

## 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)

|                                                                                                                                          |                                  |                                                          |                                       |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------|---------------------------------------|
| <b>Illicit Discharge Detection and Elimination (IDDE) Authority Adopted?</b><br>(Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit) | <input type="text" value="Yes"/> | Effective Date or Estimated Date of Adoption (MM/DD/YY): | <input type="text" value="10/01/06"/> |
| <b>Construction/Erosion and Sediment Control (ESC) Authority Adopted?</b><br>(Part II, III, IV or V, Subpart B.4.(a.) of 2003 permit)    | <input type="text" value="Yes"/> | Effective Date or Estimated Date of Adoption (MM/DD/YY): | <input type="text" value="05/01/10"/> |
| <b>Post- Construction Stormwater Management Adopted?</b><br>(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)                     | <input type="text" value="Yes"/> | Effective Date or Estimated Date of Adoption (MM/DD/YY): | <input type="text" value="05/01/10"/> |

## 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](http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf)

[illegible]

|  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |  |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
|  |  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |  |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|

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<br>(enter your own text to override the drop down menu) | BMP Description        | Targeted Audience                                  | Responsible Department/Parties<br>(enter your own text to override the drop down menu) | Measurable Goal | Beginning Year of BMP Implementation |
|----------------------------------------------------------------------------|------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------|-----------------|--------------------------------------|
|                                                                            | See Part IV Attachment | Residents                                          | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            | See Part IV Attachment | Businesses, Institutions and Commercial Facilities | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            | See Part IV Attachment | Developers (construction)                          | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            | See Part IV Attachment | Industrial Facilities                              | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            | See Part IV Attachment | Residents                                          | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            | See Part IV Attachment | Businesses, Institutions and Commercial Facilities | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            | See Part IV Attachment | Developers (construction)                          | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            | See Part IV Attachment | Industrial Facilities                              | Greenscapes North Shore Coalition                                                      |                 |                                      |
|                                                                            |                        |                                                    |                                                                                        |                 |                                      |
|                                                                            |                        |                                                    |                                                                                        |                 |                                      |
|                                                                            |                        |                                                    |                                                                                        |                 |                                      |
|                                                                            |                        |                                                    |                                                                                        |                 |                                      |

[illegible]

### Part III: Stormwater Management Program Summary (continued)

## MCM 2: Public Involvement and Participation

[illegible]

[illegible]

## 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)

| <b>BMP Categorization</b><br>(enter your own text to override the drop down menu)                                        | <b>BMP Description</b>                                                                        | <b>Responsible Department/Parties</b><br>(enter your own text to override the drop down menu) | <b>Measurable Goal</b><br>(all text can be overwritten)                                                                                               | <b>Beginning Year of BMP Implementation</b> |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Septic System Maintenance, Service, Upgrades, and Replacement Records                                                    | Develop a system to track all septic system maintenance, service, upgrades, and replacements. | Health Department and GIS Department                                                          | Maintain septic system database                                                                                                                       | 2018                                        |
| Storm sewer system map                                                                                                   | Update map during IDDE program completion                                                     | Engineering and GIS Department                                                                | Continue to update as field investigations reveal new information such as CCTV findings, and potential illicit connections and investigation results. | 2020                                        |
| Review and update written IDDE program                                                                                   | Update written IDDE program                                                                   | Engineering                                                                                   | 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                                                                                   | Document number of illicit connections located and removed.                                                                                           | 2019                                        |
| Employee training                                                                                                        | Train employees on illicit connection identification                                          | DPW Operations                                                                                | Train annually                                                                                                                                        | 2018                                        |
| Conduct dry weather screening (dry weather screening has been completed previously in 80 of the 117 outfalls in the MS4) | Conduct in accordance with outfall screening procedure and permit conditions                  | Engineering                                                                                   | Complete screening in remaining 37 outfalls in MS4.                                                                                                   | 2019                                        |
| Conduct wet weather screening                                                                                            | Conduct in accordance with outfall screening procedure                                        | Engineering                                                                                   | Complete 10 years after effective date of permit                                                                                                      | 2019                                        |
| Update GIS Mapping as new developments occur                                                                             | Update GIS map to Include drainage in new developments                                        | Engineering and GIS Department                                                                | Maintain GIS mapping                                                                                                                                  | 2019                                        |

