet Eligibility USFWS Criterion C

USFWS Criterion C: You can certify eligibility according to USFWS Criterion C for coverage by this permit if you answer "Yes" to both of the following question:

1) Does your action area contain one or more of the following species: Northern Long-eared Bat, Sandplain gerardia, Small whorled Pogonia and/or American burying beetle and **does not** contain one any following species: Dwarf wedgemussel, Northeastern bulrush, Piping Plover, Northern Red-bellied cooter, Bog Turtle, Roseate Tern, Puritan tiger beetle, and Northeastern beach tiger beetle?[3]
OR
2) Did the assessment of your discharge and discharge related activities and indicate that there would be "no affect" on listed species or critical habitat and EPA provided concurrence with your determination?
3) Do you agree that if, during the course of the permit term, you plan to install a structural BMP not identified in the NOI that you will to conduct an endangered species screening for the proposed site and contact the USFWS if you determine that the new activity "may affect" or is "not likely to adversely affect" listed species or critical habitat under the jurisdiction of the USFWS.

Use the guidance below to understand effects determination and to answer these questions.

If you answered "Yes" to both the question above, you have met eligibility USFWS Criterion C. Go to Step 4.

If you answered "No" to either of the questions above, you are not eligible for coverage by this permit. You must submit an application for an individual permit for your stormwater discharges. (See 40 CFR 122.21).

USFWS Effects Determination Guidance:

If you are unable to certify eligibility under USFWS Criterion A, you must assess whether your stormwater discharges and discharge-related activities "may affect", will have "no affect" or are "not likely to adversely affect" listed species or critical habitat. "Discharge-related activities" include: activities which cause, contribute to, or result in point source stormwater pollutant discharges; and measures to provide treatment for stormwater discharges including the siting, construction and operational procedures to control, reduce or prevent water pollution. Please be aware that no protection from incidental take liability is provided under this criterion.

The scope of effects to consider will vary with each system. If you are having difficulty in determining whether your system is likely to cause adverse effects to a listed species or critical habitat, you should contact the USFWS for assistance. In order to complete the determination of effects it may be necessary to follow the formal or informal consultation procedures in section 7 of the ESA.

Upon completion of your assessment, document the results of your effects determination. If your results indicate that stormwater discharges or discharge related activities will have "no affect" on threatened or endangered species or critical habitat and EPA concurs with your determination, you are eligible under USFWS Criterion C of this Appendix. Your determination may be based on measures that you implement to avoid, eliminate, or minimized adverse effects.

If the determination is "May affect" or "not likely to adversely affect" you must contact the USFWS to discuss your findings and measures you could implement to avoid, eliminate, or minimize adverse effects. If you and the USFWS reach agreement on measures to avoid adverse effects, you are eligible under USFWS Criterion B. Any terms and/or conditions to protect listed species and critical habitat that you relied on in order to complete an adverse effects determination, must be incorporated into your Storm Water Management Program (required by this permit) and implemented in order to maintain permit eligibility.

If endangered species issues cannot be resolved: If you cannot reach agreement with the USFWS on measures to avoid or eliminate adverse effects then you are not eligible for coverage under this permit. You must seek coverage under an individual permit.

Effects from stormwater discharges and discharge-related activities which could pose an adverse effect include:

- *Hydrological:* Stormwater discharges may cause siltation, sedimentation, or induce other changes in receiving waters such as temperature, salinity or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- *Habitat:* Excavation, site development, grading and other surface disturbance activities, including the installation or placement of treatment equipment may adversely affect listed species or their habitat. Stormwater from the small MS4 may inundate a listed species habitat.

- *Toxicity:* In some cases, pollutants in the stormwater may have toxic effects on listed species.

Step 4 - Document Results of the Eligibility Determination

Once the USFWS ESA eligibility requirements have been met, you shall include documentation of USFWS ESA eligibility in the Storm Water Management Program required by the permit. Documentation for the various eligibility criteria are as follows:

- USFWS Criterion A: A copy of the IPaC generated preliminary determination letter indicating that no listed species or critical habitat is present within your action area. You shall also include a statement on how you determined that no listed species or critical habitat are in proximity to your stormwater system or discharges.
- USFWS Criterion B: A dated copy of the USFWS letter of concurrence on a finding of "no jeopardy" (for formal consultation) or "not likely to adversely affect" (for informal consultation) regarding the ESA section 7 consultation.
- USFWS Criterion C: A dated copy of the EPA concurrence with the operator's determination that the stormwater discharges and discharge-related activities will have "no affect" on listed species or critical habitat.

C. Submittal of Notice of Intent

Once the ESA eligibility requirements of Part C of this Appendix have been metyoumay submit the Notice of Intent indicating which Criterion you have met to be eligible for permit coverage. Signature and submittal of the NOI constitutes your certification, under penalty of law, of eligibility for permit coverage under 40 CFR 122.21.

D. Duty to Implement Terms and Conditions upon which Eligibility was Determined

You must comply with any terms and conditions imposed under the ESA eligibility requirements to ensure that your stormwater discharges and discharge related activities do not pose adverse effects or jeopardy to listed species and/or critical habitat. You must incorporate such terms and conditions into your Storm Water Management Program as required by this permit. If the ESA eligibility requirements of this permit cannot be met, then you may not receive coverage under this permit and must apply for an individual permit.

E. Services Information

United States Fish and Wildlife Service Office

National websites for Endangered Species Information:
Endangered Species home page: http://endangered.fws.gov
ESA Section 7 Consultations: http://endangered.fws.gov/consultation/index.html
Information, Planning, and Conservation System (IPAC): http://ecos.fws.gov/ipac/

U.S. FWS – Region 5
Supervisor

New England Field Office
U.S. Fish and Wildlife Services
70 Commercial Street, Suite 300
Concord, NH 03301

Natural Heritage Network

The Natural Heritage Network comprises 75 independent heritage program organizations located in all 50 states, 10 Canadian provinces, and 12 countries and territories located throughout Latin America and the Caribbean. These programs gather, manage, and distribute detailed information about the biological diversity found within their jurisdictions. Developers, businesses, and public agencies use natural heritage information to comply with environmental laws and to improve the environmental sensitivity of economic development projects. Local governments use the information to aid in land use planning.

The Natural Heritage Network is overseen by NatureServe, the Network's parent organization, and is accessible on-line at: http://www.natureserve.org/nhp/us_programs.htm, which provides websites and other access to a large number of specific biodiversity centers.

U.S. Fish and Wildlife IPaC system instructions

Use the following protocol to determine if any federally listed species or designated critical habitats under USFWS jurisdiction exist in your action area:

Enter your project specific information into the "Initial Project Scoping" feature of the Information, Planning, and Conservation (IPaC) system mapping tool, which can be found at the following location:

http://ecos.fws.gov/ipac/

a. Indicate the action area[1] for the MS4 by either:
    a. Drawing the boundary on the map or by uploading a shapefile.
    Select "Continue"

c. Click on the "SEE RESOURCE LIST" button and on the next screen you can export a trust resources list.This will provided a list of natural resources of concern, which will include an Endangered Species Act Species list. You may also request an official species list under "REGULATORY DOCUMENTS" Save copies and retain for your records

[1] The action area is defined by regulation as all areas to be affected directly or indirectly by the action and not merely the immediate area involved in the action (50 CFR §402.02). This analysis is not limited to the "footprint" of the action nor is it limited by the Federal agency's authority. Rather, it is a biological determination of the reach of the proposed action on listed species. Subsequent analyses of the environmental baseline, effects of the action, and levels of incidental take are based upon the action area.

The documentation used by a Federal action agency to initiate consultation should contain a description of the action area as defined in the Services' regulations and explained in the Services' consultation handbook. If the Services determine that the action area as defined by the action agency is incorrect, the Services should discuss their rationale with the agency or applicant, as appropriate. Reaching agreement on the description of the action area is desirable but ultimately the Services can only consult when an action area is defined properly under the regulations.

For storm water discharges or discharge related activities, the action area should encompass the following:

- The immediate vicinity of, or nearby, the point of discharge into receiving waters.
- The path or immediate area through which or over which storm water flows from the municipality to the point of discharge into the receiving water. This includes areas in the receiving water downstream from the point of discharge.
- Areas that may be impacted by construction or repair activities. This extends as far as effects related to noise (from construction equipment, power tools, etc.) and light (if work is performed at night) may reach.

The action area will vary with the size and location of the outfall pipe, the nature and quantity of the storm water discharges, and the type of receiving waters, among other factors.

Attachment B

Webster IPaC Trust Resources Report

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland

In Reply Refer To:
Consultation Code: 05E1NE00-2018-SLI-2440
Event Code: 05E1NE00-2018-E-05664
Project Name: Webster NOI

July 18, 2018

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2018-SLI-2440

Event Code: 05E1NE00-2018-E-05664

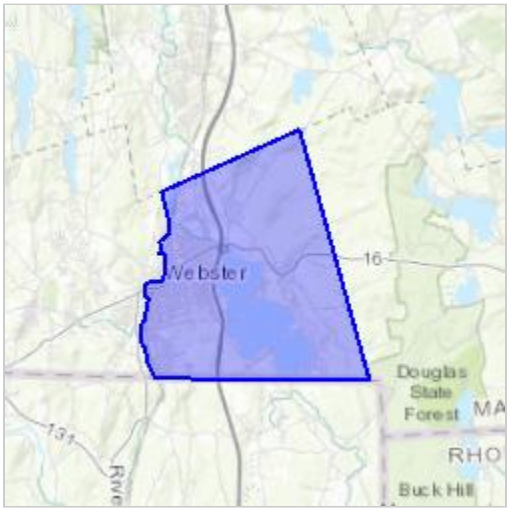
Project Name: Webster NOI

Project Type: Regulation Promulgation

Project Description: This project is applying for coverage under the 2016 MS4 General Permit. The project consists of the entire area of the Town of Webster's small municipal separate storm sewer systems (MS4) that falls within the urbanized area of the town. Based on EPA's 2016 MS4 General Permit Webster must apply for permit coverage for the Town's MS4 stormwater discharges and assess the impacts of the stormwater discharges and discharge-related activities on endangered and threatened species, and designated critical habitats that fall within the areas that fall within the MS4.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/42.05819755928039N71.8490063600907W



Counties: Worcester, MA

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Attachment C

Federally Listed Endangered and Threatened Species in Massachusetts

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

Updated 02/05/2016

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague, Warwick
	Dwarf wedgemussel	Endangered	Mill River	Whately
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hatfield, Amherst and Northampton
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

Updated 02/05/2016

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Suffolk	Piping Plover	Threatened	Coastal Beaches	Revere, Winthrop
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

[1]Migratory only, scattered along the coast in small numbers

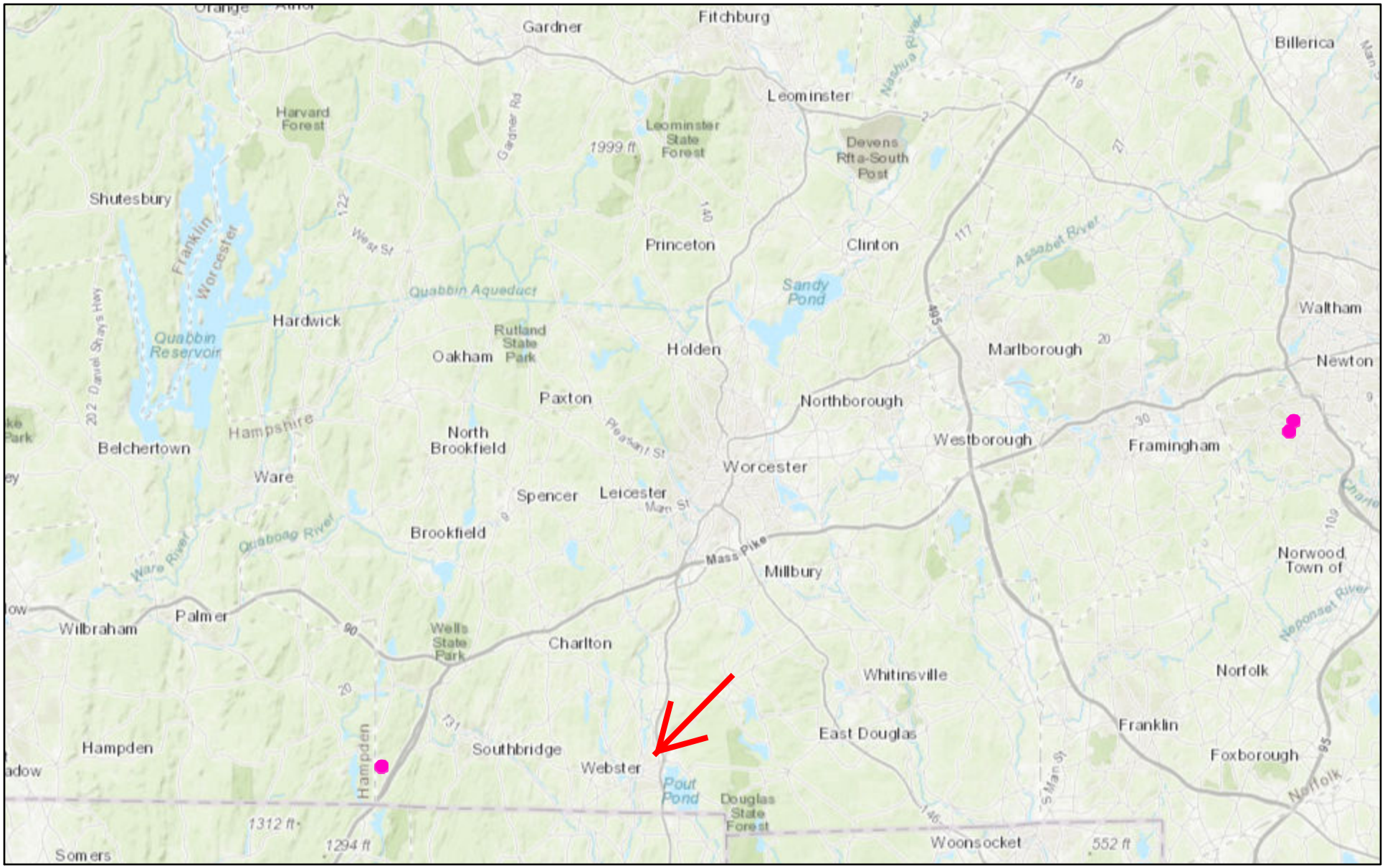
-Eastern cougar and gray wolf are considered extirpated in Massachusetts.
-Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
-Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

Updated 02/05/2016

Attachment D

Northern Long-eared Bat Location Map

Northern Long-eared Bat Locations



July 18, 2018

Statewide NLEB Symbology

- Hibernaculum
- MA Northern Long-eared Bat Winter Hibernacula (with ¼ mile buffer)

1:577,791

0 3.5 7 14 mi

0 5 10 20 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

Attachment E

U.S. Fish and Wildlife Review Letter

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/newengland

January 8, 2018

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm (accessed January 2018)

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact David Simmons of this office at 603-227-6425 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

Appendix E

Historic Properties Eligibility Criteria Documentation

National Historic Preservation Act Eligibility Certification

TO: Town of Webster Stormwater Management Program Files

FROM: Tighe & Bond

COPY: Kenneth Pizzetti, Highway Superintendent

DATE: July 18, 2018

Tighe & Bond has completed the National Historic Preservation Act Eligibility Determination screening process in accordance with Part 1.9.2 and Appendix D of U.S. EPA's National Pollutant Discharge Elimination System (NPDES) General Permits for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) in Massachusetts (see Attachment A of this memorandum), effective July 1, 2018[1], and determined that the **Town of Webster** meets **Criterion A: The discharges do not have the potential to cause effects on historic properties.**

Tighe & Bond followed the screening process included in Appendix D and has determined Webster is an existing facility authorized by the previous permit and therefore meets Criterion A (see Question 1 in Appendix D of the Permit) and is not, as part of developing and submitting the Notice of Intent for permit coverage, undertaking any activity involving subsurface land disturbance less than an acre. Based on this screening process, the Town of Webster's stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities will not have an effect on a property that is listed or eligible for listing on the National Register of Historic Properties (NRHP) and no further action is necessary at this time.

Attachment B to this memorandum includes a list of the federal- and state-listed historic areas, buildings, burial grounds, objects, and structures downloaded from the Massachusetts Cultural Resource Information System (MACRIS) that is current as of July 18, 2018. If the Town undertakes construction on or around a property that is listed or eligible for listing, the Town will coordinate with the State Historic Preservation Officer (SHPO) (i.e. the Massachusetts Historical Commission) by submitting a Project Notification Form and associated documentation for the project. As applicable for each project, the Town will implement measures to avoid or minimize adverse impacts on places listed, or eligible for listing, on the NRHP, including any conditions imposed by the SHPO or THPO. If the Town fails to document and implement such measures, those discharges are ineligible for coverage under EPA's Small MS4 General Permit.

[1] Revised General Permit effective date according to June 29, 2017 EPA memorandum from EPA Region 1 Acting Regional Administrator.

Attachment A

Appendix D of U.S. EPA's National Pollutant Discharge Elimination System (NPDES) General Permits for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) in Massachusetts

Appendix D
National Historic Preservation Act Guidance

Background

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effects of Federal "undertakings" on historic properties that are either listed on, or eligible for listing on, the National Register of Historic Places. The term federal "undertaking" is defined in the NHPA regulations to include a project, activity, or program of a federal agency including those carried out by or on behalf of a federal agency, those carried out with federal financial assistance, and those requiring a federal permit, license or approval. See 36 CFR 800.16(y). Historic properties are defined in the NHPA regulations to include prehistoric or historic districts, sites, buildings, structures, or objects that are included in, or are eligible for inclusion in, the National Register of Historic Places. This term includes artifacts, records, and remains that are related to and located within such properties. See 36 CFR 800.16(1).

EPA's issuance of a National Pollutant Discharge Elimination System (NPDES) General Permit is a federal undertaking within the meaning of the NHPA regulations and EPA has determined that the activities to be carried out under the general permit require review and consideration, in order to be in compliance with the federal historic preservation laws and regulations. Although individual submissions for authorization under the general permit do not constitute separate federal undertakings, the screening processes provides an appropriate site-specific means of addressing historic property issues in connection with EPA's issuance of the permit. To address any issues relating to historic properties in connection with the issuance of this permit, EPA has included a screening process for applicants to identify whether properties listed or eligible for listing on the National Register of Historic Places are within the path of their discharges or discharge-related activities (including treatment systems or any BMPs relating to the discharge or treatment process) covered by this permit.

Applicants seeking authorization under this general permit must comply with applicable, State, Tribal, and local laws concerning the protection of historic properties and places and may be required to coordinate with the State Historic Preservation Officer (SHPO) and/or Tribal Historic Preservation Officer (THPO) and others regarding effects of their discharges on historic properties.

Activities with No Potential to Have an Effect on Historic Properties

A determination that a federal undertaking has no potential to have an effect on historic properties fulfills an agency's obligations under NHPA. EPA has reason to believe that the vast majority of activities authorized under this general permit will have no potential effects on historic properties. This permit typically authorizes discharges from existing facilities and requires control of the pollutants discharged from the facility. EPA does not anticipate effects on historic properties from the pollutants in the authorized discharges. Thus, to the extent EPA's issuance of this general permit authorizes discharges of such constituents, confined to existing channels, outfalls or natural drainage areas, the permitting action does not have the potential to cause effects on historical properties.

In addition, the overwhelming majority of sources covered under this permit will be facilities that are seeking renewal of previous permit authorization. These existing dischargers should have already addressed NHPA issues in the previous general permit as they were required to certify that they were either not affecting historic properties or they had obtained written agreement from

the applicable SHPO or THPO regarding methods of mitigating potential impacts. To the extent this permit authorizes renewal of prior coverage without relevant changes in operations the discharge has no potential to have an effect on historic properties.

Activities with Potential to Have an Effect on Historic Properties

EPA believes this permit may have some potential to have an effect on historic properties the applicant undertakes the construction and/or installation of control measures that involve subsurface disturbance that involves less than 1 acre of land. (Ground disturbances of 1 acre or more require coverage under the Construction General Permit.) Where there is disturbance of land through the construction and/or installation of control measures, there is a possibility that artifacts, records, or remains associated with historic properties could be impacted. Therefore, if the applicant is establishing new or altering existing control measures to manage their discharge that will involve subsurface ground disturbance of less than 1 acre, they will need to ensure (1) that historic properties will not be impacted by their activities or (2) that they are in compliance with a written agreement with the SHPO, THPO, or other tribal representative that outlines all measures the applicant will carry out to mitigate or prevent any adverse effects on historic properties.

Examples of Control Measures Which Involve Subsurface Disturbance

The type of control measures that are presumptively expected to cause subsurface ground disturbance include:

- Dikes
- Berms
- Catch basins, drainage inlets
- Ponds, bioretention areas
- Ditches, trenches, channels, swales
- Culverts, pipes
- Land manipulation; contouring, sloping, and grading
- Perimeter Drains
- Installation of manufactured treatment devices

EPA cautions applicants that this list is non-inclusive. Other control measures that involve earth disturbing activities that are not on this list must also be examined for the potential to affect historic properties.

Certification

Upon completion of this screening process the applicant shall certify eligibility for this permit using one of the following criteria on their Notice of Intent for permit coverage:

> **Criterion A**: The discharges do not have the potential to cause effects on historic properties.

Criterion B: A historic survey was conducted. The survey concluded that no historic properties are present. Discharges do not have the potential to cause effects on historic properties.

Criterion C: The discharges and discharge related activities have the potential to have an effect on historic properties, and the applicant has obtained and is in compliance with a written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the applicant will carry out to mitigate or prevent any adverse effects on historic properties.

Authorization under the general permit is available only if the applicant certifies and documents permit eligibility using one of the eligibility criteria listed above. Small MS4s that cannot meet any of the eligibility criteria in above must apply for an individual permit.

Screening Process

Applicants or their consultant need to answer the questions and follow the appropriate procedures below to assist EPA in compliance with 36 CFR 800.

Question 1*:* Is the facility an existing facility authorized by the previous permit or a new facility and the applicant is not undertaking any activity involving subsurface land disturbance less than an acre?

YES - The applicant should certify that fact in writing and file the statement with the EPA. This certification must be maintained as part of the records associated with the permit.
The applicant should certify eligibility for this permit using Criterion A on their Notice of Intent for permit coverage. The applicant does not need to contact the state Historic Commission. Based on that statement, EPA will document that the project has "no potential to cause effects" (36 CFR 800.3(a)(1)). There are no further obligations under the Section 106 regulations.

NO- Go to Question 2.

Question 2*:* Is the property listed in the National Register of Historic Places or have prior surveys or disturbances revealed the existence of a historic property or artifacts?

NO - The applicant should certify that fact in writing and file the statement with the EPA. This certification must be maintained as part of the records associated with the permit.
The applicant should certify eligibility for this permit using Criterion B on their Notice of Intent for permit coverage. The applicant does not need to contact the state Historic Commission. Based on that statement, EPA will document that the project has "no potential to cause effects" (36 CFR 800.3(a)(1)). There are no further obligations under the Section 106 regulations.

YES - The applicant or their consultant should prepare a complete information submittal to the SHPO. The submittal consists of:

- Completed Project Notification Form- forms available at http://www.sec.state.ma.us/mhc/mhcform/formidx.htm;

- USGS map section with the actual project boundaries clearly indicated; and
- Scaled project plans showing existing and proposed conditions.

(1) Please note that the SHPO does not accept email for review. Please mail a paper copy of your submittal (Certified Mail, Return Receipt Requested) or deliver a paper copy of your submittal (and obtain a receipt) to:

State Historic Preservation Officer
Massachusetts Historical Commission
220 Morrissey Blvd.
Boston MA 02125.

(2) Provide a copy of your submittal and the proof of MHC delivery showing the date MHC received your submittal to:

NPDES Permit Branch Chief
US EPA Region 1 (OEP06-1)
5 Post Office Square, Suite 100
Boston MA 02109-3912.

The SHPO will comment within thirty (30) days of receipt of complete submittals, and may ask for additional information. Consultation, as appropriate, will include EPA, the SHPO and other consulting parties (which includes the applicant). The steps in the federal regulations (36 CFR 800.2 to 800.6, etc.) will proceed as necessary to conclude the Section 106 review for the undertaking. **The applicant should certify eligibility for this permit using Criterion C on their Notice of Intent for permit coverage.**

Attachment B

Massachusetts Cultural Resource Information System (MACRIS)
List of federal- and state-listed historic areas, buildings, burial grounds, objects, and structures

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Webster; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
WEB.A	Main Street Historic District		Webster	
WEB.B	Tanner Area		Webster	
WEB.C	The Gore - Webster's Gore		Webster	
WEB.D	East Village		Webster	
WEB.E	South Village		Webster	
WEB.F	North Village		Webster	
WEB.G	Center Village		Webster	
WEB.H	Depot Village - Webster Town Center		Webster	
WEB.I	School Street Area		Webster	
WEB.J	Slater Cambric Mill Worker Housing		Webster	
WEB.K	Slater North Main Street Worker Housing		Webster	
WEB.L	Slater Pearl Street Worker Housing		Webster	
WEB.M	Slater River Street Worker Housing		Webster	
WEB.N	Slater Street Worker Housing		Webster	
WEB.O	Slater Mill Street Worker Housing		Webster	
WEB.P	Webster Municipal Buildings Historic District		Webster	
WEB.Q	Elm Street Area		Webster	
WEB.R	School Street Area		Webster	
WEB.S	Kingsbury District		Webster	
WEB.T	Chaubunagungamaug Pond - Webster Lake		Webster	
WEB.163	Dietz, Frederick House	9 Aldrich St	Webster	c 1875
WEB.164	Aldrich, George House	15 Aldrich St	Webster	c 1850
WEB.146	Snow, Harvey House	Ash St	Webster	c 1870
WEB.147	Freeman, George and Samuel House	Ash St	Webster	c 1835
WEB.901	B and A Railroad Bridge - Webster Branch	B and A Railroad	Webster	c 1888
WEB.157	Bates, Andrew J. House	Bay View Rd	Webster	r 1885
WEB.937	Boston and Albany Railroad Embankments	Bigelow Rd	Webster	c 1844

Inv. No.	Property Name	Street	Town	Year
WEB.159	Beacon Park Main Building	Birch Island Rd	Webster	1898
WEB.912	Chaubunagungamaug Indian Praying Town Marker	Birch Island Rd	Webster	1930
WEB.165	Aldrich, Samuel P. House	14 Brookline St	Webster	1874
WEB.96	Wood, Darius House	38 Chase Ave	Webster	r 1885
WEB.97	Putnam, John D. House	74 Chase Ave	Webster	1880
WEB.98	Sheldon, Lyman - Greenwood, Francis House	129 Chase Ave	Webster	1869
WEB.99	Joslin - Marble House	Church Ln	Webster	1870
WEB.204	First Congregational Church of Webster	4 Church St	Webster	1955
WEB.166	School Street School	5 Crosby St	Webster	1847
WEB.167	Watson - Palmer House	18 Crosby St	Webster	c 1870
WEB.367	Craver, Edgar House	44 Crosby St	Webster	c 1915
WEB.368	Kaplan, Eli House	47 Crosby St	Webster	c 1930
WEB.2	Cudworth, Lemuel House	Cudworth Rd	Webster	c 1800
WEB.910	North Village Bell	Cudworth Rd	Webster	1884
WEB.80	Edmunds Block - Edmunds Opera House	Davis St	Webster	1867
WEB.86	City Hotel	16 Davis St	Webster	1897
WEB.168	Steutermann - Gerber, Frank House	4 Day St	Webster	c 1873
WEB.269	Saint Anne's Parochial School	12 Day St	Webster	1913
WEB.270	Saint Anne's Roman Catholic Convent	12A Day St	Webster	1884
WEB.29	Slater Woolen Company Overseer House	2 East Main St	Webster	1828
WEB.262	Brown, O. House	10 East Main St	Webster	r 1865
WEB.175	Sacred Heart Roman Catholic Church	12-16 East Main St	Webster	1895
WEB.174	Lyons - Nash House	15 East Main St	Webster	c 1842
WEB.176	Sacred Heart Rectory	18 East Main St	Webster	1895
WEB.177	Beaudry, Dr. F. X. House	27 East Main St	Webster	1888
WEB.178	First Baptist Church of Webster	29 East Main St	Webster	1867
WEB.179	Robinson, Dea. Solomon House	33 East Main St	Webster	1854
WEB.180	Slater Woolen Company Store	35-37 East Main St	Webster	c 1855
WEB.263	Marcy, Emery W. House	39 East Main St	Webster	c 1893
WEB.264	Slater, S. Woolen Mill Worker Housing	40 East Main St	Webster	r 1925
WEB.181	Filmer Grammar School	41 East Main St	Webster	1898
WEB.265	Bixby, A. House	42 East Main St	Webster	r 1850
WEB.182	Ames, Ebenezer House	43 East Main St	Webster	r 1850
WEB.266		49 East Main St	Webster	r 1895
WEB.31	Slater Woolen Company Worker Housing	54 East Main St	Webster	c 1855
WEB.74	Dixon, John Jr. House	75 East Main St	Webster	1841
WEB.75	Rawson, Joseph S. House	77 East Main St	Webster	c 1855

Inv. No.	Property Name	Street	Town	Year
WEB.72	Freeman, Dea. Dyer House	87 East Main St	Webster	c 1857
WEB.22	Wade, Daniel House	128 East Main St	Webster	r 1845
WEB.283		130 East Main St	Webster	r 1885
WEB.284	Slater East Village Mill Worker Housing	138 East Main St	Webster	c 1880
WEB.346	Choiniere, Lou - Ramie, Al House	13 Elm St	Webster	c 1915
WEB.347		15 Elm St	Webster	c 1910
WEB.348	Choiniere, Arthur House	17 Elm St	Webster	c 1915
WEB.349	Schmidt, Emil House	18 Elm St	Webster	c 1897
WEB.350	Grimley, George H. House	21 Elm St	Webster	c 1893
WEB.351	Ashworth - Simons House	23 Elm St	Webster	c 1900
WEB.352	Shaw, Harold House	25 Elm St	Webster	c 1893
WEB.353	Bartlett, C. G. House	26 Elm St	Webster	r 1885
WEB.354	Towne, W. E. House	27 Elm St	Webster	c 1893
WEB.355	Woodward, S. House	30 Elm St	Webster	c 1883
WEB.356	Pickford, James - Pooler, John House	31 Elm St	Webster	c 1912
WEB.357	Shaw, Albert E. House	33 Elm St	Webster	c 1920
WEB.358	Joslin, Ernest A. House	35 Elm St	Webster	c 1917
WEB.359	Czhowski, Frank - Bundeff, Andrew Triple Decker	41 Elm St	Webster	c 1922
WEB.360	Zurawka, Veronica - Biadasz, Stan Triple Decker	43-45 Elm St	Webster	1910
WEB.361	Edmonds, Les Triple Decker	47 Elm St	Webster	c 1910
WEB.362	Klebart, Arthur Triple Decker	49 Elm St	Webster	c 1917
WEB.363		49 1/2 Elm St	Webster	c 1900
WEB.169	Davis, Pardon House	22 Fifth Ave	Webster	r 1850
WEB.173	Emanuel Lutheran Church	7 First St	Webster	1926
WEB.917	Webster First Sunday School Site Marker	Gore Rd	Webster	1976
WEB.911	Slater, Samuel S. Monument	Gore St	Webster	1967
WEB.905	Hub World War II Monument	Granite St	Webster	
WEB.906	Kosciusko, Thaddeus Square Marker	Granite St	Webster	1937
WEB.908	Leagris, Rev. J. Agapit Memorial	Granite St	Webster	1939
WEB.285	DiDonato, Leo House	7 Hartley St	Webster	c 1937
WEB.20	Slater Cambric Mill Worker Housing	8 Hartley St	Webster	r 1855
WEB.286	DiDonato, Leo House	9 Hartley St	Webster	c 1937
WEB.21	Slater East Village Mill Double Worker Housing	10-12 Hartley St	Webster	c 1900
WEB.287	DiDonato, Leo House	11 Hartley St	Webster	c 1939
WEB.288	DiDonato, Leo House	13 Hartley St	Webster	c 1939
WEB.289	Slater East Village Mill Double Worker Housing	14-16 Hartley St	Webster	c 1900
WEB.290	Slater East Village Mill Double Worker Housing	18-20 Hartley St	Webster	c 1900
WEB.291	Slater East Village Mill Double Worker Housing	22-24 Hartley St	Webster	c 1900

Inv. No.	Property Name	Street	Town	Year
WEB.292	Slater East Village Mill Double Worker Housing	26-28 Hartley St	Webster	c 1900
WEB.293	Slater East Village Mill Double Worker Housing	32-34 Hartley St	Webster	c 1900
WEB.294	Slater East Village Mill Double Worker Housing	36-38 Hartley St	Webster	c 1900
WEB.295	Slater East Village Mill Double Worker Housing	40-42 Hartley St	Webster	c 1900
WEB.115	Siegel Hall	132 High St	Webster	1875
WEB.280	Sons of Italy Association Lodge	190 High St	Webster	1938
WEB.133	Corbin, Monroe H. House	353 High St	Webster	r 1865
WEB.132	Plouffe House	11 Hill St	Webster	r 1875
WEB.170	Turverein Society Hall	9 Houghton St	Webster	1895
WEB.1	Kingsbury House	Kingsbury Rd	Webster	r 1775
WEB.207	Saint Constantine and Helen Greek Orthodox Church	Lake Pkwy	Webster	1967
WEB.113	Corbin, Chester C. Public Library	Lake St	Webster	1921
WEB.171	Holy Trinity Catholic Church	Lake St	Webster	1903
WEB.206	Saint Louis Catholic Church	Lake St	Webster	1971
WEB.100	Keith, Parmeneus House	5 Lake St	Webster	c 1835
WEB.198	Robinson, James J. House	57 Lake St	Webster	c 1855
WEB.199	Agnew, Peter House	59 Lake St	Webster	r 1860
WEB.200	Davis, Prince House	61 Lake St	Webster	c 1850
WEB.172	Slater Company Worker Housing	2 Lincoln St	Webster	c 1840
WEB.6	Brown - Stone Farmhouse	Lower Gore Rd	Webster	c 1855
WEB.7	Smith, Reid House	Lower Gore Rd	Webster	1855
WEB.8	Webster's Gore Schoolhouse	Lower Gore Rd	Webster	1821
WEB.9	Rawson, Daniel F. House	Lower Gore Rd	Webster	c 1840
WEB.10	Brown, Josiah - Cooper, Jesse House	Lower Gore Rd	Webster	1828
WEB.11	Simpson, George L. House	Lower Gore Rd	Webster	r 1835
WEB.801	Lakeside Cemetery	Lower Gore Rd	Webster	c 1817
WEB.921	Campbell-Roxbury Free School Grants Boundary Wall	Lower Gore Rd	Webster	1718
WEB.935	Gore Reform Methodist Church Site Marker	Lower Gore Rd	Webster	1972
WEB.77	Norwich and Worcester Railroad Freight House	Main St	Webster	1845
WEB.216	Hotel DeWitt - Sheldon Hotel	Main St	Webster	1846
WEB.931	The Great Bridge	Main St	Webster	1868
WEB.936	Guenther, Charles R. Square Marker	Main St	Webster	1923
WEB.337	Webster and Southbridge Gas and Electric Company	7-9 Main St	Webster	1914
WEB.338		38-42 Main St	Webster	r 1895
WEB.257		42-45 Main St	Webster	
WEB.339		56 Main St	Webster	r 1900

Inv. No.	Property Name	Street	Town	Year
WEB.83	Shumway Block	112-116 Main St	Webster	1886
WEB.340	Morehouse Block	118-120 Main St	Webster	r 1865
WEB.81	Eddy Block	119-131 Main St	Webster	1878
WEB.78	Wiswall, Artemus Store - Stockwell Block	140-145 Main St	Webster	c 1830
WEB.79	Spaulding Block	141-143 Main St	Webster	1866
WEB.87	Joslin House Hotel	168 Main St	Webster	1940
WEB.94	Gilles Block	175 Main St	Webster	c 1925
WEB.95	Tiffany Block	183 Main St	Webster	1926
WEB.90	Cook Block	201 Main St	Webster	1905
WEB.89	Racicot Block	211-219 Main St	Webster	1905
WEB.88	Tiffany Block	225 Main St	Webster	1900
WEB.85	Columbia Block	228-230 Main St	Webster	1892
WEB.223		240-242 Main St	Webster	c 1875
WEB.84	Tracy Block	241 Main St	Webster	1888
WEB.224		248 Main St	Webster	r 1915
WEB.91	Larchar - Branch Block	251 Main St	Webster	1912
WEB.225		256-262 Main St	Webster	r 1915
WEB.92	Holden Block	267-283 Main St	Webster	1921
WEB.226		268 Main St	Webster	r 1915
WEB.227	Hall Block	274 Main St	Webster	r 1915
WEB.222	Patenaude Block	283-289 Main St	Webster	r 1905
WEB.341	Webster Five Cent Savings Bank	290 Main St	Webster	1955
WEB.93	Dugan Block	299 Main St	Webster	1922
WEB.114	Webster Municipal Building	350 Main St	Webster	1928
WEB.903	Webster Civil War Soldiers and Sailors Monument	350 Main St	Webster	1907
WEB.916	Snow's Corner Horse Trough	350 Main St	Webster	r 1900
WEB.952	Veterans' Court of Honor	350 Main St	Webster	c 1974
WEB.953	Korean War Memorial	350 Main St	Webster	1953
WEB.954	Civil War Howitzer	350 Main St	Webster	c 1865
WEB.955	Webster Plaza Gazebo	350 Main St	Webster	2000
WEB.956	Webster Plaza Iron Fence	350 Main St	Webster	c 1920
WEB.342		357 Main St	Webster	c 1910
WEB.343	Vito, Anthony Block	367-385 Main St	Webster	1926
WEB.203	Davis - Bartolomei Block	407 Main St	Webster	r 1845
WEB.34	Joslin, Asher House	464-472 Main St	Webster	r 1845
WEB.58	Slater Company Pearl Street Worker Housing	5-7 Market St	Webster	c 1856
WEB.320		8-14 Market St	Webster	r 1885

Inv. No.	Property Name	Street	Town	Year
WEB.239	Slater Company Pearl Street Worker Housing	9-11 Market St	Webster	c 1856
WEB.240	Slater Company Pearl Street Worker Housing	15 Market St	Webster	c 1856
WEB.59	Slater Company Pearl Street Worker Housing	16-24 Market St	Webster	r 1885
WEB.50	Slater Company Stone Mill Double Worker Housing	17-19 Market St	Webster	c 1856
WEB.49	Slater Company Stone Mill Double Worker Housing	21-23 Market St	Webster	c 1856
WEB.235	Slater Company Pearl Street Worker Housing	26-30 Market St	Webster	r 1885
WEB.51	Slater Company Pearl Street Double Worker Housing	32-34 Market St	Webster	r 1885
WEB.47	Slater Company Stone Mill Double Worker Housing	36-40 Market St	Webster	r 1850
WEB.40	Phoenix Thread Company Mill Mule Room	37 Market St	Webster	r 1835
WEB.48	Slater Company Stone Mill Double Worker Housing	42-46 Market St	Webster	r 1850
WEB.109	Haven - Cocks House	14 Mechanic St	Webster	r 1855
WEB.110	Davis, William H. House	24 Mechanic St	Webster	1872
WEB.920	World War II Memorial Beach Flagpole	Memorial Beach	Webster	1952
WEB.160	Webster Pumping Station	Memorial Beach Dr	Webster	1893
WEB.281	World War II Memorial Beach Bath House	Memorial Beach Dr	Webster	1952
WEB.973	Clearwell Building	Memorial Beach Dr	Webster	1893
WEB.915	Urbanowski, Joseph and Edward Square Memorial	Memorial Park Dr	Webster	
WEB.42	Slater #6 Weave Mill and Boiler House	Mill St	Webster	r 1896
WEB.43	Slater Cotton Weave Mill #7	Mill St	Webster	c 1913
WEB.323	North Village Cotton Mill Wheel House	Mill St	Webster	1914
WEB.324	North Village Cotton Mill #2 Engine Room	Mill St	Webster	r 1905
WEB.926	North Village Cotton Mill Dam	Mill St	Webster	c 1810
WEB.927	North Village Cotton Mill Canal and Raceway	Mill St	Webster	r 1820
WEB.950	Slater Cotton Mill Smokestack	Mill St	Webster	
WEB.951	Slater Cotton Mill Wheel House Fragment	Mill St	Webster	r 1840
WEB.321	Slater Company Mill Housing	3-13 Mill St	Webster	r 1905
WEB.55	Slater Company Boarding House	4-10 Mill St	Webster	r 1860
WEB.45	Slater Company Mill Housing	7 Mill St	Webster	c 1825
WEB.322	Slater Company Mill Housing	15 Mill St	Webster	r 1860
WEB.232	Slater Company Mill Housing	17 Mill St	Webster	c 1825
WEB.233	Slater, Lydia Robinson Worker Housing	21 Mill St	Webster	c 1825
WEB.41	Slater Company Cotton Mill #3	26 Mill St	Webster	r 1905
WEB.933	Webster Bicentennnial Square Marker	Mine Brook Rd	Webster	1976
WEB.364		46 Myrtle St	Webster	c 1900

Inv. No.	Property Name	Street	Town	Year
WEB.365	Hawkinson, Nathaniel P. House	48 Myrtle St	Webster	c 1893
WEB.366	Ferris, Benjamin K. House	51 Myrtle St	Webster	c 1893
WEB.101	Chase, John - Rawson, James House	4 Negus St	Webster	r 1860
WEB.102	Spaulding, Cyrus House	6 Negus St	Webster	1876
WEB.103	Methodist - Episcopal Church Parsonage	7 Negus St	Webster	c 1850
WEB.104	Houghton, Lewis House	8 Negus St	Webster	1852
WEB.105	Lamb, Josiah Quincy House	10 Negus St	Webster	r 1860
WEB.202	Corbin, B. A. Shoe Factory Building	13 Negus St	Webster	r 1860
WEB.112	Bartlett High School	29 Negus St	Webster	1905
WEB.106	Bartlett, Rufus House	34 Negus St	Webster	c 1870
WEB.107	Carey, John House	40 Negus St	Webster	r 1860
WEB.108	Carney - McQuaid House	42 Negus St	Webster	1870
WEB.183	Zion Lutheran Church	Nelson St	Webster	1895
WEB.208	Slater Company Mill Street Worker Housing	North Main St	Webster	c 1850
WEB.209	Slater Company Mill Street Worker Housing	North Main St	Webster	c 1850
WEB.259	North Village Schoolhouse	North Main St	Webster	1880
WEB.902	North Village Bridge - North Main Street Bridge	North Main St	Webster	1871
WEB.38	Church of the Reconciliation	5 North Main St	Webster	1870
WEB.39	Slater, James Howe Parish House	5 North Main St	Webster	1898
WEB.184		20 North Main St	Webster	c 1905
WEB.304	Thompson, William House	22 North Main St	Webster	r 1850
WEB.185	Hanley, Michael and James House	30-32 North Main St	Webster	r 1840
WEB.305		36 North Main St	Webster	r 1850
WEB.187	Northeast Dudley Schoolhouse	55 North Main St	Webster	r 1825
WEB.186	Moore, Lydia House	60 North Main St	Webster	c 1850
WEB.271	Dugan, James House	64-66 North Main St	Webster	r 1885
WEB.272	Breen, Patrick House	65 North Main St	Webster	c 1879
WEB.273	Ryan, Elizabeth House	73 North Main St	Webster	c 1899
WEB.274	Masse, Exaure - Hyland, Joseph House	76-78 North Main St	Webster	c 1920
WEB.275	Reagan, Isaac House	82 North Main St	Webster	r 1885
WEB.276	Lavassoeur, Joseph House	84 North Main St	Webster	c 1921
WEB.277		94 North Main St	Webster	r 1925
WEB.278		98 North Main St	Webster	r 1925
WEB.65	May, Edwin House	131 North Main St	Webster	c 1850
WEB.66	Chase, John House	135 North Main St	Webster	r 1850
WEB.67	Phetteplace, Wyman E. House	146 North Main St	Webster	c 1870
WEB.68	Bates, Capt. T. K. House	148 North Main St	Webster	1870
WEB.325		160 North Main St	Webster	r 1905

