

Notice of Intent (NOI) for coverage under Small MS4 General Permit Page 1 of 21

Part I: General Conditions

General Information

Name of Municipality or Organization: State:

EPA NPDES Permit Number (if applicable):

Primary MS4 Program Manager Contact Information

Name: Title:

Street Address Line 1:

Street Address Line 2:

City: State: Zip Code:

Email: Phone Number:

Fax Number:

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed):

Eligibility Determination

Endangered Species Act (ESA) Determination Complete?

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

National Historic Preservation Act (NHPA) Determination Complete?

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? 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)

Regulatory Authorities (if covered under the 2003 permit)

Illicit Discharge Detection and Elimination (IDDE) Authority Adopted? Effective Date or Estimated Date of Adoption (MM/DD/YY):

Construction/Erosion and Sediment Control (ESC) Authority Adopted? Effective Date or Estimated Date of Adoption (MM/DD/YY):

Post- Construction Stormwater Management Adopted? Effective Date or Estimated Date of Adoption (MM/DD/YY):

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Part II: Summary of Receiving Waters

Please list the waterbodies to which your MS4 discharges. For each waterbody, please report the number of outfalls discharging into it and, if applicable, the segment ID and 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](http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf)

Waterbody that receives flow from the MS4 and segment ID if applicable	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
MA83-18 Shawsheen River (Outfall ID #15022-1 to 15022-7)	7	☐	☐	☐	☐	☐	☐	☐	☒	☐	Fecal Coliform
MA83-18 Shawsheen River (Outfall ID #15025-1 to 15025-6)	6	☐	☐	☐	☐	☐	☐	☐	☒	☐	Fecal Coliform
MA83-18 Shawsheen River (Outfall ID #15027-1 to 15027-8)	8	☐	☐	☐	☐	☐	☐	☐	☒	☐	Fecal Coliform
MA83-18 Shawsheen River (Outfall ID #15041-1 to 15041-16)	16	☐	☐	☐	☐	☐	☐	☐	☒	☐	Fecal Coliform
MA83005 Fosters Pond (Outfall #15043-1 to 15043-5)	5	☐	☐	☒	☐	☐	☐	☐	☐	☐	Mercury in Fish Tissue
MA92-04 Tributary (Mill Brook) to Maple Meadow Brook (Outfall ID #17001-1 to 17001-8)	8	☐	☐	☒	☐	☐	☐	☐	☐	☐	
MA92-04 Tributary (Sawmill Brook) to Maple Meadow Br. (Outfall ID #17004-1 to 17004-19)	19	☐	☐	☒	☐	☐	☐	☐	☐	☐	
MA 92-04 Tributary (lower Mill Br.) to Maple Meadow Br. (Outfall ID #17005-1 to 17005-64)	64	☐	☐	☒	☐	☐	☐	☐	☐	☐	
MA 92-04 Maple Meadow Brook (Outfall ID #17006-1 to 17006-8)	8	☐	☐	☒	☐	☐	☐	☐	☐	☐	
MA92-05 Lubbers Brook (upper) (Outfall ID #17007-1 to 17007-75)	75	☐	☐	☒	☐	☐	☐	☐	☒	☐	
MA92-05 Lubbers Brook (lower) (Outfall ID #17008-1 to 17008-77)	77	☐	☐	☒	☐	☐	☐	☐	☒	☐	
MA92059 Silver Lake (Outfall ID #17008-78 to 17008-82)	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	DDT & Mercury in Fish Tissue
MA92-06 Ipswich River (Outfall ID #17012-1 to #17012-25)	25	☐	☐	☒	☐	☐	☐	☐	☐	☐	Mercury in Fish Tissue
MA92-08 Martins Brook (Outfall ID #17019-1 to 17019-61)	61	☐	☐	☒	☐	☐	☐	☐	☒	☐	Aquatic Macroinvertebrate, Fecal Coliform

