# Stormwater Management Program (SWMP)

Town of Brookline

EPA NPDES Permit Number MAR041075

# 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)

☐ 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 Melvin A. Kleckner

Signature

Date 08/12/2019

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)

# Small MS4 Authorization

The NOI was submitted on Sep 19, 2018

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

Attached to this document

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Authorization to Discharge was granted on Jul 30, 2019

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

Attached to this document

# Stormwater Management Program Team

**SWMP Team Coordinator**

| | | | |
|---|---|---|---|
| Name | Jay Hersey | Title | Environmental Engineer |
| Department | Department of Public Works/Engineering & Transportation Division | | |
| Phone Number | 617-264-6467 | Email | jhersey@brooklinema.gov |
| Responsibilities | Oversee various aspects of the Stormwater Management Program including; conducting inspections, sampling, monitoring, submitting reports, and other required tasks under the 2016 Permit | | |

**SWMP Team**

| | | | |
|---|---|---|---|
| Name | Peter Ditto | Title | Director of Engineering &Transportation |
| Department | Department of Public Works/Engineering & Transportation Division | | |
| Phone Number | 617-730-2138 | Email | pditto@brooklinema.gov |
| Responsibilities | MS4 Program Manager. In charge of funding the stormwater management program and capital improvements projects. Also responsible for compliance under the Town's Stormwater By-law. Conduct site plan review and approval | | |

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| | | | |
|---|---|---|---|
| Name | Fred Russell | Title | Director of Water & Sewer |
| Department | Department of Public Works/Water & Sewer Division | | |
| Phone Number | 617-730-2174 | Email | frussell@brooklinema.gov |
| Responsibilities | In charge of Operations and Maintenance Program. Stormwater By-law compliance. Conduct site plan review and approval. | | |

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:

The Department of Public Works/Engineering Division maintains a complete list of outfalls/interconnections. Numbers in the table below include outfalls/interconnections for each receiving water segment. Table does not include interconnections with flows into Brookline from other municipalities. Also see attached Town of Brookline Discharge Locations list attached to this plan.

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Charles River (MA72-36) | 13 | ☐ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ | ☐ | |
| Charles River (MA72-38) | 9 | ☐ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ | ☐ | |
| Muddy River (MA72-11) | 10 | ☐ | ☐ | ☒ | ☐ | ☒ | ☒ | ☒ | ☒ | ☐ | |
| Sawmill Brook (MA72-23) | 10 | ☒ | ☐ | ☒ | ☐ | ☐ | ☒ | ☐ | ☒ | ☐ | |
| Jamaica Pond (MA72052) | 1 | ☐ | ☐ | ☒ | ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |

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)

  December 12, 2016 USFWS Ipac Report
  No change in historic property list since the 2003 MS4 Permit

- ☐ 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 (NA)

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):

NA

# 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:Public Education**

**BMP Number** (Optional) **1**

**Document Name and/or Web Address:** https://www.brooklinema.gov/483/Stormwater-Information

**Description:**

Maintain/update existing Stormwater Webpage, infoline, Facebook, videos, links to other stormwater sites like "Think Blue Massachusetts". Place flyers at Town Hall.

**Targeted Audience:** Residents

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Track responses to educational messages, hits on website, and emails.

**Message Date(s):** June 2019

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**BMP:Public Education**

**BMP Number** (Optional) **2**

**Document Name and/or Web Address:** https://www.brooklinema.gov/483/Stormwater-Information

**Description:**

Maintain/update existing Stormwater Webpage, infoline, Facebook, videos, links to other stormwater sites like "Think Blue Massachusetts". Place flyers at Town Hall.

**Targeted Audience:** Businesses, institutions and commercial facilities

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Track responses to educational messages, hits on website, and emails.

**Message Date(s):** June 2019

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**BMP:Public Education**

**BMP Number** (Optional) **3**

**Document Name and/or Web Address:** https://www.brooklinema.gov/483/Stormwater-Information

**Description:**

Maintain/update existing Stormwater Webpage, infoline, Facebook, videos, links to other stormwater sites like "Think Blue Massachusetts". Place flyers at Town Hall.

**Targeted Audience:** Developers (construction)

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Track responses to educational messages, hits on website, and emails.

**Message Date(s):** June 2019

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**BMP:[BMP name here]**

**BMP Number** (Optional) _____

**Document Name and/or Web Address:**

**Description:**

**Targeted Audience:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

**Message Date(s):**

---

**BMP:[BMP name here]**

**BMP Number** (Optional) _____

**Document Name and/or Web Address:**

**Description:**

**Targeted Audience:** Industrial facilities

**Responsible Department/Parties:**

**Measurable Goal(s):**

**Message Date(s):**

---

**BMP:[BMP name here]**

**BMP Number** (Optional) _____

**Document Name and/or Web Address:**

**Description:**

**Targeted Audience:** Industrial facilities

**Responsible Department/Parties:**

**Measurable Goal(s):**

**Message Date(s):**

---

**BMP:[BMP name here]**

**BMP Number** (Optional) _____

**Document Name and/or Web Address:**

**Description:**

**Targeted Audience:** Residents

**Responsible Department/Parties:**

**Measurable Goal(s):**

**Message Date(s):**

---

**BMP: [BMP name here]**

**BMP Number** (Optional) _____

**Document Name and/or Web Address:**

**Description:**

**Targeted Audience:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

**Message Date(s):**

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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) **1**

**Location of Plan and/or Web Address:** https://www.brooklinema.gov/483/Stormwater-Information

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Stormwater Management Plan is publicly available.

