



The State of New Hampshire  
**DEPARTMENT OF ENVIRONMENTAL SERVICES**

**Thomas S. Burack, Commissioner**



July 5, 2016

Her Excellency, Governor Margaret Wood Hassan  
and The Honorable Council  
State House  
Concord, NH 03301

**REQUESTED ACTION**

Approve Robert and Elizabeth MacDonald's request to perform the following work in back channel of Sagamore Creek, in Portsmouth. File # 2016-00314. This project will not have significant impact on or adversely affect the values of Sagamore Creek.

Construct a tidal docking structure consisting of a 4 ft. x 17 ft. permanent pier, 10 linear ft. of which is within the developed upland tidal buffer zone, connecting to a 3 ft. x 40 ft. ramp connecting to a 10 ft. x 20 ft. float and associated float stops, overall structure length seaward of the highest observable tide line is 68 ft., providing one slip on 118 ft. of frontage on Sagamore Creek.

The Department imposed the following conditions as part of this approval:

1. All work shall be in accordance with plans by Ambit Engineering, Inc. dated December 2015, and revised through February 25, 2016 as received by the NH Department of Environmental Services (NHDES) on May 24, 2016.
2. Any future work in jurisdiction as specified in RSA 482-A on this property will require a new application and approval by the Department of Environmental Services, Wetlands Bureau.
3. This permit shall not be effective until recorded at the Rockingham County Registry of Deeds Office by the permittee. A copy of the recorded permit shall be submitted to the NHDES Wetlands Bureau prior to construction.
4. Appropriate siltation/erosion/turbidity controls shall be in place prior to construction, shall be maintained during construction, and shall remain in place until the area is stabilized.
5. Within three days of final grading or temporary suspension of work in an area that is in or adjacent to wetlands or surface waters, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tack or netting and pinning on slopes steeper than 3:1.
6. Construction of this tidal docking structure consisting of a 4 ft. x 17 ft. permanent pier, 10 linear ft. of the permanent pier is within the developed upland tidal buffer zone, connecting to a 3 ft. x 40 ft. ramp connecting to a 10 ft. x 20 ft. float and associated float stops, overall structure length of 68 ft., providing one slip on 118 ft. of frontage on Sagamore Creek, shall be the only dock structure on this water frontage.

DES Web site: [www.des.nh.gov](http://www.des.nh.gov)

**P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095**

Telephone: (603) 271-3503 • Fax: (603) 271-6588 • TDD Access: Relay NH 1-800-735-2964

7. Work shall be done during low tide.
8. Work shall be conducted in a manner so as to minimize turbidity and sedimentation to surface waters and wetlands.
9. Work shall be conducted in a manner that avoids excessive discharges of sediments to fish spawning areas.
10. Construction of the dock shall occur from a barge and crane to reduce impacts to the saltmarsh.
11. The decking of the dock shall have a minimum of 4 ft. clearance from the surface of the tidal marsh and shall have 3/4-inch spacing between the decking planks.

#### EXPLANATION

The DES Wetlands Bureau approved this project on June 3, 2016. DES supported its decision with the following findings:

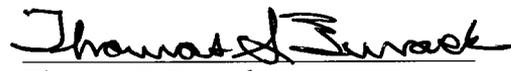
1. This is a major impact project per Administrative Rule Env-Wt 303.02(a) and Env-Wt 303.02(f), projects in sand dunes, tidal wetlands, or bogs, except for the repair of existing structures pursuant to Env-Wt 303.04(v) and projects located in or adjacent to prime wetlands designated under RSA 482-A:15.
2. Portsmouth Prime Wetland 061A is 67.46 acres and associated with Sagamore Creek. The wetland is the largest saltmarsh wetland complex in Portsmouth, has rare species habitat, and is a critical fisheries habitat.
3. The requirements of Env-Wt 703 and Env-Wt 704, Prime Wetlands, have been addressed. The applicant has demonstrated that the project represents minimal disturbance to the buffer of Portsmouth Prime Wetland 061A with only the pier and the ramp located within the buffer. The applicant has minimized the impact to the mudflat by using the fewest number of pilings, a total of four, necessary for the fixed pier. In addition, the fixed pier will be located 16 ft. above the mudflat, when only 4 ft. is required, to minimize shading.
4. The need for the proposed impacts has been demonstrated by the applicant per Wt 302.01. There is currently no docking structure on the property to provide access to the water.
5. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per Wt 302.03. The decking of the dock will have a minimum of a 1:1 ratio of deck height to width as appropriate, and will have 3/4-inch spacing between the decking planks. Further, the applicant will be utilizing a barge and crane to complete construction of the dock from the water to minimize impacts to the wetland resource. The alternative of locating the dock further away from the prime wetland buffer will require a larger structure and the removal of several trees within the waterfront buffer and does not represent the least impacting alternative.
6. Compensatory mitigation is not required for this project pursuant to Env-Wt 302.03(c)(2)f., nor for Env-Wt 703.02, as the project does not affect or diminish any of the criteria upon which the prime wetlands designation was based.
7. The applicant has demonstrated by plan and example that each factor listed in Wt 302.04(a) and (c), Requirements for Application Evaluation, has been considered in the design of the project.

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8. NH Natural Heritage Bureau (NHB) has record of sensitive species within the vicinity of the project, but NHB does not expect impacts to the species from the project. This project has been reviewed by the Pease Development Authority Division of Ports and Harbors which determined that the project would have no negative effect on navigation, per letter dated May 3, 2016.
9. This dock is consistent with other tidal dock approvals in the seacoast area.
10. DES staff field inspection on May 18, 2016 found that the site is accurately represented in the application.
11. The Portsmouth Conservation Commission recommends approval of the project.
12. In accordance with RSA 482-A:8, NHDES finds that the requirements for a public hearing do not apply as the permitted project is not of substantial public interest, and will not have a significant impact on or adversely affect the values of the estuarine resource, as identified under RSA 482-A:1.

Application file documents are being forwarded to the Governor and Executive Council in connection with their consideration of this matter pursuant to RSA 482-A:3,II.(a) as it is a major project in public waters of the state.

We respectfully submit this request for your consideration.

  
Thomas S. Burack  
Commissioner

TSB/CGA/lsl



# WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau  
Land Resources Management

Check the status of your application: [www.des.nh.gov/onestop](http://www.des.nh.gov/onestop)



RSA/Rule: RSA 482-A/ Env-Wt 100-900

	<b>COMPLETE</b> FEB 03 2016	2016-00314
		7540
		\$ 735.40
		LST

**1. REVIEW TIME:**  
Indicate your Review Time below. Refer to Guidance Document A for instructions.

Standard Review (Minimum, Minor or Major Impact)

Expedited Review (Minimum Impact only)

**2. PROJECT LOCATION:**  
Separate applications must be filed with each municipality that jurisdictional impacts will occur in.

ADDRESS: **209 Gosport Road** TOWN/CITY: **Portsmouth**

TAX MAP: **224** BLOCK: LOT: **10-12** UNIT:

USGS TOPO MAP WATERBODY NAME: **Sagamore Creek**  NA STREAM WATERSHED SIZE:  NA  NA

LOCATION COORDINATES (if known): **X: 1,228,776.62 Y: 201,665.89**   
Latitude/Longitude  UTM  State Plane

**3. PROJECT DESCRIPTION:**  
Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

The project proposes 57 sq. ft. of permanent impact to the 100' Tidal Buffer Zone, and 419 sq. ft. of permanent impact to jurisdictional tidal wetland for construction of a docking structure that consists of a 6' x 17' wood pier, 3' x 40' aluminum gangplank, and a 10' x 20' float (overall structure length 76') providing one undersized slip on 118 feet of frontage along Sagamore Creek.

