



6. Current permit coverage:    yes     no

- a) Has a prior NPDES permit (individual or general permit coverage) been granted for the discharge that is listed on the NOI?    yes     no     If Yes, permit number \_\_\_\_\_
- b) Is the facility covered by an individual NPDES permit for other discharges?    yes     no   
If yes, Permit Number: \_\_\_\_\_
- c) Is there a pending NPDES application on file with EPA for this discharge?    yes     no   
If yes, date of submittal: \_\_\_\_\_ and permit number, if available \_\_\_\_\_

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water.

**B. Map attached?  Discharge Information** (attach additional sheets as needed):

1. Name of receiving water into which discharge will occur: \_\_\_\_\_  
 Freshwater  Marine Water ;    State Water Quality Classification Class \_\_\_\_\_  
 Type of Receiving Water Body (e.g., stream, river, lake, reservoir, estuary, etc.) \_\_\_\_\_

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing to flow, treatment units, outfalls, and receiving water(s).

**Line drawing or flow diagram attached?**

3. Describe the discharge activities for which the owner/applicant is seeking coverage (e.g., building cooling, process line cooling, etc.) \_\_\_\_\_

4. Number of Outfalls \_\_\_\_\_ Latitude and Longitude to the nearest second for each Outfall. See EPA's siting tool at <https://www.epa.gov/toxics-release-inventory-tri-program/tri-data-and-tools>. Attach additional pages if necessary.

Outfall #	Latitude _____	Longitude _____
Outfall #	Latitude _____	Longitude _____
Outfall #	Latitude _____	Longitude _____

5. For each Outfall provide the following discharge information:

Outfall # \_\_\_\_\_

- a) Maximum Daily Flow \_\_\_\_\_MGD    Average Monthly Flow \_\_\_\_\_MGD  
**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**
- b) Maximum Daily Temperature \_\_\_\_\_°F    Average Monthly Temperature \_\_\_\_\_°F
- c) Maximum Monthly pH \_\_\_\_\_s.u.    Minimum Monthly pH \_\_\_\_\_s.u.
- d) Outfall's discharge is:    continuous     intermittent     seasonal

Outfall # \_\_\_\_\_

- a) Maximum Daily Flow \_\_\_\_\_MGD    Average Monthly Flow \_\_\_\_\_MGD  
**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**
- b) Maximum Daily Temperature \_\_\_\_\_°F    Average Monthly Temperature \_\_\_\_\_°F
- c) Maximum Monthly pH \_\_\_\_\_s.u.    Minimum Monthly pH \_\_\_\_\_s.u.
- d) Outfall's discharge is:    continuous     intermittent     seasonal

Outfall # \_\_\_\_\_

a) Maximum Daily Flow \_\_\_\_\_MGD      Average Monthly Flow \_\_\_\_\_MGD

**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**

b) Maximum Daily Temperature \_\_\_\_\_°F      Average Monthly Temperature \_\_\_\_\_°F

c) Maximum Monthly pH \_\_\_\_\_s.u.      Minimum Monthly pH \_\_\_\_\_s.u.

d) Outfall's discharge is:    continuous     intermittent     seasonal

6. Is the source of the NCCW potable water?    yes     no

If yes, EPA will calculate a Total Residual Chlorine effluent limit for your facility.

7. Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water \_\_\_\_\_MGD

Attach any calculation sheets used to support stream flow and/or dilution calculations.

**8. For facilities that discharge to Massachusetts surface waters:**

a) Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment B of the General Permit. Calculation attached?

b) Does the discharge occur in an Area of Critical Environmental Concern (ACEC)?    yes     no

If yes, provide the name of ACEC \_\_\_\_\_

c) Does the discharge occur to an Outstanding Resource Water (ORW)?    yes     no

If yes, enclose antidegradation waiver approval provided by MassDEP.

**Note: See Appendix 1 of the General Permit for more information on ACEC.**

**C. Chemical Additives**

1. Are any non-toxic neutralization and/or dechlorination chemicals used in the discharge(s)?    yes     no

2. If yes, attach a list of each chemical used and include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis, as well as the maximum and average daily expected concentrations (mg/L) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC<sub>50</sub> in percent for typically acceptable aquatic organism).

3. Was this list submitted with the facility's 2014 NCCWGP NOI?    yes     no

**D. NCCW Source Water Information**

1. State the source of the NCCW (e.g., municipal water supply, private well, surface water withdrawal, etc.).

Source \_\_\_\_\_      Name of Source Water \_\_\_\_\_

2. Is the source water registered/permitted under MA Water Management Act or NHDES User Registration Rule (ENV WQ 2202)?    yes     no     If yes, registration number \_\_\_\_\_

3. If the source water is groundwater (non-municipal well water), see Appendix 9 of the General Permit and submit effluent (and receiving water hardness) test results, as required in Part 5.4 of the General Permit.

**Test results attached?**

4. Does the facility use both a primary and backup source of NCCW?    yes     no     If yes, **attach information** that identifies and describes the primary and backup sources of NCCW and how often any backup supply was used in the past five years.

**E. Best Technology Available for Cooling Water Intake Structures (CWISs)**

If the facility’s non-contact cooling water discharge is covered by this General Permit and the facility **withdraws water from a surface water**, it is subject to the BTA requirements at Part 4.2 of the General Permit.