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**BMP: Public Participation in Stormwater Management Program Development**

**BMP Number** (Optional) **2**

**Description:**

Allow public to participate with the development of the Stormwater Management Plan. Place SWMP on the Town's website and allow for public comment.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Track number of comments received from the public.

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**BMP: [BMP name here]**

**BMP Number** (Optional)

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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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) **1** **Completed** (by May 1, 2008) ☒

**Ordinances Link or Reference:** Town By-law 8.26

**Department Responsible for Enforcement:** Department of Public Works (DPW)

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**BMP: Sanitary Sewer Overflow (SSO) Inventory**

**BMP Number** (Optional) **2** **Completed** (by year 1) ☒

**Document Name and/or Web Address:** See attached list of SSOs.

**Description:**

Department of Public Works maintains a record of SSOs.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

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. Update inventory as needed.

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

**BMP: Map of Storm Sewer System**

**BMP Number** (Optional) **3**

**Phase I Completed** ☒ (by year 2)

**Phase II Completed** ☐ (by year 10)

**Document Location and/or Web Address:** On file at DPW/Engineering

**Description:**

Maps are maintained by DPW. Due to security reasons maps are not available online.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Map 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 within 2 years of the permit's effective date. Map 100% of outfall spatial locations, pipes, manholes, catch basins, refined catchment delineations, municipal sanitary sewer system (if available), and municipal combined sewer system (if applicable) within 10 years of the permit's effective date.

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**BMP: IDDE Program**

**BMP Number** (Optional) **4**

**Written Document Completed** (by year 1) ☒

**Document Name and/or Web Address:** Comprehensive IDDE Plan on file at DPW/Engineering

**Description:**

DPW has been working under an EPA approved IDDE Plan since 2005. DPW continues to follow this approved plan. Annual Progress Reports are submitted to the EPA.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Conduct 100% of outfall screening on High and Low Priority Outfalls within 3 years of the permit's effective date. Complete catchment investigations for 100% of the Problem Outfalls within 7 years of the permit's effective date. Complete 100% of all catchment investigations within 10 years of the permit's effective date.

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

Inventory and screening results can be obtained through DPW/Engineering Division.

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**BMP: Employee Training**

**BMP Number** (Optional) **5**

**Description:**

IDDE work is performed by the Engineering Staff.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Training occurs on an annual or as needed basis.

---

**BMP: [BMP name here]**

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

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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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) **1** **Completed** (by May 1, 2008) ☒

**Ordinances Link or Reference:** Town By-law 8.26

**Department Responsible for Enforcement:** DPW

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**BMP: Site Plan Review Procedures**

**BMP Number** (Optional) **2** **Written procedures completed** (by year 1) ☒

**Document Name and/or Web Address:** https://www.brooklinema.gov/819/Site-Plan-Approval-Process

**Description:**

DPW/Engineering and Water & Sewer Division conduct review of all site plans

**Responsible Department/Parties:** Engineering and Water & Sewer Divisions

**Measurable Goal(s):**

Conduct site plan review of 100% of projects.

---

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

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

**Document Name and/or Web Address:** Town By-law 8.26

**Description:**

DPW/Engineering conducts inspections and enforcement.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Inspect 100% of construction sites and take enforcement actions as needed.

---

**BMP:[BMP name here]**

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

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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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) **1** **Completed** (by year 2) ☐

**Town Ordinances Link or Reference:** Town By-law 8.26

**Department Responsible for Enforcement:** DPW

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**BMP: Street Design and Parking Lot Guidelines Report**

**BMP Number** (Optional) **2** **Completed** (by year 4) ☐

**Document Name and/or Web Address:** Brookline Complete Street Policy

**Description:**

DPW/Engineering & Transportation Division and Planning Department will continue to implement the Complete Street Policy. Town will also review Parking lot guidelines to see if there are ways to reduce the amount of impervious cover and/or support low impact design options.

**Responsible Department/Parties:** Engineering, Transportation, and Planning

**Measurable Goal(s):**

Complete Streets Policy Adopted May 17, 2016.

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**BMP: Green Infrastructure Report**

**BMP Number** (Optional) **3** **Completed** (by year 4) ☐

**Document Name and/or Web Address:** Climate Action Plan - Sections that include Green Infrastructure.

**Description:**

Engineering, Planning, and Building Departments is working on a Climate Action Plan that includes sections on implementing Green Infrastructure.