Inv. No.	Property Name	Street	Town	Year
WEB.53	Slater Company North Main Street Worker Housing	185 North Main St	Webster	r 1840
WEB.54	Slater Company North Main Street Worker Housing	193-195 North Main St	Webster	r 1865
WEB.326		194 North Main St	Webster	r 1885
WEB.52	Slater Company North Main Street Worker Housing	201-203 North Main St	Webster	r 1840
WEB.64	Slater Company Superintendent House	202-204 North Main St	Webster	r 1875
WEB.56	Sullivan, John Grocery Store	215 North Main St	Webster	r 1890
WEB.44	Slater, George House	216 North Main St	Webster	1827
WEB.57	Slater, Horatio N. Company Double Worker Housing	221-223 North Main St	Webster	1897
WEB.236	Slater, Horatio N. Company Double Worker Housing	225-227 North Main St	Webster	1897
WEB.237	Slater, Horatio N. Company Double Worker Housing	229-231 North Main St	Webster	1897
WEB.238	Slater, Horatio N. Company Double Worker Housing	233-235 North Main St	Webster	1897
WEB.327		239 North Main St	Webster	r 1840
WEB.328	Slater, Horatio N. Company Worker Housing	241-243 North Main St	Webster	r 1840
WEB.329		249 North Main St	Webster	r 1865
WEB.69	Slater - Davis, Abijah Farmhouse	256 North Main St	Webster	r 1825
WEB.928	Old Thompson Road	Old Thompson Rd	Webster	c 1780
WEB.929	Old Thompson Road Remnant	Old Thompson Rd	Webster	c 1780
WEB.5	Larned, Isaac Farmhouse	Old Worcester Rd	Webster	c 1850
WEB.806	Saint Joseph Roman Catholic Cemetery	Old Worcester Rd	Webster	1889
WEB.188	Esten, Olney - Collins House	189 Oxford Ave	Webster	c 1820
WEB.391	Collins House	198 Oxford Ave	Webster	r 1845
WEB.907	Jablonski, Sgt. John Square Marker	Park Ave	Webster	c 1974
WEB.934	Borus, Felix E. Square Marker	Park Ave	Webster	1958
WEB.189	Bates, Andrew J. House	10 Park St	Webster	c 1880
WEB.190	Advent Church	24 Park St	Webster	1884
WEB.70	Perry Yarn Mill	21-37 Pearl St	Webster	1900
WEB.330		28 Pearl St	Webster	c 1900
WEB.331	Intervale Mills - Anglo Fabrics Mill	35-41 Pearl St	Webster	1900
WEB.148	Perryville Trolley Car Station	Perryville Rd	Webster	1898
WEB.150	Perry, Josiah Mill Worker Housing	Perryville Rd	Webster	r 1885
WEB.151	Perry, Charles H. Mill Worker Housing	Perryville Rd	Webster	r 1885
WEB.149	Perryville Woolen Mill Storage Shed	0 Perryville Rd	Webster	1874
WEB.941	Slater and Sons Woolen Mill Tenement	Peter St	Webster	r 1860

Inv. No.	Property Name	Street	Town	Year
	Foundations			
WEB.306	Slater and Sons Mill #5	10 Peter St	Webster	c 1903
WEB.904	Jericho Bridge	Pleasant St	Webster	1892
WEB.158	Bates, Andrew J. House	Point Breeze Rd	Webster	c 1880
WEB.296		66 Pond Ct	Webster	c 1920
WEB.19	Slater Mill Pond Worker Housing	67-72 Pond Ct	Webster	r 1880
WEB.258	Slater Mill Pond Worker Housing	67-72 Pond Ct	Webster	r 1865
WEB.30	Slater Woolen Company Barn	Prospect St	Webster	r 1885
WEB.37	Rock Castle School	Prospect St	Webster	1871
WEB.192	Thompson School	Prospect St	Webster	1912
WEB.191	Joslin, Asher House	13 Prospect St	Webster	1874
WEB.193	Walker, Edward R. House	18 Prospect St	Webster	c 1850
WEB.307	Mollard - Holland, J. House	24 Prospect St	Webster	c 1850
WEB.308	Dusaume, Samuel House	26 Prospect St	Webster	r 1885
WEB.309	King, H. C. Boarding House	32 Prospect St	Webster	c 1892
WEB.33	Slater and Howard Woolen Company Worker Housing	38 Prospect St	Webster	c 1828
WEB.255	Slater and Howard Woolen Company Worker Housing	42 Prospect St	Webster	c 1828
WEB.310		46 Prospect St	Webster	c 1893
WEB.311	Slater and Howard Woolen Company Worker Housing	75-79 Prospect St	Webster	r 1885
WEB.389	World War II Memorial Athletic Fieldhouse	Ray St	Webster	1950
WEB.919	World War II Memorial Athletic Field	Ray St	Webster	1950
WEB.111	Wood, Darius House	7 River Ct	Webster	c 1875
WEB.261		12 River Ct	Webster	
WEB.201	Slater, Horatio N. Company Cambric Works	Route 16	Webster	c 1825
WEB.205	School Street Fire Station	School St	Webster	1874
WEB.82	Bates Block	17 School St	Webster	1885
WEB.116	Burnham, J. Byron House	116 School St	Webster	1883
WEB.117	Howard, Prentiss House	151 School St	Webster	c 1897
WEB.118	Congregational Church Parsonage	203 School St	Webster	r 1847
WEB.119	Lamb, Liberty House	212 School St	Webster	1886
WEB.120	Haven - Lobban House	269 School St	Webster	r 1855
WEB.121	Brown, Frederick Davis House	318 School St	Webster	r 1850
WEB.122	Joslin, Nathan House	340 School St	Webster	1872
WEB.123	Day, John H. House	352 School St	Webster	c 1860
WEB.124	Day, Augustas Eddy House	360 School St	Webster	1867
WEB.125	Baker, Franklin House	366 School St	Webster	r 1894

Inv. No.	Property Name	Street	Town	Year
WEB.126	Boyden, Sanford House	381 School St	Webster	1870
WEB.127	Prout, Patrick House	416 School St	Webster	c 1870
WEB.128	Ellis - Niles House	429-433 School St	Webster	c 1860
WEB.129	District Five Schoolhouse	449 School St	Webster	1835
WEB.130	Snow, Andrew J. House	449 School St	Webster	1868
WEB.131	Moore, Rufus House	479 School St	Webster	r 1815
WEB.134	Wood, Willis House	498 School St	Webster	r 1815
WEB.135	Knowlton, Asahel House	510 School St	Webster	r 1850
WEB.136	Brandes, Henry House	557 School St	Webster	c 1870
WEB.137	Klebart, E. House	575 School St	Webster	
WEB.392	Johnson, James House	576-578 School St	Webster	r 1850
WEB.139	Houghton, Amasa House	595 School St	Webster	c 1836
WEB.140	Johnson, Waldo - Regan, James House	630 School St	Webster	c 1870
WEB.369	Klebart, William C. House	709 School St	Webster	c 1915
WEB.141	Smith, Henry E. Jr. - Tiffany, Luman House	749 School St	Webster	c 1909
WEB.370	Sears, Frank House	750 School St	Webster	c 1920
WEB.371	Nash, Maude E. House	768 School St	Webster	c 1915
WEB.142	Smith, H. R. - Trowbridge, David House	779 School St	Webster	r 1860
WEB.372	Smith, H. R. - Trowbridge, David Barn	779 School St	Webster	r 1860
WEB.373	Holmes, William House	790 School St	Webster	c 1915
WEB.374	Hubbard, Ralph K. House	791 School St	Webster	r 1925
WEB.375	Cleveland, Eben S. House	794 School St	Webster	c 1920
WEB.376	Piehler, Otto House	805 School St	Webster	c 1925
WEB.377	Riebe, Ferdinand C. House	821 School St	Webster	c 1900
WEB.378	Day, J. - Cleveland, Clarence House	824 School St	Webster	r 1865
WEB.379	Cleveland, Clarence Garage	824 School St	Webster	r 1915
WEB.380	American Woolen Company Worker Housing	835 School St	Webster	c 1921
WEB.381	Batten, William - Partridge, Everett House	844 School St	Webster	r 1880
WEB.382	Batten, William - Partridge, Everett Barn	844 School St	Webster	r 1880
WEB.383	Pattison, Edwin House	851 School St	Webster	r 1915
WEB.143	Converse, Amanda L. House	929 School St	Webster	c 1875
WEB.144	Jepson House	938 School St	Webster	c 1855
WEB.145	Brackett - Snow House	1083 School St	Webster	r 1825
WEB.918	Slater, William Strutt Memorial Park Marker	Slater St	Webster	1949
WEB.76		6 Slater St	Webster	r 1840
WEB.73	Sacred Heart Roman Catholic Church Parsonage	8 Slater St	Webster	1870
WEB.242	Slater Company Pearl Street Worker Housing	34-39 Slater St	Webster	r 1880

Inv. No.	Property Name	Street	Town	Year
WEB.62	Slater Company Overseer House	36-38 Slater St	Webster	c 1900
WEB.243	Slater Company Pearl Street Worker Housing	40-43 Slater St	Webster	r 1880
WEB.251	Slater Company Overseer House	40-42 Slater St	Webster	c 1900
WEB.252	Slater Company Overseer House	44-46 Slater St	Webster	c 1900
WEB.253	Slater Company Overseer House	48-50 Slater St	Webster	c 1900
WEB.254	Slater Company Overseer House	52-54 Slater St	Webster	c 1900
WEB.60	Slater Company Slater Street Double Worker Housing	85-87 Slater St	Webster	r 1860
WEB.71	Walker, Erie House	85 Slater St	Webster	1870
WEB.332	Slater Company Slater Street Worker Housing	86 Slater St	Webster	r 1840
WEB.248	Slater Company Slater Street Worker Housing	89-91 Slater St	Webster	r 1860
WEB.333	Slater Company Slater Street Worker Housing	90 Slater St	Webster	r 1820
WEB.46	Slater and Howard Company Double Worker Housing	92-94 Slater St	Webster	c 1825
WEB.234	Slater and Howard Company Double Worker Housing	93-95 Slater St	Webster	r 1825
WEB.36	Barrows, Erastus - Bell, John House	South Main St	Webster	c 1850
WEB.930	South Village Mill Raceway and Flume Gate	South Main St	Webster	c 1822
WEB.949	New England Railroad Bridge Abutments	South Main St	Webster	c 1865
WEB.312	Place Motors Showroom	469 South Main St	Webster	r 1930
WEB.35	Bartlett, Asa House	516 South Main St	Webster	c 1850
WEB.313		529 South Main St	Webster	r 1905
WEB.314	Slater and Howard Woolen Company Worker Housing	533 South Main St	Webster	r 1860
WEB.228	Slater and Howard Woolen Company Worker Housing	547 South Main St	Webster	c 1822
WEB.229	Slater and Howard Woolen Company Worker Housing	563 South Main St	Webster	c 1822
WEB.563	Slater and Howard Woolen Company Worker Housing	563 South Main St	Webster	c 1822
WEB.26	Slater and Howard Woolen Company Worker Housing	577-579 South Main St	Webster	c 1822
WEB.27	Slater Woolen Company Worker Housing	578 South Main St	Webster	r 1855
WEB.315	Nap's Diner	593-595 South Main St	Webster	1931
WEB.316		593-595 South Main St	Webster	r 1885
WEB.230	Slater Woolen Company Worker Housing	594 South Main St	Webster	r 1855
WEB.28	Slater Woolen Company Double Worker Housing	613-615 South Main St	Webster	c 1822
WEB.317	J. G. Motor Sales	626 South Main St	Webster	r 1955
WEB.942	J. G. Motor Sales Sign	626 South Main St	Webster	r 1955
WEB.231	Slater Woolen Company Double Worker Housing	629-631 South Main St	Webster	c 1822

Inv. No.	Property Name	Street	Town	Year
WEB.23	Slater Woolen Company - Spinning and Carding Mill	661 South Main St	Webster	1876
WEB.24	Slater Woolen Company - Piece Dye House #13	661 South Main St	Webster	1876
WEB.32	Slater Woolen Mill Company Store	661 South Main St	Webster	c 1850
WEB.318	Slater and Sons Woolen Mill #4	661 South Main St	Webster	1892
WEB.319	Slater Woolen Company - Engine and Boiler House	661 South Main St	Webster	1895
WEB.944	Slater Woolen Company Stone Retaining Walls	661 South Main St	Webster	1822
WEB.945	Slater Woolen Company Canal	661 South Main St	Webster	1822
WEB.946	Slater Woolen Company Dam	661 South Main St	Webster	1822
WEB.947	Slater and Sons Woolen Mill Bridge to Weave Shed	661 South Main St	Webster	c 1916
WEB.948	Slater and Sons Woolen Mill #4 Bridge	661 South Main St	Webster	1893
WEB.61	Slater Company River Street Worker Housing	8 Starzec Dr	Webster	r 1865
WEB.334	Slater Company River Street Worker Housing	10 Starzec Dr	Webster	r 1865
WEB.335	Slater Company River Street Worker Housing	12 Starzec Dr	Webster	r 1865
WEB.282		20 Stoughton Ave	Webster	c 1925
WEB.3	Emerson, Augustus - Dudley, Reuben House	Sutton Rd	Webster	c 1865
WEB.800	Kingsbury Family Burial Ground	Sutton Rd	Webster	c 1812
WEB.900	Grand Trunk Railroad	Sutton Rd	Webster	1912
WEB.909	Nessmuck Monument	Sutton Rd	Webster	1976
WEB.4	Tanner, William B. House	Tanner Rd	Webster	c 1840
WEB.152	Bates, Alanson Jr. Farmhouse	Thompson Rd	Webster	c 1825
WEB.153	Bugbee, Henry Fielder House	Thompson Rd	Webster	1850
WEB.154	Bates, Orson House	Thompson Rd	Webster	1850
WEB.155	Bates, Capt. John House	Thompson Rd	Webster	c 1775
WEB.156	Bates - Alton House	Thompson Rd	Webster	r 1840
WEB.17	Slater East Village Stone Mill Worker Housing	10-12 Thompson Rd	Webster	r 1825
WEB.18	Slater East Village Stone Mill Worker Housing	11-15 Thompson Rd	Webster	r 1825
WEB.297	Slater East Village Mill Double Worker Housing	16-18 Thompson Rd	Webster	c 1870
WEB.344	Webster Electric Company Gas Compressor Station	65 Union St	Webster	r 1910
WEB.279	Webster Fruit Company Warehouse	10 Upland Ave	Webster	r 1915
WEB.923	Gore Pound	Upper Gore Rd	Webster	r 1780
WEB.267	Corbin, G. House	7 Wakefield St	Webster	c 1880
WEB.268	Sellig, Charles House	11 Wakefield St	Webster	r 1875
WEB.194	Corbin, George House	14 Wakefield St	Webster	1893
WEB.390	4-6 Park Street	4-6 Webster St	Webster	
WEB.345	Webster and Southbridge Gas and Electric	12 Wellington St	Webster	r 1925

Inv. No.	Property Name	Street	Town	Year
	Warehouse			
WEB.196	Saint Joseph's Roman Catholic Church	Whitcomb St	Webster	1913
WEB.195	Meyers, William House	24 Whitcomb St	Webster	r 1880
WEB.197	Parent House	59 Whitcomb St	Webster	c 1870
WEB.802	Mount Zion Cemetery	Worcester Rd	Webster	1836
WEB.804	Sacred Heart Roman Catholic Cemetery	Worcester Rd	Webster	1890
WEB.805	Saint Anthony de Padua Roman Catholic Cemetery	Worcester Rd	Webster	1945
WEB.932	Albetski, Felix John Square Marker	Worcester Rd	Webster	
WEB.298	Slater East Village Mill Building B	2 Worcester Rd	Webster	1846
WEB.299	Slater East Village Mill Bleach House	2 Worcester Rd	Webster	1907
WEB.300	Slater East Village Mill Building D	2 Worcester Rd	Webster	1907
WEB.301	Slater East Village Mill Building E	2 Worcester Rd	Webster	1914
WEB.302	Slater East Village Mill Pump House	2 Worcester Rd	Webster	r 1905
WEB.384	Slater East Village Mill Chemical Storage Bldg #37	2 Worcester Rd	Webster	c 1920
WEB.385	Slater East Village Mill Fire House	2 Worcester Rd	Webster	1978
WEB.386	Slater East Village Mill Warehouse B-C	2 Worcester Rd	Webster	1973
WEB.387	Slater East Village Mill Waste Treatment Building	2 Worcester Rd	Webster	1974
WEB.388	Slater East Village Mill Blower Building	2 Worcester Rd	Webster	1991
WEB.913	Slater, Samuel S. and Son - Green Mill Bell Tower	2 Worcester Rd	Webster	c 1875
WEB.922	East Village Cotton Mill Raceway	2 Worcester Rd	Webster	c 1812
WEB.938	Slater East Village Mill Boiler Stack	2 Worcester Rd	Webster	
WEB.939	Slater East Village Mill Equipment	2 Worcester Rd	Webster	
WEB.940	Slater East Village Mill Bell	2 Worcester Rd	Webster	1877
WEB.12	Slater East Village Mill Company Store	15 Worcester Rd	Webster	r 1815
WEB.13	Slater Green Mill Double Worker Housing	19-21 Worcester Rd	Webster	r 1820
WEB.14	Slater Green Mill Double Worker Housing	23-25 Worcester Rd	Webster	r 1820
WEB.16	Slater Green Mill Worker Housing	37 Worcester Rd	Webster	r 1815
WEB.303	Webster Nursery	41 Worcester Rd	Webster	c 1940
WEB.15	Slater Green Mill Worker Housing	52 Worcester Rd	Webster	r 1825

Appendix F

Sanitary Sewer Overflow Inventory

Appendix F - Inventory of Sanitary Sewer Overflows

The Town of Webster's SSO inventory for the previous 5 years is available in the most recent Annual Report in Appendix I.

Appendix G

Plan Amendment Log

STORMWATER MANAGEMENT PLAN
AMENDMENT LOG

Amend. No.	Description of the Amendment	Date of Amendment	Amendment Prepared by (Name/Signature)
1	The Illicit Discharge Detection and Elimination Plan, Municipal Good Housekeeping and Pollution Prevention Program, and Highway Department Facility Stormwater Pollution Prevention Plan were updated for compliance with the final 2016 General Permit requirements, as outlined in a letter dated January 25, 2021.	January 2021	Emily Scerbo, PE Senior Project Manager Tighe&Bond

2	The Stormwater Management Plan has been amended as follows:
	• Updated Workplan for Permit Year 3 activities and to reflect changes to impaired waters
	• Updated Stormwater Management Program Team to reflect staff changes
	• Updated impaired waters requirements based on the 2016 303(d) List:
	  ○ Requirements of Appendix H, Section V – solids are no longer applicable because the turbidity impairment for French River (MA42-06) was removed from the 2016 303(d) List. Therefore, turbidity was removed from the "TMDLs and Water Quality Limited Waters" SWMP section.
	  ○ French River MA42-05 and MA42-06 were removed as applicable receiving waterbodies for a bacteria/pathogens impairment because the fecal coliform impairment was removed from the 2016 303(d) List.
	• Updated MS4 Record Keeping log in Appendix I
	• Added the Year 1, Year 2, and Year 3 Annual Reports and associated attachments to Appendix I
	• Added the Phase I MS4 System Map to Appendix I
		November 2021	Cassandra LaRochelle, PE
			Project Engineer
			Tighe&Bond

3	The **Stormwater Management Plan** has been amended as follows: • Updated Workplan for Permit Year 4 activities • Updated Stormwater Management Program Team to reflect staff changes • Updated Plan Amendment Log in Appendix G • Updated MS4 Record Keeping in Appendix I • Added the Year 4 Annual Report and associated Attachments to Appendix I	October 2022	Cassandra LaRochelle, PE Project Manager Tighe&Bond

Amend. No.	Description of the Amendment	Date of Amendment	Amendment Prepared by (Name/Signature)
4	The **Stormwater Management Plan** has been amended as follows: • Updated Workplan for Permit Year 5 activities • Updated Stormwater Management Program Team to reflect staff changes • Added French Brook (MA42-06) to bacteria impairment discussions • Updated Plan Amendment Log in Appendix G • Updated MS4 Record Keeping in Appendix I • Added the Year 5 Annual Report and associated Attachments to Appendix I The **IDDE Plan** has been amended as follows: • Updated Impaired Waters and TMDLs in Appendix G to reflect the 2018/2020 and 2022 303(d) lists • Updated the SSO Inventory in Appendix H • Added Dry Weather Screening Field Effort Summaries Addendum 1 (2022 Field Work) and Addendum 2 (2023 Field Work) to Appendix H	October 2023	Emily Scerbo, PE Vice President Tighe&Bond
5	The **Stormwater Management Plan** has been amended as follows: • Updated Stormwater Management Program Team to reflect staff changes • Updated Plan Amendment Log in Appendix G • Updated MS4 Record Keeping in Appendix I • Added the Year 6 Annual Report and associated Attachments to Appendix I The **IDDE Plan** has been amended as follows: • Updated the SSO Inventory in Appendix H • Added Dry Weather Screening & Catchment Investigations Field Effort Summaries Addendum 3 to Appendix H	November 2024	Emily Scerbo, PE Vice President Tighe&Bond

Amend. No.	Description of the Amendment	Date of Amendment	Amendment Prepared by (Name/Signature)
6	The **Stormwater Management Plan** has been amended as follows: • Removed 5-Year Workplan as it is beyond Permit Year 5 • MCMs 1-6 – checked off completed BMPs and added document links/titles • Updated Plan Amendment Log in Appendix G • Updated MS4 Record Keeping and added the Year 7 Annual Report with associated attachments to Appendix I The **IDDE Plan** has been amended as follows: • Added Dry Weather Screening & Catchment Investigations Field Effort Summaries Addendum 4 to Appendix H	October 2025	Melissa Recos, PE Senior Project Manager Tighe&Bond
7			
8			
9			
10			

Appendix H

Reference Documents

Pollutant Impacts on Water Quality	
Sediment	Sediment is a common component of stormwater, and can be a pollutant. Sediment can be detrimental to aquatic life (primary producers, benthic invertebrates, and fish) by interfering with photosynthesis, respiration, growth, reproduction, and oxygen exchange in water bodies. Sediment can transport other pollutants that are attached to it including nutrients, trace metals, and hydrocarbons. Sediment is the primary component of total suspended solids (TSS), a common water quality analytical parameter.
Nutrients	Nutrients including nitrogen and phosphorous are the major plant nutrients used for fertilizing landscapes, and are often found in stormwater. These nutrients can result in excessive or accelerated growth of vegetation, such as algae, resulting in impaired use of water in lakes and other sources of water supply. For example, nutrients have led to a loss of water clarity in Lake Tahoe. In addition, un-ionized ammonia (one of the nitrogen forms) can be toxic to fish.
Bacteria and Viruses	Bacteria and viruses are common contaminates of stormwater. For separate storm drain systems, sources of these contaminants include animal excrement and sanitary sewer overflow. High levels of indicator bacteria in stormwater have led to the closure of beaches, lakes, and rivers to contact recreation such as swimming.
Oil and Grease	Oil and grease includes a wide array of hydrocarbon compounds, some of which are toxic to aquatic organisms at low concentrations. Sources of oil and grease include leakage, spills, cleaning and sloughing associated with vehicle and equipment engines and suspensions, leaking and breaks in hydraulic systems, restaurants, and waste oil disposal.
Metals	Metals including lead, zinc, cadmium, copper, chromium, and nickel are commonly found in stormwater. Many of the artificial surfaces of the urban environment (e.g., galvanized metal, paint, automobiles, or preserved wood) contain metals, which enter stormwater as the surfaces corrode, flake, dissolve, decay, or leach. Over half the trace metal load carried in stormwater is associated with sediments. Metals are of concern because they are toxic to aquatic organisms, can bioaccumulate (accumulate to toxic levels in aquatic animals such as fish), and have the potential to contaminate drinking water supplies.
Organics	Organics may be found in stormwater at low concentrations. Often synthetic organic compounds (adhesives, cleaners, sealants, solvents, etc.) are widely applied and may be improperly stored and disposed. In addition, deliberate dumping of these chemicals into storm drains and inlets causes environmental harm to waterways.
Pesticides	Pesticides (including herbicides, fungicides, rodenticides, and insecticides) have been repeatedly detected in stormwater at toxic levels, even when pesticides have been applied in accordance with label instructions. As pesticide use has increased, so too have concerns about the adverse effects of pesticides on the environment and human health. Accumulation of these compounds in simple aquatic organisms, such as plankton, provides an avenue for biomagnification through the food web, potentially resulting in elevated levels of toxins in organisms that feed on them, such as fish and birds.
Gross Pollutants	Gross Pollutants (trash, debris and floatables) may include heavy metals, pesticides, and bacteria in stormwater. Typically resulting from an urban environment, industrial sites and construction sites, trash and floatables may create an aesthetic “eye sore” in waterways. Gross pollutants also include plant debris (such as leaves and lawn-clippings from landscape maintenance), animal excrement, street litter, and other organic matter. Such substances may harbor bacteria, viruses, vectors, and depress the dissolved oxygen levels in streams, lakes and estuaries sometimes causing fish kills.
Vector Production	Vector production (e.g., mosquitoes, flies, and rodents) is frequently associated with sheltered habitats and standing water. Unless designed and maintained properly, standing water may occur in treatment control BMP’s for 72 hours or more, thus providing a source for vector habitat and reproduction (Metzger, 2002).

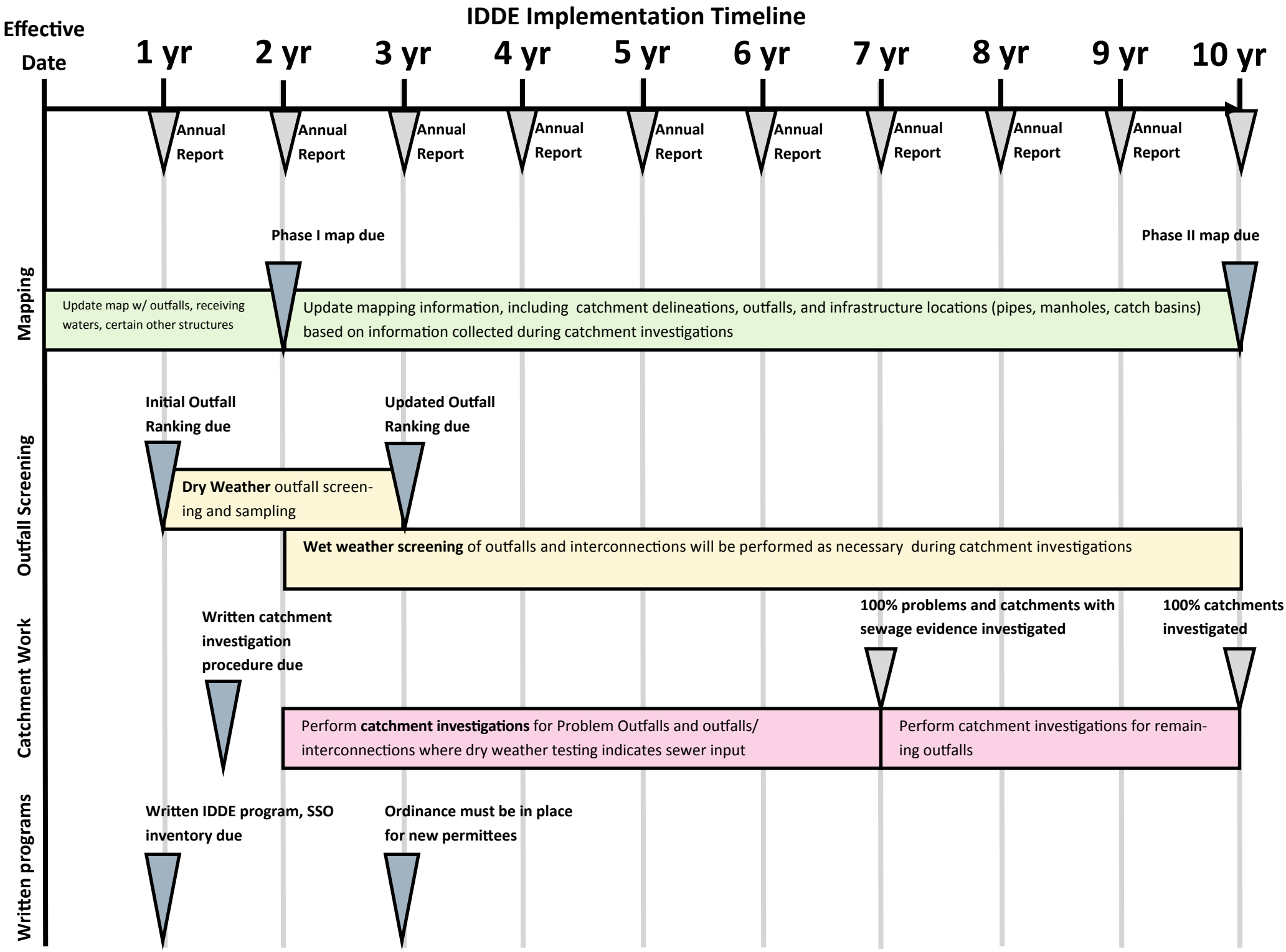
Source: California Stormwater Quality Association, Stormwater BMP Handbook, 2003.

Potential pollutants likely associated with specific *municipal facilities*

Municipality Facility Activity	Potential Pollutants								
	Sediment	Nutrients	Trash	Metals	Bacteria	Oil & Grease	Organics	Pesticides	Oxygen Demanding Substances
Building and Grounds Maintenance and Repair	X	X	X	X	X	X	X	X	X
Parking/Storage Area Maintenance	X	X	X	X	X	X	X		X
Waste Handling and Disposal	X	X	X	X	X	X	X	X	X
Vehicle and Equipment Fueling			X	X		X	X		
Vehicle and Equipment Maintenance and Repair				X		X	X		
Vehicle and Equipment Washing and Steam Cleaning	X	X	X	X		X	X		
Outdoor Loading and Unloading of Materials	X	X	X	X		X	X	X	X
Outdoor Container Storage of Liquids		X		X		X	X	X	X
Outdoor Storage of Raw Materials	X	X	X			X	X	X	X
Outdoor Process Equipment	X		X	X		X	X		
Overwater Activities			X	X	X	X	X	X	X
Landscape Maintenance	X	X	X		X			X	X
Source: California Stormwater BMP Handbook (http://www.cabmphandbooks.com/)(slightly modified)									

Potential pollutants likely associated with *municipal activities*

Municipal Program	Activities	Potential Pollutants								
		Sediment	Nutrients	Trash	Metals	Bacteria	Oil & Grease	Organics	Pesticides	Oxygen Demanding Substances
Roads, Streets, and Highways Operation and Maintenance	Sweeping and Cleaning	X		X	X		X			X
	Street Repair, Maintenance, and Striping/Painting	X		X	X		X	X		
	Bridge and Structure Maintenance	X		X	X		X	X		
Plaza, Sidewalk, and Parking Lot Maintenance and Cleaning	Surface Cleaning	X	X			X	X			X
	Graffiti Cleaning	X	X		X			X		
	Sidewalk Repair	X		X						
	Controlling Litter	X		X		X	X			X
Fountains, Pools, Lakes, and Lagoons Maintenance	Fountain and Pool Draining		X					X		
	Lake and Lagoon Maintenance	X	X	X		X			X	X
Landscape Maintenance	Mowing/Trimming/Planting	X	X	X		X			X	X
	Fertilizer & Pesticide Management	X	X						X	
	Managing Landscape Wastes			X					X	X
	Erosion Control	X	X							
Drainage System Operation and Maintenance	Inspection and Cleaning of Stormwater Conveyance Structures	X	X	X		X		X		X
	Controlling Illicit Connections and Discharges	X	X	X	X	X	X	X	X	X
	Controlling Illegal Dumping	X	X	X	X	X	X	X	X	X
	Maintenance of Inlet and Outlet Structures	X		X	X		X			X
Waste Handling and Disposal	Solid Waste Collection		X	X	X	X	X	X		X
	Waste Reduction and Recycling			X	X					X
	Household Hazardous Waste Collection			X	X		X	X	X	
	Controlling Litter			X	X	X		X		X
	Controlling Illegal Dumping	X		X		X	X		X	X
Water and Sewer Utility Operation and Maintenance	Water Line Maintenance	X				X	X			
	Sanitary Sewer Maintenance	X				X	X			X
	Spill/Leak/Overflow Control, Response, and Containment	X	X			X		X		X
Source: California Stormwater BMP Handbook (http://www.cabmphandbooks.com/)										


IDDE Implementation Timeline
Effective Date
1 yr
2 yr
3 yr
4 yr
5 yr
6 yr
7 yr
8 yr
9 yr
10 yr
Annual Report
Mapping
Phase I map due
Phase II map due
Update map w/ outfalls, receiving waters, certain other structures
Update mapping information, including catchment delineations, outfalls, and infrastructure locations (pipes, manholes, catch basins) based on information collected during catchment investigations
Outfall Screening
Initial Outfall Ranking due
Updated Outfall Ranking due
Dry Weather outfall screening and sampling
Wet weather screening of outfalls and interconnections will be performed as necessary during catchment investigations
Catchment Work
Written catchment investigation procedure due
100% problems and catchments with sewage evidence investigated
100% catchments investigated
Perform catchment investigations for Problem Outfalls and outfalls/ interconnections where dry weather testing indicates sewer input
Perform catchment investigations for remaining outfalls
Written programs
Written IDDE program, SSO inventory due
Ordinance must be in place for new permittees

Tips for Organizing and Conducting Volunteer Clean-up Events

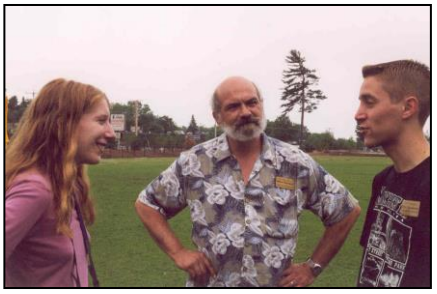
By: Jen Drociak –Acting Coordinator / Volunteer, Manchester Urban Ponds Restoration Program (UPRP)

Step 1: Plan Your Clean-Up Event



A. Land and / or Shore? Determine the Location(s): Determine where, in proximity to the waterbody, your group wishes to concentrate its efforts on during a clean-up event. To find heavily-littered areas, and / or areas that are prone to illegal dumping, walk along the shore, in advance, to identify location(s) for the clean-up event. Identify accessible paths along the shoreline and / or on public trails that are easy for people to walk. The location(s) may be largely determined by public (or lake / homeowner association) access points such as a public beach, boat-launch, or park. If the location is large, consider identifying smaller locations within the larger location which can be managed by individual group leaders and groups. Determining the location(s) will provide you with an idea of the footwear that may be needed for the task based upon the terrain. If the clean-up event will be located at a beach or a dry area, sandals or sneakers may be adequate. If it will be located in a wetland or mucky area, knee-boots may be appropriate. If it will be located in water, hip-boots may be most appropriate. Determining the location(s) will also provide you with a sense of how many volunteers your group is seeking for the clean-up event.

The UPRP typically focuses clean-up efforts in the parks adjacent to the ponds by skirting around the ponds themselves. This involves differing terrain, and thus footwear. There have been occasions, however, where one or more volunteers have also used a small fishing boat to retrieve trash from the water that is too deep to obtain via hip-waders.



B. Obtain Landowner Permission: Whether the location(s) of your clean-up event is / are municipally-owned or privately-owned, determine who owns the property in advance in order to obtain permission. If you do not know who the property owner is, visit your municipality's on-line assessor's website to review the tax map(s) and property card(s) associated with the area. It is typically easy to obtain permission to organize a clean-up on municipally-owned / public land. If the location(s) are on privately-owned land, talk to the land owner(s) and explain why you are organizing a clean-up in that area, along with the benefits of doing so. Obtain permission from them in writing, if you can, by considering they sign a form. Verbal permission may be adequate, however.

The UPRP organizes clean-up events on land owned by Public Works and Parks, Recreation, and Cemetery Departments. We have not had to seek private landowner permission. We simply notify the Manchester Public Works Department and Parks, Recreation, and Cemetery Department of the dates of the clean-up events.



C. Determine the Task(s) at Hand: Determine what you will request of your volunteers. Will it be the removal of trash only? If so, will it be the removal of large items only or all items including the minutia? Will it be the removal of yard waste only? Graffiti removal or other vandalism? All of the above? Determining the task(s) at hand will provide you with an idea of the supplies (and hours) you will need to perform the task(s).

The UPRP typically removes trash only. We typically do not pick up the minutia (cigarette butts, bottle caps, etc.) due to the large volume of trash we collect and the limited amount of time and volunteers we have at each clean-up event.

D. Determine the Check-In Location: Based upon the chosen location(s) of the clean-up event, consider and determine the most appropriate location for volunteers to initially gather to check in and obtain supplies, as well as to reconvene at the end of the clean-up event. This may be a kiosk, boat-launch, or specific location on a beach or in a park. Try to stay away from busy roads or areas that are difficult to access.



The UPRP typically requests that volunteers meet in one central / well-known location such as a kiosk in a parking lot or boat-launch. We have kept the initial meeting location at each clean-up event consistent over the years.

E. Determine the Most Appropriate Age(s) of Your Volunteers: Based upon the task(s) at hand, determine the most appropriate age(s) of your volunteers. Are you seeking adults only? Children? Both? Do you have tasks that all can partake in, or are the tasks age-specific?

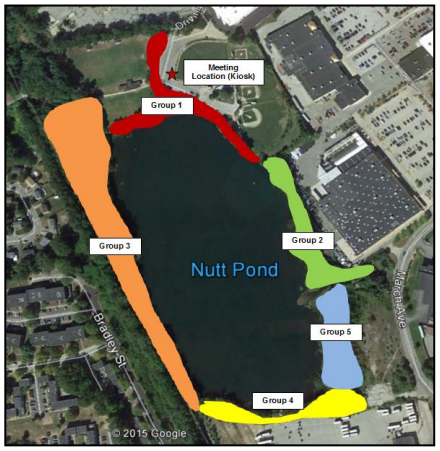


The UPRP generally seeks volunteers of all ages for clean-up events and encourage everyone, despite their age or ability, to participate in a manner of how they most feel comfortable.

F. Determine the Desired Number of Volunteers: Based upon the number and location(s) that are chosen for the clean-up event, determine the desired number of volunteers to partake in the event.

The UPRP typically splits the area adjacent to the ponds into several areas, or groups of volunteers.

G. Create Map(s) of the Location(s) <u>OR</u> Plan on Designating a "Group Leader" for Each Location: If the location(s) is / are large enough to break into more than one group during the clean-up event, consider making aerial photographic "maps" (or using topographic maps) of each group's area, indicating on the map the original meeting location, and the group's start and end point.



The UPRP has created aerial maps to use in the past. However, what we consider to be more helpful is having a "group leader" (returning volunteer or someone familiar with the area) lead a small group of other volunteers in each designated area.

Step 2: Schedule Your Clean-Up Event

A. Choose a Date: Choose a date for the clean-up event at a time of year that makes the most sense to your group. Keep in mind that while lakes and ponds have year-round residents, the majority of residents are likely seasonal and may not arrive for the season, or on or around Memorial Day weekend. Thus, a late-spring or late-fall cleanup may not be the most appropriate time as it may not garner the most volunteers. An early or mid-summer cleanup may be the most appropriate. Consider, perhaps, scheduling the event in conjunction with an annual lake association meeting or holiday barbeque. Also consider scheduling the date of the clean-up event at least a month in advance to allow time to prepare (gather supplies and recruit volunteers). Lastly, consider a rain date.



The UPRP typically schedules annual pond and park cleanups on Saturday mornings during the last two weeks in April and the first one or two weeks in May. This is because a) this time of year is typically after the snow has melted and b) this time of year is typically before "leaf-in" (and in the case of some of these areas, this is important, as the areas are overtaken with thick stands of invasive species). We do not offer rain dates.

B. Choose a Time: Determine the amount of time it may take to clean up the area(s) of your choosing. Will it take one hour? Two hours? More? This is also a factor of the number of volunteers that attend (typically the more volunteers that attend the least amount of time the clean-up will take). If you believe the area(s) may take more than two hours, it may be best to schedule a two-part clean-up event. Also consider the time of day most appropriate to your group, especially if it is scheduled in conjunction with (or before or after) another event such as an annual meeting or holiday barbeque.



The UPRP has realized that 1 ½ - 2 hours is a sufficient amount of time to allot to clean-up events. We also realize that volunteers typically do not have the time or patience to commit to any more time in one day than that. We have also typically scheduled the clean-up events from 9:00AM to 11:00AM, with a meeting time of no later than 8:50AM. Early-morning clean-up events afford volunteers to have the remainder of the day for other things.

Step 3: Determine and Obtain Necessary Supplies

A. Determine the Necessary Supplies: Determining the task(s) at hand will determine your necessary supplies. If your clean-up event is strictly a trash removal cleanup, you may only need to obtain latex gloves and trash bags. If your clean-up event also includes yard-waste removal, you may need to obtain paper yard-waste bags, rakes and / or other tools.



Since the UPRP clean-up events are strictly focused on trash-removal, the only supplies we must procure are latex gloves (medium sized) and trash bags. We also have a few hand-held trash-grabbers since some volunteers find them helpful in reaching difficult areas and / or to prevent excessive bending.

B. Obtain the Necessary Supplies: Determine how you will obtain the necessary supplies. Does your group have a budget? Will your group be purchasing your supplies? Will your group fundraise to purchase supplies? Will your group borrow supplies, from perhaps the town or city?

The UPRP typically obtains supplies from the Manchester Parks, Recreation, and Cemetery Department. These supplies typically only include latex gloves and trash bags, but have included, in the past, rakes, other tools and yard waste bags. We also typically have a large container of hand-sanitizer available.

C. Obtain a First-Aid Kit: Consider obtaining one or more First Aid kits (for one or more groups of volunteers) in case it is needed. It is better to be proactively safe!

The UPRP has one First-Aid kit for use.

D. Consider Providing Water and Snacks: If your group has the financial means, consider providing water and snacks to your volunteers for afterwards. If your group does not have the financial means, consider soliciting donations from local establishments or having your group bake some treats, and bring a large cooler of ice water (or iced-tea) and some paper (or reusable plastic) cups.



The UPRP does not regularly provide water and snacks to volunteers since we do not have a budget to do so. On occasion, we have been able to obtain donations for yogurt snacks from Stonyfield Farm. On occasion we have also brought or made a baked good.

Step 4: Determine Your Waste Disposal Options





A. Determine Your Waste Disposal Options: At the end of your clean-up event, determine how and where you will dispose of the trash that was collected. Is there a dumpster on site that your group has permission to use? Are there already trash and / or recycling carts on site that your group has permission to use? If not, consider contacting your municipality's Highway Department, Parks & Recreation Department, or Road Agent, at least a month in advance, who may be able to coordinate trash and / or recycling pickup from your municipality's vendor (i.e. Waste Management, Pinard, etc.). Determine when the trash and / or recycling will be picked up and what the requirements for pickup are (especially with items such as vehicular tires and batteries, etc.). In addition, consider recruiting volunteers with pick-up trucks, especially if your group is cleaning multiple areas, and trash must be stockpiled in one area at the end of the event. Similarly, if you cannot obtain trash pick-up services, volunteers with pick-up trucks, and a municipal sticker (or permission) may be able to haul the trash and / or recycling to your local landfill or transfer station for free.

The UPRP typically sends notification of the clean-up schedule to the Manchester Public Works Director as soon as the dates are calendared. The Public Works Director, or staff, has coordinated with Manchester's solid waste collection staff to collect the trash on the Monday following the cleanup event (which have been held on Saturdays). While there have been a few times the Public Works Department has made one or more 95-gallon recycling carts available for the clean-up events, they are generally not available, and therefore, recycling is not typically sorted from other debris. All (tied / secure) bags of trash have been neatly placed in the same locations over the years; typically underneath or adjacent to the informational kiosks. Trash collected that does not fit into bags is also neatly placed adjacent to the bagged trash. We also recruit volunteers with pick-up trucks so that trash from different areas of the cleanup can be taken to one designated location at the end of the event. In addition, one of our volunteers separates steel and other scrap metal and takes it to a scrap metal recycling facility.

Step 5: Advertise Your Clean-Up Event / Recruit Volunteers



A. Determine Any Project Partners: In addition to volunteers who live around the waterbody, and any other residents of the town, determining any existing local groups or clubs that may be able to assist with the clean-up event is always helpful. Is there a local middle school, high school, or even college (if nearby) environmental club? A local chapter of the Student Conservation Association (SCA)? Any other organization, volunteer group, or club? A lot of these groups and / or clubs seek new community service projects and can help you garner additional / new volunteers.

The UPRP has partnered with the Student Conservation Association, local high school ecology clubs, local boy-scout troops, trout-fishing clubs, geo-cashing groups, and others in the past. This has helped garner additional / new volunteers.

