

6. Current permit coverage: 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
- b) Is the facility covered by an individual NPDES permit for other discharges? yes no
If yes, Permit Number: MAG910200
- c) Is there a pending NPDES application on file with EPA for this discharge? yes no

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water.
Map attached? Yes. See Figure 1

B. Discharge Information

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

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? Yes. See Figure 2

3. Describe the discharge activities for which the owner/applicant is seeking coverage (e.g., building cooling, process line cooling, etc.) Cooling of electric generators during operation, typically 4 hours max, 20 days per year

4. Number of Outfalls: 1

Outfall # 1 Latitude: 42° 41' 53.45" N Longitude: 70° 52' 09.19" W

5. For each Outfall provide the following discharge information:

Outfall # 1

The plant only operates for short durations during times of peak demand to supplement the power grid. Based on data for the previous 13 months, the plant operated only 21 days, and the **maximum time of operation was 4 hours, 30 minutes.**

The pumps for the cooling system are capable of moving up to 3,000 gallons per minute (gpm) of water through the system. The water is taken from the cooling pond, circulated around the engines, and returned to the cooling pond. On the maximum day of operation in the previous 13 months, we estimate that 810,000 gallons of water was pumped by the system. Summing up the daily flow and averaging over 13 months, the monthly average flow through the system was approximately 790,000 gallons.

The flow through the system does NOT represent the discharge to the receiving water body. The discharge is dependent on the level of the pond which is influenced primarily by the recharge rate from groundwater inflow and surface runoff. From September 3, 2018 through September 14, 2020, Ipswich personnel estimated the rate of discharge from the cooling pond to the Egypt River at the location of the standpipe. Once a day, personnel estimated the flow rate by recording the time it took to fill a 2-gallon bucket from the flow into the discharge piping. Except when the pond was frozen, the pond was discharging on a daily basis. **The estimated discharge flow rate ranged from 2 to 41.8 gpm, with an average rate of 15 gpm (21,600 gallons per day).** A graph of the discharge flow rate

estimated by Ipswich personnel is provided as Attachment A.

Temperature data is not currently available for the discharge but is dependent on the surface water temperature of the cooling pond. The cooling water system was last operated during the week of January 20, 2025. At the start of operation, the water temperature at the discharge location was 33.3°F (air temperature was 18°F). At the end of operation, the water temperature at the discharge was 32.4°F (air temperature was 12°F). The water is pumped from the cooling pond, circulated around the engines and discharged into the north end of the cooling pond. Water within the pond can then be pumped through two spray arms back into the pond to dissipate heat as needed. Flow into the standpipe at the south end of the pond can be stopped to prevent discharge while the cooling system is operating.

Data for pH is not available at the discharge. However, pH data is collected during the monthly compliance sampling for the groundwater infiltrating into the basement of the Power Plant and the treated effluent under the Discharge and Remediation General Permit requirements. Since July 2023, the recorded pH values ranged between 6.75 and 8.01 S.U.

6. Is the source of the NCCW potable water? No

7. Provide the reported or calculated seven day-ten-year low flow(7Q10) of the receiving water 0.0776 MGD

During the 2020 MSGP permitting process, MassDEP provided a 7Q10 of 0.12 cubic feet per second (cu ft/s) for the Egypt River. Flow depends on the discharge from both the Bull Brook and the Dow Brook reservoirs.

8. For facilities that discharge to Massachusetts surface waters:

a) Engineering Calculation of Surface Water Temperature Rise: Not Applicable.

The cooling water is discharged into a cooling pond with a surface area of approximately 27,700 square feet. For every foot of depth, we estimate a volume of approximately 200,000 gallons. The engineering calculation of the surface water temperature rise as shown in Attachment B of the General Permit is not applicable to the discharge conditions of this Site. The Appendix B calculation is based on the maximum design flow of the NCCW discharge and assumes that the NCCW is discharged to the receiving water. In this case, the NCCW is discharged into a cooling pond which would operate as a closed loop system absent the natural discharge which occurs to maintain the water level. The discharge to the receiving water is a function of the pond's changing water level based on groundwater inflow, precipitation, and surface runoff and is not tied to the flow through the cooling system; therefore, there is no design flow for use in the calculation.

The discharge pipe from the cooling pond can be closed during operation of the system. In lieu of calculated values, we suggest obtaining water temperature readings at the standpipe prior to and following operation of the cooling system to assess the actual temperature change at the discharge location as a result of operation of the cooling system.

b) Does the discharge occur in an Area of Critical Environmental Concern (ACEC)? Yes

The discharge occurs to the Egypt River at the upstream limits of the Great Marsh ACEC.
See Attachment B, Great Marsh ACEC

- c) Does the discharge occur to an Outstanding Resource Water (ORW)? yes no
If yes, enclose antidegradation waiver approval provided by MassDEP.

MassDEP has not provided an antidegradation waiver. In an email dated December 5, 2024, Xiaodan Ruan (MassDEP) stated that MassDEP “will be reviewing the information from the NOI and will send you additional questions if we determine that an antidegradation review is necessary.”

C. Chemical Additives

1. Are any non-toxic neutralization and/or dechlorination chemicals used in the discharge(s)? 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 on-site industrial cooling pond Name of Source Water unnamed, Ipswich Power Plant property
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? Not applicable. The source water is a man-made cooling pond.