**Responsible Department/Parties:** Engineering, Planning, and Building Departments

**Measurable Goal(s):**

Recommendations are implemented by (DATE) with progress reported annually.

---

**BMP: List of Municipal Retrofit Opportunities**

**BMP Number** (Optional) **4** **Completed** (by year 4) ☐

**Document Name and/or Web Address:**

**Description:**

Engineering will review and establish a list of possible sites for retrofit opportunities.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

The list is completed by (DATE) and updated as needed.

---

**BMP: [BMP name here]**

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

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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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) **1** **Written Document Completed** (by year 2) ☒

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 19 for Parks, Grounds, and Forestry Procedures

**Description:**

DPW/Parks and Open Space Division will prepare and update O&M procedures.

**Responsible Department/Parties:** DPW/Parks and Open Space Division

**Measurable Goal(s):**

Implement the SOP listed above on 100% of the parks and open spaces.

**Properties List** (Optional):

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**BMP: Buildings and Facilities Operations and Maintenance Procedures**

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

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 18 for Equipment and Fleet Management

**Description:**

O&M Procedures in place for all fueling facilities. Spill Kits are stationed at all facilities. Employees are trained to cleanup spills. Storage Tanks are tested by an independent contractor. Fuel supplies are from outside vendor that have their own spill response plans

**Responsible Department/Parties:** DPW & Building Department

**Measurable Goal(s):**

SOP listed above on 100% of buildings and facilities are in place.

**Properties List** (Optional):

---

**BMP: Vehicles and Equipment Operations and Maintenance Procedures**

**BMP Number** (Optional) **3** **Written Document Completed** (by year 2) ☒

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 18 for Equipment and Fleet Management Procedures

**Description:**

DPW/Highway, Sanitation, and Fleet Maintenance will prepare O&M procedures. DPW services more than 370 pieces of equipment.

**Responsible Department/Parties:** DPW/Highway Division

**Measurable Goal(s):**

Implement the SOP listed above for 100% of vehicles and equipment according to the above document.

**Properties List** (Optional):

---

## INFRASTRUCTURE

**BMP: Infrastructure Operations and Maintenance Procedures**

**BMP Number** (Optional) **4** **Written Procedure Completed** (by year 2) ☒

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 27 for Stormwater and Flood Management Procedures

**Description:**

DPW/Engineering will prepare and update O&M procedures as needed.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

100% of infrastructure is maintained to ensure proper function in accordance with the procedures above.

---

**BMP: Catch Basin Cleaning Program**

**BMP Number** (Optional) **5** **Written Procedure Completed** (by year 1) ☒

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 27 for Stormwater and Flood Management Procedures

**Description:**

DPW/Water & Sewer Division is responsible for catch basin cleaning program. 80% of all the catch basins

are typically cleaned every year. Every basin is cleaned at least once in side of two years. There are 3,296 catch basins in Brookline.

**Responsible Department/Parties:** DPW/Water & Sewer Division

**Measurable Goal(s):**

All catch basins are cleaned in accordance to the document above such that no catch basin is more than 50% full at any given time.

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**BMP: Street Sweeping Program**

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

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 25 for Street Cleaning Procedures

**Description:**

DPW/Highway & Sanitation Division is responsible for street sweeping program. Non-commercial/non-arterial streets are swept every 7 to 10 days. Commercial/arterial or other critical streets are swept 3 nights per week. There are approximately 10,300 lane miles in Brookline.

**Responsible Department/Parties:** DPW/Highway Division

**Measurable Goal(s):**

Annually sweep 100% of all streets and 50% of all municipal parking lots in accordance with the schedule listed above.

---

**BMP: Winter Road Maintenance Program**

**BMP Number** (Optional) **7** **Written Procedure Completed** (by year 1) ☒

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 26 for Snow and Ice Control Procedures

**Description:**

DPW/Highway Division is responsible for winter road maintenance program. DPW maintains approximately 250 miles of roadway, 40 miles of sidewalk, 10 Public Schools, and 20 municipal lots. DPW no longer uses sand on roadways. The Highway Division uses a brine solution to pre-treat roadways and then salt as needed during storm events to keep road surfaces from freezing.

**Responsible Department/Parties:** DPW/Highway Division

**Measurable Goal(s):**

Evaluate at least one salt/chloride alternative for use in the municipality. See note above regarding the use of a brine solution to pre-treat roadway surfaces.

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**BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures**

**BMP Number** (Optional) **8** **Completed** (by year 1) ☒

**Document Name and/or Web Address:** See Town of Brookline/APWA Manual Chapter 27 for Stormwater and Flood Management Procedures

**Description:**

DPW/Water & Sewer Division inspects and cleans the stormwater treatment structures annually.