[illegible]

## 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

| <b>BMP Categorization</b><br>(enter your own text to override the drop down menu or entered text) | <b>BMP Description</b>                                                                                                                                                                                           | <b>Responsible Department/Parties</b><br>(enter your own text to override the drop down menu) | <b>Measurable Goal</b><br>(all text can be overwritten) | <b>Beginning Year of BMP Implementation</b> |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|
| Site inspection and enforcement of Erosion and Sediment Control (ESC) measures                    | Review current procedures of site inspections and enforcement procedures to ensure compliance in new permit regulations                                                                                          | Engineering and Conservation Commission                                                       | Complete within 1 year of the effective date of permit  | 2019                                        |
| Site plan review                                                                                  | Review current procedures of site plan review and begin implementation of any new permit regulations                                                                                                             | Engineering                                                                                   | Complete within 1 year of the effective date of permit  | 2019                                        |
| Erosion and Sediment Control                                                                      | Review current requirements for construction operators to implement a sediment and erosion control program to address any new permit regulations                                                                 | Environment Department                                                                        | Complete within 1 year of the effective date of permit  | 2019                                        |
| Waste Control                                                                                     | Review current requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes to address any new permit regulations | Engineering                                                                                   | Complete within 1 year of the effective date of permit  | 2019                                        |
|                                                                                                   |                                                                                                                                                                                                                  |                                                                                               |                                                         |                                             |
|                                                                                                   |                                                                                                                                                                                                                  |                                                                                               |                                                         |                                             |
|                                                                                                   |                                                                                                                                                                                                                  |                                                                                               |                                                         |                                             |

[illegible]

## 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

| <b>BMP Categorization</b><br>(enter your own text to override the drop down menu or entered text) | <b>BMP Description</b>                                                                                                                                                                                                                     | <b>Responsible Department/Parties</b><br>(enter your own text to override the drop down menu) | <b>Measurable Goal</b><br>(all text can be overwritten)                                       | <b>Beginning Year of BMP Implementation</b> |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------|
| As-built plans for on-site stormwater control                                                     | Review current 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                                   | 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                                                                                              | Engineering                                                                                   | Complete 4 years after effective date of permit and report annually on retrofitted properties | 2019                                        |
| 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                                                                                   | Complete 4 years after effective date of permit and implement recommendations of report       | 2019                                        |
| 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                                                                                   | Complete 4 years after effective date of permit and implement recommendations of report       | 2019                                        |

[illegible]

## 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

| <b>BMP Categorization</b><br>(enter your own text to override the drop down menu or entered text)         | <b>BMP Description</b>                                                                                                                                           | <b>Responsible Department/Parties</b><br>(enter your own text to override the drop down menu) | <b>Measurable Goal</b><br>(all text can be overwritten)                                                                    | <b>Beginning Year of BMP Implementation</b> |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 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                                                                                | 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 Engineering                                                                | 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                                                                                | 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                                                                    | DPW Operations                                                                                | 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                          | DPW Operations                                                                                | 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                                                                          | DPW Operations                                                                                | 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                                                                                               | DPW Operations                                                                                | Implement salt use optimization during deicing season                                                                      | 2019                                        |

[illegible]

# 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.**

[illegible]

### 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.**

[illegible]

**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.

The Town of North Reading is pleased to be working with the Greenscapes Northshore Coalition to complete MCM 1: Public Education and Outreach. The outline of their proposed outreach efforts are attached to this NOI.

The Town of North Reading has recently completed dry weather screening 80 of the 117 permitted outfalls located in the MS4. No additional dry weather screening will be completed on these locations as part of the permit. Dry weather screening will be conducted on the 37 remaining outfalls.