**4. SHORELINE FRONTAGE**

NA This lot has no shoreline frontage. SHORELINE FRONTAGE: **118 feet**

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

**5. RELATED PERMITS, ENFORCEMENT, EMERGENCY AUTHORIZATION, SHORELAND, ALTERATION OF TERRAIN, ETC...**

DES Wetland: 2013-01663 DES Shoreland: 2013-03319

**6. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:**  
See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: NHB 15 - 3943

[shoreland@des.nh.gov](mailto:shoreland@des.nh.gov) or (603) 271-2147  
NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095  
[www.des.nh.gov](http://www.des.nh.gov)



b.  Designated River the project is in ¼ miles of: \_\_\_\_\_; and  
date a copy of the application was sent to the Local River Management Advisory Committee: Month: \_\_\_ Day: \_\_\_ Year: \_\_\_  
 NA

**7. APPLICANT INFORMATION (Desired permit holder)**

LAST NAME, FIRST NAME, M.I.: **MacDonald, Robert & Elizabeth**

TRUST / COMPANY NAME:

MAILING ADDRESS: [REDACTED]

TOWN/CITY: **North Hampton**

STATE: **NH**

ZIP CODE: **03862**

EMAIL or FAX: [REDACTED]

PHONE: [REDACTED]

ELECTRONIC COMMUNICATION: By initialing here: \_\_\_\_\_, I hereby authorize NHDES to communicate all matters relative to this application electronically

**8. PROPERTY OWNER INFORMATION (If different than applicant)**

LAST NAME, FIRST NAME, M.I.:

TRUST / COMPANY NAME:

MAILING ADDRESS:

TOWN/CITY:

STATE:

ZIP CODE:

EMAIL or FAX:

PHONE:

ELECTRONIC COMMUNICATION: By initialing here \_\_\_\_\_, I hereby authorize NHDES to communicate all matters relative to this application electronically

**9. AUTHORIZED AGENT INFORMATION**

LAST NAME, FIRST NAME, M.I.: **Riker, Steven, D.**

COMPANY NAME: **Ambit Engineering, Inc.**

MAILING ADDRESS: **200 Griffin Road, Unit 3**

TOWN/CITY: **Portsmouth**

STATE: **NH**

ZIP CODE: **03801**

EMAIL or FAX: **sdr@ambitengineering.com**

PHONE: **603-430-9282**

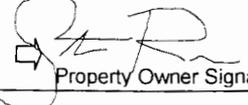
ELECTRONIC COMMUNICATION: By initialing here SR, I hereby authorize NHDES to communicate all matters relative to this application electronically

**10. PROPERTY OWNER SIGNATURE:**

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form ([www.nh.gov/nhdhr/review](http://www.nh.gov/nhdhr/review)) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance.
8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not

 Property Owner Signature	Agent-See Authorization <b>Steven D. Riker</b> Print name legibly	<b>1 / 28 / 2016</b> Date
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### MUNICIPAL SIGNATURES

#### 11. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
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#### DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

#### 12. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

 <small>Town/City Clerk Signature</small>	Kelly C. BARNABY <small>Print name legibly</small>	PORTSMOUTH, NH <small>Town/City</small>	1-29-16 <small>Date</small>
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**DIRECTIONS FOR TOWN/CITY CLERK:**

Per RSA 482-A:3.1

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

**DIRECTIONS FOR APPLICANT:**

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

**13. IMPACT AREA:**

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

*Permanent: impacts that will remain after the project is complete.*

*Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.*

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Scrub-shrub wetland		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Emergent wetland		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Wet meadow		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Intermittent stream		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Perennial Stream / River	/	<input type="checkbox"/> ATF	/
Lake / Pond	/	<input type="checkbox"/> ATF	/
Bank - Intermittent stream	/	<input type="checkbox"/> ATF	/
Bank - Perennial stream / River	/	<input type="checkbox"/> ATF	/
Bank - Lake / Pond	/	<input type="checkbox"/> ATF	/
Tidal water	/	<input type="checkbox"/> ATF	/
Salt marsh		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Sand dune		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF

Prime wetland		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland buffer	214	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	57	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Previously-developed upland in TBZ		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Lake / Pond		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - River		<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Tidal Water	419	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
<b>TOTAL</b>	<b>476 /</b>		<b>/</b>

**14. APPLICATION FEE:** See the Instructions & Required Attachments document for further instruction

Minimum Impact Fee: Flat fee of \$ 200

Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) 57 sq. ft. X \$0.20 = \$ 11.40