4. Does the facility use both a primary and backup source of NCCW? yes no

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 man-made industrial cooling pond

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: B

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

1. If you selected USFWS criterion B, has consultation with the USFWS been completed? Yes X 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

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 Yes. See Attachment C, USFW Correspondence

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
- Cochecho River
- Taunton River

NONE APPLY

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 wedge mussel (endangered).

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? No

2. Have any State or Tribal Historic Preservation Officers been consulted in this determination? No

3. Which of the three National Historic Preservation Act scenarios listed in Appendix 3, Section C has the facility met?

1

H. Supplemental Information


Refer to Attachment D for a summary of operations data for November 2023- December 2024.

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.

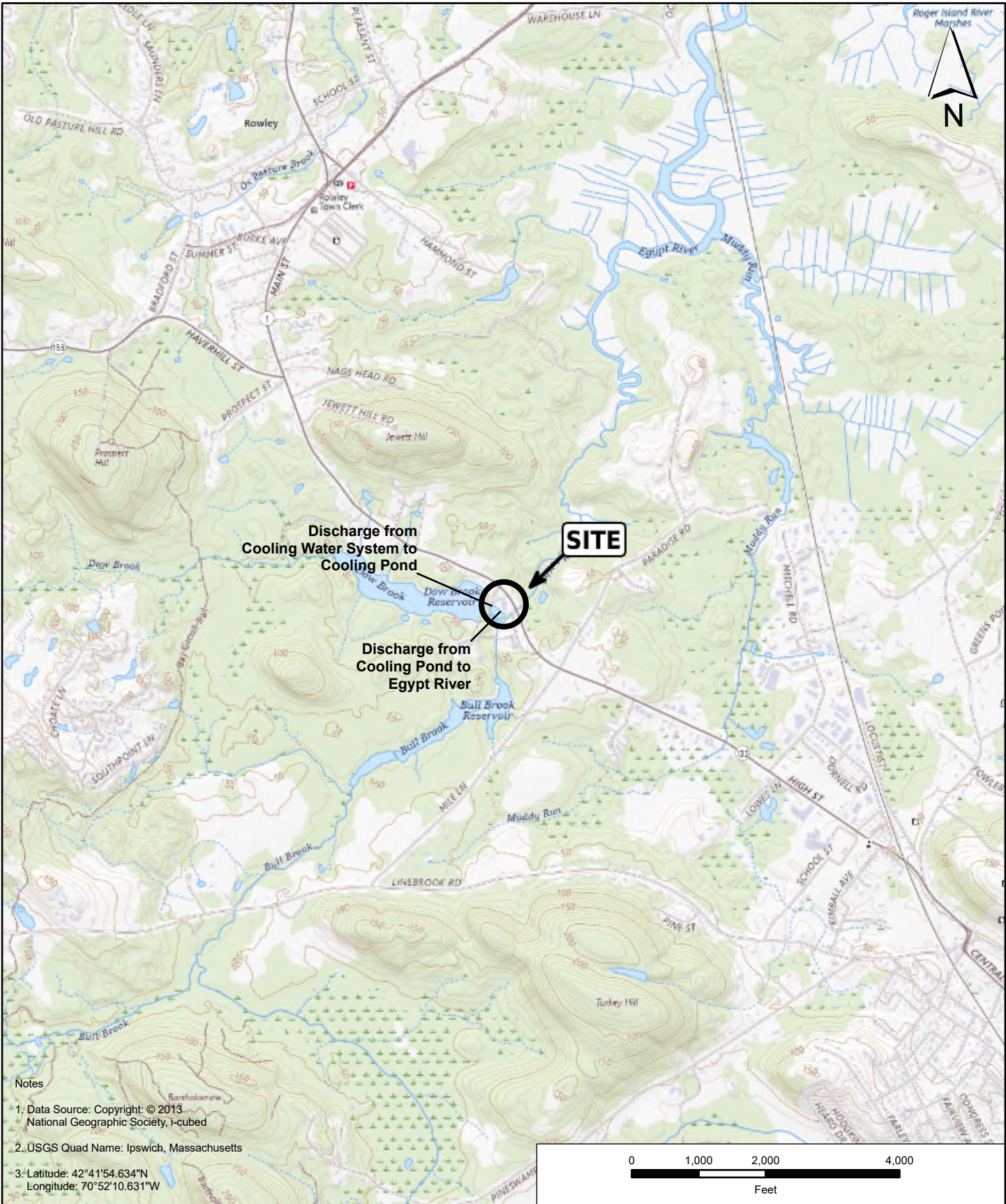
Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant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

