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

Part I: General Conditions

General Information

Name of Municipality or Organization: Town of North Andover State: MA

EPA NPDES Permit Number (if applicable): MAR041214

Primary MS4 Program Manager Contact Information

Name: John Borgesi, P.E. Title: Town Engineer

Street Address Line 1: Engineering Department

Street Address Line 2: 384 Osgood Street

City: North Andover State: MA Zip Code: 01845

Email: jborgesi@northandoverma.gov Phone Number: (978) 685-0950

Fax Number: (978) 688-9573

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed): Once complete, SWMP will be available at the DPW Engineering Department 384 Osgood Street and online: https://www.northandoverma.gov/engineering-department

Eligibility Determination

Endangered Species Act (ESA) Determination Complete? Yes

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

National Historic Preservation Act (NHPA) Determination Complete? Yes

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

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

MS4 Infrastructure (if covered under the 2003 permit)

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

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

Web address where MS4 map is published:

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

See attached map and online: https://www.northandoverma.gov/engineering-department

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): 05/12/09

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): 05/12/09

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): 05/12/09

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

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

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
Sutton Pond	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Osgood Pond	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Stevens Pond MA84064	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	Mercury in Fish Tissue
Skug River	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Skug River	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Pond on Salem Street	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Pond on Dale Street	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Unnamed Pond on Dale Street	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Cochichewick River	18	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Cochichewick River	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Mosquito Brook	22	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Mosquito Brook	28	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Farnum Street Pond MA92018	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Farnum Street Pond MA92018	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Fish Brook MA92-14	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Fish Brook MA92-14	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Fish Brook	13	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Fish Brook	10	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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
Boston Brook MA92-13	15	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Boston Brook MA92-13	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Shawsheen River MA83-19	20	☐	☐	☒	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Shawsheen River MA83-19	1	☐	☐	☒	☐	☐	☐	☐	☐	☐	
Lake Cochichewick MA84008	18	☐	☐	☐	☐	☐	☐	☐	☐	☐	Mercury in Fish Tissue
Wetland/Tributary to Lake Cochichewick MA84008	34	☐	☐	☐	☐	☐	☐	☐	☐	☐	Mercury in Fish Tissue
Merrimack River MA84A-04	6	☐	☐	☐	☐	☐	☒	☐	☒	☐	PCB in Fish Tissue
Wetland/Tributary to Merrimack River MA84A-04	7	☐	☐	☐	☐	☐	☒	☐	☒	☐	PCB in Fish Tissue
Wetland/Tributary to Salem Street Pond MA92076	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Sharpners Pond	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Farnums Mill Pond	11	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland/Tributary to Emerson Brook Reservoir MA92021	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Great Pond Road	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Woodbury Lane	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Bear Hill Road	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Vest Way	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Salem Street	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Chestnut Street	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Andover Bypass	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Laconia Circle	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Candlestick Road	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Jerad Place	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Stevens Street	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Turtle Street	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Isolated Wetland Rock Road	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Outside Receiving Waterbody	459	☐	☐	☐	☐	☐	☐	☐	☐	☐	

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

Part III: Stormwater Management Program Summary

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

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

MCM 1: Public Education and Outreach

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

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

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

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

Part III: Stormwater Management Program Summary

MCM 2: Public Involvement and Participation

BMP ID	BMP Category	BMP Description	Responsible Department/Parties	Measurable Goal	Beginning Year of BMP Implementation
2A	Public Review	SWMP review (Plan and reports available on web and at public meetings)	Public Works	Annually provide the public with an opportunity to participate in the review and implementation of the SWMP	2018 (PY1)
2B	Public Participation	Provide opportunities for public involvement and participation in North Andover' stormwater program (including clean up events and kiosks at town events). Specific activities, schedule, and lead departments are included in the SWMP.	Public Works, Conservation	Ongoing compliance	2018 (PY1)
2C	Public Review	Continue NPDES Subcommittee (Public Works, Engineering, Conservation, Planning, Board of Health, Water/Sewer, Facilities, GIS, Community Development, Schools)	Public Works	At a minimum, stormwater working group will meet annually.	2018 (PY1)