Temporary (seasonal) docking structure: 320 sq. ft. X \$1.00 = \$ 320.00

Permanent docking structure: 102 sq. ft. X \$2.00 = \$ 204.00

**Projects proposing shoreline structures (including docks) add \$200 = \$ 200.00**

Total = \$ 735.40

The Application Fee is the above calculated Total or \$200, whichever is greater = \$

28 January, 2016

**To Whom It May Concern**

**RE: NH DES Wetland & City of Portsmouth Conditional Use Applications for a proposed docking structure for Robert & Elizabeth MacDonald, [REDACTED], Portsmouth, NH.**

This letter is to inform the City of Portsmouth, New Hampshire DES, and other parties in accordance with State Law that Ambit Engineering is authorized to represent the above-mentioned property as our agent in the approval process. This includes signatory powers on any and all applications.

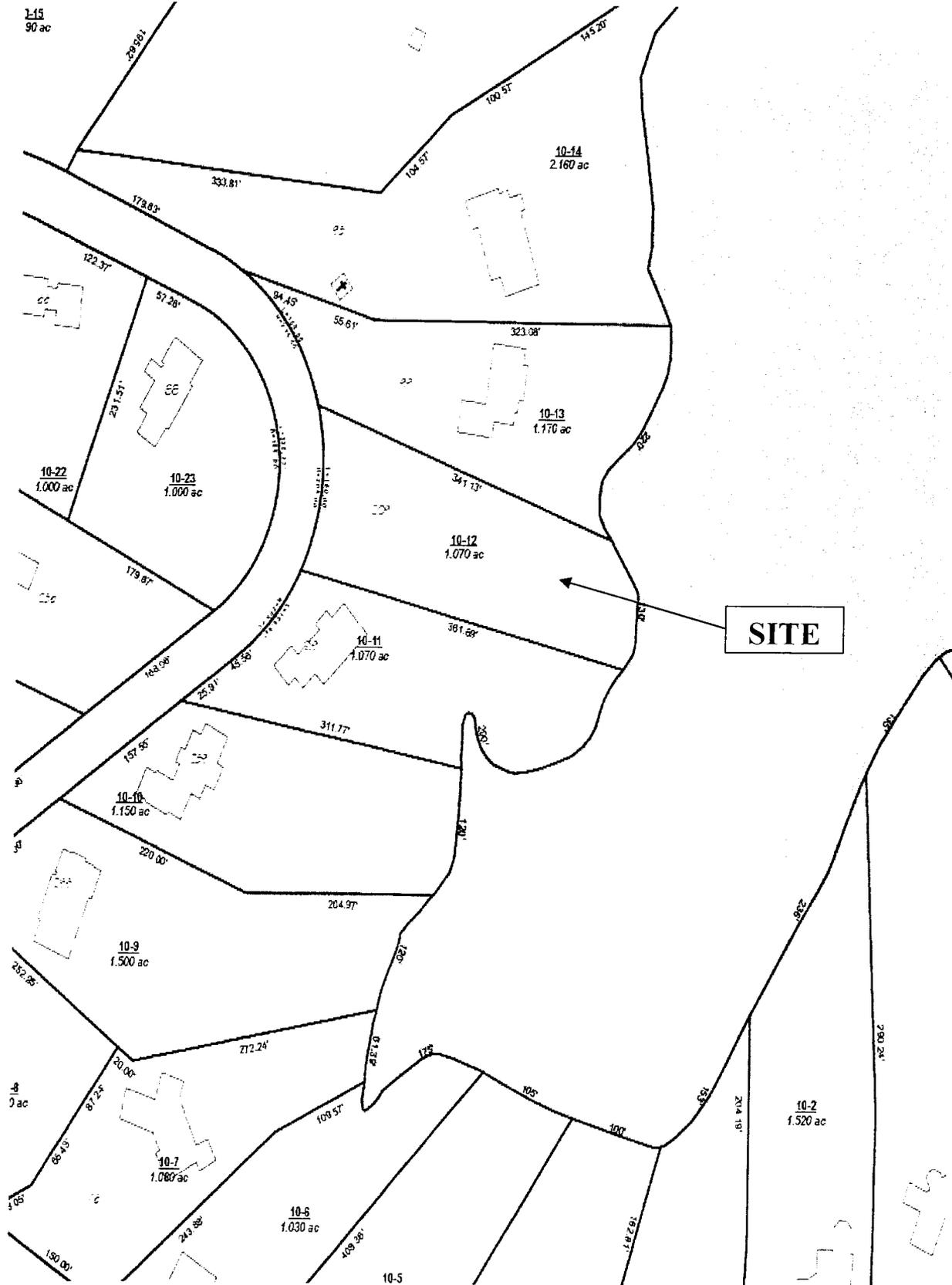
Please feel free to call me if there is any question regarding this authorization.