Signature  _____ Date Jan. 30, 2025


Printed Name and Title Dylan Lewellyn, General Manager

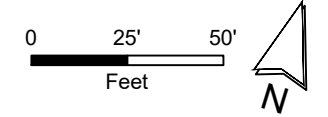
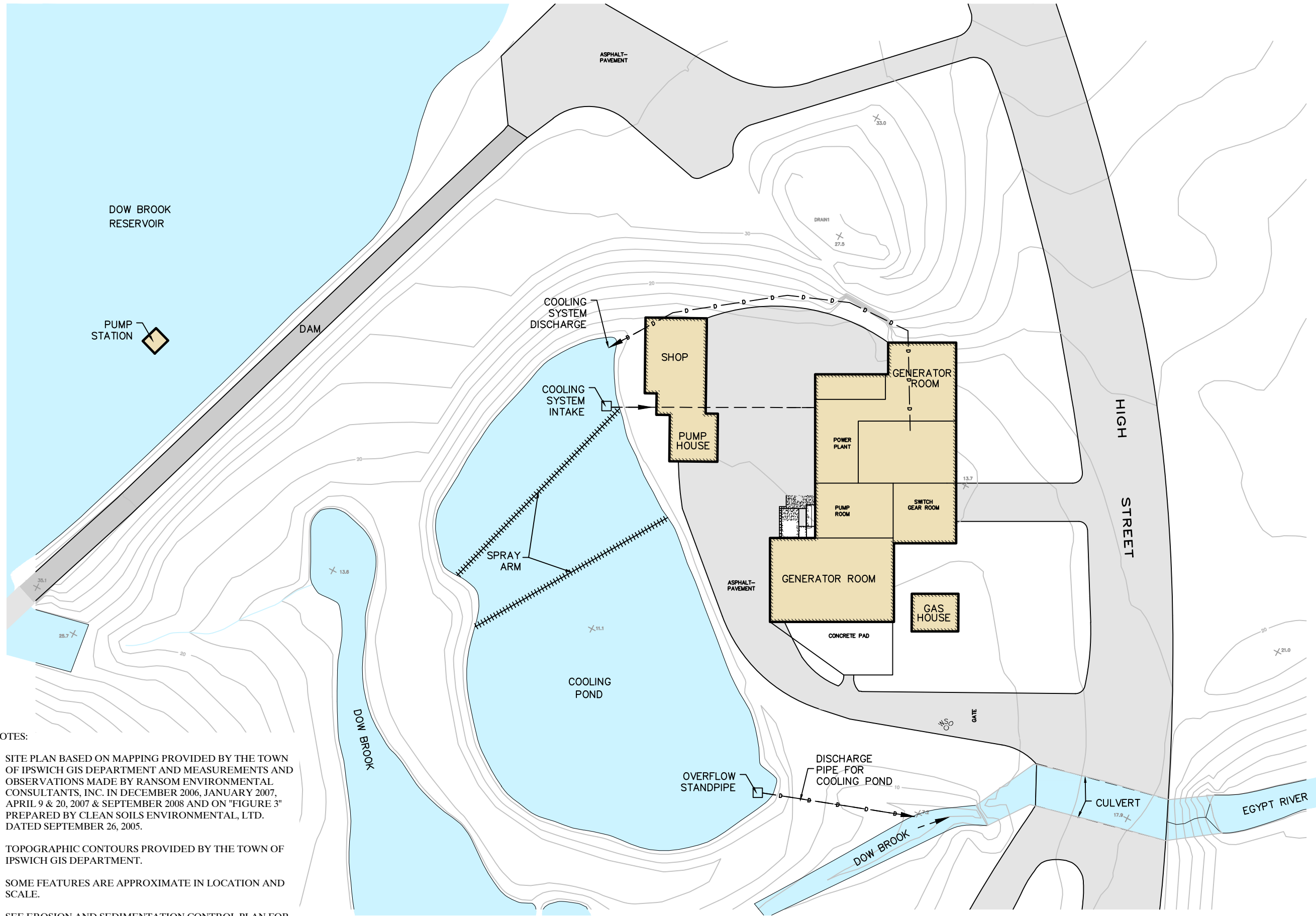
Federal regulations require this application to be signed as follows:

- 1. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.



- Notes
1. Data Source: Copyright: © 2013 National Geographic Society, i-cubed
 2. USGS Quad Name: Ipswich, Massachusetts
 3. Latitude: 42°41'54.634"N
Longitude: 70°52'10.631"W

	PROJECT NAME:		IPSWICH POWER PLANT						
	CLIENT NAME:		IPSWICH MUNICIPAL LIGHT DEPARTMENT 272 HIGH STREET IPSWICH, MASSACHUSETTS						
	PROJECT LOCATION:		IPSWICH POWER PLANT 276 HIGH STREET IPSWICH, MASSACHUSETTS						
	FIGURE NAME:		SITE LOCATION MAP						
	PROJECT NUMBER:		FIGURE NUMBER						
061.01184.007	SCALE:	AS SHOWN	DRAWN BY:	PM	REVIEWED BY:	NM	DATE:	JANUARY 2025	1