**Responsible Department/Parties:** DPW/Water & Sewer Division

**Measurable Goal(s):**

Inspect and maintain 100% of treatment structures to ensure proper function.

---

**BMP: SWPPP**

**BMP Number** (Optional) **9** **Completed** (by year 2) ☒

**Document Name and/or Web Address:** See description below

**Description:**

SWPPPs already prepared and in place for regulated facilities.

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

See above.

---

**BMP:**

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

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

Add BMP

# Annual Evaluation

## Year 1 Annual Report

**Document Name and/or Web Address:**

## Year 2 Annual Report

**Document Name and/or Web Address:**

## Year 3 Annual Report

**Document Name and/or Web Address:**

## Year 4 Annual Report

**Document Name and/or Web Address:**

## Year 5 Annual Report

**Document Name and/or Web Address:**

## Year X Annual Report

**Document Name and/or Web Address:**

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 |
|---|---|---|
| Muddy River (MA72-11) | Pathogens | + - |

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:

See IDDE Plan.

*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:

Think Blue link on Stormwater Website. Post messages on Facebook.

---

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:

Think Blue link on Stormwater Website. Post messages on Facebook.

---

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:

| |
|---|
| There are only few houses that have septic systems in Brookline. The Town will reach out to those property owners to let them know about proper septic system maintenance. |

# Chloride

| Applicable Receiving Waterbody(ies) | TMDL Name (if applicable) | Add/Delete Row |
|---|---|---|
| Sawmill Brook (MA72-23) | Chloride | + - |

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))*

---

Include an annual message in November/December to private road salt applicators and commercial industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

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

See winter de-icing procedures in prior section. Brookline uses brine solution and salt to treat roadways. The Sawmill Brook Starts in Brookline and then flows through Newton then Boston before it drains into the Charles River.

Requirements Due by Year 3

---

Develop a Salt Reduction Plan

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

Brookline already has a salt reduction plan in place through the use of brine as a de-icing material. DPW will review procedures to see if there can be any additional measures to reduce salt in the Sawmill Brook Watershed Area.

Requirements Due by Year 4

---

Continue implementation of the Salt Reduction Plan

Requirements Due by Year 5

---

Fully implement the Salt Reduction Plan

# Solids, Oil and Grease (Hydrocarbons), or Metals

**Combination of Impaired Requirements and TMDL Requirements as Applicable**

| Applicable Receiving Waterbody(ies) | TMDL Name (if applicable) | Add/Delete Row |
|---|---|---|
| Charles River (MA72-36) | Oil & Grease/PAH | + - |
| Charles River (MA72-38) | Oil & Grease/PAH | + - |
| Muddy River (MA72-11) | Oil & Grease/PAH | + - |

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:

See IDDE Plan.

*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

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

See housekeeping section for sweeping procedures.

---

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

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

See housekeeping section for catch basin cleaning procedures.

Requirements Due by Year 2

---

Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited water body shall incorporate designs that allow for shutdown and containment where appropriate to isolate the system in the event of an emergency spill or other unexpected event

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

| |
|---|
| Stormwater management systems on commercial properties will be assessed during the site plan review process and include in emergency spill measures in O&M plans. There is no industry in Brookline. |

# Phosphorus

**Combination of Impaired Waters Requirements and TMDL Requirements as Applicable**

| Applicable Receiving Waterbody(ies) | TMDL Name (if applicable) | Add/Delete Row |
|---|---|---|
| Charles River (MA72-36) | Phosphorus | + - |
| Sawmill Brook (MA72-23) | Phosphorus | + - |
| Muddy River (MA72-11) | Phosphorus | + - |
| Charles River (MA72-38) | Phosphorus | + - |

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 and phosphorus-free fertilizers

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

https://www.brooklinema.gov/DocumentCenter/View/19389/TBM-Lawn-Care-Flyer-Brookline. Flyer also on Facebook.

---

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:

https://www.brooklinema.gov/483/Stormwater-Information. Link to "Think Blue Website". Also post flyer on Facebook.

---

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:

https://www.brooklinema.gov/483/Stormwater-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)

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

See housekeeping section for street sweeping procedures.

---

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:

DPW has procedures in place. Grass cuttings and leaf litter are collected and disposed of offsite.

*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 phosphorus discharges

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

Town will conduct inventory and priority ranking to include consideration of BMPs to reduce phosphorus discharges. Typically, most park renovation projects include the implementation of infiltration practices to reduce phosphorus discharges.

*Phosphorus 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 phosphorus 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 phosphorus removed in pass per year by the BMP is found in the following document or website and is updated yearly at a minimum:

Town will inventory, assess, and estimate phosphorus removal from existing BMPs.

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 phosphorus removal

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

Add phosphorus removal component to site plan requirements.

Requirements Due by Year 4

---

Complete a Phosphorus Source Identification Report

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

To be determined (TBD)

*Stormwater Management in New Development and Redevelopment*

---

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible

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

Town will conduct inventory and priority ranking to include consideration of BMPs to reduce phosphorus discharges. Typically, most park renovation projects include the implementation of infiltration practices to reduce phosphorus discharges.