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

Part III: Stormwater Management Program Summary

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

BMP ID	BMP Category	BMP Description	Responsible Department/Parties	Measurable Goal	Beginning Year of BMP Implementation
3A	IDDE Bylaw	Complete. Continue to enforce and update if necessary.	Planning Board/ Public Works	Track illicit discharges identified and removed.	2018 (PY1)
3B	SSO Inventory	Update SSO inventory in accordance with permit conditions	Public Works	Complete within one (1) year of effective date of permit. Track # of SSOs identified and removed annually	2018 (PY1)
3C	Storm sewer system map	Outfall Inventory Complete. Improve map during IDDE Program implementation	Public Works	Update map within two (2) years of effective date of permit and complete full system map 10 years after effective date of permit	2018 (PY1)
3D	Written IDDE program	Complete. Update written IDDE Plan as necessary	Public Works	Complete within one (1) year of the effective date of permit and update as required	2018 (PY1)
3E-1	Assessment and Priority Ranking of Outfalls & Interconnections	Outfall/ Interconnection Inventory and Initial Ranking as part of BMP 3D	Public Works	Complete within one (1) year of the effective date of permit and update as necessary	2018 (PY1)
3E-2	Assessment and Priority Ranking of Outfalls & Interconnections	Dry Weather Outfall Screening & Sampling in accordance with IDDE Plan and permit conditions	Public Works	Complete three (3) years after effective date of permit. Track # of illicit discharges identified & volume removed. Summarize screening/ sampling results.	2018 (PY1)

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

BMP ID	BMP Category	BMP Description	Responsible Department/Parties	Measurable Goal	Beginning Year of BMP Implementation
3E-3	Assessment and Priority Ranking of Outfalls & Interconnections	Catchment Investigations according to IDDE Program and permit conditions	Public Works	Complete 10 years after effective date of permit. Track # and percentage of MS4 catchments evaluated. Track # of illicit discharges identified & volume removed. Summarize screening/sampling results.	2019 (PY2)
3F	Employee Training	Train employees on IDDE implementation	Public Works	Train annually. Track employees trained, training topic, date/time, and materials presented.	2018 (PY1)

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

Part III: Stormwater Management Program Summary

MCM 4: Construction Site Stormwater Runoff Control

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

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

Part III: Stormwater Management Program Summary

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

BMP ID	BMP Category	BMP Description	Responsible Department/Parties	Measurable Goal	Beginning Year of BMP Implementation
5A	Post-Construction Bylaw and Regulations	Modify local regulations, if necessary, to contain new MS4 provisions per section 2.3.6.a.	Planning Board, Conservation	Modify existing bylaw and/or regulations if necessary within two (2) years of permit effective date	2019 (PY2)
5B	Assess street and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	Planning Board, Public Works	Complete report no later than four (4) years of permit effective date	2020 (PY3)
5C	Assess allowing green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	Planning Board, Public Works	Complete report no later than four (4) years of permit effective date	2020 (PY3)

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

BMP ID	BMP Category	BMP Description	Responsible Department/Parties	Measurable Goal	Beginning Year of BMP Implementation
5D	Retrofit Feasibility Assessment	Conduct detailed inventory of Town-owned properties and rank for retrofit potential	Planning Board, Public Works	Complete report no later than four (4) years of permit effective date. Beginning in year 5 keep running list of at least five (5) retrofit sites	2020 (PY3)