Sincerely,

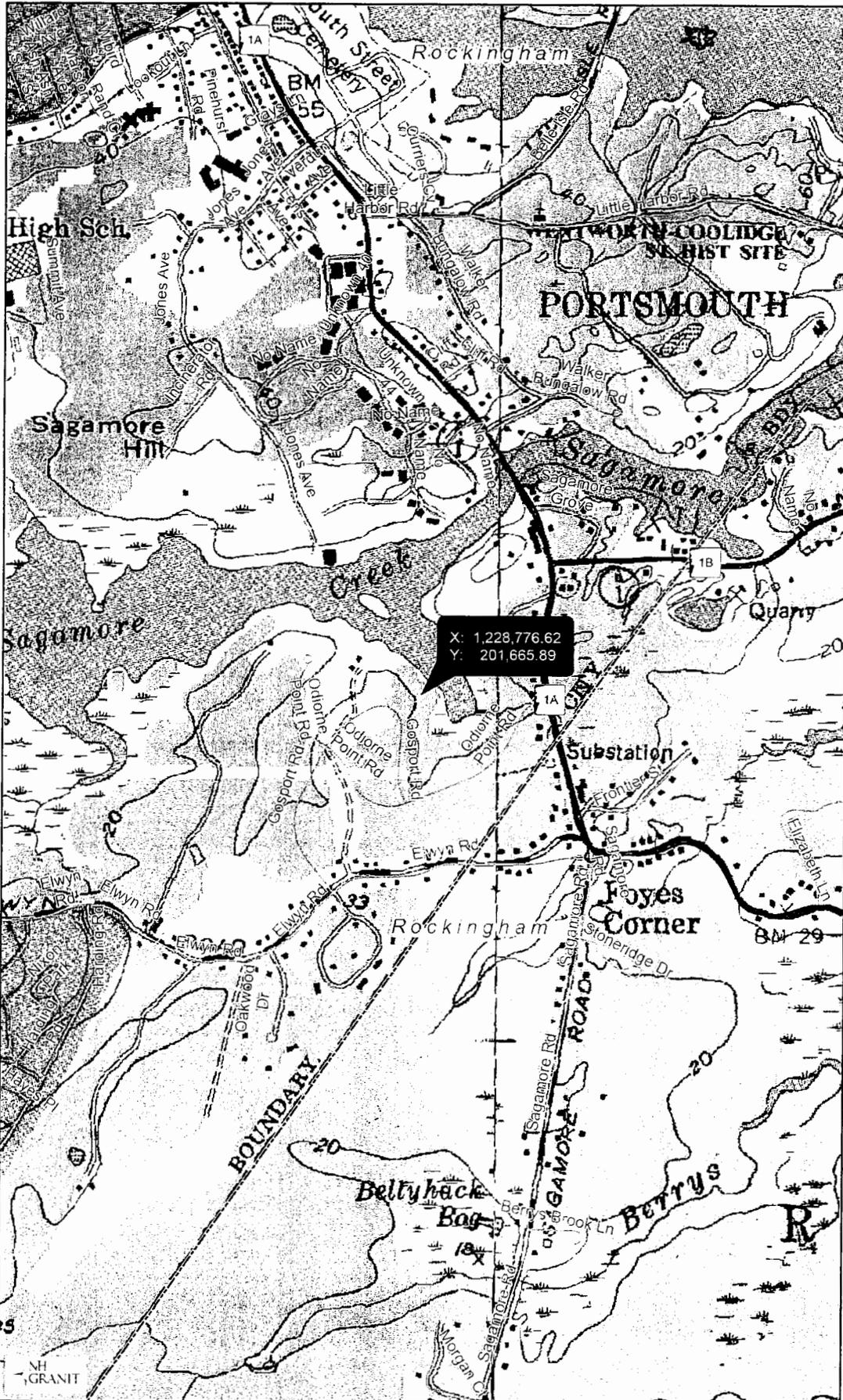


**Robert & Elizabeth MacDonald**

[REDACTED]  
North Hampton, NH 03862  
[REDACTED]



# Map by NH GRANIT



## Legend

- State
- County
- City/Town
- Interstates
- Turnpikes
- US Routes
- State Routes
- Local Roads

S15  
/ 170

Map Scale

1: 14,387



© NH GRANIT, www.granit.unh.edu

Map Generated: 12/2/2015

## Notes



# Memo



NH NATURAL HERITAGE BUREAU  
NHB DATACHECK RESULTS LETTER

**To:** John Chagnon, Ambit Engineering Inc  
200 Griffin Road  
Unit 3  
Portsmouth, NH 03801

**From:** Amy Lamb, NH Natural Heritage Bureau  
**Date:** 12/31/2015 (valid for one year from this date)  
**Re:** Review by NH Natural Heritage Bureau  
NHB File ID: NHB15-3943  
Town: Portsmouth  
Location: Tax Maps: Tax Map 224, Lot 10-12  
Description: The project proposes a docking structure consisting of a pier, gangplank and float.

As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results.

**Comments: Please clarify whether any impacts will occur to the salt marsh adjacent to the project site. Photos of the project area would be helpful for dismissing potential concerns.**

Natural Community	State <sup>1</sup>	Federal	Notes
High salt marsh	--	--	Threats to these communities are primarily alterations to the hydrology of the wetland (such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal flat) and increased input of nutrients and pollutants in storm runoff.