1. Are you subject to the BTA requirements of the General Permit?      yes       no 
  - a) If no, explain \_\_\_\_\_ and skip to F.
  - b) If yes, submit a facility-specific BTA description that accurately describes the facility’s operations and practices, including, but not limited to, the measures described in Part 5.5 of the General Permit. For additional information and guidance, see Section IV of the Fact Sheet.

Include in your description:

- a) Measures to meet the General Permit Part 4.2.1 general BTA requirements, including documentation that describes the facility’s monitoring program for impinged fish and/or invertebrates; or the required alternative monitoring plan frequency and/or protocol.
- b) The attributes of the current CWIS.
- c) The design measures of the CWIS.
- d) The operational measures of the CWIS.
- e) The historical occurrence of impinged fish for the past five years.
- f) If applicable, a demonstration that the facility’s intake rate is commensurate with a closed-cycle recirculation system.
- g) Other components to reduce impingement and/or entrainment of aquatic life.

2. Provide the following information for each CWIS to support your attached facility-specific BTA description:

- a) The design capacity of the of the CWIS \_\_\_\_\_MGD
- b) Maximum monthly average intake of the CWIS during the previous five years \_\_\_\_\_MGD
- c) The month and year in which this flow reported in 2.b. occurred \_\_\_\_\_
- d) The maximum through-screen design intake velocity \_\_\_\_\_feet/second (fps)

3. For facilities where the CWIS is located on a freshwater river or stream, provide the following information:

- a) The source water’s annual mean flow in MGD as available from USGS or other appropriate source \_\_\_\_\_MGD
- b) The design intake flow as a % of the source water’s annual mean flow \_\_\_\_\_%  
Attach calculations if equal to or less than 5% of annual mean flow.
- c) The source water’s 7Q10 \_\_\_\_\_MGD
- d) The design intake flow as a percent of the source water’s 7Q10 \_\_\_\_\_%

4. Provide a map showing the location of each cooling water intake structure; NCCW Outfall(s) and CWIS features referred to in the BTA description. **Map attached?**

**F. Endangered Species Act Eligibility Information**

If your facility is listed in Table A as one of the 37 facilities covered under the 2014 NCCW GP, check this box.   
Your ESA consultation responsibilities have been satisfied by EPA. Proceed to Part G.

If your facility is not included as one of the 37 facilities covered under the 2014 NCCW GP, complete this Part.

Using the instructions in Appendix 2, Parts B(1) and B(2) of the NCCW GP, which of the following criteria apply to your facility?

United States Fish and Wildlife Service (USFWS) Criteria: A  B  C

National Oceanic and Atmospheric Administration Fisheries Service (NOAA Fisheries) Criteria: A  B  C

1. If you selected USFWS criterion B, has consultation with the USFWS been completed? yes  no   
If you selected NOAA Fisheries criterion B, has consultation with NOAA Fisheries been completed?  
yes  no

2. If consultation with USFWS and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is “not likely to adversely affect” listed species or critical habitat received?  
USFWS yes  no  N/A  NOAA Fisheries yes  no  N/A

3. Attach documentation of ESA eligibility for USFWS and NOAA Fisheries as required at Appendix 2, Part C. of the General Permit. **Documentation attached?** USFWS  NOAA Fisheries

4. Please indicate if your facility **directly intakes water for non-contact cooling from, or discharges any NCCW effluent to**, any of the following waterbodies:

- Merrimack River
- Connecticut River
- Westfield River
- Deerfield River
- Piscataqua River
- Salmon Falls River
- Cocheco River
- Taunton River

EPA will consult with NOAA Fisheries on any cooling water intakes or discharges covered under this permit in areas (in the above waterbodies) that overlap with the presence of shortnose sturgeon (endangered) and Atlantic sturgeon (threatened/endangered).

Please indicate if your facility **directly intakes water for non-contact cooling from, or discharges non-contact cooling water effluent to**, the Connecticut River Watershed. EPA will consult with the U.S Fish and Wildlife Service on cooling water intakes and discharges covered under this permit in areas of the Connecticut River Watershed that overlap with the presence of the dwarf wedgemussel (endangered).  
yes  no

**G. National Historic Properties Act Eligibility**

1. Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? yes  no
2. Have any State or Tribal Historic Preservation Officers been consulted in this determination? yes  no   
If yes, attach the results of the consultation(s).
3. Which of the three National Historic Preservation Act scenarios listed in Appendix 3, Section C has the facility met?  
 1    2    3

**H. Supplemental Information**

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any analytical data used to support the application. Attach any certification(s) required by the General Permit.

**I. Signature Requirements**

The NOI must be signed by the operator in accordance with the signatory requirements of 40 CFR§ 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) 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.