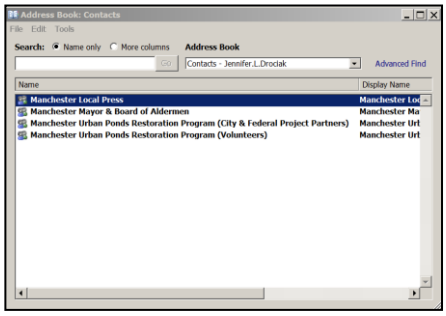


B. Determine the Best Way(s) to Advertise Your Clean-Up Event: Determine the target audience of volunteers and consider the best way(s) to advertise your clean-up event. Is it by e-mail? Website? Post-card? Posting of a flyer on a community bulletin board and / or kiosk? An annual lake association newsletter? An advertisement in a local newspaper? TV? Radio? facebook / social media? All of the above? Remember, printed materials and postage cost money, as typically do newspaper and radio advertisements. If your group has available funds for this, that is one thing. If not, instead of

simply placing a paid advertisement in a newspaper, try reaching out to a local news reporter to see if s/he will write a story about your cleanup (or write and submit an op-ed piece). This is usually good, free, advertisement. Also determine the most appropriate time to advertise for the clean-up event. Will you be advertising only once, or multiple times before the event?

The UPRP has typically advertised clean-up events in the following manners: 1) The UPRP webpage, 2) The City of Manchester website "Calendar of Events", 3) the UPRP facebook page, and 4) E-newsletter / e-mail. Local newspapers are also always gracious to cover the event(s) in a story beforehand. The UPRP typically sends posts the clean-up events on the website, and sends out an e-mail approximately three weeks in advance of the cleanup. The UPRP will then send weekly e-mails.

C. Create an E-Mail Distribution List: If you don't already have an e-mail distribution list, consider creating one. This may include names and e-mail addresses of lake association members, conservation commissioners, selectmen, municipal employees / department heads and others you know who may be interested. You can add to this with each clean-up event your group coordinates. If you have access to Constant Contact, Mailer, Mail Chimp, or other similar e-mail platform, this may be easier and more appropriate to use. If not, e-mail is a good starting place.



The UPRP has an e-mail distribution list which consists of approximately 200 individuals consisting of city aldermen, city department heads, conservation commissioners, media contacts, active school groups and other environmental organizations, and former volunteers. With every e-mail sent, an option is sent to opt-out of receiving e-mails by having a name and e-mail address removed from the list. This list is updated at least twice a year.

D. Before You Mail, Post, (or Hit the Send Button): Before you mail or post your flyer, or hit the send button to your e-mail distribution list, be sure to include the Who, What, Where, When, Why, and How to ensure all information is readily available. Why are you seeking volunteers? Who are you seeking as volunteers? What tasks are you seeking of volunteers? Where (general location and specific meeting location) are you seeking volunteers? When (date / time) are you seeking volunteers? Is there a rain date? How will the tasks be conducted? What should the volunteers wear or bring? What will be provided? Are you requesting an RSVP? For more information, who should they contact? Prepare your volunteers by letting them know what time to arrive, what to wear (clothes that can get dirty or wet, long pants, work gloves, boots or sturdy shoes, etc.), what to bring (sunscreen, insect repellant, water) and what to do in case of bad weather (rain date or cancellation information / phone number).



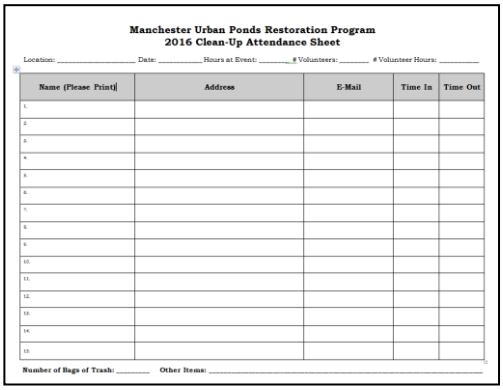
For Example: Seeking volunteers of all ages to assist in an annual trash clean-up at Black Brook and Blodget Park in Manchester on Saturday, April 23, 2016 from 9:00AM – 11:00AM. Volunteers will partner to clean the park and skirt the edges of the brook and wetland complex to remove accumulated trash. Please dress appropriately for weather as no rain date is scheduled. Latex gloves and trash bags will be provided, but please wear knee-boots, or hip-waders if you have them. No RSVP necessary. For more information, please visit www.manchesternh.gov/urbanponds or contact Jen Drociak at email@gmail.com or (603) ### - ####. We look forward to seeing you there!

Step 6: Conduct Your Clean-Up Event

A. Arrive Early: Consider arriving 15 minutes to one hour earlier than your volunteers so that you can set up at your check in location. Consider setting up the following: "Clean-Up Attendance Sheet", water and / or refreshments, first aid and safety, trash bags and clean-up supplies, organizational information (flyers, fact sheets, reports, etc.). Consider also walking around the location(s) to identify any new trash and / or safely concerns that may have accrued / arisen since your last visit.

The UPRP coordinator(s) typically meet on-site approximately 15-30 minutes in advance of volunteers to set up trash bags, latex gloves, and the "Clean-Up Attendance Sheet". We also survey the site to identify any new trash or safety hazards to relay to volunteers.

B. Welcome Your Volunteers and Ask Them to Sign-In: Welcome each volunteer upon arrival and ask that they sign a "Clean-Up Attendance Sheet" so that your group may account for number of volunteers and volunteer hours contributed to the clean-up event. Consider leaving the "Clean-Up Attendance Sheet" at the check-in location for those volunteers who may have to leave (and sign out) earlier than the full allotted time.



Manchester Urban Ponds Restoration Program
2016 Clean-Up Attendance Sheet

Location: _____ Date: _____ Hours at Event: _____ # Volunteers: _____ # Volunteer Hours: _____

	Name (Please Print)	Address	E-Mail	Time In	Time Out
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

Number of Bags of Trash: _____ Other Items: _____

The UPRP "Clean-Up Attendance Sheet" typically notes the location and date of the event, and has room to tally the number of volunteers, number of volunteer hours, number of bags of trash and other debris. It also has fields for volunteers to print their name, address, and e-mail, and note the time they checked in, and the time they checked out.

C. Ask Volunteers to Sign a Liability Waiver and Photo-Release Form: Trash found in a waterbody will likely be dirty, rusty, slimy, and sharp. In addition, your group may find broken glass, hypodermic needles and hazardous wastes. Heavy items should not be lifted alone. Caution is needed when handling all trash in order to avoid cuts and other injuries. Consider asking volunteers to sign a liability waiver and photo-release form. These can be two documents, or combined into one. The form should explain any dangers associated with the clean-up event and reminds volunteers to act responsibly for their own safety. The form helps protect you and your organization from potential liability if a volunteer is injured. In addition, with their permission, it allows you to use photographs taken that day. Examples of these forms can be found on-line.

D. Introduce Yourself and Provide Opening Remarks: Introduce yourself, thank special guests, sponsors / project partners (who have helped by providing goods or services), and volunteers. If the media is there, they may want to interview you or for you to provide a brief quote. Consider preparing remarks ahead-of-time, and allowing any special guests to also provide opening remarks to the group.

The UPRP coordinators typically introduce themselves, and thank any special guests (city aldermen, city employees, etc.), sponsors (municipal and local), and volunteers themselves.

E. Provide Volunteers with a Brief Background / History of the Area(s): To acquaint new volunteers to your group / program and to the area, consider providing a brief background / history about the waterbody / area, distinguishing features, and its importance to the community. Consider showing volunteers a map of the waterbody and / or watershed. Also consider providing information such as points of interest, recent (or upcoming) restoration projects in the area, and / or information relative to water quality / monitoring, exotic species, other volunteer opportunities, etc.



Many of the UPRP volunteers are returning volunteers. However, with any new volunteers, we typically offer basic information on the program itself, as well as the watershed, inlet / outlet, history fun-facts, and any recent / upcoming restoration projects. We have fact sheets on each of our ponds on our website, which we can also direct them to for more information.



Manchester Urban Ponds Restoration Program

Nutts Pond Facts

- **Namesake:** Named after a local circus performer, "Commodore" George Washington Nutt
- **Location:** Driving Park Road, off of South Willow Street in south Manchester
- **Type of Waterbody:** Natural Pond fed by Tannery Brook
- **Inlet/Outlet:** Tannery Brook, flowing into Nutts Pond to the south of Home Depot, and emptying into the Merrimack River near the Riverwalk in downtown Manchester
- **Watershed Area:** 635 acres
- **Waterbody Size:** 16.1 acres
- **Volume of Water:** 260,500 m³
- **Mean/Average Water Depth:** 13.12 feet
- **Maximum Water Depth:** 30.10 feet
- **Shoreline Length:** 3,116 feet
- **Elevation:** 237 feet
- **Uses:** Paddling, fishing
- **Public Boat Launch:** Gravel, trailer or car-top
- **Amenities:** Prescourt Park athletic fields
- **Local Legend:** "Commodore" Nutt the circus performer who toured with the P.T. Barnum Circus show with Tom Thumb



Manchester Urban Ponds Restoration Program

The History of Nutts Pond

"Commodore" Nutt



Manchester Urban Ponds Restoration Program

Nutts Pond Stormwater Best Management Practices (BMP) Summary

F. Provide Necessary Supplies to Your Volunteers: Ensure your volunteers have ample supplies for the duration of the clean-up event. If they did not bring their own work gloves, request that they take two pairs of Latex gloves (in case one pair rips), and more than one trash bag, depending on the designated location(s). If your group is also removing yard waste, provide your volunteers with rakes and lawn-waste bags. Request that they return any unused pair of gloves, trash bags, and any supplies to you at the end of the clean-up event. Consider also leaving supplies out in a designated location along with the "Clean-Up Attendance Sheet" for volunteers who may show up late.



Many of the UPRP bring their own work gloves. We then issue two pairs of Latex gloves to each volunteer as well as multiple trash bags, depending on the specific area they will be cleaning up. We request that all unused supplies be returned at the end of the clean-up.

G. Provide Your Volunteers with Instructions for the Clean-Up Event: Provide your volunteers with instructions for the clean-up event such as what they will be retrieving (large trash only, all trash, etc.) what not to pick up (hypodermic needles, cigarette butts, etc.), if they are to separate trash from recycling or not (in which case they may carry two bags at once – different colors may be helpful - one for trash and one for recycling), what is considered recyclable if they are separating recycling from trash (this differs in each community and some vendors may not accept unclean / dirty recyclables from clean-up events), etc. Also provide your volunteers with safety tips and a general schedule of the clean-up event including the location to reconvene at the end and where to place trash. Ensure everyone knows there to focus their efforts and then to stop.

The UPRP typically only picks up large items, and does not typically separate trash from recycling, due to limited means. However, we have done so in the past and have provided volunteers with two trash bags – one for recycling, and one for trash.

H. Make It Fun! Play One or More Games While You're at It! Why not make things fun while you're out there picking up trash? Consider playing one or more games (especially if some of the volunteers are children) such as a scavenger hunt, who can find the most interesting or unusual piece of trash, who can find the largest piece of trash, who collects the most trash, etc. Consider offering a prize and / or certificate to the winner(s) of one or more of the games you play.



The UPRP has, for many years, asked volunteers to find the "Most Interesting or Unusual Piece of Trash" at each clean-up event. At the end of the clean-up, volunteers will place their found items in one location for "judging" by the coordinator(s) of the clean-up event. Certificates and / or prizes have been awarded to the winner(s), and photos have been taken. We have found some really interesting an unusual pieces of trash over the years, and have kept a list!

I. Relinquish Groups of Volunteers / Group Leader(s) to Designated Area(s): If you are separating volunteers into more than one group for your clean-up event, relinquish the groups to their designated location(s). If you don't have a group leader for each group, relinquish them with their maps in hand. If you have a group leader be sure to introduce the volunteers in each group to their group leader before relinquishing them to their designated location(s). Remember to consider that not all locations may need the same number of volunteers.



The UPRP typically asks one or more returning volunteers if they would agree to be group leaders. Not all locations require the same amount of volunteers, however. This is decided based upon the area of the designated location(s), as well as the amount of trash to be removed in the designated location(s). For example, one small area along the shoreline may only require two volunteers, but a larger area in another location with a lot of trash may require 4-6 or more volunteers.

J. Reconvene at Initial Check-In Area at Designated Time: After the allotted period of time has elapsed for the clean-up event, reconvene at your initial check-in area. Account for all volunteers that did not sign out early.



The UPRP always meets at our initial check-in area. We then account for each group leader and group of volunteers (who did not sign out early) to ensure all have safely returned.

K. Count Full Bags of Trash (or Weigh All Trash): Count all full bags of trash that were collected and returned. If one or more bags are returned and are not considered full, consider consolidating them to make full bags of trash. That way, your measurements of "full bags" collected for this, and any other clean-up events, are consistently measured / counted. If your group has access to a scale, you consider weighing your bags of trash, and any other trash, to account for pounds of trash collected. Another option is to ask if the vendor who is charged with collecting the trash after the event can inform your group of the weight of the collection when the truck enters the scale at the weigh-station before drop-off at the refuse facility.



Since trash collected at UPRP clean-up events has not been weighed by a scale, and trash has been weighed by vendor truck only occasionally, to be consistent, we always count full bags at the site, and consolidate bags of trash that are returned not full in order to make full bags.

L. Account for and Count Other Items: Account for and count the quantity of other items of trash collected that cannot fit into bags.



The UPRP always accounts for and counts any trash that is collected that cannot be bagged. This typically includes vehicular tires, shopping carts, wood debris, construction debris, or any other items that have been illegally dumped.

***M.* Share the Data with Volunteers:** Once you have tallied the final numbers of bags of trash and other items collected during the clean-up event, announce them to your volunteers so they know just how much trash and other debris they removed from the area, know how important their contribution of time and efforts were, and have immediate results of their work!





N. Tally Final Numbers on Clean-Up Attendance Sheet: Once you have tallied everything collected, write these numbers on your "Clean-Up Attendance Sheet".

O. Take Photographs: To commemorate the success of your clean-up event, take a photo of the trash collected, and of the group of volunteers who helped collect it!

The UPRP always photographs the trash collected (in and out of bags), as well as takes a group photograph in front of or aside the trash collected.





P. Award a Prize, or Two, or Three: If you played one or more games during the clean-up event, consider awarding a certificate or prize to your winner(s) and photographing them with their winning piece of trash!

The UPRP has, for many years, asked volunteers to find the "Most Interesting or Unusual Piece of Trash" at each clean-up event. At the end of the clean-up, volunteers will place their found items in one location for "judging" by the coordinator(s) of the clean-up. Certificates and / or prizes have been awarded to the winner(s), and photos have been taken.







Q. Thank the Volunteers: Before parting ways, be sure to thank your volunteers for their assistance! Encourage them to volunteer again. Be sure to individually thank any special guests (aldermen / selectmen, city employees, media, etc.).

At the end of each clean-up event, the UPRP notes upcoming clean-up events in order to encourage volunteers to return for the next event.





Above Left: Volunteers at the 100th Cleanup of the Manchester Urban Ponds Restoration Program.

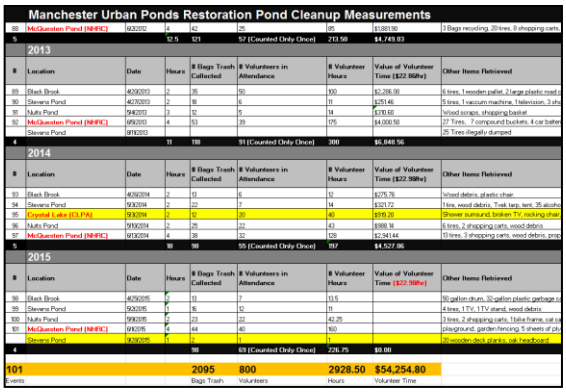
Above Right: Cake served to volunteers at the 100th official cleanup of the Manchester Urban Ponds Restoration Program .

R. Consider Having a Picnic / Cookout / or Lunch: If you have the financial means, consider having a picnic / cookout / lunch afterwards to celebrate your accomplishment. Or, consider soliciting local vendors for food donations in exchange for sponsor / partnership recognition at your clean-up event. If you're not able to make or supply lunch, consider encouraging volunteers to bring a brown-bag lunch for afterwards.

Step 7: Follow Up After the Clean-Up Event

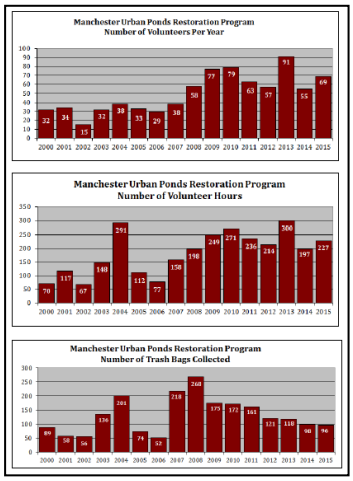
A. Update Your Electronic Records: Now is the time to transpose the information collected on the "Clean-Up Attendance Sheet" into an electronic record-retention system if you have access to one. Perhaps you have access to a database. If not, consider using a Microsoft Excel workbook / spreadsheet system to track measurements from your clean-up events. Now is also the time to update your existing e-mail distribution list with the names and e-mail addresses of those volunteers who participated in your clean-up event.

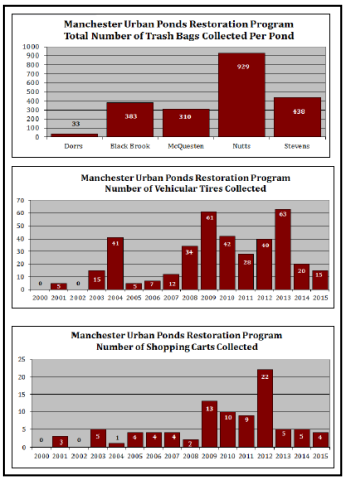
The UPRP has consistently used Microsoft Excel to track clean-up measurements. In the first worksheet of the workbook, we account for the number of our clean-up event, the location, date, hours spent at the event, numbers of bags of trash collected at the event, number of volunteers at the event, number of volunteer hours at the event, total value of volunteer time for the event, and other items retrieved at the event. For each year tracked, we created a "total" line with auto-calculations to account for the total of each year. To account for the value of volunteer time, we use figures taken from www.independentsector.org. In the second worksheet of the workbook, we account for pond cleanup attendees, where, for each clean-up event, we list the location, date, names (in alphabetical order), address, and hours at event. Similarly, for each year tracked, we created a "total" line. In the third worksheet of the workbook, we have created graphs based upon each year's total metrics. We then transpose these graphs to a Microsoft Word document, then an Adobe PDF document, and post on our website, and at the kiosks.



Manchester Urban Ponds Restoration Pond Cleanup Measurements

#	Location	Date	Hours	# Bags Trash Collected	# Volunteers in Attendance	# Volunteer Hours	Value of Volunteer Time ($22.95/hr)	Other Items Retrieved
88	McQuesten Pond (NHFIC)	4/3/2012	4	42	25	85	$1,881.30	3 Bags recycling, 20 tires, 8 shopping carts
5			12.5	121	57 (Counted Only Once)	213.50	$4,749.93	
	2013							
89	Black Brook	4/29/2013	2	35	50	100	$2,295.00	6 tires, 1 wooden pallet, 2 large plastic road c
90	Stevens Pond	4/29/2013	2	16	6	11	$251.46	5 tires, 1 vacuum machine, 1 television, 2 sh
91	Nutts Pond	5/4/2013	3	12	5	14	$310.60	Wood scraps, shopping basket
92	McQuesten Pond (NHFIC)	6/5/2013	4	53	39	175	$4,000.50	27 Tires, 7 compound buckets, 4 car batter
	Stevens Pond	6/18/2013						25 Tires illegally dumped
4			11	118	91 (Counted Only Once)	300	$6,848.56	
	2014							
#	Location	Date	Hours	# Bags Trash Collected	# Volunteers in Attendance	# Volunteer Hours	Value of Volunteer Time ($22.95/hr)	Other Items Retrieved
93	Black Brook	4/26/2014	2	13	6	12	$275.76	Wood debris, plastic chair
94	Stevens Pond	5/3/2014	2	22	7	14	$321.72	1 tire, wood debris, Tivek tarp, tent, 35 alcohe
95	Crystal Lake (CL) PA)	5/3/2014	2	10	20	40	$919.20	Shower surround, broken TV, rocking chair
96	Nutts Pond	5/10/2014	2	25	22	43	$988.14	6 tires, 2 shopping carts, wood debris
97	McQuesten Pond (NHFIC)	6/13/2014	4	38	32	128	$2,941.44	13 tires, 3 shopping carts, wood debris, prop
5			10	108	55 (Counted Only Once)	197	$4,527.06	
	2015							
#	Location	Date	Hours	# Bags Trash Collected	# Volunteers in Attendance	# Volunteer Hours	Value of Volunteer Time ($22.95/hr)	Other Items Retrieved
98	Black Brook	4/25/2015	2	13	7	13.5		50 gallon drum, 32 gallon plastic garbage c
99	Stevens Pond	5/2/2015	2	16	12	11		4 tires, 1 TV, 1 TV stand, wood debris
100	Nutts Pond	5/9/2015	2	23	22	42.25		3 tires, 2 shopping carts, 1 bike frame, cat ca
101	McQuesten Pond (NHFIC)	6/1/2015	4	44	40	160		playground, garden fencing, 5 sheets of pla
	Stevens Pond	6/16/2015	1	1	1	1		10 wooden deck planks, oak headboard
4			10	98	69 (Counted Only Once)	226.75	$0.00	
101				2095	800	2928.50	$54,254.80	
Events				Bags Trash	Volunteers	Hours	Volunteer Time	





B. Follow Up With an E-mail or Thank-You Note: It is always nice to follow up with your new (and / or returning) volunteers by sending them a formal personalized thank-you via e-mail or US Postal Service. Besides, who doesn't like receiving a letter in the letter box, especially in this electronic day-in-age?



The UPRP, has, on occasion, sent personalized thank-you cards in the mail. Typically, however, we send a group thank-you via e-mail and attach photographs taken at the event(s), as well as re-cap tallies from the clean-up event(s).

C. Consider Writing an Article for Your Newsletter or the Newspaper: Consider writing an article for your newsletter, if you have one, or a local newsletter or newspaper, summarizing the event with photographs and tallies from the event. Volunteers who helped out at your clean-up event will feel proud of their accomplishment and the results. This is a good way to garner publicity about your group and its event as well as garner additional volunteers in the future.



The UPRP has often written newspaper articles and / or shared summary information about the clean-up events (at the end of the season) listing sponsors / project partners and volunteers, and including photographs of volunteers at the event, via an electronic newsletter.

From 2000 - 2005 **The Manchester Urban Ponds Restoration Program** (UPRP) was part of the Supplemental Environmental Projects Plan (SEPP) which was part of an agreement between the City of Manchester, NH Department of Environmental Services, and the US Environmental Protection Agency to address combined sewers in the City. Seven (7) waterbodies in Manchester have been evaluated and monitored for restoration potential. Specific restoration projects to meet the program's goals have also been identified, funded, and completed through this project. Since 2000, the Manchester Urban Ponds Restoration Program has organized 101 clean-up events. Over the past 15 years, 800 volunteers have spent 2,298.50 hours collecting 2,093 bags of trash! This does not include the items illegally "dumped" such as shopping carts (91), tires (388), car batteries, other car parts, construction debris, and other items. In addition, the value of volunteer time spent at these clean-ups has amounted to over $54,000 over the past 15 years! The Manchester Urban Ponds Restoration Program was awarded an EPA "Environmental Merit Award" in 2011. More information on the Manchester Urban Ponds Restoration Program can be found by visiting www.manchesternh.gov/urbanponds.



Jen Drociak lives in Manchester, NH and holds a Bachelor of Science degree in Environmental Conservation from the University of New Hampshire. She is employed with the New Hampshire Department of Environmental Services where she has worked as a program specialist for the Pollution Prevention Program, a restoration specialist for the NH Coastal Program where she established a monitoring program for pre- and post-restoration projects in NH's salt marshes, and as the Volunteer River Assessment Program Coordinator where she provided technical assistance to approximately 200 volunteers who collected water quality samples for surface water quality assessments on NH's rivers and streams. Jen has also worked for the Wastewater Engineering Bureau as a grants management specialist and is currently working for the Land Resources Management Bureau as a compliance specialist. Since 2000, Jen has also been involved with the Manchester Urban Ponds Restoration Program, and has served as acting coordinator since 2006 where she largely coordinates annual clean-up events and water quality monitoring.

Appendix I

Annual Reports & Reporting Requirements

Annual Reports

The Town will submit annual reports each year of the Small MS4 permit term, 90 days from the close of the reporting period (i.e., September 28). The reporting period will be a one-year period commencing on the permit effective date, and subsequent anniversaries thereof, except that the first annual report under the 2016 General Permit shall also cover the period from May 1, 2018 to the permit effective date, July 1, 2018. Under the 2016 General Permit, annual reports will consist of an assessment provided to EPA and more robust documentation outlined in the Checklist of Key Documentation.

Per Section 4.4.b of the 2016 General Permit, the annual reports shall contain the following information:

i. *A self-assessment review of compliance with the permit terms and conditions.*
ii. *An assessment of the appropriateness of the selected BMPs.*
iii. *The status of any plans or activities required by part 2.1 and/ or part 2.2, including:*
    - *Identification of all discharges determined to be causing or contributing to an exceedance of water quality standards and description of response including all items required by part 2.1.1;*
    - *For discharges subject to TMDL related requirements, identification of specific BMPs used to address the pollutant identified as the cause of impairment and assessment of the BMPs effectiveness at controlling the pollutant (part 2.2.1. and Appendix F) and any deliverables required by Appendix F;*
    - *For discharges to water quality limited waters a description of each BMP required by Appendix H and any deliverables required by Appendix H.*
iv. *An assessment of the progress towards achieving the measurable goals and objectives of each control measure in part 2.3 including:*
    - *Evaluation of the public education program including a description of the targeted messages for each audience; method of distribution and dates of distribution; methods used to evaluate the program; and any changes to the program.*
    - *Description of the activities used to promote public participation including documentation of compliance with state public notice regulations.*
    - *Description of the activities related to implementation of the IDDE program including: status of the map; status and results of the illicit discharge potential ranking and assessment; identification of problem catchments; status of all protocols described in part 2.3.4.(program responsibilities and systematic procedure); number and identifier of catchments evaluated; number and identifier of outfalls screened; number of illicit discharges located; number of illicit discharges removed; gallons of flow removed; identification of tracking indicators and measures of progress based on those indicators; and employee training.*
    - *Evaluation of the construction runoff management including number of project plans reviewed; number of inspections; and number of enforcement actions.*
    - *Evaluation of stormwater management for new development and redevelopment including status of ordinance development (2.3.6.a.ii.), review and status of the street design assessment (2.3.6.b.), assessments to barriers to green infrastructure (2.3.6.c), and retrofit inventory status (2.3.6.d.)*

- *Status of the O&M Programs required by part 2.3.7.a.*
- *Status of SWPPP required by part 2.3.7.b. including inspection results.*
- *Any additional reporting requirements in part 3.0.*

v. *All outfall screening and monitoring data collected by or on behalf of the permittee during the reporting period and cumulative for the permit term, including but not limited to all data collected pursuant to part 2.3.4. The permittee shall also provide a description of any additional monitoring data received by the permittee during the reporting period.*

vi. *Description of activities for the next reporting cycle.*

vii. *Description of any changes in identified BMPs or measurable goals.*

viii. *Description of activities undertaken by any entity contracted for achieving any measurable goal or implementing any control measure.*

Checklist of Key Documentation

Documentation of BMP progress should be kept in Appendix I. The following checklist includes the required documentation for MCMs 1-6.

MCM 1 – Public Education and Outreach

- ☐ All educational materials provided to target audiences;
- ☐ Distribution lists for target audiences;
- ☐ Dates of distribution of educational materials; and
- ☐ Note educational goals and opinion on effectiveness based on results tracked; modify education and outreach program if necessary.

MCM 2 – Public Involvement and Participation

- ☐ Dates of public meetings when a stormwater management-related topic is discussed;
- ☐ Dates of public participation activities and quantification of participation (such as number of volunteers/participants, number of bags collected, etc.); and
- ☐ Meeting dates, agendas, and sign-in sheets for Interdepartmental Stormwater Working Group meetings.

MCM 3 – Illicit Discharge Detection and Elimination (IDDE) Program

- ☐ Log of phone calls and complaints received regarding suspected illicit connections and other storm drain issues, including dates and actions taken;
- ☐ SSO inventory (updated annually), including the number of illicit discharges/ connections identified and/or removed and the volume of sewage removed;
- ☐ Drainage system map;
- ☐ Data collected during dry and wet weather outfall/interconnection investigations, including the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening results, and results of all analyses (summarize on an annual basis and for the entire permit term);
- ☐ Number and percent of total outfall catchments served by the MS4 evaluated using the catchment investigation procedure;
- ☐ Presence or absence of System Vulnerability Factors for each catchment;
- ☐ Data collected during key junction manhole investigations;
- ☐ Inspection and maintenance records; and
- ☐ Frequency and type of employee training, including employees trained, training topic, date/time, and materials presented.

MCM 4 – Construction Site Stormwater Runoff Control

- ☐ Number of site reviews, inspections, and enforcement actions; and
- ☐ Modifications to Webster's ordinances, regulations, policies, and/or procedures as necessary.

MCM 5 – Post Construction Stormwater Management in New Development and Redevelopment

- ☐ Measures the Town has taken to ensure adequate long-term operation and maintenance of stormwater BMPs and to require submission of as-built plans;
- ☐ Modifications to Webster's ordinances, regulations, policies, and/or procedures as necessary;
- ☐ Status of BMP 5B and 5C assessments, including any planned or completed changes to local regulations and guidelines (BMP 5B) and findings and progress towards making the practices allowable (BMP 5C); and
- ☐ Retrofit inventory, including all sites that have been modified or retrofitted. Sites should include Town-owned sites identified in the inventory as well as non-municipal property modified or retrofitted to mitigate impervious area.

MCM 6 – Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- ☐ Inventory of municipal facilities and equipment;
- ☐ Plan for optimizing catch basin cleaning and metrics about the number of catch basins, quantity cleaned and inspected, and total volume of material removed from all catch basins;
- ☐ Miles of streets cleaned and the volume of material removed; and
- ☐ All records associated with SWPPP quarterly site inspections, maintenance activities, and training.

Impaired Waters and TMDLs

Bacteria or Pathogens Impairment *– Sucker Brook, French River*

- ☐ All educational materials provided to target audiences;
- ☐ Distribution lists for target audiences;
- ☐ Dates of distribution of educational materials; and
- ☐ Records from IDDE Program implementation.

Long Island Sound Nitrogen TMDL

- ☐ All educational materials provided to target audiences;
- ☐ Distribution lists for target audiences;
- ☐ Dates of distribution of educational materials;
- ☐ Modifications to Webster's bylaws, regulations, policies, and/or procedures as necessary;
- ☐ Plan for proper management of grass cuttings and leaf litter;
- ☐ Requirements for use of slow-release fertilizers on Town-owned properties currently using fertilizer;
- ☐ Miles of streets cleaned and the volume of material removed – increase sweeping to twice per year in the Long Island Sound watershed;

- ☐ Track existing or installed structural BMPs in the urbanized area and document the BMP type, total area treated, design storage volume and estimated nitrogen removed by mass;
- ☐ All screening and monitoring results targeting the Long Island Sound or its tributaries;

Beginning in the **Year 5 Annual Report**, the Town shall include:

- ☐ List of planned structural BMPs and a schedule for implementation.

MS4 Record Keeping Update
Webster, MA
October 2025

Tighe&Bond

The Town's Stormwater Management Program has been appended through the Permit term, including development of the following standalone reports. These reports are available from the Webster Highway Department.

The **IDDE Program** has been updated to include:

- Illicit Discharge Detection and Elimination Program, March 2015, Revised October 2023
- Sanitary Sewer Overflow inventory, updated annually
- Webster Dry Weather Screening Field Effort Summary, June 2017
- Webster MS4 Catchment Investigation Procedures, December 2019
- Phase I MS4 System Map, September 2020
- Webster Dry Weather Screening Field Effort Summary – Addendum 1, April 2023
- Webster Dry Weather Screening Field Effort Summary – Addendum 2, June 2023
- Webster Dry Weather Screening & Catchment Investigations Field Effort Summary – Addendum 3, June 2024
- Webster Dry Weather Screening & Catchment Investigations Field Effort Summary – Addendum 4, June 2025
- Summary of Webster's TMDLs and Impaired Waters, 2018/2020 303(d) Integrated List
- Summary of Webster's TMDLs and Impaired Waters, 2022 303(d) Integrated List

The **Construction and Post-Construction Programs** have been updated to include:

- Article VII, Section 650-59 of the Zoning Bylaw and Section III, Part C.5 of the Rules and Regulations Governing the Subdivision of Land require the submission of as-built drawings. Section IV, Part H.8.D of the Rules and Regulations Governing the Subdivision of Land requires continued operation and maintenance for BMPs.
- Zoning Bylaw: https://ecode360.com/13265346
- Subdivision Rules and Regulations: https://www.webster-ma.gov/DocumentCenter/View/5905/1992_Subdivision-Rules_Regs?bidId=

The **Municipal Good Housekeeping Program** has been updated to include:

- Webster Highway Department Stormwater Pollution Prevention Plan, March 2015
    - Quarterly inspection records are available from the Webster Highway Department
- Municipal Good Housekeeping and Pollution Prevention Program, November 2015

The **SWMP** is updated to include the following information to address Section 2.2, Discharges to Certain Impaired Waters, and Section 3.0, Additional Requirements for Discharges to Surface Drinking Water Supplies and Their Tributaries, of the General Permit:

- The Town's NOI listed receiving waters and impairments based on the water quality limited waters in the 2014 303(d) Integrated List. The Town has evaluated changes to the impairments and/or receiving waters based on the final 2016 303(d) Integrated List. Based on this review, it was determined that the requirements of Appendix H, Part V for solids are no longer applicable to Webster because the turbidity impairment for French

River (MA42-06) was removed from the 2016 303(d) List. This determination was submitted to EPA and MassDEP in the Year 2 Annual Report on September 28, 2020.

- EPA's SWMP template does not include provisions to address this requirement. However, this is not applicable to Webster because there are no surface drinking water supplies or tributaries to surface drinking water supplies within the MS4.
- The Town has evaluated changes to the impairments and/or receiving waters based on the 2018/2020 303(d) Integrated List. This review was submitted to EPA in the Year 4 Annual Report on September 28, 2022. The changes described do not add, remove, or change any receiving waters.
- The Town has evaluated changes to the impairments and/or receiving waters based on the 2022 303(d) Integrated List. This review was submitted to EPA in the Year 5 Annual Report on September 28, 2023. The changes described do not add, remove, or change any receiving waters.

Reporting includes:

- Year 1 Annual Report and attachments:
  - Inventory of Sanitary Sewer Overflows, 2013 through June 30, 2019
  - Permit Year 1 Outfall Inventory
  - Webster Dry Weather Screening Field Effort Summary
- Year 2 Annual Report and attachments:
  - Summary of Webster's TMDLs and Impaired Waters
- Year 3 Annual Report
- Year 4 Annual Report and attachments:
  - MassDEP SSO Notification Form
  - Summary of Webster's TMDLs and Impaired Waters
  - Outfall Inventory and Screening *(available electronically)*
- Year 5 Annual Report and attachments:
  - Summary of Webster's TMDLs and Impaired Waters
  - Outfall Inventory and Screening Memorandum *(available electronically)*
  - Webster Retrofit Assessment and Nitrogen Source Identification Report
- Year 6 Annual Report and attachments:
  - Dry Weather Screening & Catchment Investigations Summary *(available electronically)*
  - BMP Nitrogen Removal Estimate Calculations
- Year 7 Annual Report and attachments:
  - Dry Weather Screening & Catchment Investigations Summary *(available electronically)*

Permit Year 1

(May 1, 2018 – June 30, 2019)

Year 1 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: May 1, 2018-June 30, 2019

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

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.

Part I: Contact Information

Name of Municipality or Organization: Town of Webster

EPA NPDES Permit Number: MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster State: MA Zip Code: 01570

Email: kpizzetti@webster-ma.gov Phone Number: (508) 949-3862

Fax Number: (508) 949-3873

Stormwater Management Program (SWMP) Information

SWMP Location (web address): https://www.webster-ma.gov/913/4906/Stormwater-Management

Date SWMP was Last Updated: June 2019

If the SWMP is not available on the web please provide the physical address and an explanation of why it is not posted on the web:

Part II: Self Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4.

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.*

Year 1 Requirements

- ☒ Develop and begin public education and outreach program
- ☒ Identify and develop inventory of all known locations where SSOs have discharged to the MS4 in the last 5 years
  - ◉ The SSO inventory is attached to the email submission
  - ○ The SSO inventory can be found at the following website:
- ☒ Develop written IDDE plan including a procedure for screening and sampling outfalls
- ☒ IDDE ordinance complete
- ☒ Identify each outfall and interconnection discharging from MS4, classify into the relevant category, and priority rank each catchment for investigation
  - ◉ The priority ranking of outfalls/interconnections is attached to the email submission
  - ○ The priority ranking of outfalls/interconnections can be found at the following website:
- ☒ Construction/ Erosion and Sediment Control (ESC) ordinance complete
- ☒ Develop written procedures for site inspections and enforcement of sediment and erosion control measures
- ☒ Develop written procedures for site plan review
- ☒ Keep a log of catch basins cleaned or inspected
- ☒ Complete inspection of all stormwater treatment structures

Annual Requirements

- ☒ Annual opportunity for public participation in review and implementation of SWMP
- ☒ Comply with State Public Notice requirements
- ☒ 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
- ☒ All curbed roadways have been swept a minimum of one time per year

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

Annual Requirements

*Public Education and Outreach**

- ☒ Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- ☐ Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- ☒ Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

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

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

Annual Requirements

*Public Education and Outreach**

- ☒ Distribute an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers
- ☒ Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- ☐ Distribute 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

- ☒ Increase 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)

Potential structural BMPs

- ☐ Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen removal by the BMP consistent with Attachment 1 to Appendix H. Document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP in each each annual report

Solids, Oil and Grease (Hydrocarbons), or Metals

Annual Requirements

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

☒ Increase street sweeping frequency of all municipal owned streets and parking lots to a schedule to target areas with potential for high pollutant loads

☐ Prioritize inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings

Use the box below to input additional details on any unchecked boxes above or any additional information you would like to share as part of your self assessment:

Bacteria/Pathogens Public Education and Outreach: Disseminating information about proper pet waste management during dog license renewals, required by Appendix H for discharges to waterbodies impaired by bacteria/pathogens, was not completed during Permit Year 1. The Town plans to begin this activity in Permit Year 2.

Nitrogen Public Education and Outreach: While the Town maintains a webpage dedicated to the compost facility, where residents can dispose of brush, leaves, and grass clippings, a targeted message was not distributed during Permit Year 1, per Appendix F for discharges to waterbodies subject to an approved Nitrogen TMDL. The Town will distribute this message in Permit Year 2.

Nitrogen Potential Structural BMPs: Mapping of structural BMPs and stormwater treatment structures is not due until Permit Year 2. Therefore, BMPs have not been tracked or estimated for nitrogen removal. This will begin during Permit Year 3, after Town-owned structural BMPs and treatment structures have been identified and mapped as part of Phase I mapping efforts.

Solids Good Housekeeping: Catch basins are cleaned throughout Town on a regular basis and priority areas (e.g., Webster Lake) are cleaned more often. However, the Town has not begun tracking the sediment loading in catch basins and therefore cannot confirm whether any sumps have been more than 50 percent full. The Town anticipates tracking this in future Permit Years.

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:

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 the reporting period: 3

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

BMP:Public Education and Outreach to Residents (Multi-Media Methods)

Message Description and Distribution Method:

A brochure entitled "Lawn Care Tips: 'Green the grass, not the water'" is available on the Conservation Commission webpage. This document describes proper lawn care and fertilizing procedures and helps satisfy the requirements of Appendix F for discharges to waters subject to a Nitrogen TMDL.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

Visitors to the Conservation Commission webpage are able to view and download this educational brochure.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Multi-Media Methods)

Message Description and Distribution Method:

The Town has installed signs promoting the proper management of pet waste in areas with high concentrations of dogs throughout Town (e.g., walking trails near the French River). This helps satisfy the requirements of Appendix H for discharges to waters impaired by bacteria/pathogens and the requirements of Appendix F for discharges to waters subject to a Nitrogen TMDL.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

Visitors to the areas with these signs are able to learn about proper pet waste management.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Multi-Media Methods)

Message Description and Distribution Method:

The Health Department webpage includes information about septic systems and provides a link to EPA's SepticSmart website, which provides resources for homeowners to learn about septic system operation and maintenance. This helps satisfy the requirements of Appendix H for discharges to waters impaired by bacteria/ pathogens.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

Visitors to the Health Department webpage are able to view these resources.

Message Date(s): Ongoing

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:

Add an Educational Message

MCM2: Public Participation

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

The Stormwater Management Program (SWMP) was presented at a public Board of Selectmen meeting on September 17, 2018, where public comments and feedback were solicited. The Town complied with Massachusetts Public Notice requirements and posted the meeting on September 13, 2018.

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

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

The annual Earth Day cleanup event was held twice in Permit Year 1: on April 21, 2018 and on April 27, 2019. Many bags of trash, tires, and other debris are cleaned up during these events.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

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

Number of SSOs identified: 0

Number of SSOs removed: N/A

Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.

Total number of SSOs identified: 0

Total number of SSOs removed: N/A

MS4 System Mapping

Describe the status of your MS4 map, including any progress made during the reporting period (phase I map due in year 2):

Phase I mapping elements are complete except for Town-owned stormwater treatment structures. Many Phase II mapping elements are complete, including manholes, catch basins, and most connectivity. The Town will continue to improve the map as modifications are made and the IDDE Program is implemented.

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.

- ◉ The outfall screening data is attached to the email submission
- ○ The outfall screening data can be found at the following website:

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

Number of outfalls screened: 215

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

Percent of total outfalls screened: 80%

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.

- ○ The catchment investigation data is attached to the email submission
- ○ The catchment investigation data can be found at the following website:

N/A

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0%

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

Catchment investigations have not been started because the Town has not identified any Problem catchments.

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.

- ○ The illicit discharge removal report is attached to the email submission
- ○ The illicit discharge removal report can be found at the following website:

N/A

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: 0

Number of illicit discharges removed: N/A

Estimated volume of sewage removed: N/A [UNITS]

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.

Total number of illicit discharges identified: 0

Total number of illicit discharges removed: N/A

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

Employee Training

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

The Town's stormwater consultant provided an IDDE training to Highway Department staff on June 19, 2019.

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: 4

Number of inspections completed: 6

Number of enforcement actions taken: 0

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

Ordinance Development

Describe the status of the post-construction ordinance required to be complete in year 2 of the permit term:

Chapter 570 of the Town's General Bylaws includes Stormwater Management and Erosion Control requirements. The Town will review existing bylaws and regulations to determine whether updates or additions are needed to meet the requirements of the General Permit in Permit Year 2.

As-built Drawings

Describe the status of the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites required to be complete in year 2 of the permit term:

This requirement has been met through the adoption of Article VII, Section 650-59 of the Zoning Bylaw and Section III, Part C.5 of the Rules and Regulations Governing the Subdivision of Land, which require the submission of as-built drawings, as well as Section IV, Part H.8.D of the Rules and Regulations Governing the Subdivision of Land, which requires continued operation and maintenance for BMPs. The Town will review existing bylaws and regulations and determine whether updates or additions are needed to meet the requirements of the General Permit in Permit Year 2.

Street Design and Parking Lots Report

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

Preparation for the Street Design and Parking Lots Report has not yet begun as this requirement is due in Permit Year 4.

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

Preparation for the Green Infrastructure Report has not yet begun as this requirement is due in Permit Year 4.

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

Preparation for the Retrofit Properties Inventory has not yet begun as this requirement is due in Permit Year 4.

MCM6: Good Housekeeping

Catch Basin Cleaning

Describe the status of the catch basin cleaning optimization plan:

Section 4 of the Municipal Good Housekeeping and Pollution Prevention Program (November 2015) describes

If complete, attach the catch basin cleaning optimization plan or the schedule to gather information to develop the optimization plan:

- ○ The catch basin cleaning optimization plan or schedule is attached to the email submission
- ○ The catch basin cleaning optimization plan or schedule can be found at the following website:

The Municipal Good Housekeeping and Pollution Prevention Program (November 2015) is available at the Highway Department, 32 Cudworth Road. The catch basin optimization plan is currently under development.