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 Phosphorus 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:

TBD

---

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:

TBD

# Charles River Watershed Phosphorus TMDL

| PCP Phase | Document Location |
|---|---|
| I (completed by year 5) | |
| II (completed by year 10) | |
| III (completed by year 15) | |

# APPENDIX A

**Notice of Intent**

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



Part I: General Conditions

## General Information

Name of Municipality or Organization: Town of Brookline State: MA

EPA NPDES Permit Number (if applicable): MAR041075

## Primary MS4 Program Manager Contact Information

Name: Peter M. Ditto, P.E. Title: Director of Engineering and Transportation

Street Address Line 1: 333 Washington Street, 4th Floor

Street Address Line 2:

City: Brookline State: MA Zip Code: 02445

Email: pditto@brooklinema.gov Phone Number: (617) 730-2138

Fax Number: (617) 264-6450

## Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed): Department of Public Works - Engineering Division

## 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)*

Unavailable due to security reasons - see attached map

## 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):

**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):

**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):

# 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Charles River (MA72-36) | 3 | ☐ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ | ☐ | See attached Discharge Point Location Map. All three locations are not outfalls, but interconnections with the City of Boston. Flow eventually discharges to the Charles River from City of Boston Outfalls. |
| Charles River (MA72-38) | 1 | ☐ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ | ☐ | See attached Discharge Point Location Map. Discharge location is not an outfall, but an interconnection with the City of Boston. Flow eventually discharges to the Charles River from a City of Boston Outfall. |
| Muddy River (MA72-11) | 10 | ☐ | ☐ | ☒ | ☐ | ☒ | ☒ | ☒ | ☒ | ☐ | See attached Discharge Point Location Map. Six are outfalls to the Muddy River. Four are not outfalls, but intermunicipal connections with the City of Boston. Flow evenutally comes back into Brookline and discharges to the Muddy River/Charles River. |
| Sawmill Brook (MA72-23) | 3 | ☒ | ☐ | ☒ | ☐ | ☐ | ☒ | ☐ | ☒ | ☐ | See attached Discharge Point Location Map. One location is an intermunicipal connection with the City of Newton, but the flow eventually comes back in to Brookline and discharges to the Sawmill Brook. |
| Jamaica Pond (MA72052) | 1 | ☐ | ☐ | ☒ | ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | See attached Discharge Point Location Map. Discharge location is not an outfall, but a intermunicipal connection with the City of Boston. Flow eventually discharges to Jamaica Pond from a City of Boston Outfall. |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
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| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| **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 to lengthen table

# 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 an 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 requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

### MCM 1: Public Education and Outreach

| **BMP Media/Category** (enter your own text to override the drop down menu) | **BMP Description** | **Targeted Audience** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|---|
| Website, Brocuhures, Infoline, and Videos | Public Education | Residents | Engineering | Track responses to Educational Messages | 2019 |
| Website, Brochures, and Infoline | Public Educaction | Businesses, Institutions and Commercial Facilities | Engineering | Track responses to Educational Messages | 2019 |
| Website, Brochures, and Infoline | Public Educaction | Developers (construction) | Engineering | Track responses to Educational Messages | 2019 |
| No Industry in Brookline | NA | Industrial Facilities | NA | NA | |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 2: Public Involvement and Participation

| BMP Categorization | Brief BMP Description (enter your own text to override the drop down menu) | Responsible Department/Parties (enter your own text to override the drop down menu) | Additional Description/ Measurable Goal | Beginning Year of BMP Imple-mentation |
|---|---|---|---|---|
| Public Review | SWMP Review | Engineering | Allow review of stormwater management plan and posting of stormwater management plan on website | 2019 |
| Public Participation | Public Meeting - Stormwater | Engineering | Allow public to comment on stormwater management plan | 2019 |
| Public Participation | Household haz. waste/used oil collection | DPW Operations | Track participation and materials collected | 2019 |
| Public Participation | Catch Basin Markers | DPW Operations | Conduct Annually | 2019 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

| **BMP Categorization** (enter your own text to override the drop down menu) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| SSO inventory | Develop SSO inventory in accordance of permit conditions | Engineering | SSO Inventory Completed under EPA approved IDDE Plan (April 2005) | |
| Storm sewer system map | Create map and update during IDDE program completion | Engineering | Map is up to date. | |
| Written IDDE program | Create written IDDE program | Engineering | IDDE Plan completed and approved by EPA in April 2005 | |
| Implement IDDE program | Implement catchment investigations according to program and permit conditions | Engineering | Continue to implement 2005 IDDE Plan. | |
| Employee training | Train employees on IDDE implementation | Engineering | Continue annual training | |
| Conduct dry weather screening | Conduct in accordance with outfall screening procedure and permit conditions | Engineering | Continue to follow Screening procedures in 2005 IDDE Plan | |
| Conduct wet weather screening | Conduct in accordance with outfall screening procedure | Engineering | Continue to follow Screening procedures in 2005 IDDE Plan | |
| Ongoing screening | Conduct dry weather and wet weather screening (as necessary) | Engineering | Continue to follow Screening procedures in 2005 IDDE Plan | |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 4: Construction Site Stormwater Runoff Control