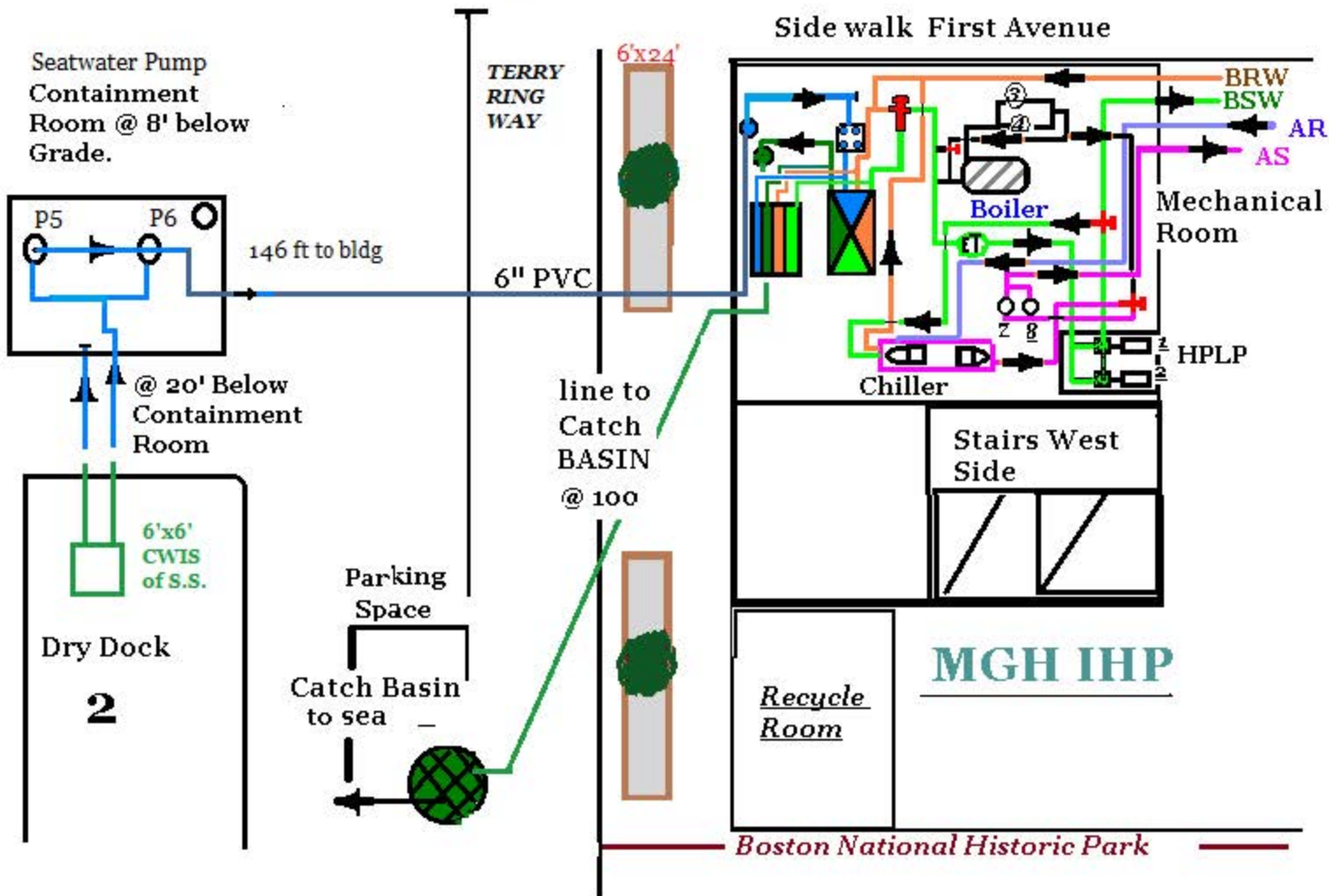
Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name and Title \_\_\_\_\_

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



## APPENDIX 2 Endangered Species Act Review and Requirements

### A. Background

Section 7(a) of the Endangered Species Act of 1973, as amended (ESA), grants authority and imposes requirements on Federal agencies regarding endangered or threatened species of fish, wildlife, or plants (listed species) and habitat of such species that has been designated as critical (a “critical habitat”). Section 7(a)(2) of the ESA requires every Federal agency, in consultation with and with the assistance of the Secretary of Interior, to ensure that any action it authorizes, funds or carries out, in the United States or upon the high seas, is not likely to jeopardize the continued existence of any listed species or result in the destruction or adverse modification of critical habitat. The United States Fish and Wildlife Service (USFWS) administers § 7 consultations for freshwater species. The National Oceanic and Atmospheric Administration Fisheries Service (NOAA Fisheries) administers Section 7 consultations for marine and anadromous species.

In order to meet its obligations under the Clean Water Act and the ESA, and to promote the goals of those Acts, the Environmental Protection Agency (EPA) is seeking to ensure the activities regulated by the Non-Contact Cooling Water General Permit (NCCW GP) do not adversely affect endangered and threatened species or critical habitat. EPA has delineated the action areas of the 37 facilities that were covered under the 2014 GP, which expired on November 4, 2019, (the “expired” General Permit). These facilities are expected to seek coverage under this proposed GP. EPA conducted the appropriate analysis and completed ESA section 7 informal consultation with the USFWS and NOAA Fisheries, where appropriate, for these 37 facilities<sup>1</sup>. Therefore, if a facility discharge was covered under the 2014 NCCW GP, no further action is needed regarding ESA requirements.

Facility operators applying for permit coverage that were not covered under the 2014 GP, deemed “New Applicants” have not undergone ESA analysis and must assess the impacts of their non-contact cooling water discharges and discharge-related activities on federally listed endangered and threatened species and designated critical habitat to ensure that ESA requirements are met. For the purposes of this appendix, “discharge related activities” include: activities which cause, contribute to, or result in point source non-contact cooling water discharges; and measures including the siting, construction and operational procedures to control, reduce or prevent water pollution. “Intake related activities” include: activities which result in cooling water intake from a surface water, including cooling water intake structures (CWISs) and operational controls and maintenance.