MA71-01 Aberjona River (Outfall ID #19104-1 to 19104-4)	4	☐	☐	☒	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	Ammonia, Aquatic macroinvertebrate, Arsenic, Sediment Bioassays.
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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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 Implementation
Brochures/Pamphlets	General Info Regarding proper disposal of pet waste;	Residents	Engineering Div., Animal Control Officer.	Reduce pet waste in catch basins, and reduce pollutant discharges to receiving waters.	2019
Brochures/Pamphlets & Web Page	Proper use of Fertilizers and MDAR fertilizer regulations	Businesses, Institutions and Commercial Facilities	DPW Operations Manager	Reduction of nutrients to waterbodies	2020
Brochures/Pamphlets & Web Page	General information regarding good housekeeping practices for equipment repair and storage, storage of materials, waste disposal and de-icing materials.	Industrial Facilities	Engineering Div., and Planning and Conservation Department	Promote good housekeeping practices, non-structural BMPs, and reduce potential for pollutant discharge from LUHPPLs	2020
Displays/Posters/Kiosks	Properly Manage Erosion and Sediment Control from Construction Sites; and proper Operation and Maintenance of existing facilities.	Developers (construction)	Engineering Div., and Planning and Conservation Department	Reduction in sediment discharge to the MS4 and overall pollutant reduction to resource areas through properly functioning stormwater management systems.	2021

Local Public Service Announcements	General Information regarding water quality and protection of natural resources.	Residents	Engineering Div. with assistance from the NIMCOG Stormwater Collabor	Reduce potential for illegal dumping, protection of drain inlets, and increase awareness of outfall discharges.	2021
Brochures/Pamphlets & Web Page	Implementation of Operation and Maintenance of existing stormwater systems and establishing a Long Term Pollution Prevention Plan.	Industrial Facilities	Engineering Div., and Planning and Conservation Department	Reduction in Pollutant Discharge to resource areas.	2022
Brochures/Pamphlets	Long Term Pollution Prevention Planning - Fertilizer Management, snow/de-icing management, proper waste management, proper storage of materials, overall good housekeeping practices.	Businesses, Institutions and Commercial Facilities	Engineering, Planning and Conservation, DPW Operations	Reduce potential for pollutant (nutrients, sodium, sediment, and trash) discharge to the MS4 system and resource areas	2022
Meeting	Workshop to discuss the objectives of the Town's local Stormwater Management regulations, the State Policy, and EPA's Construction General Permit.	Developers (construction)	Engineering, Conservation, DPW Operations	Increase education of properly managing stormwater runoff from development sites, the benefits to Low Impact Development design, and ideas on low-cost retrofit of existing stormwater management systems.	2023

Part III: Stormwater Management Program Summary (continued)

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[illegible]

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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 Implementation
SSO inventory	Develop SSO inventory in accordance of permit conditions	Engineering Div., Water/Sewer Div., GIS Coordinator	Complete within 1 year of effective date of permit	2019
Storm sewer system map	Create map and update during IDDE program completion	Engineering Div., & GIS Coordinator	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2020
Written IDDE program	Create written IDDE program	Engineering Div., DPW, & Health Department	Complete within 1 year of the effective date of permit and update as required	2019
Implement IDDE program	Implement catchment investigations according to program and permit conditions	Engineering Div., DPW, & Health Department	Complete 10 years after effective date of permit	2023
Employee training	Train employees on IDDE implementation	DPW, & Engineering Div.	Train annually	2019
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	Engineering Div., & Conservation Agent	Complete 3 years after effective date of permit	2020
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	Engineering Div., & Conservation Agent	Complete 10 years after effective date of permit	2023
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	Engineering Div., & Conservation Agent	Complete ongoing outfall screening upon completion of IDDE program	2023