| **BMP Categorization** (enter your own text to override the drop down menu or entered text) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| Site inspection and enforcement of Erosion and Sediment Control (ESC) measures | Complete written procedures of site inspections and enforcement procedures | Engineering | Procedures created and implemented under 2003 Permit. Continue inspection and enforcement. | |
| Site plan review | Complete written procedures of site plan review and begin implementation | Engineering | Procedures created and implemented under 2003 Permit. Continue Site Plan Review Procedures. | |
| Erosion and Sediment Control | Adoption of requirements for construction operators to implement a sediment and erosion control program | Engineering | Procedures created and implemented under 2003 Permit. Continue Erosion Control Program. | |
| Waste Control | Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes | Engineering, Building Department, and DPW Operations | Requirements and Procedures already in place. Continue to follow procedures. | |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

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

| **BMP Categorization** (enter your own text to override the drop down menu or entered text) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| As-built plans for on-site stormwater control | The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP | Engineering | Require submission of as-built plans for completed projects. Implemented under 2003 permit. Continue requirement. | |
| Target properties to reduce impervious areas | Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually | Engineering, DPW Operations, Building and Planning Departments | Complete 4 years after effective date of permit and report annually on retrofitted properties | 2020 |
| Allow green infrastructure | Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist | Engineering, DPW Operations, Building and Planning Department | Complete 4 years after effective date of permit and implement recommendations of report | 2020 |
| Street design 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. | Engineering and Transportation | Complete 4 years after effective date of permit and implement recommendations of report | 2020 |

| | | | | |
|---|---|---|---|---|
| Ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the permit and all applicable requirements of the Massachusetts Stormwater Handbook | Adoption, amendment, or modification of a regulatory mechanism to meet permit requirements | Engineering | Complete 2 years after effective date of permit | 2020 |
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# Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 6: Municipal Good Housekeeping and Pollution Prevention

| **BMP Categorization** (enter your own text to override the drop down menu or entered text) | **BMP Description** | **Responsible Department/Parties** (enter your own text to override the drop down menu) | **Measurable Goal** (all text can be overwritten) | **Beginning Year of BMP Imple-mentation** |
|---|---|---|---|---|
| O&M procedures | Create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment | DPW Operations and Building Department | Complete and implement 2 years after effective date of permit | 2020 |
| Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment | Create inventory | DPW Operations and Building Department | Complete 2 years after effective date of permit and implement annually | 2020 |
| Infrastructure O&M | Establish and implement program for repair and rehabilitation of MS4 infrastructure | DPW Operations | Capital Improvments Program already in place. Continue Rehabiliation work as needed. | |
| Stormwater Pollution Prevention Plan (SWPPP) | Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities | Engineering | SWPPPs already in place under Multi-sector General Permit | |
| Catch basin cleaning | Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule | DPW Operations | Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually. Already in place under 2003 permit. Continue to follow current procedures. | |

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|---|---|---|---|---|
| Street sweeping program | Sweep all streets and permitee-owned parking lots in accordance with permit conditions | DPW Operations | Sweep all streets and permitee-owned parking lots once per year in the spring . Already in place under 2003 permit. Continue to follow current procedures. | |
| Road salt use optimization program | Establish and implement a program to minimize the use of road salt | DPW Operations | Implement salt use optimization during deicing season. Already in place under 2003 permit. Continue to follow current procedures. | |
| Inspections and maitenance of stormwater treatment structures | Establish and implement inspection and maitenance procedures and frequencies | DPW Operations | Inspect and maintain treatment structures at least annually. Already in place under 2003 permit. Continue to follow current procedures. | |
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# 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) |
|---|---|---|
| Lower Charles River (Phosphorus) | Adhere to requirements in part A.I of Appendix F | Engineering |
| Charles River Watershed (Bactria/Pathogen) | Adhere to requirements in part A.III of Appendix F | Engineering |
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# 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) |
|---|---|---|---|
| NA | | | Town must adhere to requirements in Appendix F |
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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.