Prior to obtaining general permit coverage, New Applicants must meet the ESA eligibility provisions of this permit by following the steps in this appendix. EPA strongly encourages New Applicants to begin this process at the earliest possible stage to ensure

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<sup>1</sup> See the NCCW GP’s supporting Fact Sheet, Section V.E. The list of the 37 Facilities is identified in Appendix 4, Table A.



the notification requirements for general permit coverage are complete upon Notice of Intent (NOI) submission.

New Applicants seeking coverage also have an independent obligation regarding ESA to ensure that their activities do not result in any prohibited “take” of listed species. The term “take” is used in the ESA to mean harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in any such conduct. “Harm” is further defined to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns including breeding, feeding, or sheltering. “Harass” is defined as intentional or negligent actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering.

Many of the measures required in the NCCW GP and this appendix to protect species may also assist in ensuring that New Applicant’s discharges, as well as 2014 permit covered facilities’ activities, do not result in a prohibited take of species in violation of section 9 of the ESA. If the New Applicant has plans or activities in an area where endangered and threatened species are located, in certain cases they may wish to ensure that they are protected from potential take liability under ESA section 9<sup>2</sup> by obtaining an ESA section 10 permit or by requesting formal consultation under ESA section 7. New Applicants that are unsure whether to pursue a section 10 permit or a section 7 consultation for takings protection should contact the appropriate USFWS office or NOAA Fisheries, jointly referred to as the Services.

The federally protected ESA species found in Massachusetts and New Hampshire are listed in Table 1.

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<sup>2</sup> Section 9 of the ESA prohibits any person from “taking” a listed species unless: (1) the taking is authorized through an “incidental take statement” as part of completion of formal consultation according to ESA section 7; (2) where an incidental take permit is obtained under ESA section 10 (which requires the development of a habitat conversion plan; or (3) where otherwise authorized or exempted under the ESA. This prohibition applies to all entities including private individuals, businesses, and governments.

**Table 1.** A list of the eighteen federally protected species in Massachusetts and twelve federally protected species in New Hampshire.

Massachusetts (18)	New Hampshire (12)
Dwarf wedgemussel ( <i>Alasmidonta heterodon</i> )	Dwarf wedgemussel ( <i>Alasmidonta heterodon</i> )
Northeastern bulrush ( <i>Scirpus ancistrochaetus</i> )	Northeastern bulrush ( <i>Scirpus ancistrochaetus</i> )
American Chaffseed ( <i>Schwalbea americana</i> )	Jesup’s milk-vetch ( <i>Astragalus robbinsii</i> var. <i>jesupii</i> )
Sandplain gerardia ( <i>Agalinis acuta</i> )	Piping plover ( <i>Charadrius melodus</i> )
Piping plover ( <i>Charadrius melodus</i> )	Red Knot ( <i>Calidris canutus rufa</i> )
Red Knot ( <i>Calidris canutus rufa</i> )	Roseate tern ( <i>Sterna dougallii dougallii</i> )
Roseate tern ( <i>Sterna dougallii dougallii</i> )	Karner blue butterfly ( <i>Lycaeides melissa samuelis</i> )
Northern red-bellied cooter ( <i>Pseudemys rubriventis</i> )	Canada lynx ( <i>Lynx canadensis</i> )
Bog turtle ( <i>Glyptemys muhlenbergii</i> )	Small whorled pogonia ( <i>Isotria medeoloides</i> )
Plymouth Redbelly Turtle ( <i>Pseudemys rubriventis bangsi</i> )	Northern long-eared bat ( <i>Myotis septentrionalis</i> )
Small whorled pogonia ( <i>Isotria medeoloides</i> )	Atlantic sturgeon ( <i>Acipenser oxyrinchus oxyrinchus</i> )*
Puritan tiger beetle ( <i>Cicindela puritana</i> )	Shortnose sturgeon ( <i>Acipenser brevirostrum</i> )*
American burying beetle ( <i>Nicrophorus americanus</i> )	
Northeastern beach tiger beetle ( <i>Cicindela dorsalis</i> )	
Rusty patched bumble bee ( <i>Bombus affinis</i> )	
Northern long-eared bat ( <i>Myotis septentrionalis</i> )	
Atlantic sturgeon ( <i>Acipenser oxyrinchus oxyrinchus</i> )*	
Shortnose sturgeon ( <i>Acipenser brevirostrum</i> )*	

\*These species are listed under the jurisdiction of NOAA Fisheries, all others are listed under the jurisdiction of USFWS.

In addition, Table 2 contains the federally protected marine species that are present in the near coastal waters of Massachusetts and New Hampshire. These species are listed under the jurisdiction of NOAA Fisheries:

**Table 2.** The list of the four federally protected marine reptile and two federally protected marine mammal species found in the near coastal waters of Massachusetts and New Hampshire.

Marine Reptiles (4)	Marine Mammals (2)
Leatherback sea turtle ( <i>Dermochelys coriacea</i> )	North Atlantic right whale ( <i>Eubalaena glacialis</i> )
Loggerhead sea turtle ( <i>Caretta caretta</i> )	Fin whale ( <i>Balaenoptera physalus</i> )
Kemp’s ridley sea turtle ( <i>Lepidochelys kempii</i> )	
Green sea turtle ( <i>Chelonia mydas</i> )	

Of the species listed in Tables 1 and 2 above, the presence of a number of plants and animals, based on their terrestrial, semi-aquatic or near shore beach habitats, are not expected to overlap with the effluent discharges expected to be covered under the NCCW GP. Table 3 lists the species whose habitats do not overlap with the action areas of the expected discharges. EPA has

determined that there are no plausible routes of effects to the species in Table 3 from the discharge. Therefore, EPA has made the determination of “No Effect” for the 17 federally protected species listed in Table 3, as well as their prey. No ESA consultation with the Services is required for these species.