Intertidal flat	--	--	Threats to these communities are primarily alterations to the hydrology of the wetland (such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal flat) and increased input of nutrients and pollutants in storm runoff.
Low salt marsh	--	--	Threats to these communities are primarily alterations to the hydrology of the wetland (such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal flat) and increased input of nutrients and pollutants in storm runoff.
Salt marsh system	--	--	Threats are primarily changes to the hydrology of the system, introduction of invasive species, and increased input of nutrients and pollutants.

Plant species	State <sup>1</sup>	Federal	Notes
Dwarf Glasswort ( <i>Salicornia bigelovii</i> )	E	--	Threats are primarily alterations to the hydrology of the wetland, such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal

Department of Resources and Economic Development  
Division of Forests and Lands  
(603) 271-2214 fax: 271-6488

DRED/NHB  
172 Pembroke Rd.  
Concord, NH 03301

## Memo



### NH NATURAL HERITAGE BUREAU NHB DATACHECK RESULTS LETTER

flat, activities that eliminate plants, and increased input of nutrients and pollutants in storm runoff.

Primarily vulnerable to changes to the hydrology of its habitat, especially alterations that change water levels. It may also be susceptible to increased pollutants and nutrients carried in stormwater runoff.

Tundra Alkali Grass (*Puccinellia pumila*)