2.2.2 Not applicable. Town must adhere to requirements in Appendix F of part 2.2.1.

# 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: | Melvin A. Kleckner | Title: | Town Administrator |
| Signature: | | Date: | 09-18-2018 |

*[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

# APPENDIX B

**Authorization to Discharge**

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

**VIA EMAIL**

July 30, 2019

Melvin Kleckner
Town Administrator

And;

Peter M. Ditto
Director of Engineering and Transportation
333 Washington St
4th Floor
Brookline, MA. 02445
pditto@brooklinema.gov

Re: National Pollutant Discharge Elimination System Permit ID #: MAR041075, Town of Brookline

Dear Peter M. Ditto:

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
Water Permits Branch
Water Division
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 C

**USFWS IPac 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
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2017-SLI-0437 December 12, 2016
Event Code: 05E1NE00-2017-E-00573
Project Name: Town of Brookline MS4 2016

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

United States Department of Interior
Fish and Wildlife Service

Project name: Town of Brookline MS4 2016

# Official Species List

**Provided by:**

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
(603) 223-2541
http://www.fws.gov/newengland

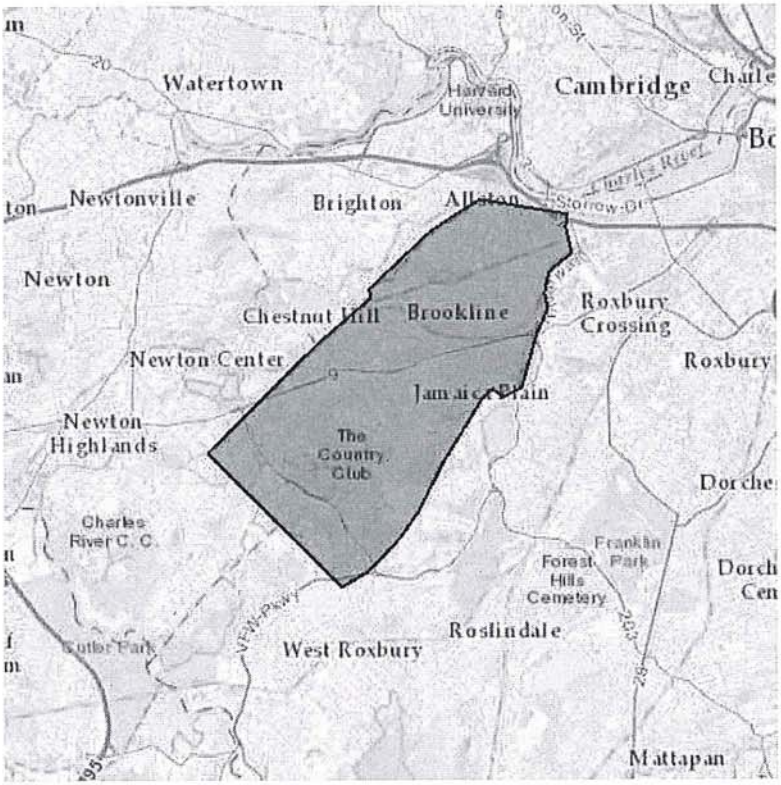
**Consultation Code:** 05E1NE00-2017-SLI-0437
**Event Code:** 05E1NE00-2017-E-00573

**Project Type:** LAND - DRAINAGE

**Project Name:** Town of Brookline MS4 2016
**Project Description:** NPDES MS4 Permit Appendix C requirement to document ESA findings in Town of Brookline, MA.

**Please Note:** The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

**Project Location Map:**




**Project Coordinates:** MULTIPOLYGON (((-71.17904663085938 42.3143853165376, -71.15209579467773 42.29445303937709, -71.14677429199219 42.29673858887905, -71.14025115966797 42.3018172908003, -71.13664627075195 42.305626048427044, -71.13149642944336 42.31324287243165, -71.12360000610352 42.32263568600379, -71.12171173095702 42.32365104133138, -71.1196517944336 42.32263568600379, -71.11604690551758 42.32390487760295, -71.11295700073242 42.33190019592679, -71.11072540283203 42.33558023899751, -71.11141204833984 42.33799118494392, -71.11021041870116 42.34103645823105, -71.10557556152344 42.34382782918463, -71.10677719116211 42.34750717427501, -71.10660552978514 42.349663931625585, -71.12308502197266 42.351566891364364, -71.12445831298828 42.35169375329851, -71.12857818603516 42.34979079740055, -71.13407135009766 42.34712656235509, -71.14643096923828 42.33862562904089, -71.14625930786133 42.33710295245433, -71.15707397460938 42.33025045154799, -71.17904663085938 42.3143853165376)))

United States Department of Interior
Fish and Wildlife Service

Project name: Town of Brookline MS4 2016

**Project Counties:** Middlesex, MA | Norfolk, MA | Suffolk, MA

United States Department of Interior
Fish and Wildlife Service

Project name: Town of Brookline MS4 2016

# Endangered Species Act Species List

There are a total of 1 threatened or endangered species on your 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. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

| Mammals | Status | Has Critical Habitat | Condition(s) |
|---|---|---|---|
| Northern long-eared Bat *(Myotis septentrionalis)*<br>Population: Wherever found | Threatened | | |

# Critical habitats that lie within your project area

There are no critical habitats within your project area.