**Table 3.** The seventeen species whose habitats are not expected to overlap with the action areas of the intakes/outfalls covered under the NCCW GP.

Northeastern bulrush ( <i>Scirpus ancistrochaetus</i> )
American Chaffseed ( <i>Schwalbea americana</i> )
Sandplain gerardia ( <i>Agalinis acuta</i> )
Jesup’s milk-vetch ( <i>Astragalus robbinsii</i> var. <i>jesupii</i> )
Piping plover ( <i>Charadrius melodus</i> )
Red Knot ( <i>Calidris canutus rufa</i> )
Roseate tern ( <i>Sterna dougallii dougallii</i> )
Northern red-bellied cooter ( <i>Pseudemys rubriventis</i> )
Bog turtle ( <i>Glyptemys muhlenbergii</i> )
Plymouth Redbelly Turtle ( <i>Pseudemys rubriventis bangsi</i> )
Karner blue butterfly ( <i>Lycaeides melissa samuelis</i> )
Canada lynx ( <i>Lynx canadensis</i> )
Small whorled pogonia ( <i>Isotria medeoloides</i> )
Puritan tiger beetle ( <i>Cicindela puritana</i> )
American burying beetle ( <i>Nicrophorus americanus</i> )
Northeastern beach tiger beetle ( <i>Cicindela dorsalis</i> )
Rusty patched bumble bee ( <i>Bombus affinis</i> )

Any New Applicant seeking coverage under the NCCW GP must consult with the Services. EPA may designate New Applicants as non-Federal representatives for the general permit for the purpose of carrying out formal or informal ESA consultation with the Services. By terms of this permit, EPA has automatically designated New Applicant operators as non- Federal representatives for the purpose of conducting formal or informal consultations. (See 50 CFR §402.08 and §402.13).

When listed species are present, permit coverage will only be available if EPA determines, or the New Applicant determines and EPA concurs, that the discharge and related activities will have “no effect” on the listed species or critical habitat (no plausible routes of effects to the species), or the applicant determines that the discharge and related activities are “not likely to adversely affect” listed species or critical habitat. Informal ESA section 7 consultation with the Services has been concluded when the appropriate Service provides written concurrence that the non-contact cooling water intake, discharge and related activities from the New Applicant facility are “not likely to adversely affect” an endangered or threatened species or critical habitat that is expected to overlap with the action area of the facility.

Before submitting a notice of intent (NOI) for coverage under this permit, New Applicants must determine whether they meet the ESA eligibility criteria by following the steps in Sections B and C of this Appendix. New Applicants that cannot meet the eligibility criteria in Sections B and C must apply for an individual permit.

## B. ESA Eligibility Criteria

### 1) ESA Eligibility Criteria for the U.S. Fish and Wildlife Service

The USFWS ESA eligibility requirements of this permit relating to the dwarf wedgemussel (DWM) may be satisfied by documenting that one of the following criteria has been met:

USFWS Criterion A: The listed species (DWM) or critical habitat (if applicable) is not in proximity to the NCCW facility “action area” (intake(s)/discharge(s) and related activities). No ESA consultation with USFWS is required.

USFWS Criterion B: Formal or informal consultation with USFWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by USFWS on a finding that the NCCW “action area” (intake(s)/discharge(s) and related activities) is “not likely to adversely affect” the DWM or critical habitat, if applicable (informal consultation).

USFWS Criterion C: Using the best scientific and commercial data available, the effect of the NCCW “action area” (intake(s)/discharge(s) and related activities) on the DWM or critical habitat (if applicable) have been evaluated. Based on those evaluations, a determination is made by EPA, or by the New Applicant and affirmed by EPA, that the NCCW “action area” (intake(s)/discharge(s) and related activities) presents no plausible routes of effect to the DWM and will have “no effect” on the DWM (or designated critical habitat, if applicable) under the jurisdiction of the USFWS.

### 2) ESA Eligibility Criteria for NOAA Fisheries

The NOAA Fisheries ESA eligibility requirements of this permit relating to the protected sturgeon, sea turtle and whale species (see Tables 1 and 2) may be satisfied by documenting that one of the following criteria has been met:

Criterion A: The NOAA Fisheries listed species or critical habitat is not in proximity to the NCCW facility “action area” (intake(s)/discharge(s) and related activities). No ESA consultation with NOAA Fisheries is required.

Criterion B: Formal or informal consultation with NOAA Fisheries under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by NOAA Fisheries on a finding that the NCCW “action area” (intake(s)/discharge(s) and related activities) is “not likely to adversely affect” listed species or critical habitat (informal consultation).

Criterion C: Using the best scientific and commercial data available, the effect of the NCCW “action area” (intake(s)/discharge(s) and related activities) on listed

species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the New Applicant and affirmed by EPA, that the NCCW “action area” (intake(s)/discharge(s) and related activities) presents no plausible routes of effect to the species and will have “no effect” on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of NOAA Fisheries.

### **C. Steps to Determine if the USFWS ESA Eligibility Criteria Can Be Met**

To determine eligibility, the New Applicant must assess the potential effects of their NCCW intake(s)/discharge(s) and related activities on listed species or critical habitat under the jurisdiction of the USFWS, **prior to** completing and submitting a Notice of Intent (NOI). New Applicants must follow the steps outlined below and document the results of their eligibility determination.