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: 150

Number of catch basins cleaned: 150

Total volume or mass of material removed from all catch basins: 3-4 (est.) tons

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

Total number of catch basins: 2,434

If applicable:

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

N/A

Street Sweeping

Describe the status of the written procedures for sweeping streets and municipal-owned lots:

Street sweeping occurs twice per year: once in the spring and once in the fall. Additional sweeping is completed in the downtown area throughout the rest of the year.

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

- ◉ Number of miles cleaned: 140
- ○ Volume of material removed: [UNITS]
- ○ Weight of material removed: [UNITS]

If applicable:

For rural uncurbed roadways with no catch basins, describe the progress of the inspection, documentation, and targeted sweeping plan:

Winter Road Maintenance

Describe the status of the written procedures for winter road maintenance including the storage of salt and sand:

Complete. Standard operating procedures (SOPs) are included in the Municipal Good Housekeeping and Pollution Prevention Program (November 2015). Deicing materials are stored in a covered shed.

Inventory of Permittee-Owned Properties

Describe the status of the inventory, due in year 2 of the permit term, of permittee-owned properties, including parks and open spaces, buildings and facilities, and vehicles and equipment, and include any updates:

Complete. The inventory is included in the Municipal Good Housekeeping and Pollution Prevention Program (November 2015).

O&M Procedures for Parks and Open Spaces, Buildings and Facilities, and Vehicles and Equipment

Describe the status of the operation and maintenance procedures, due in year 2 of the permit term, of permittee-owned properties (parks and open spaces, buildings and facilities, vehicles and equipment) and include maintenance activities associated with each:

Complete. SOPs are included in the Municipal Good Housekeeping and Pollution Prevention Program (November 2015).

Stormwater Pollution Prevention Plan (SWPPP)

Describe the status of any SWPPP, due in year 2 of the permit term, for permittee-owned or operated facilities including maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater:

Complete. A SWPPP was completed for the Highway Department (March 2015).

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

Number of site inspections completed: 4

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

None required.

O&M Procedures for Stormwater Treatment Structures

Describe the status of the written procedure for stormwater treatment structure maintenance:

Complete. SOPs are included in the Municipal Good Housekeeping and Pollution Prevention Program (November 2015).

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 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

Optional: 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:

The Town of Webster completed the dry weather screening field effort prior to Permit Year 1 using multiple stormwater consultants. The Town has attempted to investigate and screen 100% of the MS4 outfalls, but could not locate approximately 50. The Town continues to implement its IDDE Program to field locate and screen outfalls that could not previously be located. The outfall inventory enclosed with this annual report includes the results of Tighe & Bond's screening effort. Additional hard copies of outfall investigation field sheets with inventory and screening information is available at the Town's Highway Department at 32 Cudworth Road, Webster. A summary memorandum is also enclosed with this annual report outlining the work that has been completed to date.

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 2 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

- Complete system mapping Phase I
- Begin investigations of catchments associated with Problem Outfalls
- Develop or modify an ordinance or other regulatory mechanism for post-construction stormwater runoff from new development and redevelopment
- Establish and implement written procedures to require the submission of as-built drawings no later than two years after the completion of construction projects
- Develop, if not already developed, written operations and maintenance procedures
- Develop an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; review annually and update as necessary
- Establish a written program detailing the activities and procedures the permittee will implement so that the MS4 infrastructure is maintained in a timely manner
- Develop and implement a written SWPPP for maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater
- Enclose or cover storage piles of salt or piles containing salt used for deicing or other purposes
- Develop, if not already developed, written procedures for sweeping streets and municipal-owned lots
- Develop, if not already developed, written procedures for winter road maintenance including storage of salt and sand
- Develop, if not already developed, a schedule for catch basin cleaning
- Develop, if not already developed, a written procedure for stormwater treatment structure maintenance
- Develop a written catchment investigation procedure *(18 months)*

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 in the last 5 years
- 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 uncurbed streets at least annually

Provide any additional details on activities planned for permit year 2 below:

The Town acknowledges the General Permit Year 2 requirements and will complete as many activities as possible based on funding and staff availability.

Part V: Certification of Small MS4 Annual Report 2019

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:	Doug Willardson	Title:	Town Administrator
Signature:	Doug Willardson	Date:	9/30/19

[Signatory may be a duly authorized representative]

2013 through June 30, 2019:

No SSO events have occurred in which sewerage has entered the stormwater system or public waterway.

Webster, MA
Permit Year 1 Outfall Inventory

Tighe & Bond Outfall ID	Outfall ID 1	Outfall ID 2	Receiving Water	Preliminary Rank	Latitude	Longitude	Inspector*	Inspection Date	Inspector	Street Name	Condition	Outlet Structure	Outfall Diameter	Pipe Material	Outfall Shape	QTY	Slope	Submerged?	Physical Indicators Present?	Flow Description	Physical Indicators in Flow?	Material	Illicit Dishargе Potential	O&M Notes	Comments	Flow Rate	Temp degC	Conductivity umhos	Salinity ppt	Surfactants mg/L	NH3 mg/L	Chlorine m/L	Ecoli col/CFU	Fecal MPN/CFU	TSS mg/L	Turbidity	Nitrogen	pH
BB1-1			Browns Brook Wetland	Low	42.05838826	-71.82289992	Tighe & Bond	07/18/16	CLS, NLS	Douglas Rd	GOOD	HEADWALL	12	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY	Clean pipe													
BB2-1	37-003	37-003	Outside Rec	Low	42.05253657	-71.83635367	Tighe & Bond	07/18/16	CLS, NLS	Douglas Rd	CORRODED	HEADWALL	12	CMP	ROUND	SINGLE				DRY			UNLIKELY	Repair pipe	CMP difficult to access, could not verify diameter or sediment buildup												
BB2-2	37-012	10.3-008	Browns Brook Wetland	Low	42.05164925	-71.83616576	Tighe & Bond	07/18/16	CLS, NLS	Gore Rd	GOOD	HEADWALL, RIPRAP	48	RCP	ROUND	SINGLE	MODERATE	WATER	POOR POOL QUAL	TRICKLE	FLOATABLES		POTENTIAL		Culvert under road, flow coming from upstream rip rap - recommend town investigate source of flow; FLOW - floatables suds 1-few, suds in pool												
BB2-3	37-013	10.3-009	Browns Brook Wetland	Low	42.05159636	-71.83620856	Tighe & Bond	07/18/16	CLS, NLS	Gore Rd	DETERIORATED	HEADWALL, RIPRAP	24	RCP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY		Outfall next to culvert												
BB2-4	38-005	38-005	Unnamed Tributary to Browns Brook Wetland	Low	42.05066815	-71.8287181	Tighe & Bond	07/18/16	CLS, NLS	Skyview Ln	CORRODED	HEADWALL	24	CMP	ROUND	SINGLE	MODERATE	WATER	POOR POOL QUAL	MODERATE	COLOR, TURBIDITY, FLOATABLES		POTENTIAL	Repair pipe	CULVERT - Upstream water body dammed near BB2-6 (cuvert under dwy); pipe diameter not verified; stone headwall; FLOW- brown, turbidity 2-cloudy, floatables suds 2-some												
BB2-5	38-001	38-001	Unnamed Tributary to Browns Brook Wetland	Low	42.05039565	-71.8285656	SDE						0																							
BB2-6	38-002	38-002	Unnamed Tributary to Browns Brook Wetland	Low	42.04956027	-71.82804066	Tighe & Bond	07/18/16	CLS, NLS	Skyview Ln	GOOD	NONE	12	CMP	ROUND	SINGLE	MODERATE	SEDIMENT		DRY			UNLIKELY		CMP outfall discharging to stream with upstream box culvert and stoplogs												
BB2-7	38-003		Unnamed Tributary to Browns Brook Wetland	Low	42.04925433	-71.83061287	SDE						0																							
CP-1	22-001	22-001	Club Pond Wetland	Low	42.06516699	-71.85655539	Tighe & Bond	07/21/16	CLS, NGK	Sutton Rd	GOOD	HEADWALL	21	RCP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY		Pipe diameter not verified												
CP-2			Club Pond Wetland	Low	42.06478017	-71.85672712	Tighe & Bond	07/21/16	CLS, NGK	Sutton Rd			0					WATER		STANDING					Completely submerged; likely a culvert, no drainage in street; pool is orange both upstream and downstream												
CP-3	23-002	23-002	Outside Rec	Low	42.06057742	-71.85329599	SDE						0																							
CP-4	23-003	23-003	Club Pond Wetland	Low	42.06056859	-71.85323079	SDE						0																							
CP-5	29-003	9.2-003	Outside Rec	Low	42.06037395	-71.85261266	Tighe & Bond	07/18/16	CLS, NLS	Gore Rd	GOOD	HEADWALL	17	RCP	ROUND	SINGLE	MODERATE	SEDIMENT		DRY			UNLIKELY	Clean pipe												
CP-6	29-004	9.2-004	Outside Rec	Low	42.05974696	-71.85068946	Tighe & Bond	07/18/16	CLS, NLS	Gore Rd	CLOGGED	HEADWALL	12	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY	Clean pipe												
FB-1			Freemans Brook Wetland	Low	42.04506588	-71.8719642	SDE						0																							
FB-2			Freemans Brook Wetland	Low	42.04501107	-71.87084105	Tighe & Bond	07/18/16	CLS, NLS	Stefaniak Ave	GOOD	HEADWALL	15		ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY		DMH source												
FB-3			Freemans Brook Wetland	Low	42.04275579	-71.8727977	Tighe & Bond	07/18/16	CLS, NLS	Poland Rd	GOOD	NONE	36	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY													
FB-4	48-008	48-008	Freemans Brook Wetland	Low	42.04176348	-71.86943394	SDE						0																							
FB-5	48-003		Freemans Brook Wetland	Low	42.04097798	-71.87241324	SDE						0																							
FB-6	48-004	48-004	Freemans Brook Wetland	Low	42.04052835	-71.87177776	SDE						0																							
FB-7	48-005	48-005	Freemans Brook Wetland	Low	42.03928064	-71.86849053	Tighe & Bond	07/20/16	CLS, NLS	Cranberry Rd	GOOD	NONE	24	RCP	ROUND	SINGLE	FLAT	WATER, SEDIMENT		STANDING			UNLIKELY	Yard waste dumping area												
FB-7	48-005	48-005	Freemans Brook Wetland	Low	42.03928064	-71.86849053	Tighe & Bond	11/10/16	CLL, GSH	Lake Parkway			0							MODERATE			UNLIKELY		Outfall is in standing water, previously inventoried. Flow in upstream catch basin. Sampled 11/10/16	Filled a solo cup in 2.5 seconds	13.2	240	0.1	< 0.25	< 0.25	0.01	6			0.74	8.85
FB-8	48-007	48-007	Freemans Brook Wetland	Low	42.03940793	-71.87400233	SDE						0																							
FB-9	48-006	48-006	Freemans Brook Wetland	Low	42.0374535	-71.87005646	Tighe & Bond	07/20/16	CLS, NLS	Juniper Lane (end of road)	UNKNOWN - POOR		0		SINGLE			SEDIMENT		DRY			UNLIKELY	Headwall headwall, clean outfall area, evaluate condition of pipe	Outfall marker installed; mostly buried pipe, headwall leaning; pipe material and diameter unknown - possibly badly corroded CMP												
FB-10	47-011	47-011	Freemans Brook Wetland	Low	42.0396377	-71.88057843	SDE						0																							
FB-11	47-012	47-012	Freemans Brook Wetland	Low	42.03912124	-71.88145075	Tighe & Bond	07/20/16	CLS, NLS	Crosby St	GOOD	HEADWALL	12	CLAY	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY		Slight sanitary odor in pipe												
FB-12	47-015	47-015	Freemans Brook Wetland	Low	42.03828293	-71.87915539	Tighe & Bond	07/20/16	CLS, NLS	Kiebart St	CRACKED	HEADWALL	24	CLAY	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY	Repair / replace outfall pipe	"Headwall" consists of placed stones; pipe hinge joints cracked												
FB-13	47-013	47-013	Freemans Brook Wetland	Low	42.0375307	-71.880865	SDE						0																							
FB-14	56-002	16.2-001	Freemans Brook Wetland	Low	42.03549891	-71.87533167	Tighe & Bond	07/20/16	CLS, NLS	Highland St (end)	GOOD	NONE	15	RCP	ROUND	SINGLE	MODERATE	NO	PIPE BENTHIC GROWTH	DRY			UNLIKELY		SSPS; black benthic growth in pipe												
FB-15	56-003	16.2-002	Freemans Brook Wetland	Low	42.03537042	-71.87591002	SDE						0																							
FB-16	56-004	16.2-003	Outside Rec	Low	42.03220786	-71.87245313	Tighe & Bond	07/20/16	CLS, NLS	Abbey Rd	GOOD	HEADWALL	24	RCP	ROUND	SINGLE	FLAT	WATER, SEDIMENT		STANDING			UNLIKELY		Trash rack on outfall (rebar); standing water in pipe due to minor debris buildup at outfall												
FB-16	56-004	16.2-003	Outside Rec	Low	42.03220786	-71.87245313	Tighe & Bond	11/10/16	CLL, GSH	Abbey Rd			0							TRICKLE			UNLIKELY		Outfall is in standing water, previously inventoried. Trickle of flow in upstream DMH Sampled 11/10/16		11.8	1.4	0	< 0.25	0	0.02	< 1			1.86	9.2
FB-17	56-005	16.2-004	Unnamed Isolated Wetland	Low	42.03031246	-71.87491818	Tighe & Bond	07/20/16	CLS, NLS	Grenier Rd	GOOD	HEADWALL	18	RCP	ROUND	SINGLE	MODERATE	NO	PIPE BENTHIC GROWTH	TRICKLE			UNLIKELY		Green benthic growth												
FB-17	56-005	16.2-004	Unnamed Isolated Wetland	Low	42.03031246	-71.87491818	Tighe & Bond	07/22/16	CLS, NGK	Grenier Ave			0												Inventory 7/20; sandbag used - flow not measured; samples collected 7/22 at 15:30		22.7	0	0	0.25	0	0.15	< 1			2.62	7.39
FB-18	56-001	56-001	Freemans Brook Wetland	Low	42.02984466	-71.87291452	SDE						0																							
FB-19	58-006		Outside Rec	Low	42.03079914	-71.85282375	SDE						0																							
FB-20	66-011	17.4-011	Freemans Brook Wetland	Low	42.02619554	-71.85265651	Tighe & Bond	07/20/16	CLS, NLS	McGovern Ln	GOOD	HEADWALL	36	RCP	ROUND	SINGLE	MODERATE	NO		TRICKLE			UNLIKELY		Flow from culvert/stream, NOT from other inlets; 2 inlets observed up pipe												
FB-21	66-008	17.4-008	Freemans Brook	Low	42.0256646	-71.8523494	Tighe & Bond	07/20/16	CLS, NLS	McGovern Ln	CORRODED	HEADWALL	12	CMP	ROUND	SINGLE	FLAT	WATER, SEDIMENT		DRY			UNLIKELY	Repair outfall pipe	Pool/ DS channel color orange, pipe corroded; stone headwall; pipe submerged (D/S Webster Lake)												
FB-22	66-009	17.4-009	Freemans Brook Wetland	Low	42.02489407	-71.85211838	Tighe & Bond	07/20/16	CLS, NLS	Asselin Dr		HEADWALL	24	CMP	ROUND	SINGLE		WATER		STANDING					Standing water												
FB-23	66-010	17.4-010	Freemans Brook Wetland	Low	42.02488978	-71.8521446	Tighe & Bond	07/20/16	CLS, NLS	Asselin Dr		HEADWALL	12	CMP	ROUND	SINGLE		WATER		STANDING					Standing water submerging outfall												
FR1-10	10-001	10-001	Unnamed Isolated Wetland	Low	42.07754624	-71.86334724	SDE						0																							
FR1-11	9-001	9-001	Unnamed Tributary to French River	Low	42.07813459	-71.87463988	Tighe & Bond	07/13/16	CLS, NGK	end of Nancy			0							STANDING					Submerged - come back to sample U/S CB in front of 35 Nancy; standing water from water body												
FR1-12	9-002	9-002	Unnamed Isolated Wetland	Low	42.07740875	-71.87293355	Tighe & Bond	07/13/16	CLS, NGK	18 Victoria	GOOD	HEADWALL	0	RCP				WATER		STANDING			UNLIKELY		Partially submerged in standing water from wetland/stream - 3/4 submerged; trash rack												
FR1-13	9-003	9-003	Unnamed Isolated Wetland	Low	42.07744345	-71.87170555	SDE						0																							
FR1-14	9-006	9-006	Unnamed Isolated Wetland	Low	42.07645972	-71.87307348	SDE						0																							
FR1-15	9-007	9-007	Unnamed Isolated Wetland	Low	42.07327245	-71.87239881	SDE						0																							
FR1-16	9-004	9-004	French River Wetland	Low	42.07299179	-71.87509386	SDE						0																							
FR1-17			French River Wetland	Low	42.07155189	-71.87571263	Tighe & Bond	07/13/16	CLS, NGK	37 Stoughton	GOOD	NONE	15	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY		SEDIMENT	UNLIKELY		Outfall pipe approximately half full of sediment												
FR1-17			French River Wetland	Low	42.07155189	-71.87571263	Tighe & Bond	07/13/16	CLS, NGK	Riverside Dr	GOOD	NONE	15	RCP	ROUND	SINGLE	FLAT	SEDIMENT	EROSION	DRY			UNLIKELY		Sediment in pipe 1/2 filled; no downstream erosion, top of pipe segment exposed												
FR1-18	15-003	15-003	Unnamed Isolated Wetland	Low	42.07150931	-71.8714388	SDE						0																							
FR1-19	15-002	15-002	French River Wetland	Low	42.07003915	-71.87457006	SDE						0																							
FR1-20			Unnamed Isolated Wetland	Low	42.06572474	-71.86546727	SDE						0																							
FR1-21			French River Wetland	Low	42.06087654	-71.87425033	Tighe & Bond	07/13/16	CLS, NGK	Slater - across from 52/54	GOOD	HEADWALL	24	RCP	ROUND	SINGLE	MODERATE	SEDIMENT		STANDING			UNLIKELY		Standing water in pipe/CB due to D/S sediment buildup; masonry wall; no flow upon revisit												
FR1-22	27-001	27-001	French River Wetland	Low	42.06004315	-71.87462701	Tighe & Bond	07/13/16	CLS, NGK	Crystal			0	RCP	ROUND	SINGLE		SEDIMENT		DRY			UNLIKELY	Need to clean debris and trash from D/S and outfall outlet area	RCP outfall buried/covered with debris and leaf buildup												
FR1-23	27-002	27-002	French River Wetland	Low	42.05919981	-71.87423737	Tighe & Bond	07/13/16	CLS, NGK	37 Stoughton, behind house	GOOD	NONE	15	RCP	ROUND	SINGLE	FLAT	SEDIMENT	EROSION	DRY			UNLIKELY		No flow, 2" sediment buildup; no flow present upon revisit												
FR1-24			French River Wetland	Low	42.06093522	-71.87934129	SDE						0																							
FR1-25			French River Wetland	Low	42.07655864	-71.8756385	Tighe & Bond	07/13/16	CLS, NGK	16 Hugo Terr.	GOOD	NONE	12	RCP	ROUND	SINGLE	FLAT	NO		DRY			UNLIKELY		Discharges to railroad tracks												
FR1-26	27-006	8-004	French River Wetland	Low	42.05809345	-71.88031367	SDE						0																							
FR1-31	27-009	8-007	French River Wetland	Low	42.05785676	-71.87979425	SDE						0																							
FR1-32	27-010	8-008	French River	Low	42.05723775	-71.87969372	SDE						0																							
FR1-33			French River Wetland	Low	42.05830432	-71.87809224	Tighe & Bond	07/13/16		North Main St			0												At least 2 ft; buried; picture taken												
FR1-34			French River Wetland	Low	42.05711136	-71.87361844	Tighe & Bond	07/13/16					0												New CB with orange staining from 4" PVC, most likely roof drain												
FR1-35			French River Wetland	Low	42.05694143	-71.87353628	Tighe & Bond	07/13/16	CLS, NGK	East Main, behind Auto Zone	GOOD	NONE	8	HDPE	ROUND	SINGLE	FLAT	NO		DRY			UNLIKELY		3 separate HDPE outfalls; moved location in GIS												
FR1-36			French River Wetland	Low	42.05693919	-71.87535326	SDE						0																							
FR1-37			French River Wetland	Low	42.05300046	-71.87070348	SDE						0																							
FR1-40	33-001	8-009	French River Wetland	Low	42.05315953	-71.8803686	SDE						0																							
FR1-41	33-003	8-011	French River Wetland	Low	42.05265278	-71.88057486	SDE						0																							
FR1-42	33-004	8-012	French River Wetland	Low	42.05162309	-71.88040853	SDE						0																							
FR1-43	33-005	8-013	French River	Low	42.05108165	-71.88130142	SDE						0																							
FR1-44	33-006	8-014	French River	Low	42.05108661	-71.88131764	Tighe & Bond	07/13/16	CLS, NGK	Fredrick St	GOOD	HEADWALL, RIPRAP	15	HDPE	ROUND	SINGLE	FLAT	NO		DRY			UNLIKELY		Likely lined pipe inside a clay pipe												
FR1-46	33-008	8-016	French River	Low	42.05103481	-71.88173969	SDE						0																							
FR1-52	33-014	8-022	French River	Low	42.05099386	-71.88301877	SDE						0																							
FR1-53	33-015	8-023	French River Wetland	Low	42.05061876	-71.88359173	Tighe & Bond	07/13/16	CLS, NGK	Tracy Court parking lot	GOOD	FLARED END	12	RCP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY		CB upstream, bench broken at base of outfall												
FR1-54	33-016	8-024	French River Wetland	Low	42.05060057	-71.88361295	SDE						0																							
FR1-55			French River Wetland	Low	42.0503943	-71.87533583	SDE						0																							
FR1-56			French River Wetland	High	42.04797624	-71.87870116	SDE						0																							
FR1-57			French River Wetland	High	42.04744871	-71.87985333	SDE						0																							
FR1-58			French River Wetland	High	42.0466934	-71.88070152	SDE						0																							
FR1-59			French River Wetland	High	42.04509951	-71.8810186	Tighe & Bond	07/18/16	CLS, NLS	Elm St	GOOD	HEADWALL	42	RCP	ROUND	SINGLE	FLAT	WATER		TRICKLE					CULVERT - NOT AN OUTFALL												
FR1-60			French River Wetland	Low	42.04422903	-71.88096996	Tighe & Bond	07/18/16	CLS, NLS	Boyden St Ext	GOOD, CRACKED	HEADWALL	12	CMP	ROUND	SINGLE	FLAT	WATER		DRY					1 - good, RCP, 36", in-s1tream CULVERT; 2 - cracked, CMP discharging to open-air culvert, OUTFALL												
FR1-61			French River Wetland	Low	42.0433666	-71.88020343	SDE						0																							
FR1-62			French River Wetland	Low	42.04330221	-71.87972905	SDE						0																							
FR1-63	48-009	48-009	French River Wetland	Low	42.04175335	-71.87833354	Tighe & Bond	07/20/16	CLS, NLS	Brook St	GOOD	HEADWALL	16	CMP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY		Last year backed up and flooded condo area according to resident; multiple dog waste bags in outfall channel												
FR1-64	48-001	48-001	French River Wetland	Low	42.0418452	-71.8772432	SDE	07/20/16	CLS, NLS	Myrtle Ave	GOOD	HEADWALL	30	RCP	ROUND	SINGLE	FLAT	WATER		STANDING			UNLIKELY		Likely DMH source												
FR2-1			Mill Brook Wetland	Low	42.06554935	-71.87439675	Tighe & Bond	11/09/16	CLL, town	Genevieve Ln	GOOD	FLARED END	16	RCP	ROUND	SINGLE		SEDIMENT		DRY			UNLIKELY	Clean leaves and sediment	Origin - catch basin in street												
FR2-2			Mill Brook Wetland	Low	42.06582136	-71.87541521	Tighe & Bond	07/13/16	CLS, NGK	9 Genevieve		RIPRAP	16	RCP	ROUND	SINGLE	MODERATE	SEDIMENT	EROSION, VEGETATION	DRY			UNLIKELY		CB's in street, locked in pool fence, decorative; pipe dimension measured in upstream CB												
FR2-3	28-002	28-002	Unnamed Tributary to Mill Brook Wetland	Low	42.06033383	-71.86614417	SDE						0																							
FR2-4	28-001	28-001	Unnamed Tributary to Mill Brook Wetland	Low	42.06033122	-71.86614618	Tighe & Bond	07/13/16	CLS, NGK	East Main, behind Wendy's	GOOD	HEADWALL	0	HDPE	ROUND								UNLIKELY		2 HDPE pipes												
FR2-5			Unnamed Tributary to Mill Brook Wetland	Low	42.05873777	-71.8631446	SDE						0																							
FR2-6	28-003	28-003	Unnamed Tributary to Mill Brook Wetland	Low	42.05801145	-71.86960744	Tighe & Bond	07/13/16	CLS, NGK	Paradis Lane	DETERIORATED	NONE	21	RCP	ROUND	SINGLE		WATER		STANDING			UNLIKELY		1/2 submerged in water; multiple pipe segments nearby; no dry weather flow												
FR2-7	28-004	28-004	Unnamed Tributary to Mill Brook	Low	42.05756074	-71.86616049	Tighe & Bond	07/13/16	CLS, NGK	Paradis Lane	GOOD	HEADWALL	0	RCP	ROUND	SINGLE	FLAT	NO		DRY			UNLIKELY		Stone headwall; pipe diameter not verified												
FR2-8	28-005	28-005	Unnamed Tributary to Mill Brook	Low	42.05727069	-71.86598453	Tighe & Bond	07/13/16	CLS, NGK	Paradis Lane	GOOD	NONE	0	RCP	ROUND	DOUBLE	FLAT	WATER		TRICKLE			UNLIKELY		2 pipes next to each other with flared ends, left larger and in stream, right smaller and not flowing w/ minor sediment; no dry weather flow												
FR2-9	28-009	28-009	Unnamed Tributary to Mill Brook Wetland	Low	42.05663301	-71.86618613	SDE						0																							
FR2-10	28-008	28-008	Unnamed Tributary to Mill Brook Wetland	Low	42.05630785	-71.86577632	SDE						0																							
FR2-11	28-006	28-006	Unnamed Tributary to Mill Brook Wetland	Low	42.05633373	-71.86408945	Tighe & Bond	11/09/16	CLL, town	Oak Tree Ln		NONE	0	RCP				WATER		STANDING			UNLIKELY		Upstream catch basin screened - no dry weather flow. Brush recently cleared by town from outfall discharge area. Oil sheen in water (likely from garage in close proximity to outfall)												
FR2-12			Unnamed Tributary to Mill Brook Wetland	Low	42.05547885	-71.86301883	SDE						0																							
FR3-10	33-017	8-025	French River	Low	42.05072297	-71.88517189	SDE						0																							
FR3-12	33-020	8-028	Wetland along French River Wetland MA42-05	Low	42.04921287	-71.88724723	SDE						0																							
FR3-13	33-022	9-030	Wetland along French River Wetland MA42-05	Low	42.04920489	-71.88723618	Tighe & Bond	07/13/16	CLS, NGK	6 Main St			0	CLAY	ROUND	SINGLE		NO		DRY			UNLIKELY		French river, water body nearby, at bridge; arial view only												
FR3-14	33-021	8-029	Wetland along French River Wetland MA42-05	Low	42.04919363	-71.88728051	SDE						0																							
FR3-15	33-019	8-027	Wetland along French River Wetland MA42-05	Low	42.04920803	-71.88723302	SDE						0																							
FR3-16	47-014		French River Wetland	Low	42.03688278	-71.88323503	SDE						0																							
FR3-17			French River Wetland	Low	42.03459064	-71.87925643	SDE						0																							
FR3-18			French River Wetland	Low	42.03248889	-71.87985695	Tighe & Bond	07/13/16	CLS, NGK	School St. at Applebee	GOOD	HEADWALL, RIPRAP	12	RCP	ROUND	SINGLE	FLAT	NO		DRY			UNLIKELY		CB upstream												
FR3-19			French River Wetland	Low	42.03109234	-71.87943904	Tighe & Bond	07/20/16	CLS, NLS	School St	GOOD	HEADWALL	12	RCP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY	Overgrown - cut back brambles	DMH in street												
FR3-20			French River Wetland	Low	42.03378295	-71.88665383	Tighe & Bond	07/20/16	CLS, NLS	Winter Haven Dr	GOOD	NONE	24	RCP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY													
FR3-21			French River Wetland	Low	42.03395405	-71.88353057	SDE						0																							
FR3-22			French River Wetland	Low	42.03275287	-71.88348979	Tighe & Bond	07/13/16	CLS, NGK	Hickory Lane	GOOD	NONE	0	RCP	ROUND	SINGLE	MODERATE	SEDIMENT		DRY			UNLIKELY		Densely vegetated inbetween houses, small amount of sediment												
FR3-23			French River Wetland	Low	42.03198183	-71.88329822	SDE						0																							
FR3-24			French River Wetland	Low	42.03154641	-71.88150628	SDE						0																							
FR3-25			French River Wetland	Low	42.02993982	-71.88117859	Tighe & Bond	07/20/16	CLS, NLS	Surrey Ln	DETERIORATED	NONE	12	RCP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY	Clear weeds/brush												
FR3-26			French River Wetland	Low	42.02990092	-71.88505809	Tighe & Bond	07/20/16	CLS, NLS	Brookside Ave	GOOD	NONE	9	DICI	ROUND	SINGLE	FLAT	NO		DRY			UNLIKELY	Repair pipe; overgrown - clear path to outfall	RCP in catch basin in HSE-29 drawing, correct direction towards DI outfall; some debris in pipe												
FR3-27	63-001	63-001	French River Wetland	Low	42.02884726	-71.88083183	Tighe & Bond	07/20/16	CLS, NLS	Surrey Ln	CRUSHED	NONE	12	RCP	ROUND	SINGLE	MODERATE	SEDIMENT		DRY			UNLIKELY		Upstream section has hole in top of pipe, covered with rock												
FR3-28	63-007		French River Wetland	Low	42.02864109	-71.88241882	SDE						0																							
FR3-29	63-002	63-002	French River Wetland	Low	42.02776993	-71.88141486	Tighe & Bond	07/20/16	CLS, NLS	Westview Dr	GOOD	HEADWALL	24	RCP	ROUND	SINGLE	MODERATE	NO	PIPE BENTHIC GROWTH	DRY			UNLIKELY		Outfall marker; brown benthic growth in pipe												
FR3-30	63-006	63-006	French River Wetland	Low	42.02657506	-71.88393488	SDE						0																							
FR3-31	63-005		French River Wetland	Low	42.02520001	-71.88324167	SDE						0																							
FR3-32	47-010	47-010	French River Wetland	Low	42.03530983	-71.88728809	SDE						0																							
FR4-1	63-003	63-003	French River Wetland	Low	42.02548842	-71.87945205	Tighe & Bond	07/20/16	CLS, NLS	Perryville Rd	GOOD	HEADWALL	16	RCP	ROUND	SINGLE	FLAT	WATER, SEDIMENT	CHANNEL BENTHIC GROWTH	STANDING			UNLIKELY		Standing water; downstream orange deposits in water; "headwall" made of placed stones												
FR4-2	63-004	63-004	French River Wetland	Low	42.02367031	-71.88273555	Tighe & Bond	07/20/16	CLS, NLS	Railroad tracks at Perryville Rd	GOOD	NONE	48	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY		Railroad tracks												
NP-1	2-001	2-001	Nipmuck Pond Wetland	Low	42.08868321	-71.83156207	SDE						0																							
NP-2	2-

Webster, MA
Permit Year 1 Outfall Inventory

Tighe & Bond Outfall ID	Outfall ID 1	Outfall ID 2	Receiving Water	Preliminary Rank	Latitude	Longitude	Inspector*	Inspection Date	Inspector	Street Name	Condition	Outlet Structure	Outfall Diameter	Pipe Material	Outfall Shape	QTY	Slope	Submerged?	Physical Indicators Present?	Flow Description	Physical Indicators in Flow?	Material	Illicit Dishargе Potential	O&M Notes	Comments	Flow Rate	Temp degC	Conductivity umhos	Salinity ppt	Surfactants mg/L	NH3 mg/L	Chlorine mi/L	Ecoli col/CFU	Fecal MPN/CFU	TSS mg/L	Turbidity	Nitrogen	pH
SB-9	11-007	11-007	Sucker Brook Wetland	Low	42.07630276	-71.85397203	SDE						0																								
SB-10	6-002	6-002	Sucker Brook Wetland	Low	42.08214873	-71.84364515	SDE						0																								
SB-11	6-004	6-004	Sucker Brook Wetland	Low	42.07913115	-71.84523441	SDE						0																								
SB-12	11-002	11-002	Sucker Brook Wetland	Low	42.07842625	-71.84588799	SDE						0																								
SB-13			Sucker Brook Wetland	Low	42.07541893	-71.84827214	SDE						0																								
SB-14	11-005	11-005	Sucker Brook Wetland	Low	42.07426326	-71.8510337	SDE						0																								
SB-15	5-004	5-004	Sucker Brook Wetland	Low	42.0816165	-71.85033898	SDE						0																								
SB-16	5-002	5-002	Sucker Brook Wetland	Low	42.08321149	-71.84697017	SDE						0																								
SB-17			Sucker Brook Wetland	Low	42.07326332	-71.85590931	SDE						0																								
SB-18	11-003	11-003	Sucker Brook Wetland	Low	42.07601138	-71.84808536	SDE						0																								
SB-19			Sucker Brook Wetland	Low	42.0721774	-71.85613969	SDE						0																								
SB-20			Sucker Brook Wetland	Low	42.06807304	-71.85463543	Tighe & Bond	07/21/16	CLS, NGK	Minebrook Rd @ Sutton Rd	GOOD	HEADWALL	16	RCP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY		2 pipes - 1 outfall from catch basin inlet across Sutton (right); 1 outlet culvert to across Minbrook (left, 12" RCP)												
SB-21			Sucker Brook	Low	42.07230347	-71.85299525	Tighe & Bond	07/21/16	CLS, NGK	Kingsberry Rd	GOOD	HEADWALL	24	CMP	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY		Box culvert to right of outfall located at same spot; minor corrosion at outlet end; stone headwall												
WL-1	37-005	10.3-001	Webster Lake Wetland	Low	42.05391032	-71.84064242	SDE						0																								
WL-2	37-006	10.3-002	Webster Lake Wetland	Low	42.05451132	-71.84121312	SDE						0																								
WL-3	37-007	10.3-003	Webster Lake Wetland	Low	42.05418329	-71.8412302	SDE						0																								
WL-4	37-008	10.3-004	Webster Lake Wetland	Low	42.05417041	-71.84124491	SDE						0																								
WL-5	37-009	10.3-005	Outside Rec	Low	42.05279565	-71.83872772	SDE						0																								
WL-6	37-010	10.3-006	Outside Rec	Low	42.05248759	-71.83779697	SDE						0																								
WL-7	37-011	10.3-007	Webster Lake Wetland	Low	42.05239468	-71.83756127	SDE						0																								
WL-8	37-014	10.3-010	Webster Lake	Low	42.04982092	-71.83831554	SDE						0																								
WL-9	37-015	10.3-011	Webster Lake	Low	42.05155468	-71.83927573	Tighe & Bond	07/18/16	CLS, NLS	Lakeview Rd	GOOD, DETERIORATED	NONE	12	RCP	ROUND	DOUBLE	MODERATE	NO		DRY			UNLIKELY	Repair left pipe	left - poor; right - good												
WL-10	37-017	10.3-013	Webster Lake	Low	42.05124823	-71.84104897	SDE						0																								
WL-12	42-001	13.1-001	Outside Rec	Low	42.06535797	-71.86103859	SDE						0																								
WL-13	42-002	13.1-002	Outside Rec	Low	42.06528742	-71.86104607	SDE						0																								
WL-14	42-003	13.1-003	Outside Rec	Low	42.04596628	-71.86077306	SDE						0																								
WL-15	42-004	13.1-004	Outside Rec	Low	42.04690633	-71.85802545	SDE						0																								
WL-16	42-005	13.1-005	Outside Rec	Low	42.04610048	-71.85648697	Tighe & Bond	07/20/16	CLS, NLS	Birch Island Rd	GOOD	NONE	0	RCP	ROUND	SINGLE		WATER, SEDIMENT		STANDING			UNLIKELY		Catch basin source; could not verify pipe diameter or condition; downstream Webster Lake; PS												
WL-17	42-006	13.1-006	Outside Rec	Low	42.04230302	-71.85815526	SDE						0																								
WL-18	42-007	13.1-007	Outside Rec	Low	42.04288188	-71.85937564	SDE						0																								
WL-19	42-008	13.1-008	Outside Rec	Low	42.04251698	-71.85929221	SDE						0																								
WL-20	42-009	13.1-009	Outside Rec	Low	42.04191671	-71.85900678	SDE						0																								
WL-21	42-010	13.1-010	Webster Lake Wetland	Low	42.04325809	-71.86162944	SDE						0																								
WL-22	42-011	13.1-011	Webster Lake Wetland	Low	42.04379915	-71.86185493	SDE						0																								
WL-23	42-012	13.1-012	Webster Lake Wetland	Low	42.04495147	-71.8617858	SDE						0																								
WL-24	42-013	13.1-013	Webster Lake Wetland	Low	42.04520062	-71.86134503	SDE						0																								
WL-25	42-014	13.1-014	Webster Lake Wetland	Low	42.04443057	-71.86101822	SDE						0																								
WL-27	43-001	13.2-001	Webster Lake	Low	42.04507418	-71.84529817	SDE						0																								
WL-28	43-002	13.2-002	Webster Lake	Low	42.04466779	-71.84812961	SDE						0																								
WL-29	43-003	13.2-003	Webster Lake	Low	42.04469282	-71.84857975	SDE						0																								
WL-30	43-004	13.2-004	Webster Lake	Low	42.04502586	-71.84979594	SDE						0																								
WL-31	43-005	13.2-005	Webster Lake	Low	42.04457478	-71.85245605	SDE						0																								
WL-32	43-006	13.2-006	Outside Rec	Low	42.04629933	-71.853311	SDE						0																								
WL-33	43-007	13.2-007	Outside Rec	Low	42.04750369	-71.84657901	SDE						0																								
WL-34	43-008	13.2-008	Outside Rec	Low	42.04608936	-71.85631301	SDE						0																								
WL-35	43-009	13.2-009	Webster Lake	Low	42.04595853	-71.85612404	SDE						0																								
WL-36	52-001	14.4-001	Webster Lake Wetland	Low	42.03976914	-71.82606871	SDE						0																								
WL-37	52-002	14.4-002	Webster Lake Wetland	Low	42.03890967	-71.82639548	SDE						0																								
WL-38	52-003	14.4-003	Webster Lake Wetland	Low	42.03828122	-71.82575515	SDE						0																								
WL-39	52-004	14.4-004	Webster Lake Wetland	Low	42.03733687	-71.82489256	SDE						0																								
WL-40	52-005	14.4-005	Webster Lake Wetland	Low	42.03749002	-71.82505679	SDE						0																								
WL-41	52-006	14.4-006	Outside Rec	Low	42.03781023	-71.82697272	SDE						0																								
WL-42	52-007	14.4-007	Webster Lake	Low	42.03607775	-71.82903605	Tighe & Bond	07/21/16	CLS, NGK	Mark Ave			0				FLAT	WATER							Outfall partially submerged, pipe not visible; upstream catch basin full of water; next to Webster Lake												
WL-43	52-008	14.4-008	Webster Lake	Low	42.03709551	-71.82929137	SDE						0																								
WL-44	52-009	14.4-009	Webster Lake	Low	42.03807448	-71.82939761	SDE						0																								
WL-45	52-010	14.4-010	Webster Lake	Low	42.03739325	-71.83051074	Tighe & Bond	07/21/16	CLS, NGK	Bates Point Rd			0					WATER							Discharge into Webster Lake, possible channel												
WL-46	52-011	14.4-011	Webster Lake	Low	42.03830937	-71.8329463	SDE						0																								
WL-47	66-002	17.4-001	Outside Rec	Low	42.02799397	-71.84965986	SDE						0																								
WL-48	66-003	17.4-002	Outside Rec	Low	42.02741989	-71.84921763	SDE						0																								
WL-49	66-004	17.4-003	Outside Rec	Low	42.0265688	-71.84818924	SDE						0																								
WL-50	66-001	17.4-004	Outside Rec	Low	42.02815544	-71.84767921	SDE						0																								
WL-51	66-005	17.4-005	Webster Lake Wetland	Low	42.02608406	-71.84707745	SDE						0																								
WL-52	66-006	17.4-006	Outside Rec	Low	42.02551475	-71.84688641	SDE						0																								
WL-53	66-007	17.4-007	Outside Rec	Low	42.02418829	-71.84572273	SDE						0																								
WL-56	60-006	18-003	Webster Lake	Low	42.03490109	-71.82921288	SDE						0																								
WL-61	60-011	18-008	Outside Rec	Low	42.03449972	-71.82571322	Tighe & Bond	07/21/16	CLS, NGK	Wakefield Ave	GOOD	HEADWALL	12	HDPE	ROUND	SINGLE	MODERATE	NO		DRY			UNLIKELY	Repair headwall; catch basin structure exposed	Catch basin structure												
WL-62	60-012	18-009	Wetland along Webster Lake	Low	42.03279008	-71.82530449	SDE						0																								
WL-65	68-002	18-012	Webster Lake	Low	42.02918202	-71.8268054	Tighe & Bond	07/20/16	CLS, NLS	Lakeside Ave			0												Could not access - decorative flowers and rocks												
WL-66	68-003	18-013	Webster Lake	Low	42.02763778	-71.82699045	SDE						0																								
WL-69	68-006	18-016	Webster Lake Wetland	Low	42.02626363	-71.82454195	SDE						0																								
WL-71	68-008	18-018	Outside Rec	Low	42.02811283	-71.83084655	SDE						0																								
WL-72	68-009	18-019	Outside Rec	Low	42.02881109	-71.83129732	SDE						0																								
WL-74	68-010	18-021	Webster Lake	Low	42.02729627	-71.8319237	SDE						0																								
WL-77	68-013	18-024	Webster Lake	Low	42.02587319	-71.83199081	SDE						0																								
WL-78	68-014	18-025	Webster Lake	Low	42.02577943	-71.83331723	Tighe & Bond	07/20/16	CLS, NLS	Indian Ln	CRUSHED	OTHER	0	CMP	ROUND	SINGLE		WATER		STANDING			UNLIKELY		2 CMP outfalls in fair/poor condition - left: facing upstream, submerged; right not submerged; pump and piping between outfalls; outfalls in above-ground concrete infiltration structures; pipe dimensions unknown												
WL-79	68-016	18-026	Webster Lake	Low	42.02579226	-71.83333726	SDE						0																								
WL-80	68-015	18-027	Webster Lake	Low	42.02580071	-71.83387621	SDE						0																								
WL-81	67-001	18-028	Webster Lake	Low	42.02585291	-71.83592436	SDE						0																								
WL-82	67-002	18-029	Webster Lake	Low	42.02585859	-71.8358814	SDE						0																								
WL-83	67-003	18-030	Webster Lake	Low	42.02585303	-71.83587983	SDE						0																								
WL-85	59-001	19-032	Webster Lake Wetland	Low	42.03138972	-71.84082762	SDE						0																								
WL-86	67-005	18-033	Webster Lake Wetland	Low	42.02802232	-71.84050034	SDE						0																								
WL-87	59-002	18-034	Outside Rec	Low	42.03310255	-71.8386625	SDE						0																								
WL-88	69-001	19.3-001	Outside Rec	Low	42.029306	-71.82102054	SDE						0																								
WL-89	69-002	19.3-002	Outside Rec	Low	42.0282116	-71.81981504	SDE						0																								
WL-90	69-005	19.3-005	Webster Lake Wetland	Low	42.02566817	-71.82261826	SDE						0																								
WL-91	53-001	53-001	Webster Lake	Low	42.06110808	-71.85928143	SDE						0																								
WL-92	37-001	37-001	Outside Rec	Low	42.05410983	-71.84052282	SDE						0																								
WL-93	37-002	37-002	Outside Rec	Low	42.05242615	-71.83707726	SDE						0																								
WL-94	45-001	45-001	Outside Rec	Low	42.04527317	-71.83156254	SDE						0																								
WL-95	45-002	45-002	Outside Rec	Low	42.0449401	-71.83134503	SDE						0																								
WL-96	45-003	45-003	Outside Rec	Low	42.04388904	-71.8311139	SDE						0																								
WL-97	45-004	45-004	Outside Rec	Low	42.04270511	-71.83053386	Tighe & Bond	07/18/16	CLS, NLS	Lower Gore Rd	GOOD	HEADWALL	24	RCP	ROUND	SINGLE	MODERATE	NO	PIPE BENTHIC GROWTH	DRY			UNLIKELY		Masonry headwall; blackish vegetative growth in pipe and downstream												
WL-98	45-005	45-005	Unnamed Tributary Wetland	Low	42.04326936	-71.8251204	SDE						0																								
WL-99	46-002	46-002	Unnamed Tributary Wetland	Low	42.04233297	-71.81860068	SDE						0																								
WL-100	53-001	53-001	Unnamed Tributary Wetland	Low	42.04116483	-71.81524381	SDE						0																								
WL-101	53-002	53-002	Unnamed Tributary Wetland	Low	42.04034305	-71.81907845	SDE						0																								
WL-102	53-004	53-004	Outside Rec	Low	42.03588436	-71.82298888	SDE						0																								
WL-103	58-001	58-001	Webster Lake	Low	42.03457612	-71.85287279	Tighe & Bond	07/20/16	CLS, NLS		GOOD	NONE	12	RCP	ROUND	SINGLE		WATER		UNKNOWN			UNLIKELY		Direct discarge to Webster Lake, source catch basin in street												
WL-104	58-002	58-002	Webster Lake	Low	42.0343202	-71.853582	Tighe & Bond	07/20/16	CLS, NLS			HEADWALL	0	CMP		SINGLE		WATER, SEDIMENT		UNKNOWN			UNLIKELY		Direct discarge to Webster Lake, source catch basin in street, pipe barely visible, diameter and condition unknown												
WL-105	58-003	58-003	Webster Lake Wetland	Low	42.03354288	-71.8547656	SDE						0																								
WL-106	58-004	58-004	Webster Lake	Low	42.03215369	-71.85206652	SDE						0																								
WL-107	58-005	58-005	Webster Lake	Low	42.03006159	-71.85159892	SDE						0																								
WL-108	60-001	60-001	Outside Rec	Low	42.03517573	-71.82711063	SDE						0																								
WL-109	60-002	60-002	Webster Lake Wetland	Low	42.03322444	-71.82370417	SDE						0																								
WL-110	61-001	61-001	Outside Rec	Low	42.03358177	-71.82203062	Tighe & Bond	07/18/16	CLS, NLS	Lakeside Ave	GOOD	HEADWALL	0	CMP	ROUND	DOUBLE	MODERATE	WATER, SEDIMENT		STANDING			UNLIKELY		Standing water, 2 CMP pipes, no apparent flow but light flow downstream; left 24", right 12"												
WL-111	68-001	68-001	Webster Lake	Low	42.02520182	-71.83042398	SDE						0																								
WL-112	29-001	9.2-001	Webster Lake	Low	42.05996688	-71.84726364	SDE						0																								
WL-113	29-002	9.2-002	Outside Rec	Low	42.05994929	-71.84707102	SDE						0																								
WL-114	36-002	9.4-002	Webster Lake	Low	42.05048739	-71.84660253	SDE						0																								
WL-115	36-003	9.4-003	Webster Lake	Low	42.05045281	-71.84663338	Tighe & Bond	07/18/16	CLS, NLS	Westpoint Rd	CRUSHED	HEADWALL	8	CLAY	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY	Repair pipe	Hole in top of pipe												
WL-116			Outside Rec	Low	42.05452698	-71.84372531	Tighe & Bond	07/18/16	CLS, NLS	40 Killdeer Rd	CORRODED	RIPRAP	12	CMP	ROUND	SINGLE		NO		DRY			UNLIKELY		Little riprap												
WL-117			Outside Rec	Low	42.0559427	-71.84192963	SDE						0																								
WL-118			Outside Rec	Low	42.04691071	-71.86104033	Tighe & Bond	07/18/16	CLS, NLS	Beacon Park Rd	GOOD	HEADWALL	18	HDPE	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY		Condos, DMH; "headwall" - stones placed around pipe												
WL-119			Outside Rec	Low	42.04735098	-71.86108101	Tighe & Bond	07/18/16	CLS, NLS	Beacon Park Rd	CLOGGED		0											Clean pipe and repair if necessary	Condos; completely buried, possibly collapsed												
WL-120			Outside Rec	Low	42.04753908	-71.86129495	Tighe & Bond	07/18/16	CLS, NLS	Beacon Park Rd	GOOD	NONE	16	HDPE	ROUND	SINGLE	FLAT	NO		DRY			UNLIKELY	Clear yard waste for access	Condos; completely buried with yard waste; diameter approximate												
WL-121			Outside Rec	Low	42.04020884	-71.8599762	Tighe & Bond	07/18/16	CLS, NLS	Thompson Rd	GOOD	NONE	0	RCP	ROUND	SINGLE		SEDIMENT		DRY			UNLIKELY	Clear sediment/clean pipe	At treeline; pipe diameter 20" at top of sediment; at least 3/5 full of sediment												
WL-122			Webster Lake	Low	42.03796394	-71.85773155	Tighe & Bond	07/18/16	CLS, NLS	Thompson Rd	GOOD	HEADWALL	30	RCP	ROUND	SINGLE	MODERATE	NO	PIPE BENTHIC GROWTH	TRICKLE			UNLIKELY		Not enough flow to sample - intermittent flow trap recommended; green benthic growth in pipe												
WL-122			Webster Lake	Low	42.03796394	-71.85773155	Tighe & Bond	07/22/16	CLS, NGK	Thompson Rd			0												Inventory 7/18; sandbag used - flow not measured; samples collected 7/22 at 15:30		23.8	0	0	0.5	0	0.13	30				1.41		
WL-123	53-003		Unnamed Tributary	Low	42.03993516	-71.81953175	SDE						0																								
WL-124			Webster Lake Wetland	Low	42.05639198	-71.83899599	Tighe & Bond	07/18/16	CLS, NLS	Chestnut Hill Dr	GOOD	HEADWALL	18	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY	Clean out pipe												
WL-125			Webster Lake Wetland	Low	42.0560828	-71.83963981	Tighe & Bond	07/18/16	CLS, NLS	Rossen Rd	GOOD, CLOGGED	HEADWALL	17	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY	Clean out pipe												
WL-126			Webster Lake Wetland	Low	42.02972157	-71.82085873	SDE						0																								
WL-127	46-001		Unnamed Tributary Wetland	Low	42.04264309	-71.81990206	SDE						0																								
WL-128	46-006		Unnamed Tributary Wetland	Low	42.04313271	-71.81812167	SDE						0																								
WL-129	46-005		Unnamed Tributary Wetland	Low	42.04240761	-71.81730012	SDE						0																								
WL-130	46-007		Unnamed Tributary Wetland	Low	42.04327983	-71.81576184	SDE						0																								
WL-131			Webster Lake Wetland	Low	42.04046622	-71.86173435	SDE						0																								
WL-132			Webster Lake Wetland	Low	42.04053788	-71.86205272	Tighe & Bond	11/09/16	CLL, town	Lake Parkway	GOOD, CLOGGED	NONE	12	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY	Clean leaves and sediment	Origin - catch basin in street												
WL-133			Webster Lake Wetland	Low	42.04139036	-71.86092803	Tighe & Bond	07/18/16	CLS, NLS	Thompson Rd @ 395 offramp	CLOGGED		0					WATER, SEDIMENT							Mostly buried, land built up around it												
WL-134			Webster Lake Wetland	Low	42.04059254	-71.86029715	SDE						0																								
WL-135	60-003		Webster Lake Wetland	Low	42.03065352	-71.8231077	SDE						0																								
WL-136			Webster Lake Wetland	Low	42.05474447	-71.84446995	Tighe & Bond	07/18/16	CLS, NLS	Fairfield St	GOOD	NONE	15	RCP	ROUND	SINGLE	FLAT	SEDIMENT		DRY			UNLIKELY														
WL-137	36-001		Outside Rec	Low	42.04992482	-71.84562342	SDE						0																								
WL-138			Unnamed Tributary Wetland	High	42.03469992	-71.81965799	Tighe & Bond	07/18/16	CLS, NLS	Lower Gore Rd	GOOD	HEADWALL	32	CMP	ROUND	SINGLE	MODERATE	WATER, SEDIMENT		MODERATE			UNLIKELY		Additional CMP outfall upstream - 16" (bad odor, flowing); discharge to box culvert Inventory 7/18; samples collected 7/21; sandbag at 9:30, return at 3:15, unable to measure flow		31.2	0	0	0	0	0.02	390				1.31		8.2
WL-138			Unnamed Tributary Wetland	High	42.03469992	-71.81965799	Tighe & Bond	07/21/16	CLS, NGK				0																								