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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 Implementation
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Complete written procedures of site inspections and enforcement procedures	Planning and Conservation Department with support from Engineering Div.	Complete within 1 year of the effective date of permit	2019
Site plan review	Complete written procedures of site plan review and begin implementation	Planning and Conservation Department	Complete within 1 year of the effective date of permit	2019
Erosion and Sediment Control	Adoption of requirements for construction operators to implement a sediment and erosion control program	Planning and Conservation Department with support from Department of Public	Complete within 1 year of the effective date of permit	2019
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	Health Department, and Department of Public Works Operations Div.	Complete within 1 year of the effective date of permit	2019

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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 Implementation
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	Planning and Conservation Department with support from Engineering Div.	Require submission of as-built plans for completed projects	2019
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	Planning and Conservation Department with support from Engineering Div.	Complete 4 years after effective date of permit and report annually on retrofitted properties	2021
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	Planning and Conservation Department with support from Engineering Div.	Complete 4 years after effective date of permit and implement recommendations of report	2021
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.	Planning and Conservation Department with support from Engineering Div.	Complete 4 years after effective date of permit and implement recommendations of report	2021

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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 Implementation
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	Engineering Div., DPW, Recreation Director, Animal Control Officer, & P	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	Engineering Div., and DPW, Recreation Director	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	Engineering Div., & DPW.	Complete 2 years after effective date of permit	2020
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities	Engineering Div., & DPW	Complete and implement 2 years after effective date of permit	2020
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	Department of Public Works (DPW)	Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually	2019
Street sweeping program	Sweep all streets and permittee-owned parking lots in accordance with permit conditions	Department of Public Works (DPW)	Sweep all streets and permittee-owned parking lots once per year in the spring	2019
Road salt use optimization program	Establish and implement a program to minimize the use of road salt	Department of Public Works (DPW)	Implement salt use optimization during deicing season	2019

Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1 and 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.

Section 1. MS4 GIS Mapping Website and Outfall Categorization:

All MS4 outfalls within the Town of Wilmington have been field survey located and mapped accordingly on the Town's GIS mapping platform. A GIS mapping site has been created for public viewing at www.mapsonline.net/wilmingtonma/ms4. Also included on the map are the receiving waters and their corresponding sub-watershed boundary (subwatershed boundary ID numbers correlate to the MassGIS data layer numbering system). As is shown on the map and as listed in Part II: Summary of Receiving Waters, outfalls were categorized based on the corresponding sub-watershed basin. An outfall can be located on the map by using the "Find" tool located on the left side of the GIS mapping site. Simply input the outfall ID # (listed in part II) and the map will zoom-in to the outfall location. For example, to locate an outfall that discharges to the Aberjona River within the Boston Harbor watershed, input 19401. All four (4) outfalls will appear on the left side of the screen as links. If 19401-2 is selected, the map will zoom to the outfall located on Jewell Drive in the southerly section of Wilmington. For more detailed instructions on searching for an outfall, please contact the Town Engineer at 978-658-4499.

Section 2. Endangered Species Verification

The EPA MS4 permit requires compliance with the Federal Endangered Species Act (ESA) and the National Historic Preservation Act (NHPA) to ensure permitted activities and infrastructure do not adversely affect ESA-listed species or NHPA-listed properties. Because we are currently permitting existing infrastructure that was approved under the previous MS4 permit, Wilmington meets MS4 permit eligibility criteria for both. As part of the eligibility criteria, future work subject to the MS4 permit, including installation of structural BMPs and construction and/or installation of control measures that involve subsurface BMPs, will need to be screened in order to ensure ESA-listed species or NHPA-listed properties are not adversely impacted.

The only ESA-listed species currently in Wilmington is the threatened Northern Long-Eared Bat (NLEB), which is listed throughout Massachusetts; as such, the Town of Wilmington meets eligibility Criterion C. Future activities subject to the MS4, such as installation of structural BMPs, will be screened to determine if tree removal is required, and if they are proposed within specified distances of any "known" NLEB maternity roost trees or hibernacula as mapped by the Natural Heritage and Endangered Species Program (NHESP). Streamlined consultation under the 4(d) rule or formal consultation with the USFWS will be initiated as needed. Each screening will also confirm whether regulatory procedures and requirements have changed, and whether new species have been ESA-listed by the USFWS in the Town of Wilmington. If either of these occur, Wilmington will consult with the USFWS as required to ensure compliance.