LEGEND



PROJECT NAME:
IPSWICH POWER PLANT

CLIENT NAME:
IPSWICH MUNICIPAL LIGHT DEPARTMENT 272 HIGH STREET
IPSWICH, MASSACHUSETTS

PROJECT LOCATION:
IPSWICH POWER PLANT
276 HIGH STREET
IPSWICH, MASSACHUSETTS

FIGURE NAME:
SITE PLAN

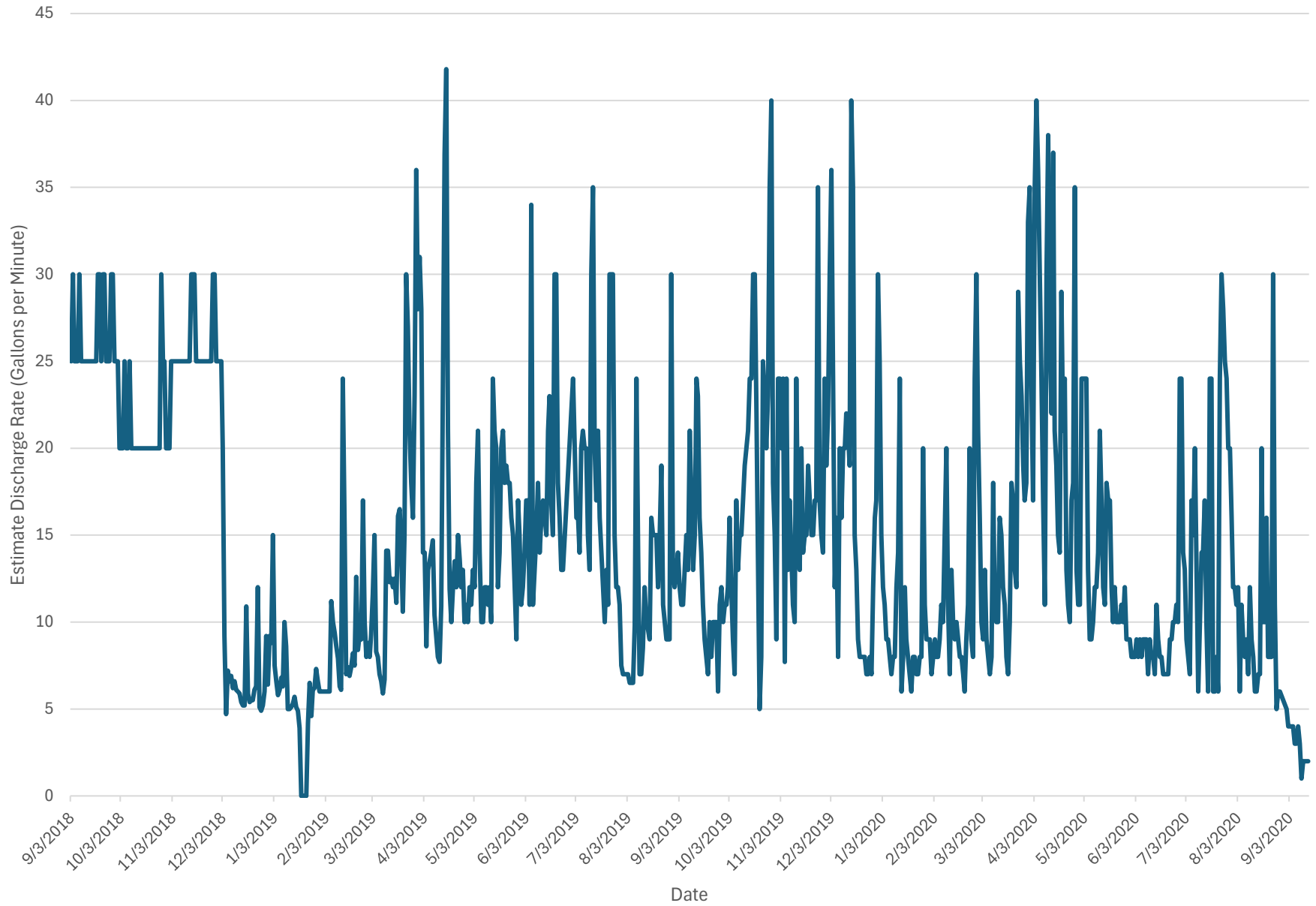
PROJECT NUMBER: 061.01184.007	SCALE: 1"=50'
DRAWN BY: PM	REVIEWED BY: NM
DATE: JAN 2025	FIGURE NUMBER: 2

- NOTES:
1. SITE PLAN BASED ON MAPPING PROVIDED BY THE TOWN OF IPSWICH GIS DEPARTMENT AND MEASUREMENTS AND OBSERVATIONS MADE BY RANSOM ENVIRONMENTAL CONSULTANTS, INC. IN DECEMBER 2006, JANUARY 2007, APRIL 9 & 20, 2007 & SEPTEMBER 2008 AND ON "FIGURE 3" PREPARED BY CLEAN SOILS ENVIRONMENTAL, LTD. DATED SEPTEMBER 26, 2005.
 2. TOPOGRAPHIC CONTOURS PROVIDED BY THE TOWN OF IPSWICH GIS DEPARTMENT.
 3. SOME FEATURES ARE APPROXIMATE IN LOCATION AND SCALE.
 4. SEE EROSION AND SEDIMENTATION CONTROL PLAN FOR CONSTRUCTION REQUIREMENTS.