## 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:

Michael Gilleberto

Title:

Town Administrator

Signature:

 Digitally signed by Michael P. Gilleberto  
Date: 2018.09.26 13:05:30 -04'00'

Date:

*[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



## United States Department of the Interior

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



In Reply Refer To:

August 07, 2018

Consultation Code: 05E1NE00-2018-SLI-2630

Event Code: 05E1NE00-2018-E-06145

Project Name: North Reading, MA MSW

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](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

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

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

Attachment(s):

- Official Species List
-

## Official Species List

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

This species list is provided by:

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

---

## Project Summary

Consultation Code: 05E1NE00-2018-SLI-2630

Event Code: 05E1NE00-2018-E-06145

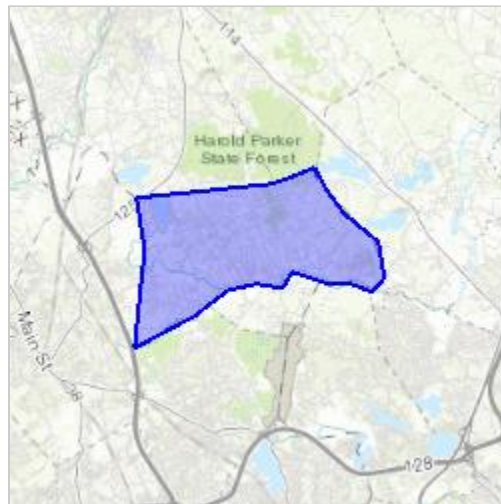
Project Name: North Reading, MA MSW

Project Type: \*\* OTHER \*\*

Project Description: NPDES - MS4 Permit

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.58088766052039N71.08163098988973W>



Counties: Essex, MA | Middlesex, MA

---

## Endangered Species Act Species

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

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

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

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

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

## Mammals

| NAME                                                                                                                                                                                                                             | STATUS     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Northern Long-eared Bat <i>Myotis septentrionalis</i><br>No critical habitat has been designated for this species.<br>Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a> | Threatened |

## Critical habitats

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

---



**TOWN OF NORTH READING**  
*Massachusetts*

---

**Department of Public Works**

September 19, 2018

US EPA  
Stormwater and Construction Permits Section (OEP06-1)  
Five Post Office Square, Suite 100  
Boston, MA 02109

Re: Permit Review Request, Town of North Reading, MA NPDES MS4 - 041215

The Town of North Reading has recently completed dry weather sampling of 80 of its 177 its permitted MS4 outfalls. The Town completed an Outfall Reconnaissance Inventory Sheet for each outfall and conducted sampling as needed based on the Illicit Discharge Detection and Elimination Manual from the Center for Watershed Protection. The Town would like to request the screening and sampling requirements under the 2016 NPDES MS4 permit be considered complete under the previous screening and sampling efforts.

For additional information, please contact me by mail, phone or email at [jklipfel@northreadingma.gov](mailto:jklipfel@northreadingma.gov).

Very truly yours,

John Klipfel, P.E.  
Town Engineer

# GREENSCAPES NORTH SHORE COALITION

## MCM 1: Public Education and Outreach - NOI FORM

\* All literature and media will be available online at [www.greenscapes.org](http://www.greenscapes.org) and can be shared with member communities at any time.

