Page 1 of 20 Notice of Intent (NOI) for coverage under Small MS4 General Permit Part I: General Conditions **General Information** State: MA Name of Municipality or Organization: Town of Needham EPA NPDES Permit Number (if applicable): MA041237 **Primary MS4 Program Manager Contact Information** Name: Richard Merson Title: Director of Public Works Department Street Address Line 1: Public Service Admin. Building Street Address Line 2: 500 Dedham Ave Needham MA Zip Code: 02492 City: State: RMerson@needhamma.gov Phone Number: (781) 455-7550 Email: (781) 449-9023 Fax Number: **Other Information** Stormwater Management Program (SWMP) Location Needham Department of Public Works, Website: Needhamma.gov (web address or physical location, if already completed): **Eligibility Determination** Eligibility Criteria Endangered Species Act (ESA) Determination Complete? Yes □ A □ B ☒ C (check all that apply): Eligibility Criteria National Historic Preservation Act (NHPA) Determination Complete? Yes \square A \square B \square C (check all that apply): 1 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)	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 (Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)	dopted? No Effective Date or Estimated Date of Adoption (MM/DD/YY): 10/10/18
Construction/Erosion and Sediment Control (ESC) Authority (Part II, III, IV or V, Subpart B. 4.(a.) of 2003 permit)	Adopted? No Effective Date or Estimated Date of Adoption (MM/DD/YY): 10/10/18
Post- Construction Stormwater Management Adopted? (Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)	No Effective Date or Estimated Date of Adoption (MM/DD/YY): 10/10/18

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.

 ${\it Massachusetts list of impaired waters:} \underline{{\it Massachusetts 2014 List of Impaired Waters-http://www.mass.gov/eea/docs/dep/water/resources/07v5/14 list2.pdf}$

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
MA72-06 Charles River	13						\boxtimes				DDT in Fish Tissue, excess algal growth, non-native aquatic plants, eurasion water milfoil, myrophyllum spicatum, fishes bioassessments, PCB in fish tissue, nutrient/eutrophication, Other flow Regime alterations
MA72-07 Charles River	21						\boxtimes		\boxtimes		DDT in Fish Tissue, non-native aquatic plants, eurasion water milfoil, myrophyllum spicatum, fishes bioassessments, fish-passage barrier, nutrient/eutrophication biological indicators, PCB in fish tissue, Harmful Algal Bloom
Isolated Wetland (Pheasant Landing Road)	1										
MA72-18 Fuller Brook	26								\boxtimes		Nutrient/Eutrification Biological indicators, Sedimentation/siltation
Tributary to Fuller Brook: Unnamed Brook (Mary Chilton Road)	4										
Isolated Wetland (Cutler Road)	1										
Isolated Wetland (Crestview Road)	1										
Isolated Wetland (Pine Street)	2										
Isolate Wetland (Robinwood Avenue)	1			-							
Isolated Wetland (Burr Drive)	1										
Tributary to MA 72-07 Charles River: Unnamed Brook (Parkman Way)	3										
Unnamed Pond/wetland (Lantern Lane)	2										
Isolated Wetland (Edgewater Lane)	1										
MA72-22 Alder Brook	13										Aquatic macroinvertebrate bioassessments, nutrient/eutrophication biological indicators
Tributary to Alder Brook: Unnamed Brook (Allen Street)	4										
Unnamed Pond/wetland (Valley Road)	1										

Town of Needham					·	,					Page 3 of 20
Hurd Brook	19										
MA72-25 Rosemary Brook	27			\boxtimes			\boxtimes				Fecal coliform
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
Tributary to Rosemary Brook: Unnamed Brook (Rolling Ln)	4										
Rosemary Lake	1										
Tributary to Rosemary Lake: Unnamed Brook (Lake Dr)	1										
Tributary to Rosemary Lake: Unnamed Brook (Mallard Rd)	18										
Isolated Wetland (Blacks mith Drive)	1										
Isolated Wetland (Colonial Road)	2										
Isolated Wetland (Bancroft Street)	1										
Tributrary to MA72055 Cutler Lake: Unnamed Brook (Cheney Street)	1										
Unnamed Brook (First Avenue)	3										
Tributary to Unnamed Pond (Lehigh Road)	3										
Unnamed Brook (Chestnut Street)	1										
Tributary to MA 72-06 Charles River: Unnamed Brook (Charles River Street)	1										
Tributary to MA 72-06 Charles River: Unnamed Brook (Whitman Road)	1										
Tributary to MA 72-06 Charles River: Unnamed Brook (South Street)	1										
Unnamed Pond (South Street)	1										
Tributary to MA 72-07 Charles River: Unnamed Brook (Southwood Lane)	7										
Isolated Wetland (Gatewood Drive)	1										
Isolated Wetland (Maple Place)	1										
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