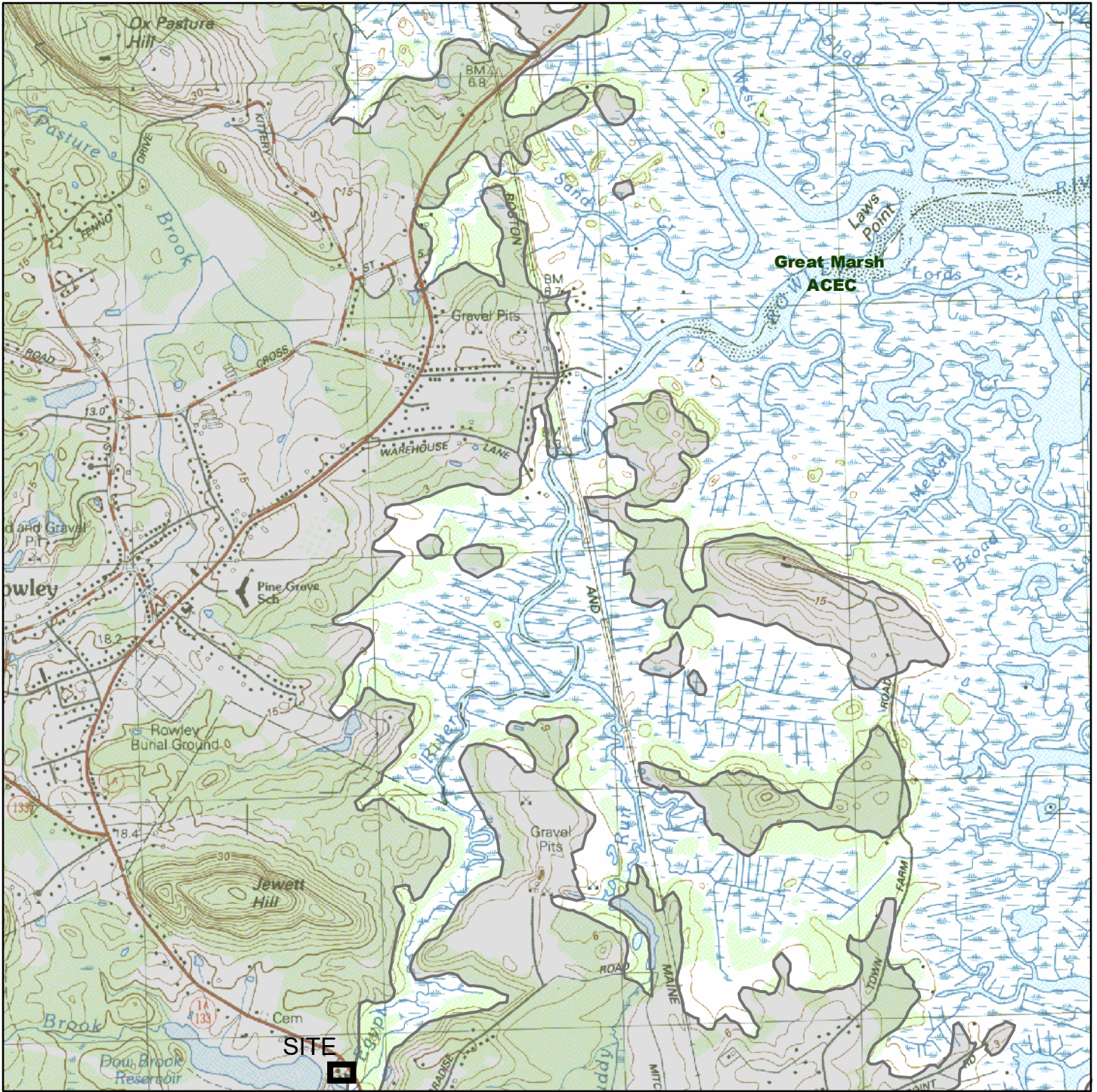
ATTACHMENT A
Cooling Pond Discharge Rate

ATTACHMENT A

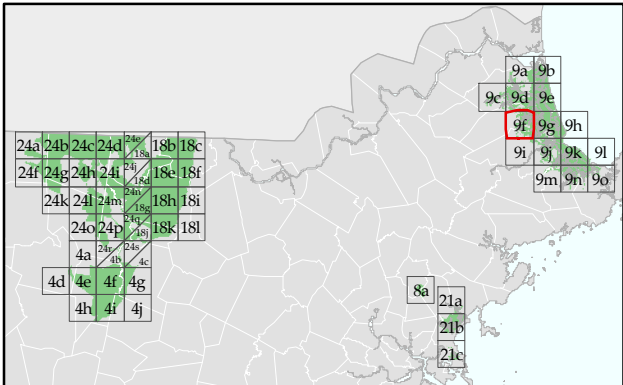
Ipswich Power Plant - Estimated Cooling Pond Discharge Rate



ATTACHMENT B
Area of Critical Environmental Concern



Map # **9f** **Great Marsh ACEC**
 Map Tile 6 of 15 ACEC Designated 3/2/79 25,500 Acres



Massachusetts Department of Conservation and Recreation
 Areas of Critical Environmental Concern (ACEC) Program

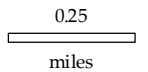
This map is intended to be used with the written boundary description contained in the ACEC designation document. The mapped boundary is not to be used by itself for definitive ACEC boundary delineation or regulatory interpretation. For review of site-specific projects within the ACEC boundary, determinations may need to be made in the field or in consultation with ACEC Program Staff.