The USFWS Information, Planning, and Conservation (IPaC) online system must be used to produce an official species list of federally listed species and designated critical habitats within the action area of the intake(s)/discharge(s) and related activities. Further information on IPaC is available on the Fish and Wildlife Services website at <http://ecos.fws.gov/ipac/>. Instructions for using IPaC are available on the website under “Helpful Videos”.

#### **Step 1 – Determine if you meet USFWS Criterion A:**

You can certify eligibility, according to USFWS Criterion A, for coverage by this permit if, upon completion of the IPaC online system process, you printed and saved the official species list, which documents that federally listed species or designated critical habitats are not present in the action area.

*If you have met USFWS Criterion A skip to Step # 4.*

*If you have not met USFWS Criterion A, go to Step # 2.*

#### **Step 2 – Determine if you meet USFWS Criteria B**

You can certify eligibility according to USFWS Criteria B for coverage by this permit if you answer “Yes” to **all** of the following questions:

- 1) Does your action area overlap with the dwarf wedgemussel ? (IPaC system must be used to answer this question)
- 2) Did your assessment determine that the NCCW intake(s)/discharge(s) and related activities “may affect” (formal consultation) or “may affect, but are not likely to adversely affect” (informal consultation) the DWM (or critical habitat, if applicable)?
- 3) Did you contact the USFWS to complete a section 7 consultation, resulting in either a “no jeopardy” opinion by the USFWS (for formal consultation) or concurrence by the USFWS that your discharge and related activities would be “not likely to adversely affect” the DWM or critical habitat, if applicable (for informal consultation)?

- 4) Do you agree to implement all measures upon which the formal consultation was conditioned? Use the guidance below Step 3 to understand effects determination and to answer these questions.

*If you answered “Yes” to all four questions above, you have met eligibility USFWS Criteria B. Skip to Step 4.*

*If you answered “No” to any of the four questions above, go to Step 3.*

### **Step 3 – Determine if you meet USFWS Criterion C**

USFWS Criterion C: You can certify eligibility according to USFWS Criterion C for coverage by this permit if you answer “Yes” to **both** of the following questions:

- 1) Does your action area overlap with the dwarf wedgemussel?
- 2) Did the assessment of your action area (intake(s)/discharge(s) and related activities) indicate that the Facility’s intake(s)/discharge(s) activities present no plausible routes of effects to the DWM, resulting in “no effect” on the DWM (or critical habitat, if applicable) and EPA provided concurrence with your determination?

Use the guidance below to understand effects determination and to answer these questions.

*If you answered “Yes” to **both** questions above, you have met eligibility USFWS Criterion C. Go to Step 4.*

*If you answered Yes to Question 1 and “No” to Question 2 above, you are not eligible for coverage by this permit. You must submit an application for an individual permit for your NCCW discharges. (See 40 CFR 122.21).*

### **Step 4 - Document results of the Eligibility Determination**

Once the USFWS ESA eligibility requirements have been met, you shall include documentation of USFWS ESA eligibility in your NOI. Documentation for the various eligibility criteria are as follows:

- USFWS Criterion A: A copy of the IPaC generated official species list letter indicating that no listed species or critical habitat is present within your action area. You must also include a statement that supports the reasoning behind the dimensions of your action area, based on your facility’s intake(s)/discharge(s) to determine that no listed species or critical habitat are in proximity to your NCCW surface water intakes and discharges action area.
- USFWS Criterion B: A dated copy of the USFWS finding of “no jeopardy” (for formal consultation) or “not likely to adversely affect” (for informal consultation) regarding the ESA section 7 consultation.
- USFWS Criterion C: A copy of the IPaC generated official species list letter

indicating that the only listed species in your action area is the dwarf wedgemussel, along with a dated copy of the EPA concurrence with the operator’s determination that the NCCW intake(s)/discharge(s) and related activities present no plausible routes of effects to the DWM and they will have “no effect” on listed species or critical habitat (if applicable).

#### **D. Steps to Determine if the NOAA Fisheries Eligibility Criteria Can Be Met**

To determine eligibility, the New Applicant must also assess the potential effects of their NCCW intake(s)/discharge(s) and related activities on listed species or critical habitat under the jurisdiction of NOAA Fisheries, **prior to** completing and submitting a Notice of Intent (NOI). New Applicants must follow the steps outlined below and document the results of their eligibility determination.

The NOAA Fisheries ESA Mapper online system must be used to produce documentation of the species of federally listed species or designated critical habitats within the action area of the intake(s)/discharge(s) and related activities. Further information on the NOAA Fisheries ESA Mapper is available on the NOAA Fisheries website at <https://www.fisheries.noaa.gov/resource/map/greater-atlantic-region-esa-section-7-mapper>. Instructions for using the ESA Mapper are found on the website’s “User Guide”.

Repeat Steps 1 – 4, above, to satisfy ESA consultation requirements for protected species under the jurisdiction of NOAA Fisheries. Follow Steps 1 - 4, substituting the NOAA Fisheries ESA Mapper tool for the IPaC system. The NOAA Fisheries protected species that must be evaluated are Atlantic sturgeon, Atlantic sturgeon critical habitat, shortnose sturgeon, leatherback, loggerhead, Kemps ridley and green sea turtles, fin whales, North Atlantic right whales and North Atlantic right whale critical habitat.