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

Part III: Stormwater Management Program Summary

MCM 6: Municipal Good Housekeeping and Pollution Prevention

BMP ID	BMP Category	BMP Description	Responsible Department/Parties	Measurable Goal	Beginning Year of BMP Implementation
6A	Operation & Maintenance Program	Inventory and create O&M procedures for all permittee-owned parks and open spaces, buildings and facilities (including their storm drains), and vehicles and equipment	Public Works, Facilities, Schools	Complete two (2) years after permit effective date, implement in following years	2019 (PY2)
6B	Operation & Maintenance Program	Establish and implement program for repair and rehabilitation of MS4 infrastructure	Public Works	Complete two (2) years after permit effective date, implement in following years	2019 (PY2)
6C	Stormwater Pollution Prevention Plans (SWPPP)	Implement SWPPP for the DPW facility. Develop and implement SWPPP for the Cyr Recycling Center.	Public Works	Complete SWPPPs within two (2) years of permit effective date, implement in following years	2018 (PY1)
6D-1	Operation & Maintenance Program	Implement procedures to optimize catch basin cleaning developed under BMP 6B	Public Works	Track frequency and material quantity of catch basin cleaning in town. In first Annual Report and in SWMP, document plan for optimizing catch basin cleaning.	2018 (PY1)

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

BMP ID	BMP Category	BMP Description	Responsible Department/Parties	Measurable Goal	Beginning Year of BMP Implementation
6D-2	Operation & Maintenance Program	Implement procedures for street and parking lot sweeping developed under BMP 6B	Public Works	Annually track number of miles cleaned or the volume or mass of material removed.	2018 (PY1)
6D-3	Operation & Maintenance Program	Implement procedures for use and storage of deicing materials developed under BMP 6B	Public Works	Implement program for winter road maintenance throughout permit term.	2018 (PY1)
6D-4	Operation & Maintenance Program	Implement procedures to inspect and maintain Town-owned structural stormwater BMPs	Public Works	Develop an inventory of Town-owned BMPs within two (2) years of permit effective date. Report on inspection and maintenance conducted annually.	2018 (PY1)

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

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

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

Applicable TMDL	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
Shawsheen River (Bactria/Pathogen)	Adhere to requirements in part A.III of Appendix F	Public Works

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.**

Pollutant	Waterbody ID(s)	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
Phosphorus	Merrimack River MA84A-04	Adhere to requirements in part II of Appendix H	Public Works
E. Coli	Merrimack River MA84A-04	Adhere to requirements in part III of Appendix H	Public Works