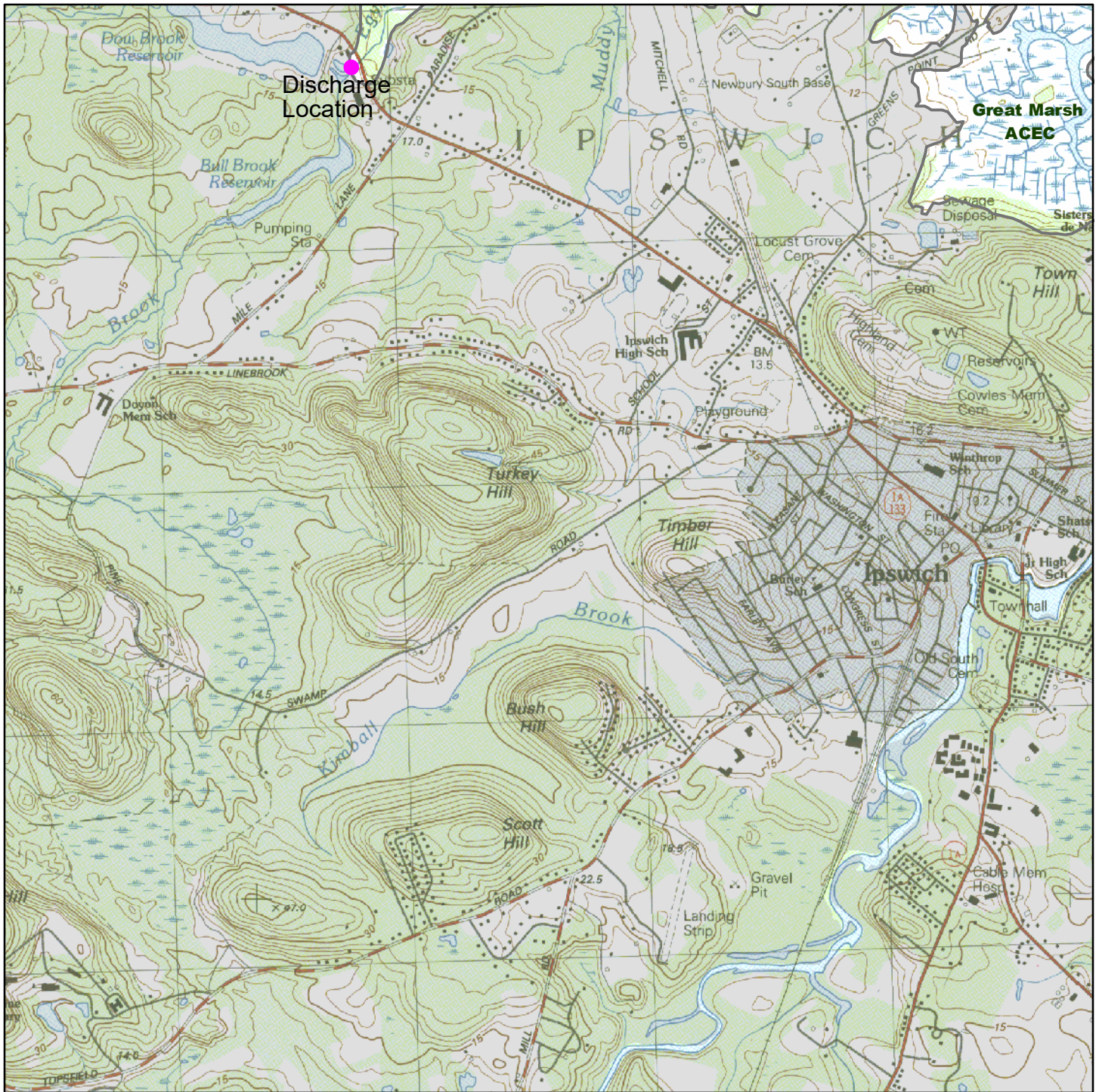
For more information:
www.mass.gov/dcr/stewardship/acec

ACEC Boundaries by Type

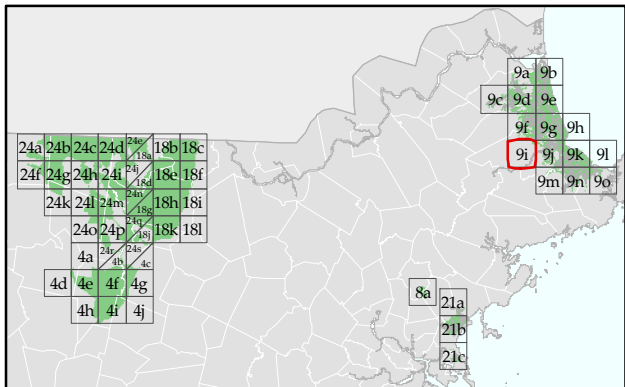
- Road/Rail based
- River based
- Wetland based
- Floodplain based
- Tide based
- Contour based
- Political boundary
- Property line based
- Other
- Digital update required

Areas not within an ACEC are shaded with a gray mask.





Map # **9i** **Great Marsh ACEC**
 Map Tile 9 of 15 ACEC Designated 3/2/79 25,500 Acres













Massachusetts Department of Conservation and Recreation
 Areas of Critical Environmental Concern (ACEC) Program

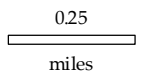
This map is intended to be used with the written boundary description contained in the ACEC designation document. The mapped boundary is not to be used by itself for definitive ACEC boundary delineation or regulatory interpretation. For review of site-specific projects within the ACEC boundary, determinations may need to be made in the field or in consultation with ACEC Program Staff.

For more information:
www.mass.gov/dcr/stewardship/acec

ACEC Boundaries by Type

-  Road/Rail based
-  River based
-  Wetland based
-  Floodplain based
-  Tide based
-  Contour based
-  Political boundary
-  Property line based
-  Other
-  Digital update required

Areas not within an ACEC are shaded with a gray mask.