* Hard copies of SDE outfall investigation field sheets, including inventory and screening information, are availble from the Highway Department, 32 Cudworth Road, Webster

The outfall screening data is available in a memorandum entitled "Webster Dry Weather Screening Field Effort Summary", dated June 28, 2017, located in Appendix H of the Town's IDDE Plan at the Webster Highway Garage.

Permit Year 2

(July 1, 2019 – June 30, 2020)

Year 2 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2019-June 30, 2020

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

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, 2019 and June 30, 2020 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Town of Webster

EPA NPDES Permit Number: MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster State: MA Zip Code: 01570

Email: kpizzetti@webster-ma.gov Phone Number: (508) 949-3862

Stormwater Management Program (SWMP) Information

SWMP Location (web address): https://www.webster-ma.gov/925/Stormwater-Management-in-Webster

Date SWMP was Last Updated: September 2019

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.*

Year 2 Requirements

- ☐ Completed Phase I of system mapping
- ☒ Developed a written catchment investigation procedure and added the procedure to the SWMP
- ☒ Developed written procedures to require the submission of as-built drawings and ensure the long term operation and maintenance of completed construction sites and added these procedures to the SWMP
- ☒ Enclosed or covered storage piles of salt or piles containing salt used for deicing or other purposes
- ☒ Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP
- ☒ Developed an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment and added this inventory to the SWMP
- ☒ Completed a written program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- ☒ Developed written SWPPPs, included in the SWMP, for all of the following permittee owned or operated facilities: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Phase I mapping: All Phase I mapping elements are in the Town's current GIS mapping except municipal BMPs. Some BMP mapping has been completed but additional BMPs have been identified and the GIS mapping will be updated in Permit Year 3.

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 website:
- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☐ All curbed roadways were swept at least once within the reporting period
- ☒ Updated outfall and interconnection inventory and priority ranking as needed

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Typically the Town sweeps in the spring and fall, but typical Highway Department operations were severely impacted in Permit Year 2 by COVID-19, including reduced work crews and atypical work schedules. The Town anticipates increasing sweeping operations again upon return of normal operational conditions.

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

** 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:

Bacteria/Pathogens Public Education and Outreach: Disseminating information about proper pet waste management during dog license renewals was not completed during Permit Year 2. However, a Think Blue

Massachusetts brochure entitled "Do Your 'Doody' for Clean Water", which highlights proper management of pet waste, is included on the Town's Stormwater Management webpage and is readily available to residents. The Town anticipates providing additional pet waste materials in Permit Year 3.

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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)

Potential structural BMPs

- ☐ Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP were documented.
  - ○ The BMP information is attached to the email submission
  - ○ The BMP information can be found at the following website:

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:

Nitrogen Public Education and Outreach: While the Town does maintain a webpage dedicated to the compost facility, where residents can dispose of brush, leaves, and grass clippings, a targeted message was not distributed during Permit Year 2 regarding leaf litter. The Town will distribute this message in Permit Year 3.

Nitrogen Good Housekeeping: Typically the Town sweeps in the spring and fall, but typical Highway Department operations were severely impacted in Permit Year 2 by COVID-19, including reduced work crews and atypical work schedules. The Town anticipates increasing sweeping operations again upon return of normal operational conditions.

Nitrogen Potential Structural BMPs: Nitrogen removal has not been calculated for existing BMPs. This information will be documented for the municipal BMPs in Permit Year 3.

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:

During Permit Year 2, the Town has added 1 outfall to the MS4 due to construction of an infiltration basin at a new water treatment plant. The new outfall did not add or change any receiving waterbodies or impairments/ TMDLs listed in the NOI. The Town will add this outfall to its MS4 mapping once the water treatment plant and infiltration basin are complete.

The Town's NOI listed receiving waters and impairments based on the water quality limited waters in the 2014 303(d) Integrated List. The Town has evaluated changes to the impairments and/or receiving waters based on the final 2016 303(d) Integrated List and enclosed the analysis herein. The enclosed document will be included in the Town's SWMP.

Based on this review, it was determined that the requirements of Appendix H, Part V for solids are no longer applicable to Webster because the turbidity impairment for French River (MA42-06) was removed from the 2016 303(d) List. In accordance with Appendix H, Part V.3.b., the Town will document in the SWMP the date of this determination and date of EPA concurrence.

It should be noted that a "Nutrients" impairment was added to French River (MA42-06) in the 2016 303(d) List. Based on guidance for Rivers provided on Page 34 of the 303(d) List and General Permit Section 2.2.2.b, Nutrients is not equivalent to Total Phosphorus as the cause of the impairment and therefore, Webster is not subject to requirements of Appendix H, Part II for Phosphorus.

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**: 7

*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:Education and Outreach to Residents (Multi-media Methods)

Message Description and Distribution Method:

A brochure entitled "Lawn Care Tips: 'Green the grass, not the water'" is available on the Conservation Commission webpage. This document describes proper lawn care and fertilizing procedures and helps satisfy the requirements of Appendix F for discharges to waters subject to a Nitrogen TMDL.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

Visitors to the Conservation Commission webpage are able to view and download this educational brochure.

Message Date(s): Ongoing

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: Education and Outreach to Residents (Multi-media Methods)

Message Description and Distribution Method:

The Town has installed signs promoting the proper management of pet waste in areas with high concentrations of dogs throughout Town (e.g., walking trails near the French River). This helps satisfy the requirements of Appendix H for discharges to waters impaired by bacteria/pathogens and the requirements of Appendix F for discharges to waters subject to a Nitrogen TMDL.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

Visitors to the areas with these signs are able to learn about proper pet waste management.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Multi-Media Methods)

Message Description and Distribution Method:

The Health Department webpage includes information about septic systems and provides a link to EPA's SepticSmart website, which provides resources for homeowners to learn about septic system operation and maintenance. This helps satisfy the requirements of Appendix H for discharges to waters impaired by bacteria/ pathogens.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

Visitors to the Health Department webpage are able to view these resources.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Multi-Media Methods)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following public education materials for residents:
-"Do Your Doody for Clean Water"
-"After the Storm- A Citizen's Guide to Understanding Stormwater"
-"MassDEP Stormwater Information"
-"FEMA for Kids"
-"EPA Environmental Kids Club"
-'NOAA for Kids- The Ocean"

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

These public education materials are available to all visitors of the Stormwater page on the Town's website.

Message Date(s): Ongoing

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:Public Education and Outreach to Businesses (Multi-Media Methods)

Message Description and Distribution Method:

The Town's Stormwater page contains links to the following public education materials for businesses:
-"Put Waste in its Place for Clean Water in Webster"
-"Keep Pollution at Bay- One Parking Lot at a Time"

Targeted Audience: Businesses, Institutions, and Commercial Facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

These public education materials are available to all visitors of the Stormwater page on the Town's website.

Message Date(s): Ongoing

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:Public Education and Outreach to Developers (Multi-Media Methods)

Message Description and Distribution Method:

The Town's Stormwater page contains links to the following public education materials for developers:
-"Stop Erosion in its Tracks to Keep Our Waters Clean"
-"Plan Ahead to Prevent Pollution: Tips to Reduce Stormwater Runoff During Construction"

Targeted Audience: Developers (Construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

These public education materials are available to all visitors of the Stormwater page on the Town's website.

Message Date(s): Ongoing

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:Public Education and Outreach to Industrial Facilities (Multi-Media Methods)

Message Description and Distribution Method:

The Town's Stormwater page contains links to the following public education materials for industrial facilities:
-"Put Hazards in Their Place: Safe Storage and Handling Tips for Chemicals and Hazardous Materials"
-"Gas, Oil, and Grease...Oh My! Do Your Part to Stop Spills and Leaks at the Source"

Targeted Audience: Industrial Facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

These public education materials are available to all visitors of the Stormwater page on the Town's website.

Message Date(s): Ongoing

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:

Add an Educational Message

MCM2: Public Participation

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

The Town's SWMP was posted on the Town's website and available for public review and comment. The Planning Board also discusses the Town's stormwater program during site plan review discussions. State Public Notice requirements are followed for Planning Board meetings.

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 Town allowed residents to bring Christmas trees to the Compost Facility from January 2-17, 2020.
• The French River Connection performs one or more cleanups each year along the French River.
• The Town posted a flyer with information about the NEDT Collection Center which accepts Household Hazardous Waste for residents in Webster.
• The Town's annual Earth Day clean-up was canceled due to COVID-19.

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: 0

Number of SSOs removed: 0

MS4 System Mapping

Below, check all that apply.

The following elements of the Phase I map have been completed:

☒ Outfalls and receiving waters
☒ Open channel conveyances
☒ Interconnections
☐ Municipally-owned stormwater treatment structures
☒ Waterbodies identified by name and indication of all use impairments
☒ Initial catchment delineations

Optional: Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:

All Phase I mapping elements are in the Town's current GIS mapping except municipal BMPs. Some BMP mapping has been completed but additional BMPs have been identified and the GIS mapping will be updated in Permit Year 3.

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.

- ○ The outfall screening data is attached to the email submission
- ○ The outfall screening data can be found at the following website:

N/A

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

Number of outfalls screened: 0

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.

- ○ The catchment investigation data is attached to the email submission
- ○ The catchment investigation data can be found at the following website:

N/A

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0

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

The Town has not identified any Problem catchments.

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.

- ○ The illicit discharge removal report is attached to the email submission
- ○ The illicit discharge removal report can be found at the following website:

N/A

*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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 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: 0

Total number of illicit discharges removed: 0

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

Employee Training

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

The Town holds monthly Road Safety meetings with Highway Department staff, where IDDE and other stormwater-related topics are discussed.

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: 6

Number of inspections completed: 22

Number of enforcement actions taken: 1

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

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

Ordinance or Regulatory Mechanism

Below, select the option that describes your ordinance or regulatory mechanism progress.

- ○ Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- ○ Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- ◉ Bylaw, ordinance, or regulations have not been updated or adopted

As-built Drawings

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

This requirement has been met through the adoption of Article VII, Section 650-59 of the Zoning Bylaw and Section III, Part C.5 of the Rules and Regulations Governing the Subdivision of Land, which require the submission of as-built drawings, as well as Section IV, Part H.8.D of the Rules and Regulations Governing the Subdivision of Land, which requires continued operation and maintenance for BMPs.

Street Design and Parking Lots Report

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

Preparation for the Street Design and Parking Lots Report has not yet begun as this requirement is due in Permit Year 4.

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

Preparation for the Green Infrastructure Report has not yet begun as this requirement is due in Permit Year 4.

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

Preparation for the Retrofit Properties Inventory has not yet begun as this requirement is due in Permit Year 4. The inventory of municipal facilities developed as part of the Town-wide Operation and Maintenance Plan

may serve as a baseline for the retrofit inventory.

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: 60

Number of catch basins cleaned: 60

Total volume or mass of material removed from all catch basins: 17 cubic yards

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

Total number of catch basins: 2,434

If applicable:

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

Street Sweeping

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

- ◉ Number of miles cleaned: 67
- ○ Volume of material removed: [Select Units]
- ○ Weight of material removed: [Select Units]

O&M Procedures and Inventory of Permittee-Owned Properties

Below, check all that apply.

The following permittee-owned properties have been inventoried:

- ☒ Parks and open spaces
- ☒ Buildings and facilities
- ☒ Vehicles and equipment

The following O&M procedures for permittee-owned properties have been completed:

- ☒ Parks and open spaces

☒ Buildings and facilities
☒ Vehicles and equipment

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: 0

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

None
See notes regarding SWPPP inspections in "Additional Information" at the bottom of this page.

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 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

Optional: 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:

Chapter 570 of the Town's General Bylaws, Stormwater Management, fulfills part of the MCM 4 and MCM 5 Construction and Post-Construction Stormwater Management requirements. Due to the delay of the MassDEP Stormwater Handbook update and in accordance with the revised schedule in the proposed General Permit modifications, the Town's regulatory mechanism will be reviewed and updated as needed for consistency with the revised General Permit requirements in Permit Year 3.

SWPPP: DPW facility site inspections are conducted routinely, however the Quarterly Inspection Form included in the SWPPP has not been completed for these inspections on a quarterly basis. Additional training

will be conducted in Permit Year 3 regarding the required inspections and record keeping.

COVID-19 Impacts

Optional: If any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Street sweeping and catch basin cleaning: Typical Highway Department operations were severely impacted in Permit Year 2 by COVID-19, including reduced work crews and atypical work schedules. These impacts reduced the Town's routine street sweeping and catch basin cleaning operations. The Town anticipates increasing sweeping operations and cleaning more catch basins upon return of normal operational conditions.

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 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

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 uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- 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

Provide any additional details on activities planned for permit year 3 below:

The Town acknowledges the General Permit Year 3 requirements and will complete as many activities as

possible based on funding and staff availability.

Part V: Certification of Small MS4 Annual Report 2020

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:	Doug Willardson	Title:	Town Administrator
Signature:	Doug Willardson	Date:	9/28/20

[Signatory may be a duly authorized representative]

Summary of Webster's TMDLs and Impaired Waters [1, 2, 3, 4]

Receiving Waterbody	2014 Category	2014 Water Quality Impairments [5]	2016 Category	2016 Water Quality Impairments [5]	Applicable General Permit Section(s)	Change to Permit Requirements
French River (MA42-04) [6]	5	Mercury in Fish Tissue	5	Mercury in Fish Tissue		None
French River (MA42-05)	5	Debris/Floatables/Trash Other Flow Regime Alterations Aquatic Macroinvertebrates Bioassessments Fecal Coliform	5	Flow Regime Modification Benthic Macroinvertebrates		Requirements of Appendix H, Section III - Pathogens are no longer applicable
French River (MA42-06) [6]	5	Turbidity Taste and Odor Debris/Floatables/Trash Aquatic Macroinvertebrate Bioassessments Other Sediment Screening Value (Exceedence) Fecal Coliform	5	Benthic Macroinvertebrates Cause Unknown (Sediment Screening Value (Exceedence)) Nutrients		Requirements of Appendix H, Section III - Pathogens are no longer applicable Requirements of Appendix H, Section V - Solids are no longer applicable
Mill Brook (MA42-10) [6]	2		2			None
Sucker Brook (MA42-15)	5	Aquatic Macroinvertebrate Bioassessments E. Coli	5	Benthic Macroinvertebrates E. Coli	Appendix H, Section III - Pathogens	None
Webster Lake (MA42064)	4c	Eurasion Water Milfoil Myriophyllum Spicatum Non-Native Aquatic Plants	5	Eurasion Water Milfoil Myriophyllum Spicatum Non-Native Aquatic Plants Non-Native Fish/Shellfish/Zooplankton Dissolved Oxygen		None
Long Island Sound Nitrogen TMDL					Appendix F, Section B.I - Nitrogen TMDL Requirements	None

[1] TMDLs associated with major rivers may apply to additional waterbodies within the watershed.

[2] Any TMDL or impairments related to nutrients (nitrogen and phosphorus) apply to all receiving waterbodies within the watershed.

[3] Impairments in blue were added in the 2016 Integrated List of Waters.

[4] Impairments in red were removed in the 2016 Integrated List of Waters.

[5] Impairments applicable to Webster that have been renamed between the 2014 and 2016 Integrated List of Waters include the following: Other Flow Regime Alterations -> Flow Regime Modification; Aquatic Macroinvertebrates Bioassessments -> Benthic Macroinvertebrates

[6] Included for reference for outfalls discharging to tributaries/wetlands to this waterbody. No direct discharges have been identified to date.

Phase I MS4 System Map

Summary of Webster's TMDLs and Impaired Waters [1, 2, 3, 4]

Receiving Waterbody	2014 Category	2014 Water Quality Impairments [5]	2016 Category	2016 Water Quality Impairments [5]	Applicable General Permit Section(s)	Change to Permit Requirements
French River (MA42-04) [6]	5	Mercury in Fish Tissue Debris/Floatables/Trash	5	Mercury in Fish Tissue		None
French River (MA42-05)	5	Other Flow Regime Alterations Aquatic Macroinvertebrates Bioassessments Fecal Coliform Turbidity Taste and Odor Debris/Floatables/Trash	5	Flow Regime Modification Benthic Macroinvertebrates		Requirements of Appendix H, Section III - Pathogens are no longer applicable Requirements of Appendix H, Section III - Pathogens are no longer applicable
French River (MA42-06) [6]	5	Aquatic Macroinvertebrate Bioassessments Other Sediment Screening Value (Exceedence) Fecal Coliform	5	Benthic Macroinvertebrates Cause Unknown (Sediment Screening Value (Exceedence)) Nutrients		Requirements of Appendix H, Section V - Solids are no longer applicable
Mill Brook (MA42-10) [6]	2		2			None
Sucker Brook (MA42-15)	5	Aquatic Macroinvertebrate Bioassessments E. Coli	5	Benthic Macroinvertebrates E. Coli	Appendix H, Section III - Pathogens	None
Webster Lake (MA42064)	4c	Eurasion Water Milfoil Myriophyllum Spicatum Non-Native Aquatic Plants	5	Eurasion Water Milfoil Myriophyllum Spicatum Non-Native Aquatic Plants Non-Native Fish/Shellfish/Zooplankton Dissolved Oxygen		None
Long Island Sound Nitrogen TMDL					Appendix F, Section B.I - Nitrogen TMDL Requirements	None

[1] TMDLs associated with major rivers may apply to additional waterbodies within the watershed.
[2] Any TMDL or impairments related to nutrients (nitrogen and phosphorus) apply to all receiving waterbodies within the watershed.
[3] Impairments in blue were added in the 2016 Integrated List of Waters.
[4] Impairments in red were removed in the 2016 Integrated List of Waters.
[5] Impairments applicable to Webster that have been renamed between the 2014 and 2016 Integrated List of Waters include the following: Other Flow Regime Alterations -> Flow Regime Modification; Aquatic Macroinvertebrates Bioassessments -> Benthic Macroinvertebrates
[6] Included for reference for outfalls discharging to tributaries/wetlands to this waterbody. No direct discharges have been identified to date.

Tighe&Bond

SUTTON
DOUGLAS
DUDLEY
THOMPSON

Slaters Pond-MA42053
Number 1 Pond-MA51114
Number 2 Pond-MA51115
Stump Pond-MA51162
Sutton Falls-MA51163
Nipmuck Pond-MA42039
Whitin Reservoir-MA51179
Wallis Pond-MA42062
Peter Pond-MA42042
Larner Pond-MA42068
Low Pond-MA42033
Merino Pond-MA42036
Packard Pond-MA42040
Webster Lake-MA42064
French River-MA42-04
French River-MA42-05
French River-MA42-06
Mill Brook-MA42-10
Sucker Brook-MA42-15
Mine Brook-MA42-16
Plymouth River-MA74-20
Rocky Run-MA41-22

LEGEND

- Manhole
- Catch Basin
- Outfall
- Drain Line
- Open Channel
- Culverts
- Detention Basin
- Catchments
- Stream/Intermittent Stream
- Water Bodies
- MassDEP Open Water
- MassDEP Inland Wetlands
- Town Boundary
- Urbanized Area 2010
- Urbanized Area 2000
- Limited Access Highway
- Multi-Lane Highway, NOT Limited Access
- Other Numbered Highway
- Major Road - Collector
- Minor Street or Road
- Outfall

1:18,000
0 750 1,500 3,000
Feet

1. Data source: Bureau of Geographic Information (MassGIS) Commonwealth of Massachusetts, Executive Office of Technology
2. Stormwater: The Town of Webster

PHASE 1 MAPPING

Permit Year 2 Annual Report
Webster, Massachusetts

September 2020

Tighe&Bond

G:\GIS\MA\WebsterMA\MapDocs\24x36_AnnualReport-Phase1_2020-Webster.aprx

Permit Year 3

(July 1, 2020 – June 30, 2021)

Year 3 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2020-June 30, 2021

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

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, 2020 and June 30, 2021 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Town of Webster

EPA NPDES Permit Number: MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster State: MA Zip Code: 01570

Email: kpizzetti@webster-ma.gov Phone Number: (508) 949-3862

Stormwater Management Program (SWMP) Information

SWMP Location (web address): https://www.webster-ma.gov/925/Stormwater-Management-in-Webster

Date SWMP was Last Updated: October 2020

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.*

Year 3 Requirements

☐ Inspected and screened all outfalls/interconnections (excluding Problem and Excluded outfalls)

☒ Updated outfall/interconnection priority ranking based on the information collected during the dry weather inspections as necessary

☐ Post-construction bylaw, ordinance, or other regulatory mechanism was updated and adopted consistent with permit requirements

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

As reported in the Permit Year 1 annual report, Webster has completed a significant effort to locate, inventory, and screen MS4 outfalls. The Town has visited all MS4 outfall locations and attempted to inventory and screen them. By the end of Permit Year 1, 80% of the known MS4 outfalls had been successfully screened for dry weather flow, with a portion of outfalls remaining unscreened because they require more extensive effort to locate, access, or otherwise complete screening. In Permit Year 3, two new outfalls were added to the Town's GIS mapping after completing field investigations and construction of a detention basin at a new water treatment plant. The Town has contracted with a consultant to complete water quality screening of the remaining outfalls that could not previously be located, accesses, or were added to the mapping. However, due to limited Highway Department staff availability, wet conditions in summer 2021, and a large backlog of work for Highway Department staff due to COVID-19, the Town was unable to complete the investigations to locate and access the remaining outfalls in Permit Year 3. This work is ongoing in Permit Year 4. Since no additional investigations were completed in Permit Year 3, no updates were required to the outfall/ interconnection inventory.

Webster's current Stormwater Management Bylaw, Chapter 570 of the Town's General Bylaws, and associated Regulations are in the process of being updated to meet the more stringent post-construction requirements of the 2016 Small MS4 General Permit. The updated code is anticipated to be adopted in Permit Year 4.

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 website:
- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☒ All curbed roadways were swept at least once within the reporting period
- ☒ Updated system map due in year 2 as necessary
- ☒ 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, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

The Town's "Municipal Good Housekeeping and Pollution Prevention Program" (updated in Permit Year 3) includes maintenance procedures for Town facilities and MS4 infrastructure, which are implemented to the maximum extent practicable.

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

** 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:

Disseminating information about proper pet waste management during dog license renewals was not completed during Permit Year 3. However, a Think Blue Massachusetts brochure entitled "Do Your 'Doody' for Clean Water", which highlights proper management of pet waste, is included on the Town's Stormwater Management webpage and is readily available to residents. The Town anticipates providing additional pet waste materials in Permit Year 4.

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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)

Potential structural BMPs

☐ Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP were documented.

- ○ The BMP information is attached to the email submission
- ○ The BMP information can be found at the following website:

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:

Public Education and Outreach: The Town maintains a webpage dedicated to the compost facility, where residents can dispose of brush, leaves, and grass clippings, and a Facebook post advertised this information in Spring 2021. However, a targeted message was not distributed during Permit Year 3 regarding proper disposal of leaf litter. The Town will distribute this message in Permit Year 4.

Good Housekeeping - Street Sweeping: The Town's typical street sweeping program includes cleaning all streets in the spring and fall, as well as increased as needed sweeping in heavily trafficked areas.

Potential Structural BMPs: The Town has identified two municipal stormwater BMPs that were installed since the General Permit issuance date. The Town will estimate these items in Permit Year 4 using available drainage design plans, stormwater reports, and applicable EPA guidance.

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:

Webster's NOI listed receiving waters and impairments based on the water quality limited waters in the 2014 303(d) Integrated List. The Town has evaluated changes to the impairments and/or receiving waters based on the final 2016 303(d) Integrated List and the analysis is included in the Town's Permit Year 2 Annual Report and SWMP.

During Permit Year 3, two outfalls were added to the stormwater GIS mapping. These modifications did not add, remove, or change any receiving waters as listed in the NOI and Permit Year 2 receiving water update.

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**: 7

*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:Education and Outreach to Residents (Conservation Commission Webpage)

Message Description and Distribution Method:

A brochure entitled "Lawn Care Tips: 'Green the grass, not the water'" is available on the Conservation Commission webpage and describes proper lawn care and fertilizing procedures.

Targeted Audience: Residents

Responsible Department/Parties: Conservation Commission/Planning

Measurable Goal(s):

Visitors to the Conservation Commission webpage are able to view and download this educational brochure.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Health Department Webpage)

Message Description and Distribution Method:

The Health Department webpage includes information about septic systems and provides a link to EPA's SepticSmart website, which provides resources for homeowners to learn about septic system operation and maintenance.

Targeted Audience: Residents

Responsible Department/Parties: Health Department/Planning

Measurable Goal(s):

All visitors to the Health Department webpage are able to view these resources.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Stormwater Management Webpage)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following public education and informational materials for residents:
-"Do your Doody for Clean Water" (located under the 'Learn More' tab)
-"Think Blue Massachusetts"
- "After the Storm - A Citizen's Guide to Understanding Stormwater"
-"MassDEP Stormwater Information"
-"FEMA for Kids"
-"EPA Environmental Kids Club"
-"NOAA for Kids - The Ocean"
-The Town's Stormwater Management Plan
-Stormwater Management By-Law
-Stormwater Permit Application
-Wetlands Protection By-Law
-Permit Year 1 and Permit Year 2 Annual Reports

The webpage also includes EPA's video "The Scoop on Stormwater" and additional text explaining what stormwater is, why stormwater management is important, the difference between stormwater and wastewater, and information on harmful stormwater pollutants, including grass clippings, leaves, motor oil, and other household items.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the Town's Stormwater Management Page can view and download these materials. In 2021, the webpage had almost 400 page views, an increase from 2020.

Message Date(s): Ongoing

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:Public Education and Outreach to Businesses, Institutions, & Commercial (Stormwater Webpage)

Message Description and Distribution Method:

The Town's Stormwater page contains links to the following public education materials for businesses:
-"Put Waste in its Place for Clean Water in Webster"
-"Keep Pollution at Bay- One Parking Lot at a Time"

Targeted Audience: Businesses, Institutions, and Commercial Facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the Town's Stormwater Management Page can view these materials. In 2021, the webpage had almost 400 page views, an increase from 2020.

Message Date(s): Ongoing

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:Public Education and Outreach to Developers (Stormwater Management Webpage)

Message Description and Distribution Method:

The Town's Stormwater page contains links to the following public education materials for developers:
-"Stop Erosion in its Tracks to Keep Our Waters Clean"
-"Plan Ahead to Prevent Pollution: Tips to Reduce Stormwater Runoff During Construction"

Targeted Audience: Developers (Construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the Town's Stormwater Management Page can view these materials. In 2021, the webpage had almost 400 page views, an increase from 2020.

Message Date(s): Ongoing

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:Public Education and Outreach to Industrial Facilities (Stormwater Management Webpage)

Message Description and Distribution Method:

The Town's Stormwater page contains links to the following public education materials for industrial facilities:
-"Put Hazards in Their Place: Safe Storage and Handling Tips for Chemicals and Hazardous Materials"
-"Gas, Oil, and Grease...Oh My! Do Your Part to Stop Spills and Leaks at the Source"

Targeted Audience: Industrial Facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the Town's Stormwater Management Page can view these materials. In 2021, the webpage had almost 400 page views, an increase from 2020.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Social Media)

Message Description and Distribution Method:

The Town posted on their Facebook page a reminder to clean up pet waste and on restricted pet areas within the Town public spaces. The message was also posted to a separate Residents Forum on Facebook on the same day. The Town also posted on their Facebook about proper disposal of yard waste at the compost facility.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

The pet waste messaging received 42 Likes, 1 comment, and 9 shares on the town page and 27 likes and 4 shared on the Residents Forum page.
The compost facility messaging received 1 share on the Town's page.

Message Date(s): Pet Waste Messaging - April 10th, 2021
Compost Facility Messaging - April 6, 2021

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:

Add an Educational Message

MCM2: Public Participation

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

The Town's SWMP was posted on the Town's website and available for public review and comment. Along with the link to the SWMP is a link to the Department Contact Form and a phone number to contact.

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 Town's annual Earth Day Clean-Up was held on April 24th, 2021.

The Town allowed residents to bring Christmas trees to the Compost Facility from December 29, 2020 through January 15th, 2021 and posted this information on their Facebook and Twitter pages.

The Town sold stickers for the Compost Facility, allowing residents to bring leaves, grass, brush, and sticks to the facility with a sticker. The Town advertised this information on their Facebook page in Spring 2021.

The Town posted a flyer on the Health Department webpage with information about the NEDT Collection Center which accepts Household Hazardous Waste for residents in Webster.

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: 0

Number of SSOs removed: 0

MS4 System Mapping

Optional: Provide additional status information regarding your map:

Known municipal BMPs and two new outfalls have been added to the Phase I mapping and to the Town's ArcGIS Online mapping.

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 outfall screening data is attached to the email submission
- ( ) The outfall screening data can be found at the following website:

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

Number of outfalls screened: 0

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

Percent of outfalls screened: 80

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

As reported in the Permit Year 1 annual report, Webster has completed a significant effort to locate, inventory, and screen MS4 outfalls. The Town had visited all MS4 outfall locations and attempted to inventory and screen them. At that time, 80% of the known MS4 outfalls had been successfully screened for dry weather flow, with a portion of outfalls remaining unscreened because they require more extensive effort to locate, access, or otherwise complete screening. In Permit Year 3, two new outfalls were added to the Town's GIS mapping after completing field investigations and construction of a detention basin at a new water treatment plant. The Town has contracted with a consultant to complete water quality screening of the remaining outfalls. However, due to limited Highway Department staff availability, significant wet weather conditions in summer 2021, and a large backlog of work for Highway Department staff due to COVID-19, the Town was unable to complete the investigations to locate and access the remaining outfalls within Permit Year 3. This work is ongoing in Permit Year 4.

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 website:

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0

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

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 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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 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: 0

Total number of illicit discharges removed: 0

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

Employee Training

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

A refresher training on proper outfall investigation procedures was completed on June 2, 2021. The Town's stormwater consultant provided the training to key Highway Department staff .

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: 12

Number of inspections completed: 50

Number of enforcement actions taken: 5

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

The number of enforcement actions taken was estimated. The Town will confirm the number completed if possible and provide it in the updated SWMP.

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

As-built Drawings

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

Number of as-built drawings received: 2

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

Street Design and Parking Lots Report

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

Preparation for the Street Design and Parking Lots Report has not yet begun as this requirement is due in Permit Year 4.

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

Preparation for the Green Infrastructure Report has not yet begun as this requirement is due in Permit Year 4.

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

Preparation for the Retrofit Properties Inventory has not yet begun as this requirement is due in Permit Year 4.

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: 55

Number of catch basins cleaned: 55

Total volume or mass of material removed from all catch basins: 14 cubic yards

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

Total number of catch basins: 2,434

If applicable:

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

Note that the quantities reported are estimated. If catch basins are noted to be over 50% full they are cleaned and drainage piping is checked for blockages.

Street Sweeping

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

- (●) Number of miles cleaned: 73
- ( ) 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: 2

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

No corrective actions were noted in the March and June 2021 SWPPPs for the DPW facility.

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 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

Optional: 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:

COVID-19 Impacts

Optional: If any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Street sweeping and catch basin cleaning: Typical Highway Department operations remained impacted in Permit Year 3 by COVID-19, including atypical work schedules. These impacts reduced the Town's routine street sweeping and catch basin cleaning operations. The Town anticipates increasing sweeping operations and cleaning more catch basins upon return of normal operational conditions.

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 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

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)

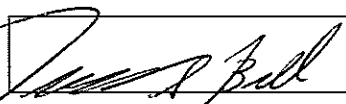
Provide any additional details on activities planned for permit year 4 below:

The Town acknowledges the General Permit Year 4 requirements and will complete as many activities as possible based on funding and staff availability.

Part V: Certification of Small MS4 Annual Report 2021

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:	Timothy Bell	Title:	Acting Town Administrator
Signature:		Date:	9/28/21

[Signatory may be a duly authorized representative]

Permit Year 4

(July 1, 2021 – June 30, 2022)

Year 4 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2021-June 30, 2022

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

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, 2021 and June 30, 2022 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Town of Webster

EPA NPDES Permit Number: MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster State: MA Zip Code: 01570

Email: kpizzetti@webster-ma.gov Phone Number: (508) 949-3862

Stormwater Management Program (SWMP) Information

SWMP Location (web address): https://www.webster-ma.gov/925/Stormwater-Management-in-Webster

Date SWMP was Last Updated: November 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.*

Year 4 Requirements

☐ Developed a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover, made it available as part of the SWMP, and:

- ○ No updates were recommended
- ○ Updates were recommended. The anticipated date or date of completion for updates is/was:

☐ Developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist, made it available as part of the SWMP, and:

- ○ No updates were recommended
- ○ Updates were recommended. The anticipated date or date of completion for updates is/was:

☐ Identified a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover

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

Due to staff turnover at the Administrative level in Permit Year 4, funding was not available for these requirements. The Town has allocated funding in Permit Year 5 to complete these requirements.

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 website:
- ☒ Updated system map due in year 2 as necessary
- ☒ 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:

SSO inventory: There have been no SSOs found from 2017 through June 30, 2021. There was one SSO reported in Permit Year 4; see attached documentation.

The Town's Municipal Good Housekeeping and Pollution Prevention Program includes maintenance procedures for Town facilities and MS4 infrastructure, which are implemented to the maximum extent practicable. Maintenance was performed as needed for MS4 infrastructure in Permit Year 4. BMPs such as swales are inspected during the catch basin cleaning efforts.

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

** 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:

Disseminating information about proper pet waste management during dog license renewals was not completed during Permit Year 4. However, a Think Blue Massachusetts brochure entitled "Do Your 'Doody' for Clean Water", which highlights proper management of pet waste, is included on the Town's Stormwater Management webpage and is readily available to residents. The Town anticipates providing additional pet waste materials with dog licenses in Permit Year 5.

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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)

Nitrogen Source Identification Report

☐ Completed the Nitrogen Source Identification Report

- ○ The Nitrogen Source Identification Report is attached to the email submission
- ○ The Nitrogen Source Identification Report can be found at the following website:

Potential structural BMPs

☐ Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP were documented.

- ○ The BMP information is attached to the email submission
- ○ The BMP information can be found at the following website:

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:

Nitrogen Source Identification Report & Potential structural BMPs: Due to staff turnover at the Administrative level in Permit Year 4, funding was not available for these requirements. The Town has allocated funding in Permit Year 5 to complete these requirements.

Leaf litter messaging: Social media posts are planned to begin within Permit Year 5 to disseminate additional seasonal education to residents.

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

The Town was awarded a grant to complete a Municipal Vulnerability Preparedness (MVP) Community Resilience Workshop Process. This included identifying a core team at the local level, evaluation/assessment which included interviews with the community and stakeholders, and conducting workshops. The MVP process was completed in Permit Year 4 and the final report is available from the Planning Department. The Town plans to update their Hazard Mitigation Plan within Permit Year 5.

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:

The Town's NOI listed receiving waters and impairments based on the water quality limited waters in the 2014 303(d) Integrated List. The Town evaluated changes to the impairments and/or receiving waters based on the final 2016 303(d) Integrated List and the analysis was included in the Town's Permit Year 2 Annual Report and is available in the SWMP. The 2018/2020 303(d) Integrated List was evaluated and showed no changes to the receiving bodies or impairments. Attached is a summary of this analysis.

During Permit Year 4, 15 outfalls were removed from the outfall inventory because they were determined to not exist or were another stormwater asset. These modifications did not add, remove, or change any receiving waters as listed in the NOI and Permit Year 2 receiving water update.

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**: 6

*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:Public Education and Outreach to Residents & Developers (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following key documents under their stormwater management plan:
- The Town's Stormwater Management Plan
- The Town's Stormwater Management By-Law
- The Town's Wetlands Protection By-Law
- Recent Annual Reports

Under the "Learn More" tab, the webpage also includes an infographic entitled "Do Your Doody for Clean Water"

Elsewhere on the page is more public education and informational materials for residents:
- "Think Blue Massachusetts"
- "After the Storm - A Citizen's Guide to Understanding Stormwater"
- "MassDEP Stormwater Information"
- "FEMA for Kids"
- "EPA Environmental Kids Club"
- "NOAA for Kids - The Ocean"
- "The Scoop on Stormwater" (An EPA video)
- Small articles entitled "What is Stormwater?", "Why Stormwater Management?", and "Stormwater and Wastewater Are Not the Same!"