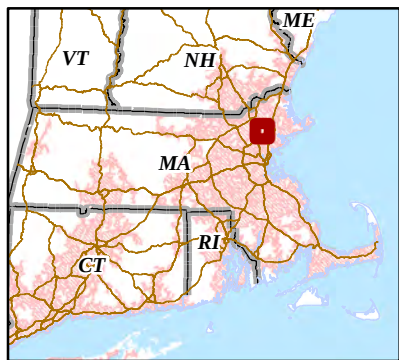
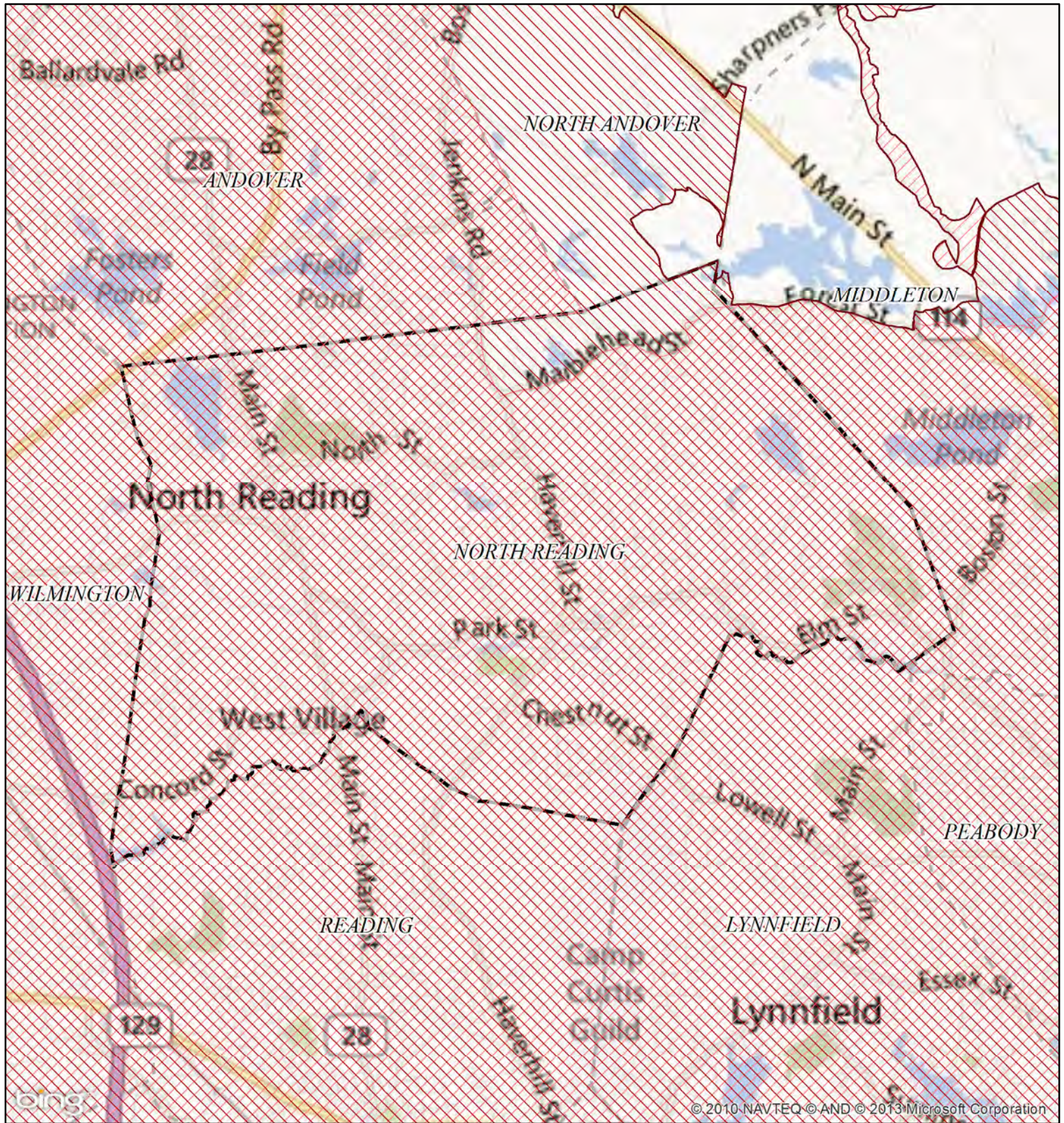
\*\* Community can decide how to address Greenscapes' involvement. They may choose to list GS as an external contractor, or can list whomever in their town GS communicated with for each BMP, respectively.