ATTACHMENT C
USFW Documentation



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

In Reply Refer To:
Project Code: 2023-0042387
Project Name: Ipswich Power Plant DRP

February 06, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Updated 12/27/2022 - Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.

About Official Species Lists

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. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

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 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. 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 by returning to an existing project's page in IPaC.

Endangered Species Act Project Review

Please visit the “**New England Field Office Endangered Species Project Review and Consultation**” website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

<https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

NOTE Please do not use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

Northern Long-eared Bat - (Updated 12/27/2022) Please visit our New England Field Office Project Review webpage at the link above for updated northern long-eared bat consultation guidance. The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule will go into effect on **January 30, 2023**. After that date, the current 4(d) rule for NLEB will no longer be in effect, and the 4(d) determination key will no longer be available. New compliance tools will be available by mid- to late-January, and information will be posted on our New England Field Office Project Review webpage in January, so please check this site often for updates.

Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project may result in incidental take of NLEB after the new listing goes into effect, this will need to be addressed in an updated consultation that includes an Incidental Take Statement. Many of these situations will be addressed through the new compliance tools. If your project may require re-initiation of consultation, please wait for information on the new tools to appear on our website or contact our office at **newengland@fws.gov** for additional guidance.

Additional Info About Section 7 of the Act

Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines 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 Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. 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:

<https://www.fws.gov/service/section-7-consultations>

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) 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. Please contact NEFO if you would like more information.

Candidate species that appear on the enclosed species list have no current protections under the

ESA. The species' occurrence on an official species list does not convey a requirement to consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

Migratory Birds

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

<https://www.fws.gov/program/migratory-bird-permit>

<https://www.fws.gov/library/collections/bald-and-golden-eagle-management>

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

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

Project Code: 2023-0042387

Project Name: Ipswich Power Plant DRP

Project Type: Drainage Project

Project Description: A sump operating in the basement of the Power Plant, (constructed circa 1900 with a stone foundation) collects groundwater that infiltrates through the walls and flows across the basement floor. The sump pumps the water through a treatment system and discharges it into a manmade cooling pond constructed for the Power Plant. The cooling pond naturally discharges through an emergency overflow pipe when the pond level exceeds the design capacity as a result of precipitation and/or high groundwater levels. The portion of the Egypt River into which the discharge flows is created by the overflow from the spillways of the Dow Brook and Bull Brook reservoirs. Note that the streambed is dry and no discharge occurs from the pond at certain times of the year and/or under drought conditions.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@42.71167185,-70.86197621293485,14z>



Counties: Essex County, Massachusetts

Endangered Species Act Species

There is a total of 4 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 Fisheries¹, 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> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Roseate Tern <i>Sterna dougallii dougallii</i> Population: Northeast U.S. nesting population No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

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

IPaC User Contact Information

Agency: Ransom Consulting, LLC
Name: Nancy Marshall
Address: 50 High Street, Suite 25
City: North Andover
State: MA
Zip: 01845
Email: nmarshall@ransomenv.com
Phone: 9784651822

Lead Agency Contact Information

Lead Agency: Environmental Protection Agency



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

In Reply Refer To:
Project code: 2023-0042387
Project Name: Ipswich Power Plant DRP
IPaC Record Locator: 224-122081693

February 06, 2023

Federal Nexus: yes
Federal Action Agency (if applicable): Environmental Protection Agency

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for
'Ipswich Power Plant DRP'

Dear Nancy Marshall:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on February 06, 2023, for "Ipswich Power Plant DRP" (here forward, Project). This project has been assigned Project Code 2023-0042387 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (DKey), invalidates this letter. To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat.

Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is

not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Red Knot (<i>Calidris canutus rufa</i>)	Threatened	No effect
Roseate Tern (<i>Sterna dougallii dougallii</i>)	Endangered	No effect

Conclusion If there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Threatened

To complete consultation for species that have reached a "May Affect" determination and/or species may occur in your project area and are not covered by this conclusion, please visit the "New England Field Office Endangered Species Project Review and Consultation" website for step-by-step instructions on how to consider effects on these listed species and/or critical habitats, avoid and minimize potential adverse effects, and prepare and submit a project review package if necessary: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference the Project Code associated with this Project.

Qualification Interview

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?

Yes

2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

No

5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

No

7. Will the proposed project involve the use of herbicide?

No

8. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

9. Does any component of the project associated with this action include structures that may pose a collision risk to birds or bats (e.g., wind turbines, communication towers, transmission lines, any type of towers with or without guy wires)?

NoteFor federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

10. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

11. Will the proposed project affect wetlands?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

No

12. Will the proposed project activities (including upland project activities) occur within 0.5 miles of the water's edge of a stream or tributary of a stream?

Yes

13. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary?

No

14. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream?

No

15. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds)?

No

16. Will the proposed project involve the removal of excess sediment or debris, dredging or in-stream gravel mining?

No

17. Will the proposed project involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

Note that sedimentation will be addressed in a separate question.

No

18. Will the proposed project involve perennial stream loss that would require an individual permit under 404 of the Clean Water Act?

No

19. Will the proposed project involve blasting?

No

20. Will the proposed project include activities that could result in an increase to recreational fishing or potentially affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage)?