Targeted Audience: Residents, Developers (construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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:Public Education and Outreach to Businesses (Stormwater Management Webpage)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to businesses under their stormwater management plan:
- "Put Waste in its Place for Clean Water in Webster"
- "Keep Pollution at Bay - One Parking Lot at a Time"

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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:Public Education and Outreach to Developers (Stormwater Management Webpage)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to developers under their stormwater management plan:
- "Stop Erosion in its Tracks to Keep Our Waters Clean"
- "Plan Ahead to Prevent Pollution: Tips to Reduce Stormwater Runoff During Construction"

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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:Public Education and Outreach to Industrial Facilities (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to industrial facilities under their stormwater management plan:
- "Put Hazards in Their Place: Safe Storage and Handling Tips for Chemicals and Hazardous Materials"

Targeted Audience: Industrial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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:Public Education and Outreach to Residents (Social Media)

Message Description and Distribution Method:

The Town had made a few informational posts on their Facebook page related to water quality for their residents:
- The Town had shared an article entitled "Efforts underway to limit fertilizer use, curb dangerous algae blooms in lakes & ponds"
- The Town shared a health advisory regarding the bloom of Cyanobacteria in the South Pond

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

The May 2022 post on Cyanobacteria has 5 likes, 22 comments, and 24 shares.
These posts are available to the Town's 4,300 Facebook followers.

Message Date(s): Fertilizer use and algae blooms article post: August 19th, 2021
Health advisory regarding cyanobacteria: May 31st, 2022

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:Public Education and Outreach to Residents (Health Department Webpage)

Message Description and Distribution Method:

The Town's Health Department has a link to the EPA's "SepticSmart" webpage, with informational material on septic systems and proper maintenance.

Targeted Audience: Residents

Responsible Department/Parties: Health Department

Measurable Goal(s):

All visitors to the webpage are able to follow the link to the educational materials.

Message Date(s): Ongoing

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:

Add an Educational Message

MCM2: Public Participation

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

The Town's SWMP was posted on the Town's website and is available for public review. Comments can be provided via phone call or through a linked Department Contact Form.

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 Town's annual Earth Day Clean-Up was held on April 30th, 2022. The Town DPW picked up the waste collected that day for proper disposal.

The Town sold stickers for the Compost Facility, allowing residents to bring yard waste for proper disposal. This was advertised on the Towns Facebook page in Spring 2022.

The Town allowed residents to bring Christmas trees to the Compost Facility beginning December 27, 2021.

The Town had volunteers run a beach clean-up day in October 2021. This was advertised on the Town's Facebook page.

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: 1

Number of SSOs removed: 1

MS4 System Mapping

Optional: Provide additional status information regarding your map:

Mapping was updated during outfall investigations in Permit Year 4. The Town will continue to make updates to the mapping as the IDDE Program is implemented.

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 outfall screening data is attached to the email submission

○ The outfall screening data can be found at the following website:

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

Number of outfalls screened: 18

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

Percent of outfalls screened: 93

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

As reported in the Permit Year 1 annual report, Webster has completed a significant effort to locate, inventory, and screen MS4 outfalls. The Town had visited all MS4 outfall locations and attempted to inventory and screen them. At that time, 80% of the known MS4 outfalls had been successfully screened for dry weather flow, with a portion of outfalls remaining unscreened because they require more extensive effort to locate, access, or otherwise complete screening. In Permit Year 3, two new outfalls were added to the Town's GIS mapping after completing field investigations and construction of a detention basin at a new water treatment plant.
In Permit Year 4, more investigations were conducted to locate difficult to find outfalls. 15 mapped outfalls were determined to be a different stormwater asset or to not exist. 18 were successfully screened at the outfall or upstream structure. Screening data is attached. The Town will continue to try to locate and field verify the remaining mapped outfalls that have not been field verified.

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 website:

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0

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

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 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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 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: 0

Total number of illicit discharges removed: 0

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

Employee Training

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

Monthly meetings are held with all Highway Department staff that review safety and road work precautions, as well as identifying illicit discharges at stormwater outfalls, and catch basin cleanings.

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: 10

Number of inspections completed: 24

Number of enforcement actions taken: 0

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

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3):

As-built Drawings

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

Number of as-built drawings received: 1

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

Retrofit Properties Inventory

Below, list the permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (at least 5):

Due to staff turnover at the Administrative level in Permit Year 4, funding was not available for this requirement. An initial review of town-owned properties was completed and it was determined that the following properties have been recently retrofitted with BMPs:
- Park Avenue Elementary School
- Lake Parkway
- Memorial Beach Water Treatment Plant
- Hydrodynamic separators have been installed at Tracy Court, June Avenue, Colonial Park, Kenneth Avenue; stormwater basin at Dominique Drive; and Town Hall, the Police Station, and the Library have underground infiltration systems

The following properties are planned to have BMPs as part of upcoming redevelopment projects:
- Bartlett High School
- Webster Middle School

The list of properties for BMP retrofit is anticipated to be refined and finalized in Permit Year 5.

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: 100

Number of catch basins cleaned: 75

Total volume or mass of material removed from all catch basins: 10 cubic yards

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

Total number of catch basins: 2,284

If applicable:

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

Total number of catch basins note: The total count may include some private and MassDOT catch basins; ownership will be refined as mapping is improved.

Catch basins are inspected when they are cleaned. Additional catch basins were inspected throughout the year during construction and to check for acceptable water flow.

Street Sweeping

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

- (●) Number of miles cleaned: 138
- ( ) 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: 4

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

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 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

Optional: 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:

The Town has prepared draft Stormwater Regulations. The effort to finalize and adopt the Regulations has been on hold while the Town works to hire a Conservation Agent. Implementation of the Regulations will require re-organization of Land Use Department and include the Conservation Agent and Building Inspector to participate in finalizing the permitting methodology to be included in the Regulations. The hiring of an Agent is anticipated in Permit Year 5 and the Town should be able to finalize the Regulations.

COVID-19 Impacts

Optional: If any of the above year 4 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

The Regulations update was impacted by COVID-19 as the hiring process for a Conservation Agent was slowed. Developing additional website content and completing public outreach was also impacted due to lack of capability for staff collaboration while they worked split shifts. These items are both anticipated for completion in Permit Year 5.

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 5 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

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 5 below:

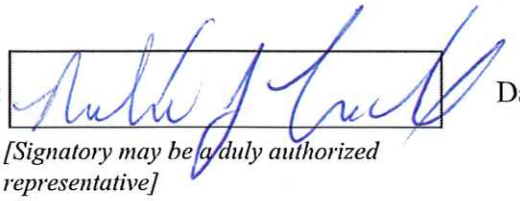
The Town acknowledges the General Permit Year 5 requirements and will complete as many activities as possible based on funding and staff availability.

Part V: Certification of Small MS4 Annual Report 2021

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: Richard LaFond Title: Town Adminstrator

Signature:  Date: 9-29-22

[Signatory may be a duly authorized representative]

Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY
846-001-342
Tax Identification Number

A. Reporting Facility

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

1. Facility Information
TOWN OF WEBSTER MASS. — Reporting Sewer Authority
MA0100439 — Permit #

2. Authorized Representative Transmitting Form:
JAMES — First Name
DUVAL — Last Name
508-949-3865 — Telephone No.
CHIEF OF MAINTENANCE — Title
JDUVAL@WEBSTER-MA.GOV — E-mail Address

B. Phone Notifications:

See DEP Regional Office telephone and fax numbers at the end of this form.

1. **MassDEP staff** contacted: first name ____ last name ____
Date/Time contacted: Date ____ Time ____ ☐ am ☐ pm

2. **EPA staff** contacted: first name ____ last name ____
Date/Time EPA contacted: Date ____ Time ____ ☐ am ☐ pm

3. Board of Health contacted: First Name ____ Last Name ____
Date/Time contacted: Date ____ Time ____ ☐ am ☐ pm

4. Others notified (select all that apply); ☐ Conservation Commission
☐ Harbormaster ☐ Shellfish Warden ☐ Division of Marine Fisheries
☐ Downstream Drinking Water Supplier ☐ Watershed Association
☐ Beach Resource Manager ☐ Other: ____ (specify)

C. SSO Information

1. SSO Discovered: JULY-7-21 Date 10:00 Time ☒ am ☐ pm
By: LOCAL P.D.

2. SSO Stopped: JULY-7-21 Date 12:30 Time ☐ am ☒ pm

3. SSO Discharge from: ☒ Sanitary Sewer Manhole ☐ Pump Station
☐ Backup into Property ☐ Other: ____ (specify)

4. SSO Discharge to: ☒ Ground Surface (no release to surface water)
☐ Direct to Receiving Water ____ (surface water)
☐ Catch basin to Receiving Water ____ (surface water)
☐ Backup into Property Basement

Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY
046-001-342
Tax Identification Number

C. SSO Information (cont.)

Location: 64 Worcester Rd. Webster MA (Wood's)
(Description of discharge site or closest address)

5. Estimated SSO Volume at time of this Report: ? In the week prior to the SSO we had 3.5" of rain.

   Method of Estimating Volume:

6. Cause of SSO Event:

   ☒ Rain Event ☐ Pump Station Failure ☐ Insufficient Capacity in System

   ☐ Treatment Unit failure

   ☐ Sewer System Blockage: ☐ Pipe Collapse ☒ Root Intrusion ☐ Grease Blockage

   ☐ Other: (Specify)

7. Corrective Actions Taken:
   Vet line, cut roots, Add root control to vet machine when line was cleaned.

Impact Area cleaned and/or disinfected: ☒ Yes ☐ No
Disinfected

Corrective Actions Completed: ☒ Yes ☐ No
Roots removed

D. Comments/Attachments/Follow-up

I wish to provide (select all that apply):

☐ Attachment ☐ Additional comments below: ☐ No additional comments or attachments

Additional comments and planned actions:

Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY

046-001-342
Tax Identification Number

E. Certification Statement

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

Signature of Authorized Representative

7-27-21
Date Signed

Please keep a copy of this report for your records. When submitting additional information, include the MassDEP Incident Number from this report.

MassDEP Regional Office and EPA Telephone and Fax Numbers:

Northeast Region	Phone: 978-694-3215	Fax: 978-694-3499
Southeast Region	Phone: 508-946-2750	Fax: 508-947-6557
Central Region	Phone: 508-792-7650	Fax: 508-792-7621
Western Region	Phone: 413-784-1100	Fax: 413-784-1149
EPA Contact	Phone: 617-918-1870	Fax: 617-918-0870
DEP 24-hour emergency	Phone: 888-304-1133	

Summary of Webster's TMDLs and Impaired Waters [1, 2]

Receiving Waterbody	2016 Category	2016 Water Quality Impairments	2018/2020 Category	2018/2020 Water Quality Impairments	Applicable General Permit Section(s)	Change to Permit Requirements
French River (MA42-04) [3]	5	Mercury in Fish Tissue	5	Mercury in Fish Tissue		None
French River (MA42-05)	5	Flow Regime Modification Benthic Macroinvertebrates	5	Flow Regime Modification Benthic Macroinvertebrates		None
French River (MA42-06) [3]	5	Benthic Macroinvertebrates Cause Unknown (Sediment Screening Value (Exceedence)) Nutrients	5	Benthic Macroinvertebrates Cause Unknown (Sediment Screening Value (Exceedence)) Nutrients		None
Mill Brook (MA42-10) [3]	2		2			None
Sucker Brook (MA42-15)	5	Benthic Macroinvertebrates E. Coli	5	Benthic Macroinvertebrates E. Coli	Appendix H, Section III - Pathogens	None
Webster Lake (MA42064)	5	Eurasion Water Milfoil Myriophyllum Spicatum Non-Native Aquatic Plants Non-Native Fish/Shellfish/Zooplankton Dissolved Oxygen	5	Eurasion Water Milfoil Myriophyllum Spicatum Non-Native Aquatic Plants Non-Native Fish/Shellfish/Zooplankton Dissolved Oxygen		None
Long Island Sound Nitrogen TMDL					Appendix F, Section B.I - Nitrogen TMDL Requirements	None

[1] TMDLs associated with major rivers may apply to additional waterbodies within the watershed.

[2] Any TMDL or impairments related to nutrients (nitrogen and phosphorus) apply to all receiving waterbodies within the watershed.

[3] Included for reference for outfalls discharging to tributaries/wetlands to this waterbody. No direct discharges have been identified to date.

Permit Year 4 Outfall Screening Data

Outfall inventory and screening data is available electronically in the Town's record keeping files.

Permit Year 5

(July 1, 2022 – June 30, 2023)

Year 5 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2022-June 30, 2023

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, 2022 and June 30, 2023 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Town of Webster

EPA NPDES Permit Number: MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster State: MA Zip Code: 01570

Email: kpizzetti@webster-ma.gov Phone Number: (508) 949-3862

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): https://www.webster-ma.gov/925/Stormwater-Management-in-Webster

Date SWMP was Last Updated: October 2022

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

SWMP was updated in October 2022 and it's available at the Highway Department; online version is dated November 2021 and is expected to be updated again in Fall 2023.

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 2 as necessary

☒ 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:

The Town's Municipal Good Housekeeping and Pollution Prevention Program includes maintenance procedures for Town facilities and MS4 infrastructure, which are implemented to the maximum extent practicable. Maintenance was performed as needed for MS4 infrastructure in Permit Year 5. BMPs such as swales are inspected during the catch basin cleaning efforts.

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:

Disseminating information about proper pet waste management during dog license renewals was not completed during Permit Year 5. However, a Think Blue Massachusetts brochure entitled "Do Your 'Doody' for Clean Water", which highlights proper management of pet waste, is included on the Town's Stormwater Management webpage and is readily available to residents. The Town Clerk will print brochures to have on hand when residents apply for a dog license in Permit Year 6.

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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

☒ Completed the evaluation of all permittee owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under permit part 2.3.6.d or identified in the Nitrogen Source Identification Report, including: *(select the items of the evaluation that have been completed below)*

- ☒ Next planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) OR planned retrofit date
- ☒ Estimated cost of redevelopment or retrofit BMPs
- ☒ Engineering and regulatory feasibility of redevelopment or retrofit BMPs

☒ Completed a listing of planned structural BMPs and a plan and schedule for implementation

- ◉ The BMP list and implementation schedule is attached to the email submission
- ○ The BMP list and implementation schedule can be found at the following publicly available website:

☒ Any structural BMPs listed in Table 3 of Attachment 1 to Appendix F already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was estimated consistent with Attachment 1 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated nitrogen 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 nitrogen removed in lbs/year from the installed BMPs: 64.4

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:

Leaf litter messaging: Social media posts are planned to begin within Permit Year 6 to disseminate additional seasonal education to residents.

Attached is the Retrofit Assessment and Nitrogen Source Identification Report which includes BMP list and implementation schedule. Also, nitrogen removal estimates for Park Ave Elementary School, Memorial Beach

WTP, Library, and Pinewood Estates are enclosed in Appendix E of the Retrofit Assessment and Nitrogen Source Identification Report. 26 stormwater basins and swales within Town were either installed prior to the permit term, 2 sites do not have design plans or stormwater reports available, and 1 was proprietary so nitrogen removal cannot be determined.

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:

The Town's NOI listed receiving waters and impairments based on the water quality limited waters in the 2014 303(d) Integrated List. The Town evaluated changes to the impairments and/or receiving waters based on the final 2016 303(d) Integrated List and the analysis was included in the Town's Permit Year 2 Annual Report and is available in the SWMP. The Town evaluated changes to the impairments and/or receiving waters based on the final 2018/2020 303(d) Integrated List and the analysis was included in the Town's Permit Year 4 Annual Report and is available in the SWMP.

In Permit Year 5, the Town evaluated any changes to the impairments and/or receiving waters based on the final 2022 303(d) List and the analysis is included as an attachment with this report. The changes described herein do not add, remove, or change any receiving waters. Impairments updates are as follows:
-French River (MA42-05): added Non-Native Aquatic Plants and Curly-leaf Pondweed
- French River (MA42-06): added E. coli and Curly-leaf Pondweed
- Webster Lake (MA42064): removed Non-Native Fish/Shellfish/Zooplankton, added Fanwort and Asian Clam

During Permit Year 5, 9 outfalls were removed from the outfall inventory because they were determined to not exist or were another stormwater asset. These modifications did not add, remove, or change any receiving waters as listed in the NOI and Permit Year 2 receiving water update.

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**: 6

*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:Public Education and Outreach to Residents & Developers (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following key documents under their stormwater management plan:
- The Town's Stormwater Management Game Plan
- The Town's Stormwater Management Plan
- The Town's Stormwater Management By-Law
- The Town's Stormwater Permit Application
- The Town's Wetlands Protection By-Law
- Recent Annual Reports

Under the "Learn More" tab, the webpage also includes infographics titled:
- "Do Your Doody for Clean Water"

Elsewhere on the page is more public education and informational materials for residents:
- "Think Blue Massachusetts"
- "After the Storm - A Citizen's Guide to Understanding Stormwater"
- "MassDEP Stormwater Information"
- "FEMA for Kids"
- "EPA Environmental Kids Club"
- "NOAA for Kids - The Ocean"
- "The Scoop on Stormwater" (An EPA video)
- Small articles entitled "What is Stormwater?", "Why Stormwater Management?", and "Stormwater and Wastewater Are Not the Same!"

Targeted Audience: Residents, Developers (construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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: Public Education and Outreach to Businesses (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to businesses under their stormwater management plan:
- "Put Waste in its Place for Clean Water in Webster"
- "Keep Pollution at Bay - One Parking Lot at a Time"
- "Gas, Oil and Grease..Oh My!"

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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: Public Education and Outreach to Developers (Stormwater Management Webpage)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to developers under their stormwater management plan:
- "Stop Erosion in its Tracks to Keep Our Waters Clean"
- "Plan Ahead to Prevent Pollution: Tips to Reduce Stormwater Runoff During Construction"

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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: Public Education and Outreach to Industrial Facilities (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to industrial facilities under their stormwater management plan:
- "Put Hazards in Their Place: Safe Storage and Handling Tips for Chemicals and Hazardous Materials"
- "Know the Drill for Spills"
- "Gas, Oil and Grease..Oh My!"

Targeted Audience: Industrial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials.

Message Date(s): Ongoing

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: Public Education and Outreach to Residents (Social Media)

Message Description and Distribution Method:

The Town had made a few informational posts on their Facebook page related to water quality for their residents:
- The Town shared information regarding drought education
- The Town shared the 2022 CCR Quality Report
- The Town shared multiple posts informing of temporary water service interruptions
- The Town shared multiple posts regarding a Water/Sewer Commission
- The Town shared a post about a water main break
- The Town shared a post outlining mandatory drought restrictions
- The Town shared an advisory that Lakeside Beach was closed due to high bacteria

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

These posts are available to the Town's 4,700 Facebook followers.

Message Date(s):

Drought Education: January 26, 2023
2022 CCR Quality Report: March 21, 2023
Water/Sewer Public Hearing: March 23, 2023
Water Service Interruptions: April 3, April 6, April 12, 2023
Water/Sewer Commission posts: April 11, April 19, April 26, 2023
Water Main Break: April 28, 2023
Mandatory Drought Restrictions: June 5, 2023
Lakeside Beach closure notice: June 9th, 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: Public Education and Outreach to Residents (Health Department Webpage)

Message Description and Distribution Method:

The Town's Health Department has a link to the EPA's "SepticSmart" webpage, with informational material on septic systems and proper maintenance.

Targeted Audience: Residents

Responsible Department/Parties: Health Department

Measurable Goal(s):

All visitors to the webpage are able to follow the link to the educational materials.

Message Date(s): Ongoing

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:

Add an Educational Message

MCM2: Public Participation

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

The Town's SWMP was posted on the Town's website and is available for public review. Comments can be provided via phone call or through a linked Department Contact Form.

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 Town's annual Earth Day Clean-Up was held on April 22nd, 2023.

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: 0

Number of SSOs removed: 0

MS4 System Mapping

Optional: Provide additional status information regarding your map:

Mapping was updated during outfall investigations in Permit Year 5. The Town will continue to make updates to the mapping as the IDDE Program is implemented.

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:

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

Number of outfalls screened: 15

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

Percent of outfalls screened: 99

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

Two days of outfall investigations were conducted in Permit Year 5. One outfall remains to be located and during Permit Year 5, the upstream catch basin was submerged. This outfall will be revisited in Permit Year 6 to complete outfall screening/sampling.

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:

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

Number of catchment investigations completed this reporting period: 0

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

Percent of total catchments investigated: 0

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

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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 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: 0

Total number of illicit discharges removed: 0

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

Employee Training

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

Monthly meetings are held with all Highway Department staff that review safety and road work precautions, as well as identifying illicit discharges at stormwater outfalls, and catch basin cleanings.

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: 15

Number of inspections completed: 20

Number of enforcement actions taken: 0

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

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3): October 2012

Website of ordinance or regulatory mechanism: https://ecode360.com/28392684

As-built Drawings

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

Number of as-built drawings received: 2

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

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:

Report was developed in Permit Year 5. Anticipated updates to Town bylaws and regulations in July 2025 and July 2026.

Green Infrastructure Report

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

Report was developed in Permit Year 5. Anticipated updates to Town bylaws and regulations in July 2025 and July 2026.

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):

Public Safety Complex/Fire
Highway and Transfer Station
William S. Slater Playground & Lassie League Field
Emergency Medical Services
Memorial Park / Memorial Athletic Fields

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. 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.

None

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: 50

Number of catch basins cleaned: 25

Total volume or mass of material removed from all catch basins: 14 cubic yards

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

Total number of catch basins: 2,160

If applicable:

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

Total number of catch basins note: The total count may include some private and MassDOT catch basins; ownership will be refined as mapping is improved.

Catch basins are inspected when they are cleaned. Additional catch basins were inspected throughout the year during construction and to ensure they were functioning.

Street Sweeping

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

- (•) Number of miles cleaned: 50
- ( ) 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: 4

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

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:

The Town has prepared draft Stormwater Regulations. The effort to finalize and adopt the Regulations has been on hold while the Town works to hire a Conservation Agent. Implementation of the Regulations will require re-organization of Land Use Department and include the Conservation Agent and Building Inspector to participate in finalizing the permitting methodology to be included in the Regulations.

Additional Information

Optional: 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. If any of the above year 5 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

The Regulations update was impacted by COVID-19 as the hiring process for a Conservation Agent was slowed. Developing additional website content and completing public outreach was also impacted due to lack of capability for staff collaboration while they worked split shifts.

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 6 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

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 6 below:

The Town acknowledges the General Permit Year 6 requirements and will complete as many activities as possible based on funding and staff availability.

Part V: Certification of Small MS4 Annual Report 2023

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:	Richard LaFond	Title:	Town Adminstrator
Signature:		Date:	9/27/23

[Signatory may be a duly authorized representative]

Summary of Webster's TMDLs and Impaired Waters [1,2,3]

Receiving Waterbody	2018/2020 Category	2018/2020 Water Quality Impairments[2,3]	2022 Category	2022 Water Quality Impairments[2,3]	Applicable General Permit Section(s)	Change to Permit Requirements
French River (MA42-04) [4]	5	Mercury in Fish Tissue	5	Mercury in Fish Tissue	Appendix F, Section B.I - Nitrogen TMDL Requirements	None
French River (MA42-05)	5	Flow Regime Modification* Benthic Macroinvertebrates	5	Flow Regime Modification* Benthic Macroinvertebrates Non-Native Aquatic Plants* Curly-leaf Pondweed*	Appendix F, Section B.I - Nitrogen TMDL Requirements	None
French River (MA42-06) [4]	5	Benthic Macroinvertebrates Cause Unknown (Sediment Screening Value (Exceedence)) Nutrients	5	Benthic Macroinvertebrates Cause Unknown (Sediment Screening Value (Exceedence)) Nutrients Curly-leaf Pondweed* E. Coli	Appendix H, Section III - Pathogens Appendix F, Section B.I - Nitrogen TMDL Requirements	None
Mill Brook (MA42-10) [4]	2		2		Appendix F, Section B.I - Nitrogen TMDL Requirements	None
Sucker Brook (MA42-15)	5	Benthic Macroinvertebrates E. Coli	5	Benthic Macroinvertebrates E. Coli	Appendix H, Section III - Pathogens Appendix F, Section B.I - Nitrogen TMDL Requirements	None
Webster Lake (MA42064)	5	Eurasion Water Milfoil Myriophyllum Spicatum* Non-Native Aquatic Plants* Non-Native Fish/Shellfish/Zooplankton* Dissolved Oxygen	5	Eurasion Water Milfoil Myriophyllum Spicatum* Non-Native Aquatic Plants* Dissolved Oxygen Fanwort* Asian Clam*	Appendix F, Section B.I - Nitrogen TMDL Requirements	None
Long Island Sound Nitrogen TMDL					Appendix F, Section B.I - Nitrogen TMDL Requirements	None

[1] Any TMDL or impairments related to nutrients (nitrogen and phosphorus) apply to all tributaries and the watershed.

[2] Impairments applicable to Webster that have been renamed between 2018/2020 and 2022 Integrated List of Waters include the following but do not represent actual changes in the status of the waters exhibiting these impairments: Non-Native Fish/Shellfish/Zooplankton to Asian Clam (see 2022 Integrated List, Appendix 4).

[3] Impairments in blue were added in the 2022 Integrated List; red were removed.

[4] Included for reference for outfalls discharging to tributaries/wetlands to this waterbody. No direct discharges have been identified to date.

*TMDL not required (non-pollutant)

Permit Year 5 Outfall Screening Data

Outfall inventory and screening data is available electronically in the Town's record keeping files.



Webster
Retrofit Assessment and Nitrogen Source Identification Report

Town of Webster, MA

June 2023

Tighe&Bond

100% Recyclable

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Section 1
Background

1.1 Retrofit Assessment Requirements

Section 2.3.6 of the United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) General Permits for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts (referred to herein as "2016 Small MS4 General Permit"), requires that the Town of Webster identify a minimum of five (5) Town-owned properties that could be potentially modified or retrofitted with best management practices (BMPs) designed to reduce the frequency, volume, and pollutant loads of stormwater discharges to and from the municipal drainage system through the reduction of impervious area within four (4) years of the permit effective date (June 30, 2022). Properties should be ranked based on existing site conditions, proximity to priority areas, and planned Town capital projects. Excerpts from Section 2.3.6.d are included herein for reference:

> *Four (4) years from the effective date of this permit, the permittee shall identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs designed to reduce the frequency, volume, and pollutant loads of stormwater discharges to and from its MS4 through the reduction of impervious area. Properties and infrastructure for consideration shall include those with the potential for reduction of on-site impervious area (IA) as well as those that could provide reduction of off-site IA. At a minimum, the permittee shall consider municipal properties with significant impervious cover (including parking lots, buildings, and maintenance yards) that could be modified or retrofitted. MS4 infrastructure to be considered includes existing street right-of-ways, outfalls and conventional stormwater conveyances and controls (including swales and detention practices) that could be readily modified or retrofitted to provide reduction in frequency, volume or pollutant loads of such discharges through reduction of impervious cover.*
>
> *In determining the potential for modifying or retrofitting particular properties, the permittee shall consider factors such as access for maintenance purposes; subsurface geology; depth to water table; proximity to aquifers and subsurface infrastructure including sanitary sewers and septic systems; and opportunities for public use and education. In determining its priority ranking, the permittee shall consider factors such as schedules for planned capital improvements to storm and sanitary sewer infrastructure and paving projects; current storm sewer level of service; and control of discharges to water quality limited waters, first or second order streams, public swimming beaches, drinking water supply sources and shellfish growing areas.*

Section 2 of this report describes which Town-owned properties and infrastructure were evaluated during the retrofit assessment, as well as how the screening and ranking criteria were applied.

1.2 Nitrogen Source Identification Requirements

The Town of Webster is also required to complete a Nitrogen Source Identification Report within four (4) years of the permit effective date (by June 30, 2022) as required by Appendix F part B.I.1.b for discharges within the watershed of the French River, which discharges to the Thames River thus the Long Island Sound, which is impaired for Nitrogen. The report must include the following elements:

1. Calculations of total MS4 area draining to the water quality limited receiving water segments or their tributaries (the French River Watershed), incorporating updated mapping of the MS4 and catchment delineations produced pursuant to Part 2.3.4.6 of the 2016 Small MS4 General Permit;
2. All screening and monitoring results pursuant to part 2.3.4.7.b., targeting the receiving water segment(s);
3. Impervious area (IA) and directly connected impervious areas (DCIA) for the target catchment;
4. Identification, delineation and prioritization of potential catchments with high nitrogen loading; and
5. Identification of potential retrofit opportunities or opportunities for the installation of structural best management practices (BMPs) during re-development, including the removal of impervious area.

Tighe & Bond completed an assessment of nitrogen loading within the French River watershed in accordance with these 2016 Small MS4 General Permit requirements. **Section 3** of this letter report includes the results of each of the above requirements.

1.3 Nitrogen Optimization Requirements

The Retrofit Inventory and Nitrogen Source Identification Report required by Section 2.3.6.d, Part 2.2.2.c, and Appendix F of the General Permit are two parts of an overall program that must be established to address post-construction stormwater runoff from all new development and redevelopment sites that disturb one or more acres and discharge into the Town's MS4. Webster must also comply with requirements in Section 2.3.6.a.ii.4 of the General Permit, which outlines a specific quantity of phosphorus removal required for redevelopment sites that are an acre or larger. Excerpts from Section 2.3.6.a.ii.4 are included herein for reference:

> *Stormwater management systems on redevelopment sites shall be designed to meet an average annual pollutant removal equivalent to 80% of the average annual postconstruction load of Total Suspended Solids (TSS) related to the total post-construction impervious area on the site AND 50% of the average annual load of Total Phosphorus (TP) related to the total post-construction impervious surface area on the site (based on average annual loading and not on the basis of any individual storm event).*
>
> *a) Average annual pollutant removal requirements in 2.3.6.a.ii.4 above are achieved through one of the following methods:*
>
> *1. installing BMPs that meet the pollutant removal percentages…; or*

2. *retaining the volume of runoff equivalent to, or greater than, 0.8 inch multiplied by the total post-construction impervious surface area on the redeveloped site; or*
3. *meeting a combination of retention and treatment that achieves the above standards; or*
4. *utilizing offsite mitigation that meets the above standards within the same USGS HUC12 as the redevelopment site.*

Additionally, the Town must comply with the French River watershed impairment requirements outlined in Appendix F part B.I.1.a.i.2 of the 2016 Small MS4 General Permit, which includes enhanced BMPs to ensure that current nitrogen loads from stormwater discharged directly or indirectly via tributaries into the French River do not increase. As another enhanced BMP per Appendix F, stormwater BMPs installed as part of redevelopment should include infiltrating BMPs when possible. A summary of Part I.1.a.i.2 is included herein for reference:

> *The requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for nitrogen removal; retrofit inventory and priority ranking under 2.3.6.1.b shall include consideration of BMPs to reduce nitrogen discharges.*

The Town has drafted updated Stormwater Management Regulations to address these requirements for development and redevelopment projects disturbing one acre or greater. Webster may also need to comply with additional state and local permitting requirements during the design of BMP retrofits, depending on the selected location and proposed area of disturbance during construction. This may include the Wetlands Protection Act if the site is located within the buffer zone of a resource area.

To account for these additional 2016 Small MS4 General Permit requirements, if the Town elects to install or retrofit a Town property with a BMP, the Town should try to select a suitable site located in a catchment with high nitrogen loading to prioritize nutrient removal from stormwater runoff, and select a BMP type that would achieve a nitrogen removal sufficient to meet General Permit requirements.

1.4 French River Watershed Characteristics

Based on the MassGIS Major Watersheds data layer, the French River Watershed is approximately 19,500 acres in size, spanning both Massachusetts and Connecticut. Webster's MS4 urbanized area accounts for approximately 7,040 acres of French River watershed. **Figure 1** shows the approximate French River watershed in Webster and the surrounding towns.

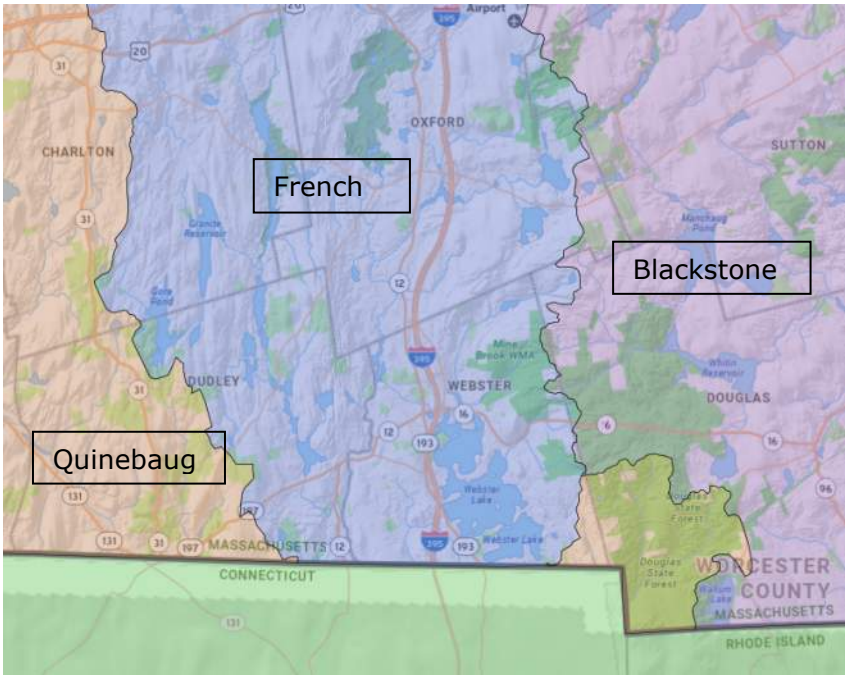


Figure 1: French River Watershed in Webster and Surrounding Towns

1.5 Data Sources

Tighe & Bond performed a retrofit inventory assessment consisting of the following steps:

1. Desktop Assessment to develop a preliminary list of feasible sites, including:
    - Initial screening in ArcGIS of sites included in the Town's municipal facility inventory to determine site characteristics, and
    - Numerical ranking in Microsoft Excel of properties based on site characteristics.
2. Meeting with Town Staff on May 22, 2023 to further refine the inventory, discuss upcoming and past capital projects, and refine the top feasible sites for a BMP retrofit opportunity within the Town's MS4 and within the French River watershed.
3. Site visits on June 8, 2023 for the highest ranking sites to confirm site suitability and inform conceptual designs.

Appendix A includes documentation of the datasets, data sources, and Tighe & Bond's screening and ranking methodologies used for the retrofit assessment. Information gathered from discussions with the Town is described in further detail in **Section 2**.

Tighe & Bond also calculated existing nitrogen loading in Webster's outfall catchments within the French River watershed in accordance with the methodology outlined in the 2016 Small MS4 General Permit. The process Tighe & Bond followed is outlined in **Appendix A** to this report, including datasets, data sources, and calculations used in the assessment. **Section 3** includes additional methodology and data sources related to the nitrogen source requirements not included in **Appendix A**.

Section 2
BMP Retrofit Inventory

In 2015, Tighe & Bond used existing Assessor's GIS data to develop an inventory of municipal buildings, facilities, parks, and open space as part of the *Municipal Good Housekeeping and Pollution Prevention Program (MGHP)*. We used this information and an updated Property Tax Parcel database obtained from MassGIS as a baseline for identifying the Town-owned properties for the Retrofit Inventory.

2.1 Desktop Assessment

An initial desktop assessment was conducted for the Town-owned properties using available GIS data based on EPA's screening criteria summarized in **Section 1.1** and as described in **Appendix A**. A preliminary ranking was then determined for each parcel to develop the Initial Retrofit Inventory and determine the feasibility of retrofitting properties with a BMP. **Appendix A** outlines the criteria used for ranking each property and cut-off values associated for each parameter assessed.

Table 1 presents the top properties presenting favorable conditions for a BMP retrofit after the desktop assessment. These properties were reviewed with Town staff and further refined to finalize the Retrofit Inventory, as discussed in **Section 2.2**.

There were 114 Town-owned parcels identified in the initial GIS desktop analysis. The list of properties for the potential Retrofit Inventory was refined after some parcels were removed from the initial list for any of the following reasons:

- Not within or abutting the regulated MS4 urbanized area
- Existing BMP on-site treating stormwater runoff
- Cemeteries, providing little room for BMP retrofits
- Greater than 80% wetlands with no impervious area on-site
- Ownership confirmed to be Webster Housing Authority (not municipal entities)

87 Town parcels remained in the initial inventory after removing these. A preliminary ranking was then determined for each parcel based on EPA screening criteria.

Table 1
Initial Retrofit Inventory and Preliminary Priority Ranking

RANK	MAP_PAR_ID	Site Address	Description	Sum
1	17_D_3_0	10 GOLDEN HEIGHTS	Webster Housing Authority	151
2	17_D_16_0	10 GOLDEN HEIGHTS	Webster Housing Authority	149
3	17_D_3_2	96 SLATER ST	Webster Housing	143
4	27_G_15_0	58 PARK AVE	Park Avenue Elementary School	142
5	76_A_1_0	55 THOMPSON RD	Public Safety Complex/Fire	141
6	1_L_1_0	350 MAIN ST	Town Hall with connecting Auditorium	140
7	1_L_1_1	29 NEGUS ST	Anthony J. Sitkowski Building (former school)	139
8	1_G_4_0	0 TRACY COURT	Parking lot behind #275 Main St	133
9	27_F_15_0	31 RAY ST	Former National Guard Armory	131
10	16_F_6_0	81 SLATER ST	William S. Slater Playground & Lassie League Field	131
11	22_C_14_0	16 OLD WORCESTER RD	Sacred Heart Cemetery	131
12	15_G_34_0	41 EAST MAIN ST	Filmer Administration Building, Webster Public Schools Administration Building	130
13	4_B_1_0	29 WESTWOOD RD	Soccer Field	130
14	1_T_3_0	0 HIGH ST	Parking lot north of Dog Park at #103 Main St	130
15	1_S_6_0	116 SCHOOL ST	Senior Center	129
16	78_A_1_0	44 WORCESTER RD	St Anthony Cemetery	129
17	13_B_18_0	11 MAY ST	May St Park-Playground & Town Parking Lot	129
18	1_M_14_0	0 MAIN ST	Parking lot west of #3 Church St	128
19	16_F_52_0	186 NORTH MAIN ST	Webster Housing Authority	127
20	27_F_16_0	23 RAY ST	Memorial Park / Memorial Athletic Fields	126
21	1_L_8_0	4 VETERANS WAY	Veteran's Home / Town Veterans Office	126
22	27_G_16_0	33 RAY ST	Memorial Athletic Field	126
23	12_B_29_0	14 GEORGE ST	George St Playground & Soccer Field	125
24	1_L_2_0	2 LAKE ST	Corbin Library	125
25	1_S_12_0	170 SCHOOL ST	Fire Department Station #2	124
26	1_F_17_0	0 TRACY COURT	Parking lot behind #2 Tracy Ct	124
27	29_H_30_0	0 LITTLE LEAGUE LANE	Little League Recreation Building	123
28	87_B_1_0	23 CUDWORTH RD	Highway and Transfer Station	123
29	1_F_1_0	0 DAVIS ST	Parking lot west of #8 Davis St	123
30	17_D_9_0	10 GOLDEN HEIGHTS	Webster Housing Authority	122
31	2_K_13_0	451 SCHOOL ST	Webster/Dudley Historical Society	121
32	26_B_13_0	62-68 THOMPSON RD	Webster Housing Authority	121
33	76_B_1_1	67 THOMPSON RD	Emergency Medical Services	121
34	25_E_30_0	2-32 SECOND ISLAND RD	Webster Housing Authority	120
35	12_E_16_0	52 LAKE PARKWAY	Bartlett High School, new Webster Middle School	120
36	12_A_1_0	0 SNOW ST	Open space, corner of Myrtle Ave and Snow St	119
37	1_F_5_0	0 DAVIS ST	Parking lot behind #8 Davis St and 181 Main St	119
38	98_C_1_0	0 CUDWORTH RD	Woods, open space north of #87 Cudworth Rd	119
39	38_B_3_3	0 BATES GROVE RD	Open space, across street from #13 Bates Grove Rd	118
40	1_G_10_0	0 MAIN ST	Parking lot/driveway east of #299 Main St	118
41	2_E_19_1	0 ELM ST	Open space, between #4 and 6 Elm St	117
42	45_J_4_0	0 LAKESIDE AVE	Open space, between #20 and #16 Freeman Ave	117
43	1_L_7_0	37 NEGUS ST	Southern part of parking lot at Gladys E Kelly Public library	117
44	1_L_7_1	39 NEGUS ST	Southern part of parking lot at Gladys E Kelly Public library	117
45	1_F_17_1	0 MAIN ST	Parking lot behind #2 Tracy Ct	117
46	28_D_23_0	26 PARK RD	Wooded Lot with Aboveground Water Tank	117
47	22_A_6_0	31 OLD WORCESTER RD	St Joseph Cemetery	117
48	1_G_6_1	0 MAIN ST	Parking lot/driveway/behind #299 Main St	116
49	14_A_4_0	0 SOUTH MAIN ST	Mama's Kitchen parking lot?	115
50	57_A_13_0	5 BIRCH ISLAND RD	Pumping Station	115
51	1_F_6_0	0 DAVIS ST	Parking lot behind #8 Davis St	115
52	13_K_7_0	0 SNOW ST	Open space, northern corner of Snow St and Summer St	114
53	1_S_2_0	0 SCHOOL ST	Parking lot north of #48 School St	114
54	99_A_6_0	0 TOWN FOREST RD	Woods, open space at town border north of Camile Rd	114
55	29_F_11_0	0 BEAUDRY LANE	Woods, open space southern end of Beaudry Lane	114
56	3_L_1_0	0 HOUGHTON ST	Woods, open space behind #22 Raleigh Rd	113
57	3_L_2_0	0 HOUGHTON ST	Woods, open space behind #22 Raleigh Rd	113
58	3_L_3_0	0 HOUGHTON ST	Woods, open space behind #22 Raleigh Rd	113
59	29_H_10_0	5 LITTLE LEAGUE LANE	Little League Park	113
60	12_A_4_0	0 SNOW ST	Open space, southern corner of Snow St and Summer St	113

2.2 Town Staff Input

Tighe & Bond staff met with the Town of Webster on May 22, 2023 to review the Initial Retrofit Inventory. We gathered information on planned capital projects (e.g., planned municipal building renovations, upcoming park redevelopments, paving projects, infrastructure projects), and the local support for new BMPs in terms of construction and long-term operations and maintenance. Each property on the Initial Retrofit Inventory was reviewed and the feasibility of retrofitting the property with a new BMP was discussed.

Tighe & Bond incorporated feedback received during the meeting to update and finalize the Retrofit Inventory. The top sites are included in the final Retrofit Inventory, as presented in **Section 2.3**. Additional information was provided by Town staff in June 2023, as discussed in **Section 2.3**.

2.3 Potential Retrofit Opportunities

Based on the initial desktop assessment completed for each site and additional information collected during the meeting with Town staff, **Table 2** presents a list of high priority sites that have favorable site conditions to potentially be retrofitted or modified with BMPs was developed. The top 15 sites in the Retrofit Inventory for Webster with the ranking scores for each site for the criteria evaluated as part of the desktop assessment is included in **Appendix B**. On June 8, 2023 these top sites were visited to confirm site characteristics and suitability for the top locations. The total score for each property accounts for the site visit findings as well as the Town input provided at the May 22, 2023 meeting.

Planning level design sketches and opinions of probable design, permitting, and construction costs (OPCCs) were developed for BMP implementation at the top 5 sites: Public Safety Complex, Highway/Transfer Station, William Slater Playground & Lassie League Field, Emergency Medical Services, and Memorial Park/Athletic Fields. These design sketches and OPCCs are included in **Appendix C**. **Table 2** also discusses the estimated cost of redevelopment or retrofit BMPs and the engineering and regulatory feasibility of each retrofit opportunity.

Note that Tighe & Bond did not complete subsurface soil, bedrock, or groundwater investigations as part of this retrofit assessment. The Town should complete these investigations as part of the design phase of any selected retrofit site to better determine actual site conditions at each property. Results of these investigations may alter pollutant removal potential depending on the area available for BMPs, soil conditions, depth to restrictive underground features, and actual land area that can be directed towards the BMP(s) based on existing topography.