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Unnamed Brook (Sylvan Road)	2					
Unnamed Brook (Wildwood Drive)	1					
Unnamed Pond (Wildwood Drive)	2					
Unnamed Pond (Broad Meadow Road)	1					
MA72055 Cutler Lake	1					
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Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and 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
Brochures/Pamphlets	Mailing, website, event, phone contact, site visit, and/or other means	Residents	DPW	See Note 4	2019
Brochures/Pamphlets	Mailing, website, event, phone contact, site visit, and/or other means	Businesses, Institutions and Commercial Facilities	DPW	See Note 4	2019
8 rochures / Pamphlets	Mailing, website, event, phone contact, site visit, and/or other means	Developers (construction)	DPW	See Note 4	2020
Brochures/Pamphlets	Mailing, website, event, phone contact, site visit, and/or other means	Industrial Facilities	DPW	See Note 4	2020
Newspaper Articles/Press Releases	Mailing, website, event, phone contact, site visit, and/or other means	Residents	DPW	See Note 4	2021
Newspaper Articles/Press Releases	Mailing, website, event, phone contact, site visit, and/or other means	Businesses, Institutions and Commercial Facilities	DPW	See Note 4	2021

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Newspaper Articles/Press Releases	Mailing, website, event, phone contact, site visit, and/or other means	Developers (construction)	DPW	See Note 4	2022
Newspaper Articles/Press Releases	Mailing, website, event, phone contact, site visit, and/or other means	Industrial Facilities	DPW	See Note 4	2022

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	DPW	Allow annual review of stormwater management plan and posting of stormwater management plan on website	2018
Public Participation	Provide an opportunity for the public to comment on SWMP	DPW	Allow public to comment on stormwater management plan annually	2018
Public Participation	Household haz. waste/used oil collection	DPW	Number of participants to be recorded and record volume of waste collected	2019
No.				

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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	DPW	Complete within 1 year of effective date of permit	2018
Storm sewer system map	Create map and update during IDDE program completion	DPW	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2018
Written IDDE program	Create written IDDE program	DPW	Complete within 1 year of the effective date of permit and update as required	2018
Implement IDDE program	Implement catchment investigations according to program and permit conditions	DPW	Complete 10 years after effective date of permit	2020
Employee training	Train employees on IDDE implementation	DPW	Train annually	2018
Conduct dry weather screening	Conduct in accordance with IDDE Program	DPW	Complete 3 years after effective date of permit	2019
Conduct wet weather screening	Conduct in accordance with IDDE Program	DPW	Complete 10 years after effective date of permit	2020
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	DPW	Complete ongoing outfall screening upon completion of IDDE program	2025
Implement IDDE Program	Conduct TV inspection of the storm drain system to look for illicit connections	DPW	Conduct TV inspection of 10% of storm drain system per year	2018

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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/Partles (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		Complete within 1 year of the effective date of permit	2018
Site plan review	Complete written procedures of site plan review and begin implementation	DÞM	Complete within 1 year of the effective date of permit	2018
Erosion and Sediment Control	Adoption of requirements for construction operators to implement a sediment and erosion control program	DPW	Complete within 1 year of the effective date of permit	2018
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	DPW	Complete within 1 year of the effective date of permit	2018

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Part III: Stormwater Management Program Summary (continued)

Town of Needham

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	Adoption, amendment, or modification of stormwater bylaw/ regulations to meet permit requirements	DPW	Enact regulations to include Building Permit Requirement for submission of as-built plans for completed projects	2018
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	DPW	Complete 4 years after effective date of permit and report annually on retrofitted properties	2021
Allow green infrastructure	Assess existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	DPW	Complete 4 years after effective date of permit and implement recommendations of report	2021
Street design and parking lot guidelines	Assess 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.	DPW	Complete 4 years after effective date of permit and implement recommendations of report	2021