# APPENDIX D

**Town of Brookline Discharge Point Locations**

**Town of Brookline Discharge Point Locations**

| DMH/Outfall - ID | Drainage Area | Street/Outfall Location | Receiving Water | Comments |
|---|---|---|---|---|
| SWOF-1 | 9 | West Roxbury Parkway at Boston City Line | Bussey Brook | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1707 | 9 | VFW Parkway at Boston City Line | Bussey Brook | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWFIT-710 | 9 | Church Street at Boston City Line | Bussey Brook | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1712 | 9 | Bonad Road at Boston City Line | Bussey Brook | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1713 | 9 | Russett Road at Boston City Line | Bussey Brook | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1653 | 3 | Intersection of Amory Street & Commonwealth Avenue | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-837 | 12 | Intersection of St. Marys Street & Commonwealth Avenue | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-636 | 13 | Newton Street at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWOF-10 | 5A | Thorndike Street at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1851 | 5A | Comm Ave and Naples Road at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1639 | 5A | Comm Ave and Winslow Road at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1640 | 5A | Comm Ave and Babcock Street at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1641 | 5A | Comm Ave and Crowninsheild Road at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1643 | 5A | Comm Ave and Pleasant Street at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-1646 | 5A | Comm Ave and St. Paul Street at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-217 | 5B | Summit Avenue at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWFIT-149 | 5B | Jordan Road at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWFIT-5047 | 5B | Mason Terrace at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-131 | 5B | Winchester Street at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWOF-11 | 5B | Verndale Street at Boston City Line | Charles River | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWMH-108 | 3 | End of Essex Street | Hall's Pond | Outfall to Hall's Pond. Flow from Halls Pond drains to intermunicipal connection at Amory & Comm. Ave. |
| SWMH-126 | 3 | Easement off Beacon Street | Hall's Pond | Outfall to Hall's Pond. Flow from Halls Pond drains to intermunicipal connection at Amory & Comm. Ave. |
| SWOF-4 | 11 | Cumberland Avenue Drain Outfall | Leverett Pond | Outfall to Leverett Pond. Drains to the Muddy River. |
| SWOF-5 | 1A | Village Brook Drain Outfall | Leverett Pond | Outfall to Leverett Pond. Drains to the Muddy River. |
| SWMH-1094 | 1A | Outfall of Reservoir Road at Newton City Line | Leverett Pond | Location is an intermunicipal connection with Newton. Brookline discharges to Newton. |
| SWMH-830 | 1A | Intersection of Eliot and Clinton at Boston City Line | Leverett Pond | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWOF-6 | 2 | Tannery Brook Drain Outfall | Muddy River | Outfall to the Muddy River |
| SWOF-7 | 4 | Longwood Drain Outfall | Muddy River | Outfall to the Muddy River |
| SWFIT-757 | 4 | Parkway Road Outfall | Muddy River | Outfall to the Muddy River. Drains small area from Netherlands and Parkway Roads |
| SWFIT-802 | 1A | Pearl Street Drain Outfall | Muddy River | Outfall to the Muddy River |
| SWFIT-830 | 1A | Drain off of River Road Outfall | Muddy River | Outfall to the Muddy River. Old drain only services small portion of Brookline Avenue and River Road. |
| SWOF-13 | 7 | Sargent Pond Outfall | Sargent Pond | Outfall to Sargent Pond. Sargent Pond drains to Jamaica Pond. |
| SWFIT-118 | 8A | Independence Drive at Boston City Line | Sawmill Brook | Location is an intermunicipal connection with BWSC. Brookline discharges to BWSC. |
| SWFIT-410 | 8A | Outfall of Gerry Road | Sawmill Brook | Outfall at the end of Gerry Road. Drains through D. Blakely Hoar Sanctuary. |
| SWOF-2 | 8A | Outfall of Rangeley Road | Sawmill Brook | Outfall off cross-country easement from Rangeley Road. |
| SWFIT-673 | 8A | Newton Street Outfall | Sawmill Brook | Outfall off Newton Street |
| SWFIT-642 | 8A | Outfall from Transfer Station | Sawmill Brook | Outfall from Transfer Station |
| SWFIT-343 | 8A | Outfall from Laurel Road | Sawmill Brook | Outfall off Laurel Road |
| SWFIT-657 | 8A | Outfall from Hammond Pond Parkway | Sawmill Brook | Outfall off Hammond Pond Parkway. |
| SWFIT-325 | 8A | Outfall from Woodland Road | Sawmill Brook | Outfall off Woodland Road |
| SWFIT-330 | 8A | Outfall from Arlington Road | Sawmill Brook | Outfall off Arlington Road |
| SWOF-12 | 8B | Boylston Street at Newton City Line | Sawmill Brook | Location is an intermunicipal connection with Newton. Brookline discharges to Newton. Flows go to Hammond Pond. |
| SWOF-3 | 6 | Chestnut Street Drain Outfall | Willow Pond | Outfall to Willow Pond. Drains to the Muddy River. |