Information that will be reviewed as part of the screening process includes, but is not limited to:

NHESP NLEB Website (mapped "known" roost trees and hibernacula):

<https://www.mass.gov/service-details/the-northern-long-eared-bat>

USFWS NLEB Website (4(d) rule and flow chart for federal projects): <https://www.fws.gov/midwest/endangered/mammals/nleeb/>

USFWS New England Field Office (current ESA-listed species): <https://www.fws.gov/newengland/EndangeredSpec-NEListedSpecies.htm>

USFWS IPaC (map to identify ESA-listed species in an area): <https://ecos.fws.gov/ipac/>

The MS4 has determined that all planned BMPs will have no effect on the northern long eared bat and small Whorled Pogonia. The MS4 agrees that if during the term of the permit, if the MS4 plans any structural BMPs not identified in this NOI, the MS4 will consult with US Fish and Wildlife as appropriate.

Section 3. Historic Preservation

All existing facilities in Wilmington were authorized by the previous MS4 permit; as such, consultation with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other tribal representatives is not currently required for MS4 coverage. The EPA has determined that discharges of constituents confined to existing channels, outfalls, or natural drainage areas do not have the potential to cause impact to historical properties. Therefore, Wilmington meets eligibility Criterion A. Any construction and/or installation of control measures that involve subsurface disturbance of less than one acre of land will be screened to ensure historic properties are not impacted and/or they are in compliance with written agreements with the SHPO, THPO, or other tribal representatives. Consultation with the SHPO, THPO, and other tribal representatives for these types of future activities will be initiated as required to ensure compliance. Information that will be reviewed as part of the screening process includes, but is not limited to:

Section 4. Reporting requirements in accordance with Section 2.2.2. Additional Requirements to Certain Water Quality Limited Waters.

The Town of Wilmington is listed in section 2.2.2.b.i.1. table of municipalities whose discharges are to waters that are impaired due to phosphorous, or their tributaries. The Engineering Division has reviewed the document entitled, "Massachusetts Year 2016 Integrated List of Waters Proposed Listing of the Condition of Massachusetts' Waters Pursuant to Sections 305(b), 314 and 303(d) of the Clean Water Act" available at www.mass.gov/eea/docs/dep/water/resources/07v5/16ilwplist.pdf. According to the 303(d) list within the aforementioned document, the only downstream water body with a phosphorus impairment that may be affected by discharges from the MS4 is the Aberjona River (MA71-01), which is part of the Boston Harbor Mystic Watershed. As shown on the Town's GIS site: www.mapsonline.net/wilmingtonma/ms4.html, a very small section of the MS4 is located within the Boston Harbor watershed (ID #19401). This section is located along the southerly Town Boundary with Woburn, along Industrial Way. Also as shown on the map, the Town has four (4) outfalls that discharge to this watershed. As such, the Town will demonstrate compliance with Appendix H part II. Since the catchment areas for these four (4) outfalls are within the Town's Industrial Zone District, our plan is to focus educational materials to Industrial Facilities regarding sources of phosphorus pollutants, good housekeeping practices, and implementation of BMPs that reportedly have a high removal rate of phosphorus prior to discharge to the impaired water.

According to the aforementioned document, the only downstream water-bodies listed within the Ipswich River watershed with a Phosphorus impairment are in Peabody, MA. They are MA92013 and MA92015, Crystal Pond and Devils Dishfull Pond. After a review of USGS topographic mapping, these two water-bodies are tributaries to the Ipswich River located in Peabody MA. The Engineering Division has confirmed that discharges from the MS4 to the Ipswich River watershed in Wilmington MA will have no impact on either of the waters listed within the Ipswich River watershed (MA92013 and MA92015).

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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:

Jeffrey M. Hull

Title:

Town Manager

Signature:

Jeffrey M. Hull

Date:

9/20/18

[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