Table 2
Webster's BMP Retrofit Inventory

Site	Project Summary and Proposed BMP(s)	Anticipated Schedule [1]	Estimated Cost [2]	Engineering and Regulatory Feasibility	Priority Ranking
Public Safety Complex 55 Thompson Rd	• Water quality unit • Bioretention area	2026	$55,000	Feasible – engineering and permitting will be completed through planned capital project	**1**
Highway/Transfer Station 23 Cudworth Rd	• Deep sump hooded catch basin • Water quality unit • Sediment forebay • Bioretention area	2028	$92,000 - $95,000	Feasible – engineering and permitting will be completed through planned capital project	**2**
William Slater Playground & Lassie League Field 81 Slater St	• Deep sump hooded catch basin • Water quality unit • Bioretention area • Porous pavement	2030	$125,500	Feasible – engineering and permitting will be completed through planned capital project	**3**
Emergency Medical Services 67 Thompson Rd	• Water quality swale • Bioretention area • Deep sump hooded catch basin • Water quality unit	2032	$88,000 - $98,000	Feasible – engineering and permitting will be completed through planned capital project	**4**
Memorial Park / Athletic Fields 23 Ray St	• Deep sump hooded catch basin • Water quality unit • Bioretention area	2034	$35,000 - $69,000	Feasible – engineering and permitting will be completed through planned capital project	**5**

1. Fiscal Year when project design and permitting begins. Schedules included in this table are subject to change.
2. Estimated costs included in this table are subject to change during design and construction. Ranges are given for projects with various retrofit options. See Appendix C for more information.

Section 3
French River Watershed Nitrogen Source Identification

3.1 Screening and Monitoring Results

A summary of dry weather outfall investigations previously completed by Tighe & Bond and Town staff is discussed in detail in the *Webster Dry Weather Screening Field Effort Summary* memoranda dated June 2023.

The Town's stormwater system within the French River Watershed consists of 250 MS4 outfalls. The Town's dry weather outfall screening results for the MS4 outfalls within the French River Watershed were reviewed during the writing of this report. The outfall inventory and dry weather screening inspection data are included in the spreadsheet in **Appendix D** (delivered electronically). Note that there are additional non-MS4 outfalls (including state and private) included in the Town's GIS mapping within the watershed but data related to these outfalls is not presented in this report and the spreadsheet is filtered to only show MS4 outfalls located within the French River watershed.

A summary of water quality sampling results is also included in **Appendix D**. The summary has a color-coded ranking system for the results of the outfall monitoring, which demonstrates the severity of the sampling results (i.e., a red result denotes a higher, potentially problematic concentration of a stormwater pollutant). The ranking system uses known EPA benchmarks for each pollutant analyzed. This system was used to clearly understand the water quality at each outfall. Note that nitrogen analysis was only completed for outfalls directly discharging to receiving waters.

3.2 Summary Statistics

Tighe & Bond evaluated pervious area, impervious area, and directly connected (DCIA) within MS4 outfall catchment areas in the French River watershed in Webster. This assessment followed EPA's methodology and is summarized in more detail in **Appendix A**.

Note that this analysis required the use of the Town's preliminary catchment delineations. The preliminary catchment delineations were developed by Tighe & Bond as part of the Illicit Discharge Detection and Elimination (IDDE) Program in Permit Year 1. As described in the Town's IDDE Program, catchment delineations could not be completed for every outfall where the stormwater GIS mapping lacked connectivity because using topography alone may not represent the complete drainage area draining to an outfall.

Tighe & Bond completed a brief review to determine if there were any outliers in the catchment delineations. Ten (10) catchment delineations were removed from the analysis because the catchments delineations captured unrealistically large areas based on topography, as shown in **Table 3**. Although these outfall catchments were not included in the nitrogen loading analysis, they are included in the count of total outfalls within the French River Watershed provided above in **Section 3.1**.

Table 3
Outfalls without a Catchment Delineation

Outfall ID	Location
BB2-3	Gore Road
FB-23	Asselin Avenue
FR1-28	Pearl Street
FR3-12	Main Street
SB-10	Camile Road
WL-31	Beacon Road
WL-72	Colonial Road
WL-89	Panarelli Way
WL-110	Wyman Street
WL-113	Gore Road

Table 4 summarizes pervious and impervious areas within Webster's outfall catchment areas located in the French River watershed.

Table 4
Impervious Area and DCIA Summary Statistics for Catchments within the French River Watershed [1]

	Areas for MS4 Catchments (Acres)
Total pervious area	1,034
Total impervious area (TIA)	272
Total directly connected impervious area (DCIA)	207
Total disconnected impervious area	65

[1] The sum of the total pervious and impervious area is less than the total urbanized area within the watershed (7,037 acres) because open water is not included in these counts and some catchments were not included in the analysis, as discussed earlier in this Section.

The impervious area and nitrogen loading estimates presented in this report are based on the preliminary catchment delineations. As the GIS mapping and catchment delineations are further refined in future permit years as catchment investigations are completed, the impervious area and nitrogen loading estimates will also be refined. Nitrogen loadings are discussed further in **Section 2.3**.

3.3 Prioritization of Potential Catchments with High Nitrogen Loading

Using the methods described in **Appendix A**, estimates of nitrogen loading were developed for Webster's outfall catchment areas within the French River watershed. The nitrogen loading from the catchments evaluated within the Town's MS4 within the French River watershed is approximately 3,770 pounds per year (lbs/yr). The complete dataset for these results is provided in the Outfall Inventory and Inspection & Nitrogen Loading Data spreadsheet in **Appendix D**.

The nitrogen loadings calculated in this analysis are estimates and are highly dependent on the preliminary catchment delineations, identified hydrologic soil groups, and mapped land use types. To improve loading estimates, catchment delineations need to be further refined as connectivity within the MS4 system is updated. It is likely some catchments within the system are mapped as covering a larger area than they physically do on the ground. However, the estimates determined in this report provide a valuable guide to help identify areas of Town that could be considered high priority for taking actions to begin reducing nitrogen loading.

The 10 outfall catchments with the highest total nitrogen loading within Webster's MS4 in the French River watershed are provided in **Table 5** in descending order. These catchment areas account for approximately 30% of the total loading from the MS4 catchments. The table also provides the total IA associated with these outfall catchments. High loadings generally correspond to catchments with large overall areas and a high percentage of impervious cover.

Table 5
MS4 Outfall Catchments in the French River Watershed with the Highest Estimated Nitrogen Loading

Outfall ID	**Location**	**Total Impervious Area** (acres)	**Estimated Nitrogen Load** (lbs/year)
FB-4	Poland St	9.05	142.49
WL-45	Bates Point Rd	11.01	137.76
FR3-13	Main St	9.88	136.27
FR1-12	Victoria Dr	9.49	127.96
FR1-13	Victoria Dr	9.49	127.96
WL-23	Thompson Rd	8.19	115.32
FR1-36	E Main St	6.25	89.02
FR3-29	Westview Dr	4.99	80.98
FB-16	Abbey Rd	4.31	79.24
WL-97	Lower Gore Rd	4.39	77.79

Since catchment delineations will continue to be refined as the MS4 mapping is updated, the catchment loadings were also normalized by catchment area. Some of the larger catchments in Webster have a higher need for delineation refinement, so this provides insight into where land use and soil type combinations contribute the highest loading on a per acre basis. Understanding where the concentration of nutrient loading is highest is important when targeting nutrient reduction efforts. **Table 6** summarizes the catchments with the highest loading normalized by catchment area size.

Table 6
MS4 Outfall Catchments in the French River Watershed with the Highest Estimated Nitrogen Loading Normalized by Catchment Area Size

Outfall ID	Location	Total Impervious Area (acres)	Estimated Nitrogen Load (lbs/year)	Normalized Estimated Nitrogen Load by Acre (lbs/year/acre)
FR1-46	Davis St	0.07	1.01	14.84
FR1-52	Davis St	1.95	28.43	13.97
WL-22	Thompson Rd	1.21	16.54	12.77
FR3-15	Main St	0.28	3.67	12.77
FR1-53	Tracy Ct	3.98	55.65	12.16
FR2-5	Thompson Rd	0.75	10.23	11.82
FR2-3	E Main St	2.67	38.31	11.08
FR2-4	E Main St	2.67	38.31	11.08
WL-48	Thompson Rd	0.90	13.02	10.97
WL-47	Thompson Rd	1.32	19.27	9.70

3.4 Potential Retrofit Opportunities within French River Watershed

All of the properties in the Webster Retrofit Inventory discussed in **Section 2.3** fall within the French River Watershed. 2 of the 5 BMP retrofit properties are located within outfall catchments with a relatively high nitrogen loading and should be targeted in retrofit efforts. Note that suitable municipal properties did not correspond to the highest nitrogen load concentrations. These areas are summarized in **Table 7** below.

Table 7
Summary of Potential BMP Retrofit Sites and Associated Nitrogen Loading Treatment

Property	Associated Outfall ID	Estimated Total Nitrogen Load in Catchment (lbs/year)
Public Safety Complex 55 Thompson Rd	*N/A*	*Not within an MS4 outfall associated catchment area*
Highway/Transfer Station 23 Cudworth Rd	CP-1	58.81 *(13th highest loading catchment of 189)*
William Slater Playground & Lassie League Field 81 Slater St	FR1-21	23.18 *(36th highest loading catchment of 189)*
Emergency Medical Services 67 Thompson Rd	*N/A*	*Not within an MS4 outfall associated catchment area*
Memorial Park/Athletic Fields 23 Ray St	*N/A*	*Not within an MS4 outfall associated catchment area*

3.5 Plan and Schedule for Implementation of BMPs

Based on the retrofit assessment, nitrogen loading evaluation, engineering and permitting feasibility, and the Town's priorities in terms of upcoming capital projects, budgets, and administrative timelines, **Table 8** provides a plan and schedule for implementation of BMPs in Town.

Table 8
Plan and Schedule for BMP Implementation

Site	Proposed BMP(s)	Anticipated Schedule[1]
Park Avenue Elementary School 58 Park Ave	5 Bioretention Basins 2 Subsurface Infiltration 1 Water Quality Swale	Completed 2017*
Dominique Dr	Infiltration Basin	Completed 2019*
Library 2 Lake St	Subsurface Infiltration	Completed 2019*
Lake Parkway	5 Bioretention Basins	Completed 2020*
Memorial Beach WTP 10 Memorial Beach	Infiltration Basin	Completed 2020*
Pinewood Estates Oakwood Dr	Infiltration Basin	Completed 2023*
Public Safety Complex 55 Thompson Rd	Water quality unit, Bioretention area	2026
Highway/Transfer Station 23 Cudworth Rd	Deep sump hooded catch basin, Water quality unit, Sediment forebay, Bioretention area	2028
William Slater Playground & Lassie League Field 81 Slater St	Deep sump hooded catch basin, Water quality unit, Bioretention area, Porous pavement	2030
Emergency Medical Services 67 Thompson Rd	Water quality swale, Bioretention area, Deep sump hooded catch basin, Water quality unit	2032
Memorial Park / Athletic Fields 23 Ray St	Deep sump hooded catch basin, Water quality unit, Bioretention area	2034

[1] Fiscal Year when project design and permitting begins. Schedules included in this table are subject to change.
*Identified earlier in Permit Term for retrofit prioritization.

As discussed in **Section 2.3**, planning level design sketches and opinions of probable design, permitting, and construction costs (OPCCs) were developed for these priority sites and are included in **Appendix C**.

4.6 Existing Structural BMPs

As stated in Appendix F, Part B.I.1.c.ii of the General Permit:

> *Any structural BMPs listed in Table 4-3 of Attachment 1 to Appendix H installed in the urbanized area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen removal by the BMP consistent with Attachment 1 to Appendix H. The permittee shall document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP in each annual report.*

Using the documents available (stormwater reports, design plans) related to the design of BMPs from the Town, Tighe & Bond updated the BMP inventory. Data from the available documents was input into EPA's BMP Accounting and Tracking Tool (BATT), a spreadsheet-based tool providing accounting, tracking, and reporting for pollutant load reduction.[1] The inventory with associated total nitrogen removal estimates is included in **Appendix E**. Note, stormwater reports were not available for the Dominique Drive infiltration basin or the Lake Parkway bioretention basins, so they are not included in the BMP nitrogen removal estimate calculations. In addition, 1 BMP in Town is a proprietary structure, and 26 stormwater basins and swales were installed prior to the permit term, thus were also not included in the calculations.

[1] Available at: https://www.epa.gov/npdes-permits/stormwater-tools-new-england

Section 4
Conclusions and Recommendations

This Retrofit Inventory and Nitrogen Source Identification Report satisfies the Town's Permit Year 4 requirements per Part 2.3.6.d and Appendix F part B.I.1.b of the 2016 Small MS4 General Permit. The results of this analysis provide a list of feasible sites and catchments with high nitrogen loading that the Town can use to build upon in the next phase of the Town's MS4 requirements. See below for a list of recommendations for the Town to implement in subsequent permit years:

- **Include this report in the Permit Year 5 annual report.** This Retrofit Inventory and Nitrogen Source Identification Report must be submitted to EPA and MassDEP.

- **Install demonstration BMP.** Per Appendix F, the Town must install a minimum of one structural BMP as a demonstration project within the French River watershed within six years of the permit effective date (by June 30, 2024). The demonstration project shall be installed targeting a catchment with high nitrogen load potential. See **Table 8** for a list of BMPs that have already been installed during the Permit Term. The Town could consider completing public education at one of these sites to consider the BMP a "demonstration BMP." The Town can also complete education for an upcoming BMP retrofit opportunity to meet this requirement.

- **Implement the BMP retrofit plan.** Per Appendix F, the Town must install the BMPs included in **Section 3.5** in accordance with the plan and schedule. In Permit Year 5, the Town could begin discussions with internal decision makers and conduct site visits to verify feasibility of retrofit opportunities and further design of the demonstration BMP. The Town should refine the BMP retrofit implementation schedule that is feasible given planned projects, availability of funding, and administrative timelines.

- **Maintain the retrofit inventory.** When preparing annual reports for Permit Year 5 and subsequent permit years, the Town should review and update the Retrofit Inventory and identify additional sites or infrastructure that could be retrofitted or modified. A minimum of five sites must be maintained in the Inventory until such a time as when the Town has less than five possible retrofit sites remaining.

  In addition, the Town must report on all properties included in the Retrofit Inventory that have been modified or retrofitted with BMPs to mitigate IA each year. The Town may also include in its annual report non-MS4 owned property that has been modified or retrofitted with BMPs to mitigate IA.

- **Continue to improve drainage mapping.** There are several large catchments throughout the Town of Webster and multiple outfalls for which a catchment could not be delineated. Improved drainage mapping and establishment of connectivity is required to update the drainage mapping and delineate accurate catchments. Associated impervious area and nitrogen loading calculations can also be refined once catchment delineations are refined.

- **Estimate nitrogen removal.** Any structural BMPs installed in the regulated area by the Town shall be tracked and the Town shall estimate the nitrogen removal by the BMP consistent with Attachment 3 to Appendix F. The Town shall document the BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated nitrogen removed in mass per year by the BMP in each annual report. The table in **Appendix E** should be updated.

J:\W\W5002 Webster MA\041 FY23 Stormwater Assistance\Reports\02 - Retrofit-Source ID Report\Webster Nitrogen Source Identification Report.docx

Appendix A
Methodology for BMP Retrofit Assessment & Nitrogen Source Identification Calculations

Methodology for Retrofit Assessment and Nutrient Source Identification Reports

This appendix explains the methodology used to identify the top five retrofit opportunities within the Town and to calculate nutrient loadings for Total Nitrogen on a catchment basis.

All actions described were performed in ArcGIS Pro 3.1.1 and Microsoft Excel.

Retrofit Assessment GIS Workflow:

Town-owned parcels were assessed for retrofit opportunities and restrictions. Both the Town Municipal Facility Inventories from the Town Operation and Maintenance Plans and the MassGIS Property Tax Parcel layer were used to develop an initial list of potential Town-owned properties.

Properties were assessed according to the following GIS layers, where applicable, as listed in **Table 1**. **Table 1** also provides the data sources from which the layers were brought into GIS.

TABLE 1
Shapefiles Used in Retrofit Analysis

Layer	Use	Origin
Property Tax Parcels	Town owned property determination and total parcel areas	MassGIS
2016 Land Use/Land Cover	Impervious area calculations by parcel	MassGIS
2000 and 2010 Urbanized Areas	MS4 urbanized area proximity	MassGIS
Structures	Structures within the parcel	MassGIS
Subsurface Geology	Soil hydrologic group, depth to water table, and depth to bedrock identification [a]	NRCS Soils Layer and muagatt table
National Wetland Inventory	Wetland buffers, areas, and proximities	MassGIS
MassDEP Hydrography	Waterbody proximities and buffers	MassGIS
FEMA National Flood Hazard Layer	Flood zone proximities	MassGIS
Subsurface sewer system	Sewer infrastructure on site	Town database as available
Stormwater Infrastructure	Stormwater infrastructure on site or in proximity	Town database as available
Environmental Justice Area	Environmental Justice areas in proximity	MassGIS
Integrated List of Waters	Impaired water proximity	MassGIS
Shellfish Growing Areas [b]	Shellfish growing area proximity	MassGIS
Aquifers	Aquifer proximity	MassGIS
Public Water Supply Source	Public water supply proximity	MassGIS
Wellhead protection area	Wellhead protection zone proximity	MassGIS
Water Supply Source	Water supply proximity	MassGIS

[a] Depth of bedrock information was unavailable for the Town within the NRCS database.
[b] Not located within the Town.

One layer, including all Town-owned parcels of interest, was populated with the information identified in the "use" column of **Table 1**. The following geoprocessing tools were used to populate this information:

- **Summarize Within** was used to calculate the following areas in acres within a given parcel
    - Wetland Area
    - Impervious Cover/Area
    - Environmental Justice Area
- **Near** was used to calculate the proximity of each parcel to the following layers of interest:
    - MS4 Urbanized Area
    - Structures
    - MassDEP Hydrography
    - FEMA National Flood Hazard Layer
    - Water Supply Protection Areas
    - Wellhead Protection Areas
    - Subsurface Sewer Systems
    - Stormwater Infrastructure
    - Integrated List of Waters
    - Water Supply Sources
    - Aquifers
- **Buffer** was used to identify buffers to resource areas
- **Calculate Geometry** was used to calculate the total parcel area
- **Spatial Join** was used to join all soil hydrologic groups, depths to bedrock, and depths to water tables present on a given parcel
- **Spatial Join** was used to summarize the quantity of stormwater infrastructure on a given site
- Dominant soil type based on the soil type with the greatest area within a given parcel was also calculated using the steps below:
    - **Intersect** soils and parcels
    - **Calculate Geometry** of the area for each of the resulting intersected features
    - **Summarize** table based on max area and classify by parcel
    - **Join** summarized table to intersected table using max area and the calculated area as join IDs
    - **Select by Attribute** to select all features that are NOT null and export values of the dominant soil type, bedrock depth, and water table depth (all attributes in the original soils table)
    - **Join** the dominant soil type, bedrock depth, and water table depth to parcel layer using parcel IDs

A field was also added to record information on nutrient loadings on a parcel basis.

Nutrient loadings per parcel were determined using EPA prescribed methods. The same methodology used for watershed loading determinations was used for parcel loading determinations. The only difference between the two approaches is that the parcel analysis was conducted within a different area of interest. Refer to the Nutrient Source ID methodology below for the methodology used.

Once GIS analysis was complete, the data was exported to excel where each parcel was numerically ranked. **Table 2** provides criteria used for ranking and cutoff values used to assign a value of 0 through 5.

TABLE 2
Property Ranking Criteria

Ranking Criteria	Priority Value (0 through 5) Cut-off Values (criteria specific)						Notes
	0	**1**	**2**	**3**	**4**	**5**	**5 = highest priority rank 0 = lowest priority rank**
Area (acres)	-	0	1	2	5	10	Larger parcel size ranks higher
Impervious Area*	-	0	0.25	0.5	0.75	1	Larger cover ranks higher
Vacant Parcel	Yes	-	-	-	-	No	Parcels with active uses rank higher
Dominant Hydrologic Soil Conditions	C, D, or C/D	-	-	A/D, B/D, Null	-	A or B	Soil types range from A - D and can be mixed. Soil type A provides best infiltration rates and therefore ranks highest. Soil type D ranks lowest.
Wetland Area (% Coverage)	50	40	30	20	10	0	Smaller wetlands area ranks higher
FEMA Floodzone	Floodway	-	100 Year Flood	-	500 Year Flood	None	Parcels not in flood zones rank higher
Depth To Watertable (cm)	-	Shallow: 0-36	-	Null	Deep: > 36	-	Deeper water table ranks higher
Proximity to Sewer System Features (ft)	-	0	25	50	100	200	Further ranks higher
Proximity to Aquifer (mi)	-	1	0.75	0.5	0.25	0	Closer ranks higher
Proximity to Impaired Water Bodies (ft)	-	0	-	100	-	200	Further ranks higher
Proximity to Impaired Streams (ft)	-	0	-	100	-	200	Further ranks higher
Proximity to Public Water Supply (mi)	-	2	1.5	1	0.5	0	Closer ranks higher
Proximity to Wellhead Protection Zone 1 (mi)	-	2	1.5	1	0.5	0	Closer ranks higher
Proximity to Wellhead Protection Zone 2 (mi)	-	2	1.5	1	0.5	0	Closer ranks higher
Proximity to IWPA (mi)	-	2	1.5	1	0.5	0	Closer ranks higher
Proximity to Stormwater System Features (ft)	-	100	75	50	25	0	Closer ranks higher
Located within Environmental Justice Area	No	-	-	-	-	Yes	Pollutant control in environmental justice areas rank higher
Town Capital Project**	No	-	-	-	-	Yes	Parcels with planned capital projects rank higher
Engineering Feasibility**	Not Evaluated/ Less Feasible	-	-	-	-	Yes	Sites with engineering feasibility rank higher
					Max Score:	**140**	

* Note: The priority values for impervious area are weighted as follows:

Acres	Priority Value
0	1
0.25	5
0.5	10
0.75	15
1	20

** Note: The priority values for town capital projects or projects with engineering feasiblity are weighted as follows:

Capital Project / Eng. Feasibility	Priority Value
Yes	20
No	0

Following the preliminary ranking, additional items considered as listed below and discussions with Town personnel informed the selection of the top 5 properties in the Retrofit Inventory. Discussions with the Town are discussed in broader detail in Section 2 of the main report.

Other items considered*:*

- *Opportunities for public use and education*
- *Upcoming capital improvements to storm, sewer, or paving projects*
- *Current storm sewer level of service*
- *Ease of access for maintenance*
- *Road width (i.e., wider roads have more opportunity to add BMPs along road edge/reduce pavement without impacting traffic flow)*
- *Political will for construction and/or long-term maintenance*
- *Engineering feasibility based on site visits of the top priority properties*

Nutrient Source ID Reports

The nutrient source ID analysis included four GIS shapefiles shown in **Table 3** below. Depending on applicability criteria within the 2016 Small MS4 General Permit, this analysis was conducted for nitrogen loadings.

TABLE 3
Shapefiles Used in Nutrient Source ID Analysis

Layer	Use	Origin
Watershed Drainage Area Delineations	Area of interest for nutrient loading analysis	Varies
Outfall Catchment Delineations	Area(s) of interest for nutrient loading analysis	Town files
2016 Land Use/Land Cover	Land use and cover classifications	MassGIS
Subsurface Geology (SSURGO_Soils)	Soil hydrologic groups	NRCS Soils Layer

Using the data sources above, the following key areas were calculated:

- **Total Impervious Area** was determined using the MassGIS 2016 Land Cover/Land Use layer.
- **Directly Connected Impervious Area (DCIA)** is the impervious area directly connected to the MS4 system. This parameter was calculated for each land cover/land use type using Sutherland equations within the EPA guidance document entitled "Estimating Change in Impervious Area (IA) and Directly Connected Impervious Areas (DCIA) for Massachusetts Small MS4 Permit" (Revised April 2014).
- **Disconnected Impervious Area** is the DCIA subtracted from the total impervious area.
- **Pervious Area** is any land cover/land use not classified as impervious or water. These areas are distinguished by land use and hydrologic soil group combinations.

Export rates for each of the key areas described above were then applied to determine the phosphorus loading from each parameter, as described below.

A base shapefile was created to determine nutrient loading rates. This base shapefile was developed following EPA guidance document entitled "2016 Massachusetts Small MS4 Permit Pollutant Loading Export Rates applied to the 2016 Massachusetts Land Use/Land Cover GIS Dataset"[1]. This table was used in both catchment loading calculations and overall watershed loading calculations.

Catchment Loading Calculations

Catchment loadings were determined by calculating the areas of each land use/cover soil combinations within a given catchment. After calculating areas, directly connected impervious area (DCIA), disconnected impervious area, and pervious area loadings were calculated in excel. The GIS and excel steps taken are as follows:

1. Create two new fields in the 2016 Land Use / Land Cover shapefile called *Concat* and *PLCRSS*
2. Populate *Concat* field using field calculator to equal the Land Use and Land Cover attributes, separated by a comma (i.e., "Commercial, Pervious")
3. Populate *PLCRSS* by joining the crosswalk table and using the *Concat* field as the join ID
4. Intersect the "Land Use Land Cover" shapefile with the "SSURGO Soils" Layer to create a new layer called "LandUseLandCover2016_ClippedTowns_SoilsIntersect"
5. Create a new field called *Land Use Soil Category*
6. Populate the *Land Use Soil Category* field to equal the *PLCRSS* field plus the string "TIA" if the land cover was impervious
7. Populate the *Land Use Soil Category* field to equal the *PLCRSS* field plus the string "PERV" plus the intersecting soil hydrologic group if the land cover was not impervious
8. Assign nitrogen export rates for each *Land Use Soil Category* value based on Table 2-2 in Attachment 2 of Appendix F of the 2016 Massachusetts Small MS4 General Permit
9. Clip the "LandUseLandCover2016_ClippedTowns_SoilsIntersect" to the watershed of interest within the Town's MS4 area
10. Intersect the clipped layer with the Town's catchment layer
11. Select and export anything with a *Land Use Soil Category* ending in "TIA" to a new layer representing the Total Impervious Area within the MS4 area in the watershed of interest
12. Dissolve the new layer by *Land Use Soil Category* and the *Catchment/Outfall ID*
13. Add a new field to the dissolved layer and calculate area in acres
14. Export attribute table to excel
15. Query out features not ending in "TIA" and repeat steps 11 through 13
16. Calculate nutrient loading by multiplying the *Land Use Soil Category* of a given catchment by its nitrogen export rate
17. Export out attribute table to excel

[1] https://www.mass.gov/doc/2016-massachusetts-small-ms4-permit-pollutant-loading-export-rates/download

In Microsoft Excel, the total catchment impervious and pervious areas were calculated using both table exports. These values were then summed to calculate the total catchment area. The total pervious nutrient loadings were calculated in the same manner.

The percent impervious area (IA) was calculated for each *Land Use Soil Category* in a given catchment by dividing the exported area of the *Land Use Soil Category* by the total catchment area. The percent DCIA was then calculated using this percent IA and the Sutherland Equations. **Equation 1** shows the Sutherland Equation and **Table 4** below outlines the exponents (E) and multipliers (M) used in the Sutherland Equation.

$$\%DCIA = M * \%IA^{E} \quad (1)$$

TABLE 4
Sutherland Equation Multiplier and Exponents by Land Use Soil Category

Land Use Soil Category	Multiplier (M)	Exponent (E)
Com_IndTIA	0.4	1.2
MFR_HDRTIA	0.4	1.2
MDRTIA	0.1	1.5
LDRTIA	0.1	1.5
HWYTIA	0.1	1.5
FORTIA	0.01	2.0
OpenTIA	0.1	1.5
AgTIA	0.01	2.0

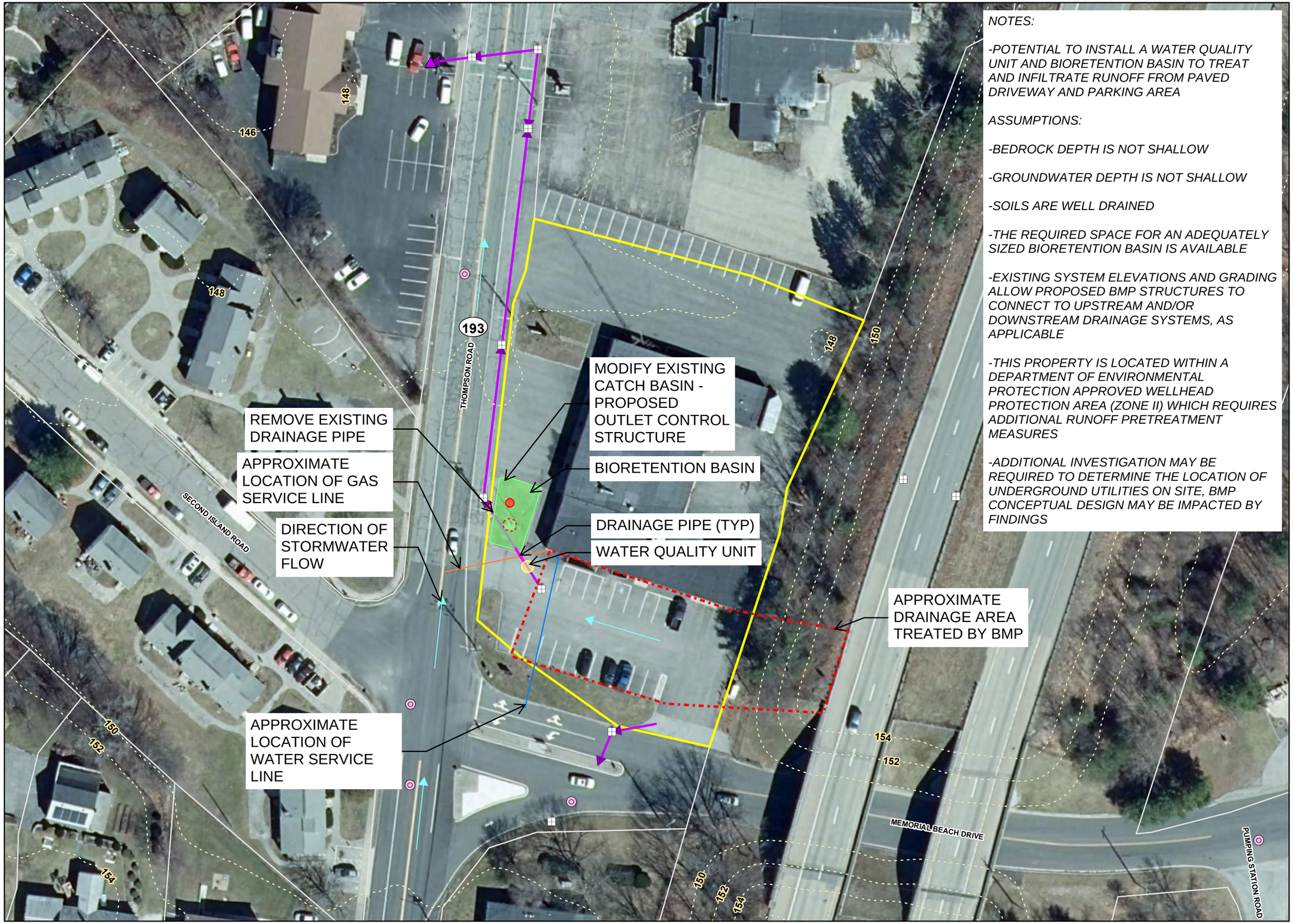
The percent DCIA was then multiplied by the total catchment area to get the DCIA in acres and the disconnected IA was calculated by subtracting the calculated DCIA from the original *Land Use Soil Category* area. A DCIA export rate was then assigned according to Table 2-2 in Attachment 2 of Appendix F of the 2016 Massachusetts Small MS4 General Permit.

A disconnected impervious area export rate equivalent to that of Hydrologic Soil Group C was assigned. DCIA loadings and disconnected impervious area loadings were determined by multiplying the areas by their respective export rates. Total DCIA, disconnected impervious area, and pervious area loadings and areas were then summed by catchment.

Appendix B
Stormwater BMP Retrofit Inventory

Ranking	MAP_PAR_ID	Site Address	Description	Sum	Wetland Area (% of Parcel)	Parcel Area (acres)	Impervious Area Per Parcel (Acres)	Dominant Soil Hydrologic Group	FEMA Flood Zone	Water Table Depth	Proximity to Sewer System Features (Feet)	Proximity to Aquifers (Miles)	Proximity to Impaired Water Bodies (Feet)	Proximity to Impaired Streams (Feet)	Proximity to Public Water Supplies (Miles)	Proximity to Wellhead Protection Zone I (Miles)	Proximity to Wellhead Protection Zone II (Miles)	Proximity to IWPA (Miles)	Proximity to Stormwater System Features (Feet)	Environmental Justice Population	Vacancy	Planned Project	Engineering Feasibility
Planned Projects																							
	27_F_15_0	31 RAY ST	Former National Guard Armory; Slater Museum	84	5	3	10	0	5	4	1	4	5	5	1	5	5	1	5	0	5	20	Not Evaluated
Priority List																							
1	76_A_1_0	55 THOMPSON RD	Public Safety Complex/Fire	97	5	2	20	5	5	1	1	5	5	5	1	5	5	2	5	0	5	0	20
2	87_B_1_0	23 CUDWORTH RD	Highway and Transfer Station	96	5	5	20	3	5	1	1	4	5	5	1	4	5	2	5	0	5	0	20
3	16_F_6_0	81 SLATER ST	William S. Slater Playground & Lassie League Field	85	5	5	1	5	5	1	1	5	5	5	1	5	5	1	5	5	5	0	20
4	76_B_1_1	67 THOMPSON RD	Emergency Medical Services	82	5	1	5	5	5	1	2	5	5	5	1	5	5	2	5	0	5	0	20
5	27_F_16_0	23 RAY ST	Memorial Park / Memorial Athletic Fields	80	5	4	5	0	5	4	1	4	5	5	1	5	5	1	5	0	5	0	20
6	4_B_1_0	29 WESTWOOD RD	Soccer Field	65	5	3	15	5	5	1	1	5	5	5	1	3	5	1	5	0	0	0	Less Feasible
7	79_A_2_0	91 GORE RD	Webster Fish and Game	64	4	5	15	5	2	1	1	5	1	1	1	4	5	4	5	0	5	0	Not Evaluated
8	27_G_16_0	33 RAY ST	Memorial Athletic Field	62	5	4	5	0	5	4	1	5	5	5	1	5	5	2	5	0	5	0	Less Feasible
9	12_B_29_0	14 GEORGE ST	George St Playground & Soccer Field	62	5	3	5	5	5	1	1	3	5	5	1	4	4	1	4	5	5	0	Less Feasible
10	1_H_3_0	357 MAIN ST	Police Station	62	5	2	10	0	2	4	1	4	5	3	1	4	5	1	5	5	5	0	Not Evaluated
11	29_H_10_0	5 LITTLE LEAGUE LANE	Little League Park	61	5	4	1	0	5	4	1	4	5	5	1	5	5	1	5	5	5	0	Not Evaluated
12	1_T_3_0	0 HIGH ST	Parking lot north of Dog Park at #103 Main St	60	5	1	5	0	5	4	2	3	5	5	1	3	5	1	5	5	5	0	Less Feasible
13	1_M_14_0	0 MAIN ST	Parking lot west of #3 Church St	60	5	1	5	0	5	4	1	3	5	5	1	4	5	1	5	5	5	0	Less Feasible
14	1_G_10_0	0 MAIN ST	Parking lot/driveway east of #299 Main St	60	5	1	5	0	4	4	1	4	5	5	1	4	5	1	5	5	5	0	Not Evaluated
15	1_S_6_0	116 SCHOOL ST	Headstart Program	59	5	1	5	0	5	4	1	3	5	5	1	3	5	1	5	5	5	0	Less Feasible

Appendix C
BMP Retrofit Site Sketches & Opinion of Probable Construction Costs



NOTES:

-POTENTIAL TO INSTALL A WATER QUALITY UNIT AND BIORETENTION BASIN TO TREAT AND INFILTRATE RUNOFF FROM PAVED DRIVEWAY AND PARKING AREA

ASSUMPTIONS:

-BEDROCK DEPTH IS NOT SHALLOW

-GROUNDWATER DEPTH IS NOT SHALLOW

-SOILS ARE WELL DRAINED

-THE REQUIRED SPACE FOR AN ADEQUATELY SIZED BIORETENTION BASIN IS AVAILABLE

-EXISTING SYSTEM ELEVATIONS AND GRADING ALLOW PROPOSED BMP STRUCTURES TO CONNECT TO UPSTREAM AND/OR DOWNSTREAM DRAINAGE SYSTEMS, AS APPLICABLE

-THIS PROPERTY IS LOCATED WITHIN A DEPARTMENT OF ENVIRONMENTAL PROTECTION APPROVED WELLHEAD PROTECTION AREA (ZONE II) WHICH REQUIRES ADDITIONAL RUNOFF PRETREATMENT MEASURES

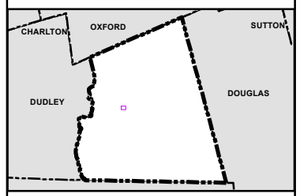
-ADDITIONAL INVESTIGATION MAY BE REQUIRED TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES ON SITE, BMP CONCEPTUAL DESIGN MAY BE IMPACTED BY FINDINGS

TOWN OF WEBSTER RETROFIT SITES

LEGEND

- Outfall
- Drain Manhole
- Catch Basin
- Drain Feature
- 2-foot Contours
- Culvert
- Drain Line
- Open Channel
- Detention Basin
- Subject Property
- Parcel Boundary
- Town Boundary

LOCUS MAP



N

0 30 60

Feet

1:700

NOTES

1. Based on MassGIS Color Orthophotography (2021)
2. Stormwater Infrastructure provided by the Town of Webster

Public Safety Complex/Fire

55 Thompson Road
76_A_1_0

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Webster, Massachusetts
July 2023

Tighe&Bond

WEBSTER RETROFIT INVENTORY
CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

JULY 2023

Public Safety Complex

QUANTITY	UNIT	ITEM	UNIT PRICE	AMOUNT
1	EA	Educational Signage	$ 5,000	$ 5,000
1	EA	Water Quality Unit	$ 10,000	$ 10,000
25	FT	12 Inch Corrugated Plastic (Polyethylene) Pipe	$ 110	$ 2,750
1	LS	Bioretention Area (240 sqft)	$ 1,000	$ 1,000
4	EA	Silt Sack	$ 125	$ 500
28	CY	Earth Excavation	$ 35	$ 980
25	FT	Sawing Asphalt Pavement	$ 3	$ 75
1	TON	Patching Asphalt Pavement	$ 250	$ 250
1	EA	Outlet Control Structure	$ 3,500	$ 3,500
			Subtotal	$ 25,000
			Estimated Engineering and Permitting Fees*	$ 25,000
			Construction Contingency (20%)	$ 5,000
			SITE TOTAL	**$ 55,000**

*Estimated Engineering and Permitting fees are based on our understanding of the site conditions, jurisdictional resource areas and local regulations as of the date of this report and are to be used as budgetary values only. This estimate includes wetland area delineation, hydrologic/hydraulic design, site plan development, stormwater management reporting requirements, and environmental wetlands permitting, as needed. Actual site conditions may impact design features and permitting efforts estimated herein.

NOTES:

-POTENTIAL TO INSTALL A DEEP SUMP HOODED CATCH BASIN, WATER QUALITY UNIT, DRAINAGE MANHOLE, SEDIMENT FOREBAY, AND BIORETENTION BASIN TO TREAT AND INFILTRATE RUNOFF FROM PAVED DRIVEWAY AND PARKING AREA AT HIGHWAY DEPARTMENT, WITH TWO OPTIONS FOR BIORETENTION BASIN LOCATION

-ALTERNATE: POTENTIAL TO INSTALL TWO DEEP SUMP HOODED CATCH BASINS, A WATER QUALITY UNIT, DRAINAGE MANHOLE, SEDIMENT FOREBAY, AND BIORETENTION BASIN TO TREAT AND INFILTRATE RUNOFF FROM PAVED DRIVEWAY AND PARKING AREA AT TRANSFER STATION

ASSUMPTIONS:

-BEDROCK DEPTH IS NOT SHALLOW

-GROUNDWATER DEPTH IS NOT SHALLOW

-THE REQUIRED SPACE FOR AN ADEQUATELY SIZED BIORETENTION BASIN IS AVAILABLE

-EXISTING SYSTEM ELEVATIONS AND GRADING ALLOW PROPOSED BMP STRUCTURES TO CONNECT TO UPSTREAM AND/OR DOWNSTREAM DRAINAGE SYSTEMS, AS APPLICABLE

-ADDITIONAL INVESTIGATION MAY BE REQUIRED TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES ON SITE, BMP CONCEPTUAL DESIGN MAY BE IMPACTED BY FINDINGS

ADDITIONAL INVESTIGATION REQUIRED TO DETERMINE CONNECTIONS TO EXISTING STORMWATER TREATMENT UNITS. POTENTIAL TO CONNECT TO BMP DESIGN

APPROXIMATE DRAINAGE AREA TREATED BY BMP

DIRECTION OF STORMWATER FLOW

WATER QUALITY UNIT

SEDIMENT FOREBAY

OUTLET CONTROL STRUCTURE

DRAINAGE PIPE (TYP)

OUTLET CONTROL STRUCTURE

CONNECT TO EXISTING DRAINAGE SYSTEM

LOCATION OPTION 2: BIORETENTION BASIN

INSTALL CURBING TO DIRECT STORMWATER RUNOFF

DEEP SUMP HOODED CATCH BASIN

LOCATION OPTION 1: BIORETENTION BASIN

CONNECT TO EXISTING DRAINAGE SYSTEM

87_B_1_0

CUDWORTH ROAD

CHESTNUT DRIVE

ALTERNATE: INSTALL CURBING TO DIRECT STORMWATER RUNOFF

APPROXIMATE DRAINAGE AREA TREATED BY BMP

ALTERNATE: DEEP SUMP HOODED CATCH BASINS

ALTERNATE: DRAINAGE MANHOLE

ALTERNATE: WATER QUALITY UNIT

ALTERNATE: SEDIMENT FOREBAY

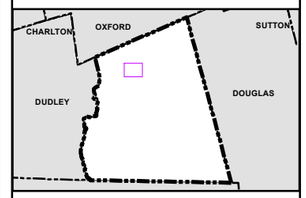
ALTERNATE: BIORETENTION BASIN

TOWN OF WEBSTER RETROFIT SITES

LEGEND

- Outfall
- Drain Manhole
- Catch Basin
- Drain Feature
- 2-foot Contours
- Culvert
- Drain Line
- Open Channel
- Detention Basin
- Subject Property
- Parcel Boundary
- Town Boundary

LOCUS MAP



N

0 75 150

Feet

1:1,600

NOTES

1. Based on MassGIS Color Orthophotography (2021)
2. Stormwater Infrastructure provided by the Town of Webster

Highway and Transfer Station

23 Cudworth Road
87_B_1_0

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Webster, Massachusetts
July 2023

Tighe&Bond

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W-5002

WEBSTER RETROFIT INVENTORY
CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

JULY 2023

Highway & Transfer Station

QUANTITY	UNIT	ITEM	UNIT PRICE	AMOUNT
1	EA	Deep Sump Hooded Catch Basin	$ 7,000	$ 7,000
160	FT	Granite Curbing	$ 70	$ 11,200
1	EA	Water Quality Unit	$ 10,000	$ 10,000
150	FT	12 Inch Corrugated Plastic (Polyethylene) Pipe	$ 110	$ 16,500
1	LS	Sediment Forebay (140 sqft)	$ 500	$ 500
1	LS	Bioretention Area (700 sqft)	$ 2,600	$ 2,600
250	LF	Sediment Control Barrier	$ 6	$ 1,500
5	EA	Silt Sack	$ 125	$ 625
170	CY	Earth Excavation	$ 35	$ 5,950
700	SQFT	Clearing and Grubbing	$ 0.40	$ 280
30	FT	Sawing Asphalt Pavement	$ 3	$ 90
4	TON	Patching Asphalt Pavement	$ 250	$ 1,065
1	EA	Outlet Control Structure	$ 3,500	$ 3,500
			Subtotal	$ 61,000
			Estimated Engineering and Permitting Fees*	$ 25,000
			Construction Contingency (20%)	$ 12,200
			SITE TOTAL	**$ 98,200**

Highway & Transfer Station - Alternate

2	EA	Deep Sump Hooded Catch Basin	$ 7,000	$ 14,000
225	FT	Granite Curbing	$ 70	$ 15,750
1	EA	Water Quality Unit	$ 10,000	$ 10,000
1	EA	Drainage Manhole	$ 7,000	$ 7,000
100	FT	12 Inch Corrugated Plastic (Polyethylene) Pipe	$ 110	$ 11,000
1	LS	Sediment Forebay (50 sqft)	$ 500	$ 500
1	LS	Bioretention Area (260 sqft)	$ 1,000	$ 1,000
200	LF	Sediment Control Barrier	$ 6	$ 1,200
3	EA	Silt Sack	$ 125	$ 375
120	CY	Earth Excavation	$ 35	$ 4,200
260	SQFT	Clearing and Grubbing	$ 0.40	$ 104
100	FT	Sawing Asphalt Pavement	$ 3	$ 300
14	TON	Patching Asphalt Pavement	$ 250	$ 3,550
1	EA	Outlet Control Structure	$ 3,500	$ 3,500
			Subtotal	$ 73,000
			Construction Contingency (20%)	$ 14,600
			SITE TOTAL	**$ 87,600**

*Estimated Engineering and Permitting fees are based on our understanding of the site conditions, jurisdictional resource areas and local regulations as of the date of this report and are to be used as budgetary values only. This estimate includes wetland area delineation, hydrologic/hydraulic design, site plan development, stormwater management reporting requirements, and environmental wetlands permitting, as needed. Actual site conditions may impact design features and permitting efforts estimated herein.