Part IV: Notes and additional information

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

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

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

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

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

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

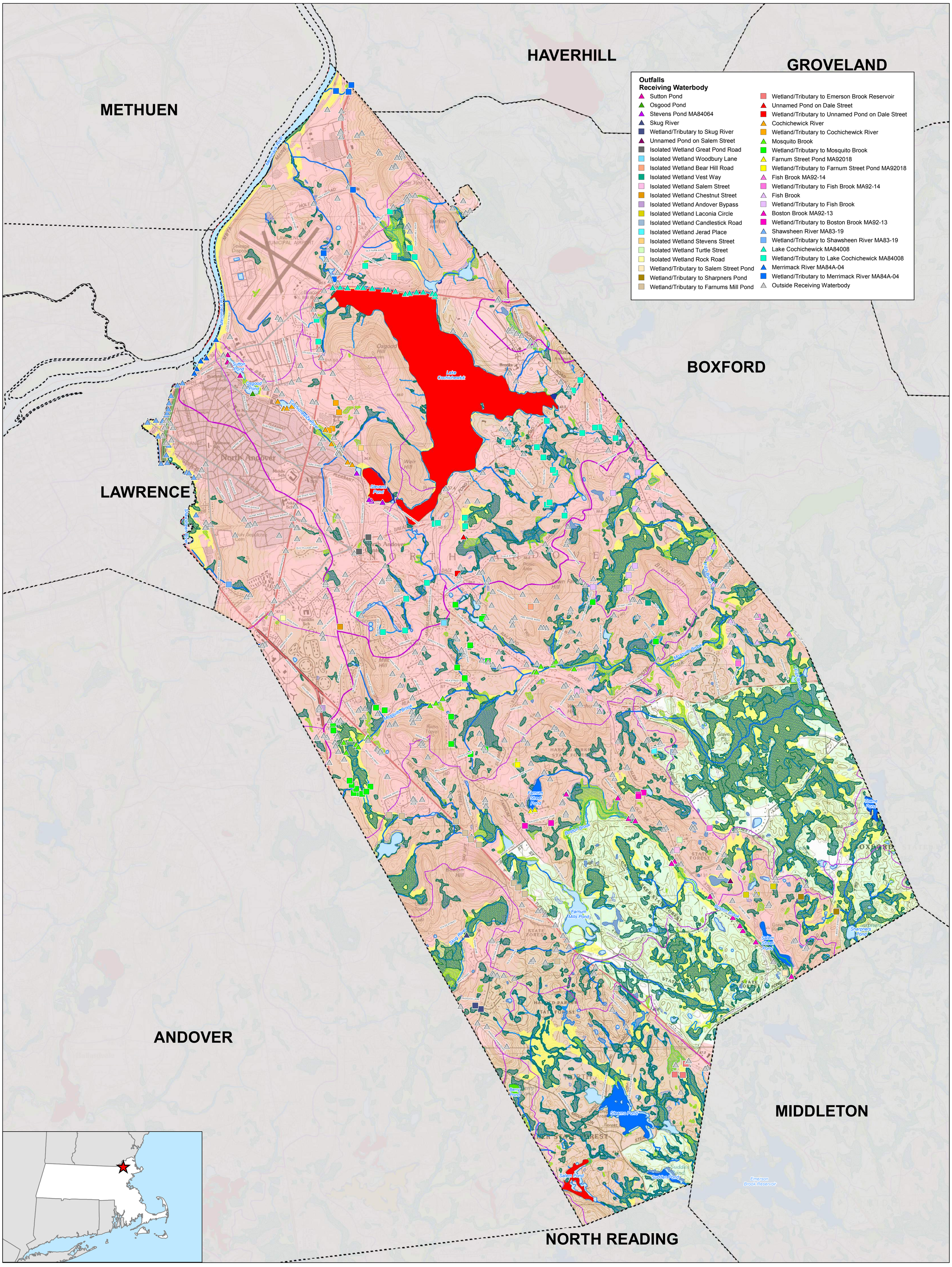
Part V: Certification

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

Name:	Andrew W. Maylor	Title:	Town Manager
Signature:		Date:	9/28/18

[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



Legend

Water Body Segments - Rivers (arcs)

Category

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

Water Body Segments - Lakes, Estuaries (polygons)

Category

- 2 - Attaining some uses; other uses not assessed
- 3 - No uses assessed
- 4A -Impaired - TMDL is completed
- 4C - Impairment not caused by a pollutant
- 5 - Impaired - TMDL required
- Town Boundary
- Major Basins
- Subbasins

MassDEP Hydrology

- Public Surface Water Supply (PSWS)
- Water Bodies
- NWI Rivers and Streams

National Wetlands Inventory

- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Estuarine and Marine Deepwater
- Freshwater Pond
- Lake
- Riverine
- Other
- Hydrology

MassDEP Wetlands

- Inland Wetlands

MassDOT Major Roads

Road Type

- Limited Access Highway
- Multi-lane Hwy, not limited access
- Other Numbered Highway
- Major Road, Collector
- 100-Year Floodplain (FEMA)
- Urbanized Area 2000
- Urbanized Area 2010

1. Based on USGS Topo Map Southgroveland 1987 (3m)
2. MassGIS: 2014 Integrated List Data (2016), Major Drainage Basins (2003), Subbasins (2007) Community Boundary (2017), National Wetlands Inventory (2007), FEMA National Flood Hazard (2017), MassDOT Major Roads (2014), Urban Area (2000 and 2010)
3. North Andover: Outfalls

N

0 1,750 3,500 Feet

1:21,000

OUTFALLS AND RECEIVING WATERBODIES

Notice of Intent
North Andover, Massachusetts

September 2018

Tighe&Bond
Engineers | Environmental Specialists

G:\GIS\MA\NorthAndoverMA\avproj\24x36_NOI_Rec_Waters_Final.mxd

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