No

21. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream?

No

22. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank?

No

23. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, or the equivalent to these BMPs, be applied to the project?

No

24. Will the proposed project result in changes to beach dynamics that may modify formation of habitat over time?

Note: Examples of projects that result in changes to beach dynamics include 1) construction of offshore breakwaters and groins; 2) mining of sand from an updrift ebb tidal delta; 3) removing or adding beach sands; and 4) projects that stabilize dunes (including placement of sand fences or planting vegetation).

No

25. [Hidden Semantic] Is the project area located within the red knot AOI?

Automatically answered

Yes

26. If you have determined that the red knot is unlikely to occur within your project's action area or that your project is unlikely to have any potential effects on the red knot, you may wish to make a "no effect" determination for the red knot. Additional guidance on how to make this decision can be found in the project review section of your local Ecological Services Field Office's website. CBFO: <https://www.fws.gov/office/chesapeake-bay-ecological-services/project-review> ; MEFO: <https://www.fws.gov/office/maine-ecological-services> ; NJFO: <https://www.fws.gov/office/new-jersey-ecological-services/new-jersey-field-office-project-review-guide> ; NEFO: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review#Step5> ; WVFO: <https://www.fws.gov/office/west-virginia-ecological-services/project-planning>. If you are unsure, answer "No" and continue through the key.

Would you like to make a no effect determination for the red knot?

Yes

27. [Hidden Semantic] Is the project area located within the roseate tern AOI?

Automatically answered

Yes

28. If you have determined that the roseate tern is unlikely to occur within your project's action area or that your project is unlikely to have any potential effects on the roseate tern, you may wish to make a "no effect" determination for the roseate tern. Additional guidance on how to make this decision can be found in the project review section of your local Ecological Services Field Office's website. CBFO: <https://www.fws.gov/office/chesapeake-bay-ecological-services/project-review> ; MEFO: <https://www.fws.gov/office/maine-ecological-services> ; NJFO: <https://www.fws.gov/office/new-jersey-ecological-services/new-jersey-field-office-project-review-guide> ; NEFO: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review#Step5> ; WVFO: <https://www.fws.gov/office/west-virginia-ecological-services/project-planning>. If you are unsure, answer "No" and continue through the key.

Would you like to make a no effect determination for the roseate tern?

Yes

29. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

Automatically answered

No

30. [Semantic] Does the project intersect the Indiana bat critical habitat?

Automatically answered

No

31. [Semantic] Does the project intersect the candy darter critical habitat?

Automatically answered

No

32. [Semantic] Does the project intersect the diamond darter critical habitat?

Automatically answered

No

33. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?

Automatically answered

No

34. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

Automatically answered

No

35. Do you have any other documents that you want to include with this submission?

No

Project Questionnaire

1. Approximately how many acres of trees would the proposed project remove?

0

2. Approximately how many total acres of disturbance are within the disturbance/
construction limits of the proposed project?

0

3. Briefly describe the habitat within the construction/disturbance limits of the project site.

o disturbance

IPaC User Contact Information

Agency: Ransom Consulting, LLC
Name: Nancy Marshall
Address: 50 High Street, Suite 25
City: North Andover
State: MA
Zip: 01845
Email: nmarshall@ransomenv.com
Phone: 9784651822

Lead Agency Contact Information

Lead Agency: Environmental Protection Agency

ATTACHMENT D

Power Plant Operations Summary

ATTACHMENT D
 Table 1: Ipswich Power Plant Operations Data
 November 13, 2023 - December 6, 2024
 276 High Street
 Ipswich, Massachusetts

Date of Operation	Engine 1	Engine 2	Engine 6	Engine 9	Engine 10	Engine 11	Engine 12	Power Plant Cooling System
	Time of Operation (hours:minutes)							
11/13/2023		02:24	02:18	02:24	02:24			2:41
11/20/2023	02:24	02:18		02:18	02:12			02:28
11/21/2023	01:36	01:36		01:30		01:30		01:39
1/17/2024				02:12	02:24	02:18	02:42	02:42
1/18/2024				01:48	01:42	01:42	01:42	01:48
2/14/2024	02:24	02:18		02:12	02:12			02:26
3/20/2024		01:12	01:42	00:30		01:12	01:12	01:42
3/21/2024	02:12			02:12		02:12	02:12	02:18
5/22/2024	02:36		02:30	02:30	02:00	00:30		02:38
6/18/2024				00:42				00:42
6/19/2024				02:24	02:18	02:18	02:24	02:32
6/20/2024	02:54			04:12	04:12	01:18	04:06	04:15
7/8/2024	03:12			03:12	03:12		03:12	04:15
7/9/2024	02:18			02:12	02:12		02:12	03:14
7/10/2024	02:12			02:12	02:12		02:06	03:12
7/16/2024	03:48			03:42	03:42		03:42	03:53
7/17/2024	02:12			02:12	02:06		02:06	02:25
8/1/2024		04:24		04:30	04:18		04:18	04:30
8/2/2024		02:12		02:06	02:06		02:06	02:17
8/5/2024		02:42		02:48	02:48		02:42	02:52
12/6/2024		02:12			02:18	02:24	02:18	02:26

Note: Engines 3, 4, and 8 were not operated during the indicated time period.