| BMP Media/ Category         | BMP Description*                                                                                                                                                                                                                    | Targeted Audience                                   | Responsible Parties/ Depts**                                     | Measurable Goal                                                                                                     | Implementation Year |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------|
| Brochure/ Pamphlets         | Brochure will consist of a 'how-to-guide' for residents on how rain gardens work and how to install them at their home.                                                                                                             | Residents                                           | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | 1                   |
| Brochure/ Pamphlets         | An updated version of comprehensive literature, discussing the importance of "greenscaping", small-scale stormwater management practices, sewer/septic system maintenance and other ways to avoid illicit discharge.                | Residents                                           | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | 1                   |
| Workshop/ Info Sheet        | Workshop and associated literature will cover LID options for reducing runoff and promoting on-site infiltration. Pricing, maintenance and ordinances will also be discussed.                                                       | Developers (Construction)                           | Greenscapes North Shore Coalition and Department of Public Works | - Number of attendees<br>- Increase in LID use                                                                      | 1                   |
| Displays/ Posters/ Kiosks   | Informational poster will be placed in area with heavy dog/walker traffic. Poster will describe proper pet waste management and disposal.                                                                                           | Residents, Professional Dog Walkers, General Public | Greenscapes North Shore Coalition                                | - Pilot surveys may be conducted before and after message posting                                                   | 1                   |
| Brochure/ Pamphlets         | Pet Waste literature is available in two forms (one page info sheet or rack card) and can be redistributed as necessary.                                                                                                            | Residents                                           | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | 1                   |
| Social Media Post           | Greenscapes will provide content for a social media "blast" on town Facebooks etc. Ex. Autumnal facebook post describing proper disposal of leaf collection, and springtime post about proper lawn/fertilizer maintenance.          | Residents                                           | Greenscapes North Shore Coalition and Department of Public Works | - Number of views/ likes/ comments<br>- Resident testimonials before and after posting                              | 1                   |
| School Curriculae/ Programs | An elementary school will host Greenscapes "Keeping Water Clean" Program.                                                                                                                                                           | Residents                                           | Greenscapes North Shore Coalition                                | - Number of students/ teachers/ volunteers in attendance<br>- Subset of students evaluated before and after program | 1                   |
| Brochure/ Pamphlets         | Brochure will include general info on LIDs that can assist in stormwater management and pollution prevention. Content will be targeted to "environmental contacts" at industrial facilities, or property managers where applicable. | Industrial Facilities                               | Greenscapes North Shore Coalition                                | - Number distributed<br>- Phone call followup                                                                       | 2                   |
| Workshop                    | Stormwater presentation will discuss specific BMPs for parking lots; how to reduce impervious surfaces, and maintain the space more sustainably.                                                                                    | Businesses/ Institutions and Commercial Facilities  | Greenscapes North Shore Coalition and Department of Public Works | - Number of attendees<br>- Number of presentations re-distributed to commercial representatives.                    | 2                   |
| Displays/ Posters/ Kiosks   | An updated version of informational display, discussing the importance of "greenscaping", small-scale stormwater management practices, sewer/septic system maintenance and other ways to avoid illicit discharge.                   | Residents                                           | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | 2                   |
| Brochure/ Pamphlets         | Pet Waste literature is available in two forms (one page info sheet or rack card) and can be redistributed as necessary.                                                                                                            | Residents                                           | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | 2                   |
| Social Media Post           | Greenscapes will provide content for a social media "blast" on town Facebooks etc. Ex. Autumnal facebook post describing proper disposal of leaf collection, and springtime post about proper lawn/fertilizer maintenance.          | Residents                                           | Greenscapes North Shore Coalition and Department of Public Works | - Number of views/ likes/ comments<br>- Resident testimonials before and after posting                              | 2                   |
| School Curriculae/ Programs | An elementary school will host Greenscapes "Keeping Water Clean" Presentation.                                                                                                                                                      | Residents                                           | Greenscapes North Shore Coalition                                | - Number of students/ teachers/ volunteers in attendance<br>- Subset of students evaluated before and after program | 2                   |