NOTES:

-POTENTIAL TO INSTALL A DEEP SUMP HOODED CATCH BASIN, DRAINAGE MANHOLE, WATER QUALITY UNIT, AND BIORETENTION BASIN TO TREAT AND INFILTRATE RUNOFF FROM PAVED DRIVEWAY AND PARKING AREA

-ALTERNATE: POTENTIAL TO INSTALL POROUS PAVEMENT BENEATH PARKING SPOTS TO INFILTRATE RUNOFF FROM PAVED DRIVEWAY AND PARKING AREA

ASSUMPTIONS:

-BEDROCK DEPTH IS NOT SHALLOW

-GROUNDWATER DEPTH IS NOT SHALLOW

-SOILS ARE WELL DRAINED

-THE REQUIRED SPACE FOR AN ADEQUATELY SIZED BIORETENTION BASIN IS AVAILABLE

-EXISTING SYSTEM ELEVATIONS AND GRADING ALLOW PROPOSED BMP STRUCTURES TO CONNECT TO UPSTREAM AND/OR DOWNSTREAM DRAINAGE SYSTEMS, AS APPLICABLE

GOLDEN HEIGHTS

SLATER STREET

DRAINAGE PIPE (TYP)

DEEP SUMP HODDED CATCH BASIN

ALTERNATE: POROUS PAVEMENT

DRAINAGE MANHOLE

WATER QUALITY UNIT

DRAINAGE MANHOLE

DIRECTION OF STORMWATER FLOW

REDIRECT FLOW FROM EXISTING CATCH BASIN

REMOVE EXISTING DRAINAGE PIPE

CURBING TO DIRECT STORMWATER RUNOFF

16_F_6_0

BIORETENTION BASIN

OUTLET CONTROL STRUCTURE

APPROXIMATE DRAINAGE AREA TREATED BY BMP

146

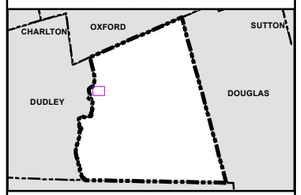
148

TOWN OF WEBSTER RETROFIT SITES

LEGEND

- Outfall
- Drain Manhole
- Catch Basin
- Drain Feature
- 2-foot Contours
- Culvert
- Drain Line
- Open Channel
- Detention Basin
- Subject Property
- Parcel Boundary
- Town Boundary

LOCUS MAP



N

0 20 40

Feet

1:400

NOTES

1. Based on MassGIS Color Orthophotography (2021)
2. Stormwater Infrastructure provided by the Town of Webster.

William S. Slater Playground & Lassie League Field

81 Slater Street
16_F_6_0

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Webster, Massachusetts
July 2023

Tighe&Bond

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W-5002

WEBSTER RETROFIT INVENTORY
CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

JULY 2023

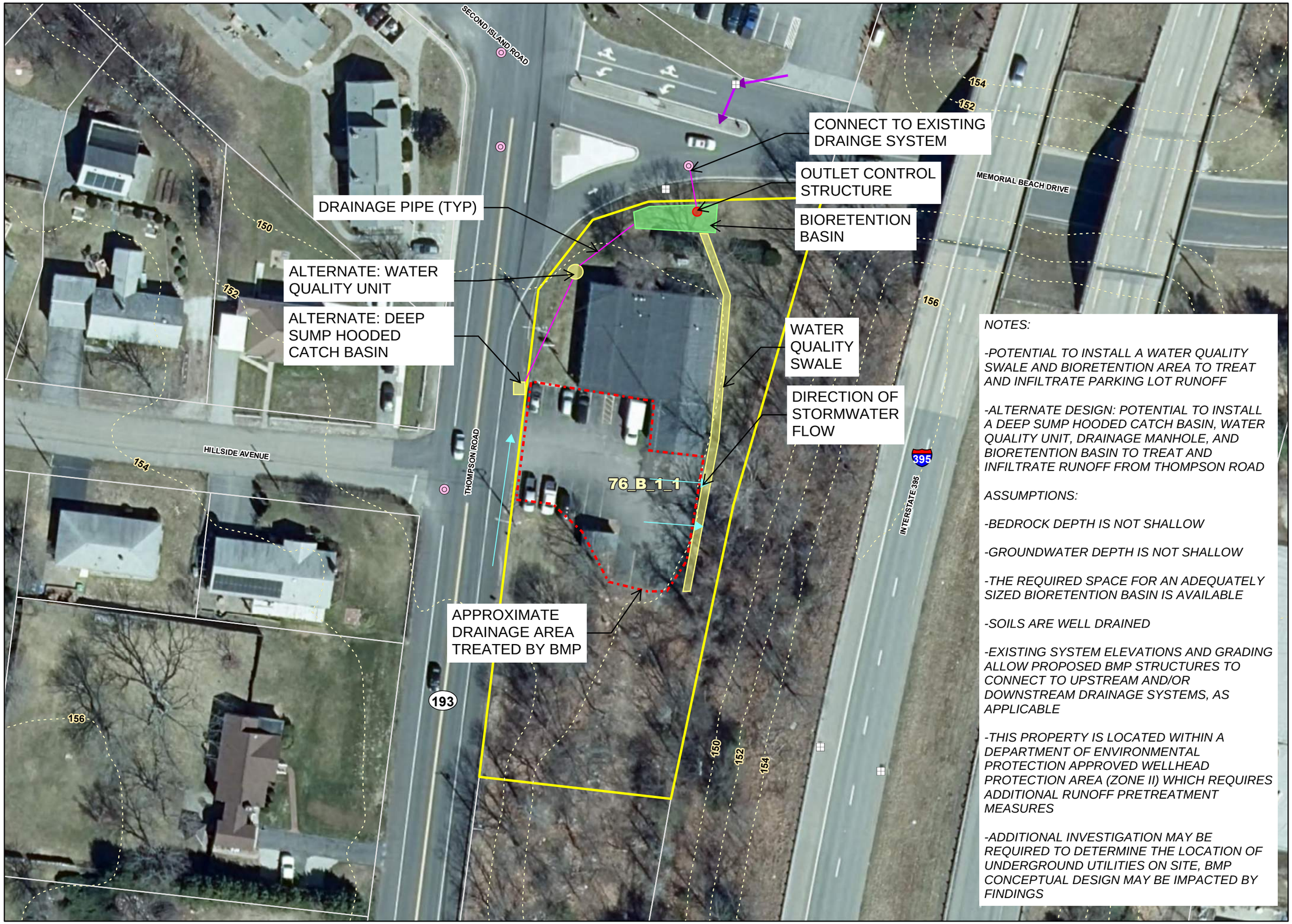
William S. Slater Playground

QUANTITY	UNIT	ITEM	UNIT PRICE	AMOUNT
1	EA	Educational Signage	$ 5,000	$ 5,000
1	EA	Deep Sump Hooded Catch Basin	$ 7,000	$ 7,000
110	FT	Granite Curbing	$ 70	$ 7,700
1	EA	Drainage Manhole	$ 7,000	$ 7,000
1	EA	Water Quality Unit	$ 10,000	$ 10,000
85	FT	12 Inch Corrugated Plastic (Polyethylene) Pipe	$ 110	$ 9,350
2	CY	Loam and Seed for Disturbed Areas	$ 100	$ 200
1	LS	Bioretention Area (320 sqft)	$ 1,200	$ 1,200
3	EA	Silt Sack	$ 125	$ 375
100	LF	Sediment Control Barrier	$ 6	$ 600
94	CY	Earth Excavation	$ 35	$ 3,290
1	EA	Outlet Control Structure	$ 3,500	$ 3,500
			Subtotal	$ 56,000
			Estimated Engineering and Permitting Fees*	$ 25,000
			Construction Contingency (20%)	$ 11,200
			SITE TOTAL	**$ 92,200**

William S. Slater Playground - Alternate

500	SY	Porous Pavement	$ 155	$ 77,500
3	EA	Silt Sack	$ 125	$ 375
120	LF	Sediment Control Barrier	$ 6	$ 720
			Subtotal	$ 79,000
			Construction Contingency (20%)	$ 15,800
			SITE TOTAL	**$ 94,800**

*Estimated Engineering and Permitting fees are based on our understanding of the site conditions, jurisdictional resource areas and local regulations as of the date of this report and are to be used as budgetary values only. This estimate includes wetland area delineation, hydrologic/hydraulic design, site plan development, stormwater management reporting requirements, and environmental wetlands permitting, as needed. Actual site conditions may impact design features and permitting efforts estimated herein.



NOTES:

-POTENTIAL TO INSTALL A WATER QUALITY SWALE AND BIORETENTION AREA TO TREAT AND INFILTRATE PARKING LOT RUNOFF

-ALTERNATE DESIGN: POTENTIAL TO INSTALL A DEEP SUMP HOODED CATCH BASIN, WATER QUALITY UNIT, DRAINAGE MANHOLE, AND BIORETENTION BASIN TO TREAT AND INFILTRATE RUNOFF FROM THOMPSON ROAD

ASSUMPTIONS:

-BEDROCK DEPTH IS NOT SHALLOW

-GROUNDWATER DEPTH IS NOT SHALLOW

-THE REQUIRED SPACE FOR AN ADEQUATELY SIZED BIORETENTION BASIN IS AVAILABLE

-SOILS ARE WELL DRAINED

-EXISTING SYSTEM ELEVATIONS AND GRADING ALLOW PROPOSED BMP STRUCTURES TO CONNECT TO UPSTREAM AND/OR DOWNSTREAM DRAINAGE SYSTEMS, AS APPLICABLE

-THIS PROPERTY IS LOCATED WITHIN A DEPARTMENT OF ENVIRONMENTAL PROTECTION APPROVED WELLHEAD PROTECTION AREA (ZONE II) WHICH REQUIRES ADDITIONAL RUNOFF PRETREATMENT MEASURES

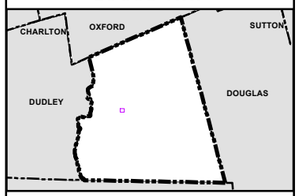
-ADDITIONAL INVESTIGATION MAY BE REQUIRED TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES ON SITE, BMP CONCEPTUAL DESIGN MAY BE IMPACTED BY FINDINGS

TOWN OF WEBSTER RETROFIT SITES

LEGEND

- Outfall
- Drain Manhole
- Catch Basin
- Drain Feature
- 2-foot Contours
- Culvert
- Drain Line
- Open Channel
- Detention Basin
- Subject Property
- Parcel Boundary
- Town Boundary

LOCUS MAP



N

0 30 60

Feet

1:600

NOTES

1. Based on MassGIS Color Orthophotography (2021)
2. Stormwater Infrastructure provided by the Town of Webster

Emergency Medical Services

67 Thompson Road
76_B_1_1

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Webster, Massachusetts
July 2023

Tighe&Bond

WEBSTER RETROFIT INVENTORY

CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

JULY 2023

Emergency Medical Services - Alternate

QUANTITY	UNIT	ITEM	UNIT PRICE	AMOUNT
1	LS	Water Quality Swale	$ 800	$ 800
1	LS	Bioretention Area (250 sqft)	$ 1,000	$ 1,000
800	SQFT	Clearing and Grubbing	$ 0.40	$ 320
1	EA	Silt Sack	$ 125	$ 125
250	LF	Sediment Control Barrier	$ 6	$ 1,500
1	EA	Outlet Control Structure	$ 3,500	$ 3,500
			Subtotal	$ 8,000
			Estimated Engineering and Permitting Fees*	$ 25,000
			Construction Contingency (20%)	$ 1,600
			SITE TOTAL	**$ 35,000**

Emergency Medical Services - Alternate

QUANTITY	UNIT	ITEM	UNIT PRICE	AMOUNT
1	EA	Deep Sump Hooded Catch Basin	$ 7,000	$ 7,000
1	EA	Water Quality Unit	$ 10,000	$ 10,000
125	FT	12 Inch Corrugated Plastic (Polyethylene) Pipe	$ 110	$ 13,750
15	CY	Loam and Seed for Disturbed Areas	$ 100	$ 1,500
1	LS	Bioretention Area (420 sqft)	$ 1,600	$ 1,600
1	EA	Silt Sack	$ 125	$ 125
250	LF	Sediment Control Barrier	$ 6	$ 1,500
420	SQFT	Clearing and Grubbing	$ 0.40	$ 168
415	CY	Earth Excavation	$ 35	$ 14,525
50	FT	Sawing Asphalt Pavement	$ 3	$ 150
7	TON	Patching Asphalt Pavement	$ 250	$ 1,775
1	EA	Outlet Control Structure	$ 3,500	$ 3,500
			Subtotal	$ 36,000
			Estimated Engineering and Permitting Fees*	$ 25,000
			Construction Contingency (20%)	$ 7,200
			SITE TOTAL	**$ 69,000**

*Estimated Engineering and Permitting fees are based on our understanding of the site conditions, jurisdictional resource areas and local regulations as of the date of this report and are to be used as budgetary values only. This estimate includes wetland area delineation, hydrologic/hydraulic design, site plan development, stormwater management reporting requirements, and environmental wetlands permitting, as needed. Actual site conditions may impact design features and permitting efforts estimated herein.

NOTES:

-POTENTIAL TO INSTALL A WATER QUALITY UNIT AND BIORETENTION BASIN TO TREAT AND INFILTRATE RUNOFF FROM PAVED DRIVEWAY AND PARKING AREA

ASSUMPTIONS:

-BEDROCK DEPTH IS NOT SHALLOW

-GROUNDWATER DEPTH IS NOT SHALLOW

-THE REQUIRED SPACE FOR AN ADEQUATELY SIZED BIORETENTION BASIN IS AVAILABLE

-EXISTING SYSTEM ELEVATIONS AND GRADING ALLOW PROPOSED BMP STRUCTURES TO CONNECT TO UPSTREAM AND/OR DOWNSTREAM DRAINAGE SYSTEMS, AS APPLICABLE

BIORETENTION BASIN

DRAINAGE PIPE (TYP)

OUTLET CONTROL STRUCTURE

WATER QUALITY UNIT

PROPOSED OUTFALL

DRAINAGE MANHOLE

LOCATE OUTFALL IN WOODED AREA AND DIRECT FLOW TO PROPOSED BIORETENTION BASIN

DIRECTION OF STORMWATER FLOW

DEEP SUMP HOODED CATCH BASIN

APPROXIMATE DRAINAGE AREA TREATED BY BMP

INSTALL CURBING TO DIRECT STORMWATER FLOW

27_F_16_0

WASHINGTON STREET

LINCOLN STREET

MEMORIAL DRIVE

RAY STREET

PEPKA DRIVE

DRESSER STREET

156

158

160

162

164

166

168

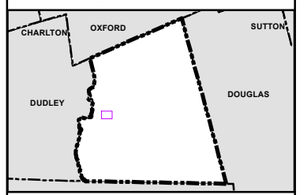
170

TOWN OF WEBSTER RETROFIT SITES

LEGEND

- Outfall
- Drain Manhole
- Catch Basin
- Drain Feature
- 2-foot Contours
- Culvert
- Drain Line
- Open Channel
- Detention Basin
- Subject Property
- Parcel Boundary
- Town Boundary

LOCUS MAP



N

0 50 100

Feet

1:1,100

NOTES

1. Based on MassGIS Color Orthophotography (2021)
2. Stormwater Infrastructure provided by the Town of Webster

Memorial Park/Memorial Athletic Fields

23 Ray Street
27_F_16_0

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Webster, Massachusetts
July 2023

Tighe&Bond

WEBSTER RETROFIT INVENTORY
CONCEPTUAL OPINION OF PROBABLE CONSTRUCTION COST

JULY 2023

Memorial Park

QUANTITY	UNIT	ITEM	UNIT PRICE	AMOUNT
1	EA	Educational Signage	$ 5,000	$ 5,000
1	EA	Deep Sump Hooded Catch Basin	$ 7,000	$ 7,000
200	FT	Granite Curbing	$ 70	$ 14,000
1	EA	Water Quality Unit	$ 10,000	$ 10,000
1	EA	Drainage Manhole	$ 7,000	$ 7,000
200	FT	12 Inch Corrugated Plastic (Polyethylene) Pipe	$ 110	$ 22,000
15	CY	Loam and Seed for Disturbed Areas	$ 100	$ 1,500
1	LS	Bioretention Area 1 (250 sqft)	$ 1,000	$ 1,000
350	LF	Sediment Control Barrier	$ 6	$ 2,100
230	CY	Earth Excavation	$ 35	$ 8,050
12	TON	Patching Asphalt Pavement	$ 250	$ 3,000
85	FT	Sawing Asphalt Pavement	$ 3	$ 255
1	EA	Rip Rap Outfall Protection	$ 250	$ 250
			Subtotal	$ 82,000
			Estimated Engineering and Permitting Fees*	$ 25,000
			Construction Contingency (20%)	$ 16,400
			SITE TOTAL	**$ 123,400**

*Estimated Engineering and Permitting fees are based on our understanding of the site conditions, jurisdictional resource areas and local regulations as of the date of this report and are to be used as budgetary values only. This estimate includes wetland area delineation, hydrologic/hydraulic design, site plan development, stormwater management reporting requirements, and environmental wetlands permitting, as needed. Actual site conditions may impact design features and permitting efforts estimated herein.

Appendix D
Nitrogen Source Identification Dataset
Delivered electronically
Under separate cover

Appendix E
Webster BMP Nitrogen Removal Estimate Calculations

Webster BMP Nitrogen
Removal Estimate Calculations

BMP Location	Type[a]	BMP Storage Volume (ft^3)	Hydrologic Soil Group	Infiltration Rate/ Rawls Rate (in/hr)[b]	Catchment Areas				BATT: N Removal Load (lbs/yr)
					Pervious Open Space (acres)	Pervious Woods/Forest (acres)	Impervious Open Space (acres)	Total Area (acres)	
Park Ave Elementary School 58 Park Avenue	Infiltration Basin	203	C	0.27	0.064	0.000	0.528	0.592	3.4
	Infiltration Basin	577	C	0.27	0.123	0.000	0.159	0.282	2.1
	Infiltration Basin	545	C	0.27	0.683	0.000	0.150	0.833	3.3
	Infiltration Basin	352	C	0.27	0.124	0.000	0.097	0.221	1.4
	Infiltration Basin	603	C	0.27	0.409	0.000	0.167	0.576	2.9
	Underground Infiltration	4,429	C	0.27	2.943	0.362	2.006	5.311	30.0
	Underground Infiltration	1,731	C	0.27	0.000	0.000	0.484	0.484	5.4
	Swale	210	C	0.27	0.076	0.000	0.587	0.663	0.1
Memorial Beach WTP 10 Memoral Beach	Infiltration Basin	1,718	A	8.27	0.046	0.108	0.306	0.461	3.5
Library 2 Lake Street	Underground Infiltration	2,965	D	0.17	0.106	0.000	0.830	0.936	9.6
Pinewood Estates Oakwood Drive	Infiltration Basin	3,511	C	0.27	0.200	0.000	0.210	0.410	2.8

TOTAL **64.4**

Notes:

a. Underground infiltration systems were run in BATT as type "Infiltration Trench".

b. Assumed from Hydrologic Soil Group.

Permit Year 6

(July 1, 2023 – June 30, 2024)

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: Town of Webster

EPA NPDES Permit Number: MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster State: MA Zip Code: 01570

Email: kpizzetti@webster-ma.gov Phone Number: (508) 949-3862

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): https://www.webster-ma.gov/925/Stormwater-Management-in-Webster

Date SWMP was Last Updated: October 2023

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:

The Town's Municipal Good Housekeeping and Pollution Prevention Program includes maintenance procedures for Town facilities and MS4 infrastructure, which are implemented to the maximum extent practicable. Maintenance was performed as needed for MS4 infrastructure in Permit Year 6.

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:

Due to staff turnover, the Town Clerk position did not disseminate educational material to dog owners during Permit Year 6. However, a Think Blue Massachusetts brochure entitled "Do Your 'Doody' for Clean Water", which highlights proper management of pet waste, is included on the Town's Stormwater Management webpage and is readily available to residents. The new Town Clerk will print brochures to have on hand when residents apply for a dog license in Permit Year 7. The Town also plans to add education to the Dog Licenses webpage (https://www.webster-ma.gov/326/Dog-Licenses).

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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)*:

underground infiltration system and 2 detention basins. The rest of the site construction is underway. Public education about the project for the Town's webpage and News Blast is in progress.

☒ Any structural BMPs listed in Attachment 3 to Appendix F already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen 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 nitrogen 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 nitrogen removed in lbs/year from the installed BMPs: 82.6

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 Town's Retrofit Assessment and Nitrogen Source Identification Report was submitted with the Permit Year 5 Annual Report, which included BMP list, implementation schedule, and nitrogen removal estimates. Bartlett High School was renovated in Permit Year 6 which included installation of an underground infiltration system, 2 detention basins, and water quality units. The underground infiltration system and detention basins' nitrogen removal has been calculated, please see attached summary table.

Leaf litter messaging: The Town recently updated their website and posts are planned to begin within Permit Year 7 to disseminate additional seasonal education to residents.

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:

The Town's NOI listed receiving waters and impairments based on the water quality limited waters in the 2014 303(d) Integrated List. The Town evaluated changes to the impairments and/or receiving waters based on the final 2016 303(d) Integrated List and the analysis was included in the Town's Permit Year 2 Annual Report and is available in the SWMP. The Town evaluated changes to the impairments and/or receiving waters based on the final 2018/2020 303(d) Integrated List and the analysis was included in the Town's Permit Year 4 Annual Report and is available in the SWMP. In Permit Year 5, the Town evaluated any changes to the impairments and/or receiving waters based on the final 2022 303(d) List and included the analysis in the Permit Year 5 Annual Report and is available in the SWMP. The changes described do not add, remove, or change any receiving waters.

During Permit Year 6, the following updates were made to the Town's outfall inventory:
- 2 outfalls were added when discovered in the field during catchment investigations;
- 3 outfalls were added back into the inventory when it was discovered they were incorrectly removed in a previous permit year;
- 15 outfalls were removed as they were found to not exist, were misclassified stormwater assets (BMP inlets), or privately owned.

These modifications do not add, remove, or change any receiving waters.

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**: 6

*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:Public Education and Outreach to Residents (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following key documents under their stormwater management plan:
- The Town's Stormwater Management Game Plan
- The Town's Stormwater Management Plan
- The Town's Stormwater Management By-Law
- The Town's Stormwater Permit Application
- The Town's Wetlands Protection By-Law
- Annual Reports (Years 1-5)

Under the "Learn More" tab, the webpage also includes infographics titled:
- "Do Your Doody for Clean Water"

Elsewhere on the page is more public education and informational materials for residents:
- "The Scoop on Stormwater" (An EPA video)
- Small articles entitled "What is Stormwater?", "Why Stormwater Management?", and "Stormwater and Wastewater Are Not the Same!"
- "After the Storm - A Citizen's Guide to Understanding Stormwater"
- "MassDEP Stormwater Information"
- "FEMA for Kids"
- "EPA Environmental Kids Club"
- "NOAA for Kids - The Ocean"

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. The Town's website was recently updated, the following visitor counts were obtained:
January 2024 to June 2024 - 159 visitors

Message Date(s): Ongoing

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:Public Education and Outreach to Businesses (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to businesses under their stormwater management plan:
- "Put Waste in its Place"
- "One Parking Lot at a Time"
- "Gas, Oil and Grease...Oh My!"

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. The Town's website was recently updated, the following visitor counts were obtained:
January 2024 to June 2024 - 159 visitors

Message Date(s): Ongoing

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:Public Education and Outreach to Developers (Stormwater Management Website)

Message Description and Distribution Method:

In addition to the links to the Stormwater Management By-law, Wetlands Protection By-law, and Stormwater Permit Application, the Town's Stormwater webpage contains links to the following educational materials tailored to developers under their stormwater management plan:
- "Stop Erosion in its Tracks"
- "Plan Ahead...Prevent Pollution"

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. The Town's website was recently updated, the following visitor counts were obtained:
January 2024 to June 2024 - 159 visitors

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: Public Education and Outreach to Industrial Facilities (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to industrial facilities under their stormwater management plan:
- "Put Hazards in Their Place"
- "Know the Drill for Spills"
- "Gas, Oil and Grease...Oh My!"

Targeted Audience: Industrial facilities

Responsible Department/Parties: Planning

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. The Town's website was recently updated, the following visitor counts were obtained:
January 2024 to June 2024 - 159 visitors

Message Date(s): Ongoing

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: Public Education and Outreach to Residents (Health Department Webpage)

Message Description and Distribution Method:

The Town's Health Department has a link to the EPA's "SepticSmart" webpage, with informational material on septic systems and proper maintenance.

Targeted Audience: Residents

Responsible Department/Parties: Health Department

Measurable Goal(s):

All visitors to the webpage are able to follow the link to the educational materials. The Town's website was recently updated, the following visitor counts were obtained:

January 2023 to December 2023 - 942 visitors
January 2024 to September 2024 - 468 visitors

Message Date(s): Ongoing

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: Public Education and Outreach to Residents (Social Media)

Message Description and Distribution Method:

The Town had made a few informational posts on their Facebook page related to water quality for their residents:
- The Town shared a post reminding residents to use pet waste receptacles at dog parks for pet waste only.
- The Town shared information regarding compost facility hours (fall closing, spring re-opening).
- The Town shared information about upcoming Memorial Beach closure and Webster Lake treatment of nuisance vegetation.
- The Town shared multiple posts informing of temporary water service interruptions, water main breaks, and mandatory drought restrictions.
- The Town shared multiple posts about road closings.

Targeted Audience: Residents

Responsible Department/Parties: Planning

Measurable Goal(s):

These posts are available to the Town's 4,700 Facebook followers.

Message Date(s):
Pet waste receptacles: August 23, 2023
Compost facility hours: October 4, 2023, March 11, 2024
Earth Day: April 15, 19, and 27, 2024
Memorial Beach closure: June 18, 2024
Lake treatment: June 21, 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:

Add an Educational Message

MCM2: Public Participation

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

The Town's SWMP was posted on the Town's website and is available for public review. Comments can be provided via phone call or through a linked Department Contact Form.

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 Town's annual Earth Day Clean-Up was held on April 27, 2024 where they collect trash in a 30-yard dumpster for disposal.

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: 0

Number of SSOs removed: 0

MS4 System Mapping

Percent of Phase II map complete: 19

Optional: Provide additional status information regarding your map:

The Phase II mapping percentage was determined using the Town's completed catchment investigation percentage where the Phase II mapping has been field verified. This percentage is a conservative estimate since the Town has a robust stormwater GIS database within the MS4 with 238 outfalls, 2,321 catch basins, 777 manholes, and nearly 2,000 drainage pipes (equating to approximately 29.8 miles of pipeline) mapped. The Town plans on continuing to confirm the completeness of its Phases II mapping during the Town's catchment investigation efforts. This percentage will be continuously updated in upcoming permit years.

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:

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

Number of outfalls screened: 2

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

Percent of outfalls screened: 99

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

In Permit Year 6, one remaining unscreened outfall (FR1-14) was found to be submerged so screening was completed upstream. However, as catchment investigation fieldwork was completed, 2 new outfalls were discovered and dry weather screening will be completed in Permit Year 7.

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:

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

Number of catchment investigations completed this reporting period: 46

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

Percent of total catchments investigated: 19

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

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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 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: 0

Total number of illicit discharges removed: 0

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

Employee Training

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

Monthly meetings are held with all Highway Department staff that review safety and road work precautions, as well as identifying illicit discharges at stormwater outfalls, and catch basin cleanings.

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: 13

Number of inspections completed: 23

Number of enforcement actions taken: 3

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

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3): October 2012

Website of ordinance or regulatory mechanism: https://ecode360.com/28392684

As-built Drawings

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

Number of as-built drawings received: 4

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

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:

N/A - Proposed recommendations to improve Subdivision Regulations and Zoning By-laws are not due until future permit years.

Green Infrastructure Report

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

N/A - Proposed recommendations to improve Subdivision Regulations and Zoning By-laws are not due until future permit years.

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):

Public Safety Complex/Fire
Highway and Transfer Station
William S. Slater Playground & Lassie League Field
Emergency Medical Services
Memorial Park / Memorial Athletic Fields

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.

Bartlett High School - The existing high school was renovated, which included removal of excess square footage (overall square footage of the building was reduced by creating new courtyards). The work included a new parking layout and new utilities, which consisted of stormwater management infrastructure improvements and reconfiguration. This added water quality units, an underground infiltration system and 2 detention basins.

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: 50

Number of catch basins cleaned: 50

Total volume or mass of material removed from all catch basins: 27 cubic yards

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

Total number of catch basins: 2,321

If applicable:

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

Catch basins are inspected when they are cleaned. Additional catch basins were inspected throughout the year during construction and to ensure they were functioning. Due to staffing and budgeting constraints, not all catch basins are cleaned every year.

Street Sweeping

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

- (●) Number of miles cleaned: 50
- ( ) 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: 4

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

N/A

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 Town acknowledges the General Permit Year 7 requirements and will complete as many activities as possible based on funding and staff availability.

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:	Richard LaFond	Title:	Town Adminstrator
Signature:		Date:	9/19/24

[Signatory may be a duly authorized representative]

Webster Town-owned BMPs
EPA BATT: Nitrogen Removal Estimate Calculations

BMP Location	Type[a]	BMP Storage Volume[b] (ft^3)	Hydrologic Soil Group[c]	Infiltration Rate (in/hr)[d]	Catchment Areas				BATT: N Removal Load (lbs/yr)
					Pervious Open Space (acres)	Pervious Woods/Forest (acres)	Impervious Open Space (acres)	Total Area (acres)	
Park Ave Elementary School 58 Park Avenue	Infiltration Basin	203	C	0.58	0.064	0.000	0.528	0.592	3.4
	Infiltration Basin	1,851	C	0.58	0.123	0.000	0.159	0.282	2.1
	Infiltration Basin	1,255	C	0.58	0.683	0.000	0.150	0.833	3.3
	Infiltration Basin	1,941	C	0.58	0.124	0.000	0.097	0.221	1.4
	Infiltration Basin	1,158	C	0.58	0.409	0.000	0.167	0.576	2.9
	Underground Infiltration	14,497	C	0.58	2.943	0.362	2.006	5.311	30.0
	Underground Infiltration	1,731	C	0.58	0.000	0.000	0.484	0.484	5.4
	Swale	1,248	C	N/A	0.076	0.000	0.587	0.663	0.1
Memorial Beach WTP 10 Memorial Beach	Infiltration Basin	3,118	A	14.17	0.046	0.108	0.306	0.461	3.5
Library 2 Lake Street	Underground Infiltration	2,965	D	0.58	0.106	0.000	0.830	0.936	9.6
Pinewood Estates Oakwood Drive	Infiltration Basin	18,233	C	13.09	0.200	0.000	0.210	0.410	2.8
Bartlett High School 52 Lake Parkway	Underground Infiltration	2,471	B	0.66	0.000	0.000	0.270	0.270	3.1
	Underground Infiltration	2,948	B	7.49	0.091	0.000	0.330	0.421	3.8
	Underground Infiltration	2,776	B	7.49	0.222	0.000	0.512	0.734	6.1
	Underground Infiltration	1,574	B	7.49	0.113	0.000	0.355	0.468	4.2
	Underground Infiltration	904	B	0.66	0.000	0.000	0.081	0.081	0.9
	Detention Basin	1,784	B	N/A	0.000	0.000	0.161	0.161	0.1
	Detention Basin	868	B	N/A	0.040	0.000	0.042	0.083	0.1

TOTAL **82.6**

Notes:

a. Underground infiltration systems were run in BATT as type "Infiltration Trench".

b. Value given in the site's Stormwater (HydroCAD) report as "Total Available Storage" for each Pond. This value should be confirmed with design drawings for a more accurate representation of the BMP's actual storage volume.

c. Value given in the site's Stormwater (HydroCAD) report for each Pond.

d. Value obtained from saturated hydraulic conductivity data from USDA NRCS Web Soil Survey (https://websoilsurvey.nrcs.usda.gov/app/).

Permit Year 6 Dry Weather Outfall & Catchment Investigation Field Effort Summary

Outfall inventory, screening data, and catchment investigation status are available electronically in the Town's record keeping files.

Permit Year 7

(July 1, 2024 – June 30, 2025)

Year 7 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2024-June 30, 2025

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, 2024 and June 30, 2025 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Town of Webster

EPA NPDES Permit Number: MAR041170

Primary MS4 Program Manager Contact Information

Name: Kenneth Pizzetti Title: Highway Superintendent

Street Address Line 1: 23 Cudworth Road

Street Address Line 2:

City: Webster State: MA Zip Code: 01570

Email: kpizzetti@webster-ma.gov Phone Number: (508) 949-3862

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): https://www.webster-ma.gov/925/Stormwater-Management-in-Webster

Date SWMP was Last Updated: November 2024

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.*

Year 7 Requirements

☒ Completed catchment investigations associated with Problem Outfalls

☒ Completed catchment investigations where information gathered on the outfall/interconnection indicated sewer input

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:

The Town does not have any Problem outfall catchments.
The Town does not have any outfalls that met the MS4 permit's criteria for likely sewer input. However, the Town has 1 outfall that was categorized as high priority based on indicators of potential illicit connections from the dry weather outfall screening. Catchment investigations for this outfall are in progress but not yet completed. This will be prioritized for Permit Year 8 investigations.

The Town's Municipal Good Housekeeping and Pollution Prevention Program includes maintenance procedures for Town facilities and MS4 infrastructure, which are implemented to the maximum extent practicable. Maintenance was performed as needed for MS4 infrastructure in Permit Year 7.

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 F and H 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:

Although pet waste education is not distributed with dog licenses, a Think Blue Massachusetts brochure entitled "Do Your 'Doody' for Clean Water", which highlights proper management of pet waste, is included on the Town's Stormwater Management webpage and is readily available to residents. The Town is also considering adding education to the Dog Licenses webpage (https://www.webster-ma.gov/326/Dog-Licenses).

Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release 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 F and H 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)*:

Underground infiltration system and 2 detention basins were installed at the Bartlett High School, as noted in Permit Year 6 annual report. The rest of the site construction is still underway. When construction is completed, public education about the project will be posted on the Town's webpage and News Blast.

☒ Any structural BMPs listed in Attachment 3 to Appendix F already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen 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 nitrogen 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:

No new Town-owned BMPs were installed in Permit Year 7. The nitrogen removal estimate was submitted with the Permit Year 6 annual report.

Total estimated nitrogen removed in lbs/year from the installed BMPs: 82.6

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:

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:

The Town's NOI listed receiving waters and impairments based on the water quality limited waters in the 2014 303(d) Integrated List. The Town evaluated changes to the impairments and/or receiving waters based on the final 2016 303(d) Integrated List and the analysis was included in the Town's Permit Year 2 Annual Report and is available in the SWMP. The Town evaluated changes to the impairments and/or receiving waters based on the final 2018/2020 303(d) Integrated List and the analysis was included in the Town's Permit Year 4 Annual Report and is available in the SWMP. In Permit Year 5, the Town evaluated any changes to the impairments and/or receiving waters based on the final 2022 303(d) List and included the analysis in the Permit Year 5 Annual Report and is available in the SWMP. The changes described do not add, remove, or change any receiving waters.

During Permit Year 7, the following updates were made to the Town's outfall inventory:
- 17 outfalls were added when discovered in the field during catchment investigations;
- 25 outfalls were removed as they were found to not exist, were misclassified stormwater assets (BMP inlets, culverts), or privately owned.
- 1 outfall was added back into the inventory when it was discovered it was incorrectly removed in a previous permit year.

These modifications do not add, remove, or change any receiving waters.

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**: 6

*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:Public Education and Outreach to Residents (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following key documents under their stormwater management plan:
- The Town's Stormwater Management Game Plan
- The Town's Stormwater Management Plan
- The Town's Stormwater Management By-Law
- The Town's Stormwater Permit Application
- The Town's Wetlands Protection By-Law
- Annual Reports (Years 1-6)

Under the "Learn More" tab, the webpage also includes infographics titled:
- "Do Your Doody for Clean Water"

Elsewhere on the page is more public education and informational materials for residents:
- "The Scoop on Stormwater" (An EPA video)
- Small articles entitled "What is Stormwater?", "Why Stormwater Management?", and "Stormwater and Wastewater Are Not the Same!"
- "After the Storm - A Citizen's Guide to Understanding Stormwater"
- "MassDEP Stormwater Information"
- "FEMA for Kids"
- "EPA Environmental Kids Club"
- "NOAA for Kids - The Ocean"

Targeted Audience: Residents

Responsible Department/Parties: Planning Department

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. During the reporting year, the Town's webpage had 311 visitors.

Message Date(s): Ongoing

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:Public Education and Outreach to Developers (Stormwater Management Website)

Message Description and Distribution Method:

In addition to the links to the Stormwater Management By-law, Wetlands Protection By-law, and Stormwater Permit Application, the Town's Stormwater webpage contains links to the following educational materials tailored to developers under their stormwater management plan:
- "Stop Erosion in its Tracks"
- "Plan Ahead...Prevent Pollution"

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning Department

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. During the reporting year, the Town's webpage had 311 visitors.

Message Date(s): Ongoing

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: Public Education and Outreach to Industrial Facilities (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to industrial facilities under their stormwater management plan:
- "Put Hazards in Their Place"
- "Know the Drill for Spills"
- "Gas, Oil and Grease...Oh My!"

Targeted Audience: Industrial facilities

Responsible Department/Parties: Planning Department

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. During the reporting year, the Town's webpage had 311 visitors.

Message Date(s): Ongoing

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: Public Education and Outreach to Residents (Social Media)

Message Description and Distribution Method:

The Town had made a few informational posts on their Facebook page related to water quality for their residents:
- The Town shared multiple posts informing of temporary water service interruptions, water main breaks, and mandatory drought restrictions.
- The Town shared multiple posts about road closings.

Targeted Audience: Residents

Responsible Department/Parties: Planning Department, Town of Webster

Measurable Goal(s):

These posts are available to the Town's 5,600 Facebook followers.

Message Date(s): July 1, 2024- June 30, 2025

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:Public Education and Outreach to Businesses (Stormwater Management Website)

Message Description and Distribution Method:

The Town's Stormwater webpage contains links to the following educational materials tailored to businesses under their stormwater management plan:
- "Put Waste in its Place"
- "One Parking Lot at a Time"
- "Gas, Oil and Grease...Oh My!"

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Planning Department

Measurable Goal(s):

All visitors to the webpage are able to view and download these educational materials. During the reporting year, the Town's webpage had 311 visitors.

Message Date(s): Ongoing

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: Public Education and Outreach to Residents (Health Department Webpage)

Message Description and Distribution Method:

The Town's Health Department has a link to the EPA's "SepticSmart" webpage, with informational material on septic systems and proper maintenance.

Targeted Audience: Residents

Responsible Department/Parties: Health Department

Measurable Goal(s):

All visitors to the webpage are able to follow the link to the educational materials. During the reporting year, the Town's webpage had 1,124 visitors.

Message Date(s): Ongoing

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:

Add an Educational Message

MCM2: Public Participation

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

The Town's SWMP was posted on the Town's website and is available for public review. Comments can be provided via phone call or through a linked Department Contact Form.

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 planned Earth Day cleanup on April 26, 2025, was canceled due to weather. However, green bags were available for pick up at the Highway Department, and an additional trash pickup was scheduled during the week. Approximately 20-25 bags were collected.

The Town's compost facility opened for the spring on April 7, 2025. 195 residents bought stickers.

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: 0

Number of SSOs removed: 0

MS4 System Mapping

Percent of Phase II map complete: 20

Optional: Provide additional status information regarding your map:

The Phase II mapping percentage was determined using the Town's completed catchment investigation percentage where the Phase II mapping has been field verified. This percentage is a conservative estimate since the Town has a robust stormwater GIS database within the MS4 with 231 outfalls, 2,334 catch basins, 780 manholes, and nearly 2,000 drainage pipes (equating to approximately 29.8 miles of pipeline) mapped. The Town plans on continuing to confirm the completeness of its Phases II mapping during the Town's catchment investigation efforts. This percentage will be continuously updated in upcoming permit years.

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:

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

Number of outfalls screened: 16

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

Percent of outfalls screened: 99

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

As catchment investigation fieldwork was completed, two new outfalls were discovered to have dry weather flow and sampling will be completed in Permit Year 8.

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:

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

Number of catchment investigations completed this reporting period: 25

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

Percent of total catchments investigated: 21

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

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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 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: 0

Total number of illicit discharges removed: 0

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

Employee Training

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

Highway staff conducted 3 days of IDDE field work with their stormwater consultant, providing on-the-job refresher training on outfall and catchment investigation practices. Monthly meetings are held with all Highway Department staff that review safety and road work precautions, as well as identifying illicit discharges at stormwater outfalls, and catch basin cleanings.

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: 24

Number of inspections completed: 55

Number of enforcement actions taken: 3

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

Two new private BMPs were installed this year at 118-120 Thomspon Rd and137 E Main St.

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

As-built Drawings

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

Number of as-built drawings received: 3

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

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:

The Local Code Assessment completed in June 2023 and revised April 2024 recommended updates to Subdivision Regulations (in July 2025) and Zoning Bylaw (in July 2026). The Town is currently working on updating the Stormwater Regulations and plans to revisit the plan/schedule for other code updates once the Stormwater Regulations are adopted.

Green Infrastructure Report

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

The Local Code Assessment completed in June 2023 and revised April 2024 recommended updates to Subdivision Regulations (in July 2025) and Zoning Bylaw (in July 2026). The Town is currently working on updating the Stormwater Regulations and plans to revisit the plan/schedule for other code updates once the Stormwater Regulations are adopted.

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):

Public Safety Complex/Fire
Highway and Transfer Station
William S. Slater Playground & Lassie League Field

Emergency Medical Services
Memorial Park / Memorial Athletic Fields

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.

Bartlett High School - The existing high school was renovated, which included removal of excess building square footage (overall square footage of the building was reduced by creating new courtyards). The work included a new parking layout and new utilities, which consisted of stormwater management infrastructure improvements and reconfiguration. This added water quality units, an underground infiltration system, and 2 detention basins.

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: 50

Number of catch basins cleaned: 50

Total volume or mass of material removed from all catch basins: 23 cubic yards

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

Total number of catch basins: 2,334

If applicable:

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

Catch basins are inspected when they are cleaned. Additional catch basins were inspected throughout the year during catchment investigations as well as during construction and to ensure they were functioning. Due to staffing and budgeting constraints, not all catch basins are cleaned every year.

Street Sweeping

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

- (●) Number of miles cleaned: 70
- ( ) 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: 4

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

N/A

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 8

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 8 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

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

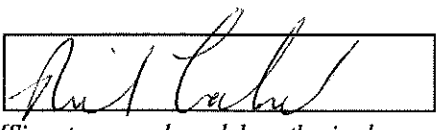
Provide any additional details on activities planned for permit year 8 below:

The Town acknowledges the General Permit Year 8 requirements and will complete as many activities as possible based on funding and staff availability.

Part V: Certification of Small MS4 Annual Report 2025

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:	Richard LaFond	Title:	Town Adminstrator
Signature:		Date:	9-29-25

[Signatory may be a duly authorized representative]

Permit Year 7 Dry Weather Outfall & Catchment Investigation Field Effort Summary

Outfall inventory, screening data, and catchment investigation status are available electronically in the Town's record keeping files.