#### **E. USFWS / NOAA Fisheries Effects Determination Guidance:**

“Discharge-related activities” include: activities which cause, contribute to, or result in point source non-contact cooling water discharges; and measures including the siting, construction and operational procedures to control, reduce or prevent water pollution. “Intake-related activities” include: activities which result in cooling water intake from a surface water, including CWISs and operational controls. Please be aware that no protection from incidental take liability is provided under this criterion.

The scope of effects to consider will vary with each facility. If you are having difficulty in determining whether your discharge is likely to cause adverse effects to a listed species or critical habitat, you are advised to contact the USFWS for dwarf wedgemussel assistance and contact NOAA Fisheries for sturgeon, sea turtle and whale assistance. In order to complete the determination of effects, it may be necessary to follow the formal or informal consultation procedures in section 7 of the ESA.

If the determination is “may adversely affect” or “not likely to adversely affect” you must contact the USFWS or NOAA Fisheries (depending on the species) to discuss your findings and consider measures you could implement to avoid, eliminate, or minimize adverse effects. If you and the USFWS and/or NOAA Fisheries reach agreement on

measures to avoid adverse effects, you are eligible under USFWS Criterion B. Any terms and/or conditions to protect listed species and critical habitat that you relied on in order to complete an adverse effects determination, must be attached to your NOI.

Effects from NCCW discharges and/or intakes and related activities which could pose an adverse effect include:

- *Hydrological:* NCCW discharges may induce temperature or pH changes in receiving waters. These effects will vary with the volume of NCCW discharged and the volume and condition of the receiving water. Where a discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- *Harm:* CWISs have the potential to impinge or entrain fish or aquatic invertebrates, including endangered species and their forage species.
- *Toxicity:* In some cases, chlorine or metals in the NCCW may have adverse effects on listed species.

**If endangered species issues cannot be resolved:** If you cannot reach agreement with the USFWS and/or NOAA Fisheries on measures to avoid or eliminate adverse effects, you are not eligible for coverage under this permit. You must seek coverage under an individual permit.

#### **F. Submittal of Notice of Intent**

Once the ESA eligibility requirements of Parts B and C of this Appendix have been met, you may submit the Notice of Intent. Signature and submittal of the NOI constitutes your certification, under penalty of law, of eligibility for permit coverage under 40 CFR 122.21.

#### **G. Duty to Implement Terms and Conditions upon which Eligibility was Determined**

You must comply with any terms and conditions imposed under the ESA eligibility requirements to ensure that your non-contact cooling water discharge/intake and related activities do not pose adverse effects or jeopardy to listed species and/or critical habitat. If the ESA eligibility requirements of this permit cannot be met, then you may not receive coverage under this permit and must apply for an individual permit.

#### **H. Services Information**

United States Fish and Wildlife Service Office:

National websites for Endangered Species Information: Endangered

Species home page: <http://endangered.fws.gov>

ESA Section 7 Consultations: <https://www.fws.gov/service/esa-section-7-consultation>

Information, Planning, and Conservation System (IPAC): <http://ecos.fws.gov/ipac/>



U.S. FWS – Region 5 Supervisor  
New England Field Office  
U.S. Fish and Wildlife Service 70  
Commercial Street, Suite 300  
Concord, NH 03301  
<https://www.fws.gov/office/new-england-ecological-services>

NOAA Fisheries Greater Atlantic Regional Fisheries Office:

National ESA Website: [http://www.nmfs.noaa.gov/pr/species/esa\\_species.htm](http://www.nmfs.noaa.gov/pr/species/esa_species.htm)

NOAA Fisheries Greater Atlantic Regional Fisheries Office  
Protected Resource Division Attn: Endangered Species Coordinator  
55 Great Republic Dr,  
Gloucester, MA 01930