|                                         |                                                                                                                                                                                                                            |                                                           |                                                                  |                                                                                                                     |          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------|
| <b>Workshop</b>                         | Workshop and literature will go into greater detail, following the workshop regarding low impact development held in year one. City ordinances and associated incentives will be outlined.                                 | <b>Developers (Construction)</b>                          | Greenscapes North Shore Coalition and Department of Public Works | - Number of attendees                                                                                               | <b>3</b> |
| <b>Web Page</b>                         | Story Map will outline and describe different examples of existing low-impact-developments in the North Shore Community.                                                                                                   | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number of map views<br>- Resident testimonials on LID awareness                                                   | <b>3</b> |
| <b>Brochure/ Pamphlets</b>              | Pet Waste literature is available in two forms (one page info sheet or rack card) and can be redistributed as necessary.                                                                                                   | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | <b>3</b> |
| <b>Social Media Post</b>                | Greenscapes will provide content for a social media "blast" on town Facebooks etc. Ex. Autumnal facebook post describing proper disposal of leaf collection, and springtime post about proper lawn/fertilizer maintenance. | <b>Residents</b>                                          | Greenscapes North Shore Coalition and Department of Public Works | - Number of views/ likes/ comments<br>- Resident testimonials before and after posting                              | <b>3</b> |
| <b>School Curriculae/ Programs</b>      | An elementary school will host Greenscapes "Keeping Water Clean" Program.                                                                                                                                                  | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number of students/ teachers/ volunteers in attendance<br>- Subset of students evaluated before and after program | <b>3</b> |
|                                         |                                                                                                                                                                                                                            |                                                           |                                                                  |                                                                                                                     |          |
| <b>Meeting/ Presentation</b>            | Presentation will discuss proper "greenscaping" practices on a business/commercial level. Content will be targeted to property managers and will include sand/salt storage and landscape management.                       | <b>Businesses/ Institutions and Commercial Facilities</b> | Greenscapes North Shore Coalition and Department of Public Works | - Number of attendees                                                                                               | <b>4</b> |
| <b>Meeting/ Presentation</b>            | Presentation will discuss proper "greenscaping" practices on an industrial level. Content will be targeted to property managers and will include sand/salt storage and landscape management.                               | <b>Industrial Facilities</b>                              | Greenscapes North Shore Coalition and Department of Public Works | - Number of attendees                                                                                               | <b>4</b> |
| <b>Brochure/ Pamphlets</b>              | "What not to Flush" rack card will raise resident awareness of the damages of flushing things like wipes and grease in their toilets/sinks.                                                                                | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | <b>4</b> |
| <b>Brochure/ Pamphlets</b>              | Pet Waste literature is available in two forms (one page info sheet or rack card) and can be redistributed as necessary.                                                                                                   | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | <b>4</b> |
| <b>Social Media Post</b>                | Greenscapes will provide content for a social media "blast" on town Facebooks etc. Ex. Autumnal facebook post describing proper disposal of leaf collection, and springtime post about proper lawn/fertilizer maintenance. | <b>Residents</b>                                          | Greenscapes North Shore Coalition and Department of Public Works | - Number of views/ likes/ comments<br>- Resident testimonials before and after posting                              | <b>4</b> |
| <b>School Curriculae/ Programs</b>      | An elementary school will host Greenscapes "Keeping Water Clean" Program.                                                                                                                                                  | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number of students/ teachers/ volunteers in attendance<br>- Subset of students evaluated before and after program | <b>4</b> |
|                                         |                                                                                                                                                                                                                            |                                                           |                                                                  |                                                                                                                     |          |
| <b>Meeting/ Presentation</b>            | Greenscapes NS will conduct a "Greenscapes 101" presentation for residents. Presentation will discuss the importance of clean and plentiful water.                                                                         | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number of attendees<br>- Resident testimonials                                                                    | <b>5</b> |
| <b>Special Events/ Festivals/ Fairs</b> | Greenscapes representatives will attend a trade show expo, with the intent of sharing "Greenscaping" practices and the importance of LIDs with Landscapers and Developers.                                                 | <b>Developers (Construction)</b>                          | Greenscapes North Shore Coalition                                | - Number of materials distributed<br>- Number of contacts made<br>- Developer testimonials                          | <b>5</b> |
| <b>Brochure/ Pamphlets</b>              | Pet Waste literature is available in two forms (one page info sheet or rack card) and can be redistributed as necessary.                                                                                                   | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number distributed<br>- Resident testimonials                                                                     | <b>5</b> |
| <b>Social Media Post</b>                | Greenscapes will provide content for a social media "blast" on town Facebooks etc. Ex. Autumnal facebook post describing proper disposal of leaf collection, and springtime post about proper lawn/fertilizer maintenance. | <b>Residents</b>                                          | Greenscapes North Shore Coalition and Department of Public Works | - Number of views/ likes/ comments<br>- Resident testimonials before and after posting                              | <b>5</b> |
| <b>School Curriculae/ Programs</b>      | An elementary school will host Greenscapes "Keeping Water Clean" Program.                                                                                                                                                  | <b>Residents</b>                                          | Greenscapes North Shore Coalition                                | - Number of students/ teachers/ volunteers in attendance<br>- Subset of students evaluated before and after program | <b>5</b> |