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Ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the applicable requirements of the Massachusetts Stormwater Handbook	Assess amendment, or modification of a regulatory mechanism to support retention and treatment of stormwater	DPW	Complete 2 years after effective date of permit	2018
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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	Implement annually within 2 years of the permit effective date	2018
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Create inventory	DPW	Complete written program within 2 years effective date of permit	2018
Infrastructure O&M	Establish and implement program for repair and rehabilitation of MS4 infrastructure	DPW	Complete written program within 2 years effective date of permit	2018
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities	DPW	Complete written program within 2 years effective date of permit	2018
Catch basin cleaning	Establish goals for catch basin cleaning	DPW	Clean catch basins based on goals and report on cleaning activities completed annually	2019
Street sweeping program	Sweep all streets and permitee-owned parking lots in accordance with permit conditions	DPW	Sweep all streets and permitee-owned parking lots once per year in the spring or more in accordance with the infrastructure O&M plan	2018
Road salt use optimization program	Establish and implement a program to minimize the use of road salt	DPW	Complete written program within one year of effective date of permit	2018

Town of Needham			Page 16 of 20	
Inspections and maitenance of stormwater treatment structures	Establish and implement inspection and maitenance procedures and frequencies	DPW	Complete written program within one year of effective date of permit	2018
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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)
Upper/Middle Charles River (Phosphorus)		DPW - See Note 5
Charles River Watershed (Bactria/Pathogen)		DPW - See Note 5

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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. In addition, if you are subject to additional requirements due to a downstream nutrient impairment (see Part 2.2.2 of the permit) select the pollutant of concern and indicate applicable waterbody IDs or write "all waterbodies" if applicable. 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.

Waterbody ID(s)	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
River		DPW - See Note 6
MA72-06 Charles River, MA72-07 Charles		DPW - See Note 6
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	Waterbody ID(s) MA72-18 Fuller Brook, MA72-07 Charles River MA72-06 Charles River, MA72-07 Charles River, MA72-25 Rosemary	MA72-18 Fuller Brook, MA72-07 Charles River MA72-06 Charles River, MA72-07 Charles

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.

- 1) Where a "beginning year" is requested we have listed the first year of the applicable fiscal year. Fiscal years run from July 1 to June 30 and correspond to permit years (i.e. permit year 1 is 2018).
- 2) For the purposes of NOI outfall mapping, "receiving waters" are considered as waterbodies and wetlands delineated by the USGS 25k hydrography data layers, which consists of hydrographic (water-related) features including surface waters (rivers, streams, lakes, ponds, springs, impoundments, estuaries, wetlands, coastal waters and vernal pools). The number of outfalls into a receiving water segment listed in Part II: Summary of Receiving Waters include those discharging within a 100' of a wetland or 200' of a surface water. All other outfalls are considered to be upland of receiving waters and are included in the map for use by the Town only. Future mapping efforts will refine outfall counts according to ownership and connectivity.
- 3) We completed the Endangered Species Act Eligibility Guidance in Appendix C of the Permit and determined that the project meets eligibility USFWS Criterion C. This determination is based on the project area IPAC report results and our assessment that activities will have "no affect" on listed species because no field work or alteration of any potential habitat is included in activities covered under this permit. A "no species present" letter, provided by USFWS, is included as an attachment to this application to complete the ESA determination.
- 4) The Town of Needham is a member of a stormwater coalition and is assisted by the Charles River Watershed Association who provide resources helping communities meet MS4 education requirements. The Town is working with these groups to develop a plan for deliverables for the MS4 educational requirements of the permit.
- 5) Related to Total Maximum Daily Loads action description, the Town will pursue the goal of meeting part A.I and A.III of Appendix F noted above for Upper/Middle Charles River (Phosphorus) and Charles River Watershed (Bacteria/Pathogen) respectively to the maximum extent practicable.
- 6) Related to Water Quality Limited Waters action description, the Town will pursue the goal of meeting part III and II of Appendix H noted above for E. Coli & Phosphorus respectively to the maximum extent practicable.

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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:	Kate Fitzpatrick	Title:	Joun Manager
Signature:	To be signed according to Appendix B, Subparagraph B.11, Standard Conditions	Date:	9-19-18

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

MS4 NOI Attachments

Endangered Species Act Determination Letter MS4 Outfall Map



United States Department of the Interior

FISH AND WILDLIFE SERVICE



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

January 8, 2018

To Whom It May Concern:

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

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

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

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

Sincerely yours,

Thomas R. Chapman

Supervisor

New England Field Office