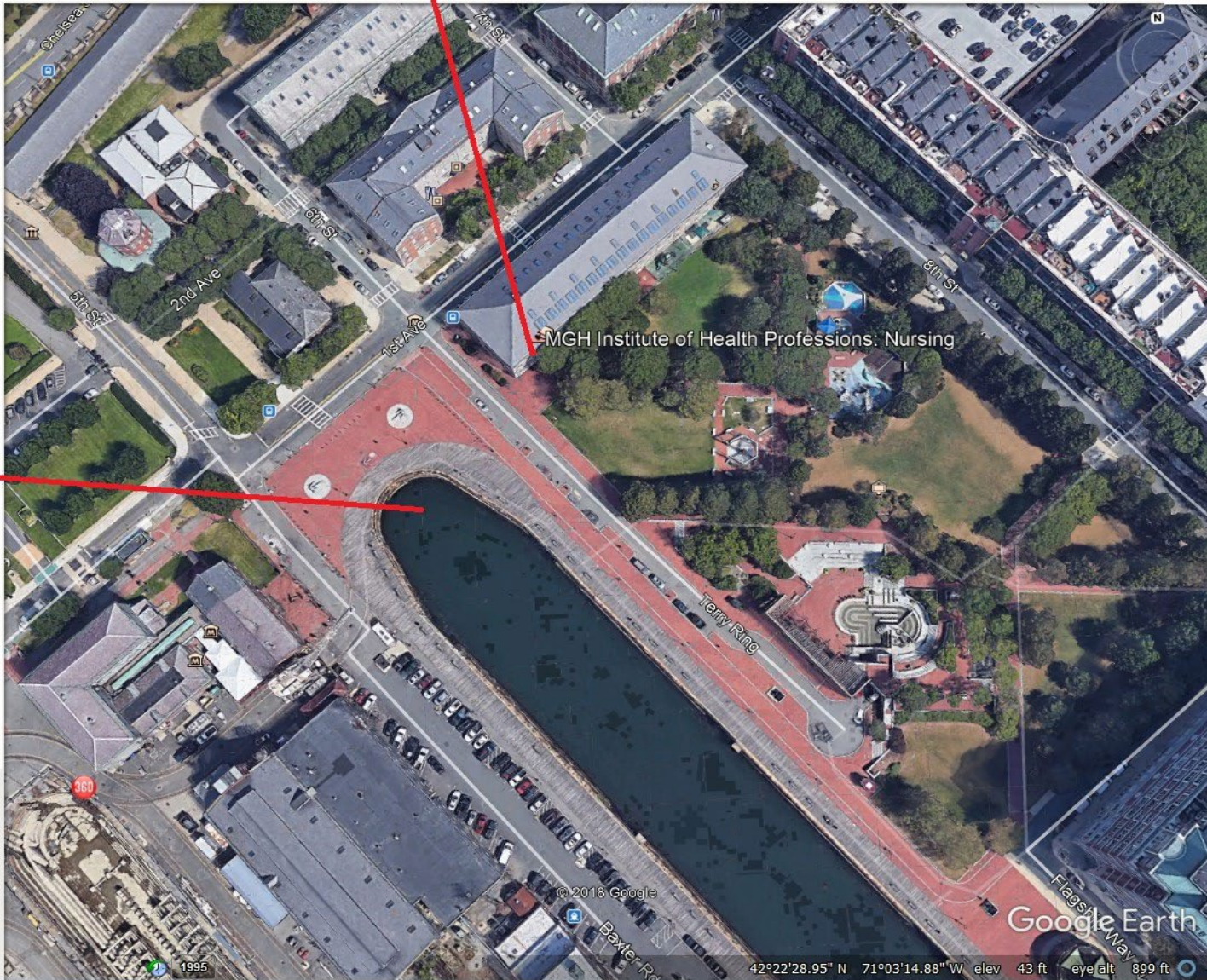
NOAA Fisheries ESA Mapper:  
<https://www.fisheries.noaa.gov/resource/map/greater-atlantic-region-esa-section-7-mapper>

**Table A.** List of the 37 Facilities covered under the 2014 NCCW GP

Town	State	Facility Name	Permit Number
Milford	MA	Ardagh Glass Inc.	MAG250911
Billerica	MA	Baker Commodities, Inc.	MAG250026
Millbury	MA	Barrday Composite Solutions	MAG250969
Florence	MA	BI-QEM, Inc.	MAG250960
Beverly	MA	Communications and Power Industries LLC	MAG250520
West Brookfield	MA	Concrete Block Insulating Systems, Inc.	MAG250121
Millbury	MA	County Heat Treat	MAG250014
Shrewsbury	MA	Eastern Point Condominiums	MAG250018
Fall River	MA	Fall River Tool and Die Company, Inc.	MAG250017
Acton	MA	Haartz Corporation	MAG250006
Plymouth	MA	Harborview Place	MAG250020
Plymouth	MA	Harborview Place	MAG250984
Taunton	MA	Harodite Industries	MAG250032
Canton	MA	Harrison Specialty Co.	MAG250554
Holyoke	MA	Hazen Paper Company - Holyoke	MAG250872
Holyoke	MA	Hazen Paper Company - Housatonic	MAG250973
Merrimack	NH	JCI Jones Chemicals, Inc.	NHG250465
Ashland	MA	Kidde-Fenwal Inc.	MAG250946
Cambridge	MA	Massachusetts Institute of Technology	MAG250971
Everett	MA	MBTA Everett Maintenance Facility	MAG250005
Boston	MA	MGH Institute of Health Professions	MAG250019
Great Barrington	MA	Neenah Paper FR LLC	MAG250973

Dedham	MA	Norfolk & Dedham Mutual Fire Insurance Co.	MAG250034
Brentwood	NH	Northern Elastomeric, Inc.	NHG250503
Norwood	MA	Norwood Theater	MAG250981
Sturbridge	MA	OFS Fitel, LLC	MAG250003
Winchester	MA	Parkview Condominiums	MAG250009
Westfield	MA	Prolamina (Jen-Coat)	MAG250856
Northbridge	MA	Riverdale Mills Corporation	MAG250279
Merrimack	NH	Saint-Gobain Performance Plastics	NHG250392
Fitchburg	MA	Simonds International	MAG250022
Chartley	MA	Sinclair Manufacturing Company	MAG250030
Chicopee	MA	Solenis LLC	MAG250848
Williamstown	MA	Steinerfilm, Inc.	MAG250037
Boston	MA	Union Wharf Condominium Trust	MAG250977
Marlborough	MA	Wachusett Aqueduct Pumping Station Geothermal System	MAG250985
Weston	MA	Weston Corporate Center	MAG250979

M&H INSTITUTE OF HEALTH PROFESSIONS 36 FIRST AVENUE CHARLESTOWN NAVY YARD BOSTON, MA 02129



FALL OUT LOCATION

MGH Institute of Health Professions: Nursing

Terry Ring

Google Earth

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42°22'28.95" N 71°03'14.88" W elev 43 ft eye alt 899 ft