\* All literature and media will be available online at [www.greenscapes.org](http://www.greenscapes.org) and can be shared with member communities at any time.

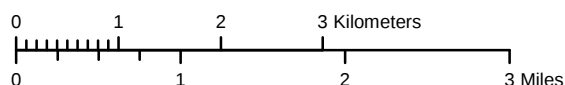
\*\* Community can decide how to address Greenscapes' involvement. They may choose to list GS as an external contractor, or can list whomever in their town GS communicated with for each BMP, respectively.



# NPDES Phase II Stormwater Program Automatically Designated MS4 Areas

## **North Reading MA**

Regulated Area:



Town Population: 14892  
Regulated Population: 14892  
(Populations estimated from 2010 Census)



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



**TOWN OF NORTH READING**  
*Massachusetts*

---

**Department of Public Works**

March 29, 2019

Michelle Vuto  
Stormwater & Construction Permits  
U.S. EPA Region 1  
5 Post Office Square-OEP06-4  
Boston, MA 02109-3912  
617-918-1222

Re: EPA Request for Additional Information for Town of North Reading, Notice of Intent MS4 Permit # MAR041215

ESA Eligibility: The Town of North Reading has determined discharge and discharge related activities and indicate that there would be "no affect" on listed species or critical habitat. If plans to install a structural BMP not identified in the NOI, the Town will to conduct an endangered species screening for the proposed site and contact the USFWS if the Town determines that the new activity "may affect" or is "not likely to adversely affect" listed species or critical habitat under the jurisdiction of the USFWS. See attached USFWS Consultation Letter.

IDDE MCM: The Town of North Reading will follow the dry weather screening permit requirements until/unless the city is granted relief of the sampling requirements by EPA in accordance with the permit part 2.3.4.7b.iv. The City will also conduct ongoing dry and wet weather screening (as necessary) upon completion of the IDDE program. All data shall be reported in each annual report.

For additional information, please contact me by mail, phone or email at [jklipfel@northreadingma.gov](mailto:jklipfel@northreadingma.gov).

Regards,

John Klipfel, P.E.  
Town Engineer



## United States Department of the Interior

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



In Reply Refer To:

August 07, 2018

Consultation Code: 05E1NE00-2018-SLI-2630

Event Code: 05E1NE00-2018-E-06145

Project Name: North Reading, MA MSW

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](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

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

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

Attachment(s):

- Official Species List

## Official Species List

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

This species list is provided by:

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

## Project Summary

Consultation Code: 05E1NE00-2018-SLI-2630

Event Code: 05E1NE00-2018-E-06145

Project Name: North Reading, MA MSW

Project Type: \*\* OTHER \*\*

Project Description: NPDES - MS4 Permit

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.58088766052039N71.08163098988973W>



Counties: Essex, MA | Middlesex, MA

## Endangered Species Act Species

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

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

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

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

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

## Mammals

| NAME                                                                                                                                                                                                                             | STATUS     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Northern Long-eared Bat <i>Myotis septentrionalis</i><br>No critical habitat has been designated for this species.<br>Species profile: <a href="https://ecos.fws.gov/ccp/species/9045">https://ecos.fws.gov/ccp/species/9045</a> | Threatened |

## Critical habitats

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

---