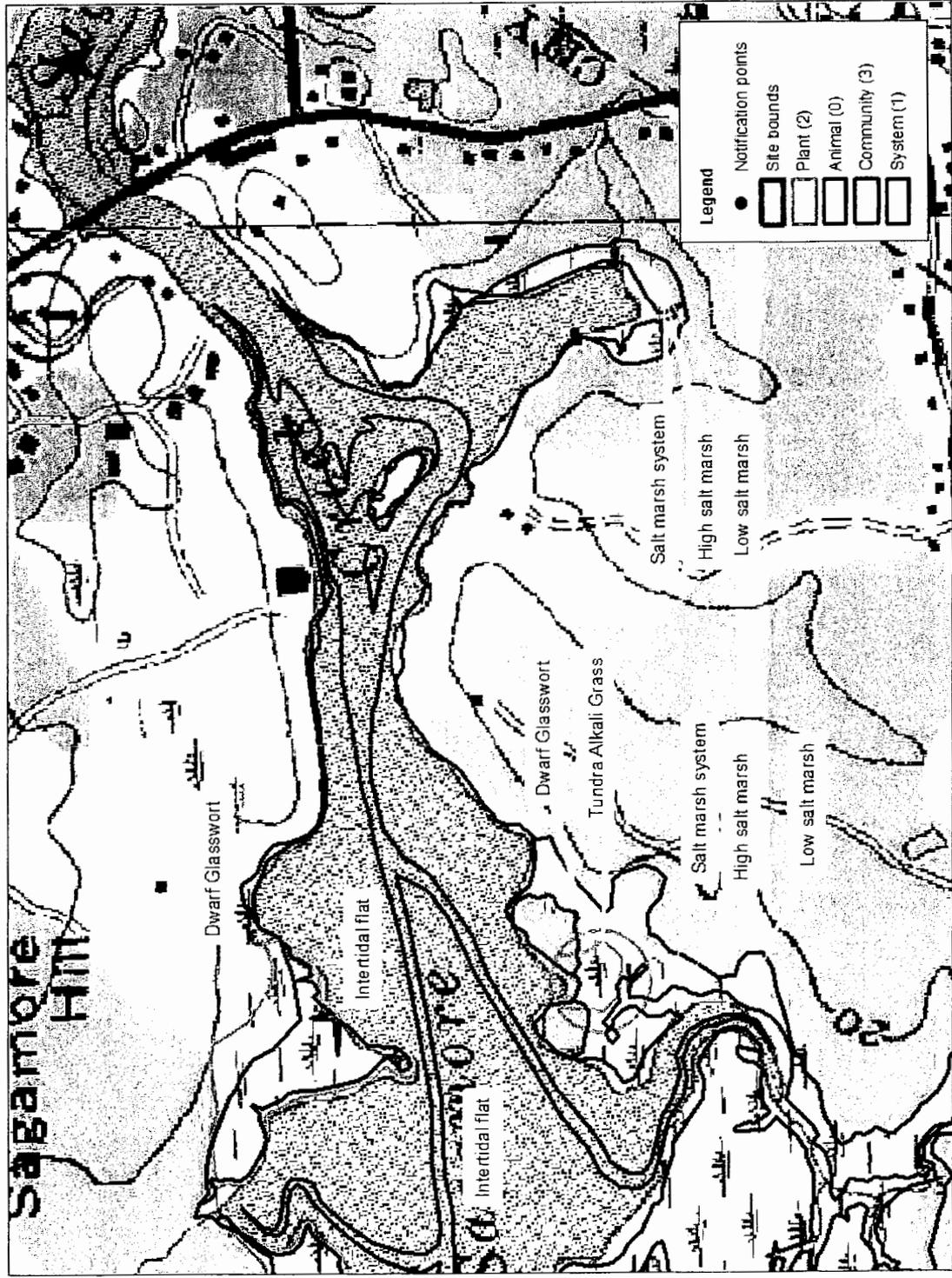
E

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<sup>1</sup>Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (\*) indicates that the most recent report for that occurrence was more than 20 years ago.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

NHB15-3943





**Dates documented**

First reported: 1997-06-18

Last reported: 2006-05-24

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## New Hampshire Natural Heritage Bureau - Community Record

### Intertidal flat

#### Legal Status

Federal: Not listed  
State: Not listed

#### Conservation Status

Global: Not ranked (need more information)  
State: Rare or uncommon

#### Description at this Location

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).  
Comments on Rank:

Detailed Description: 2006: Mudflats observed and photographed at low-mid tide. 1997: No details.  
General Area: 1997: Sagamore Creek is a relatively diverse, sizable, and significant estuary supporting good quality estuarine habitat. Three small, fair quality *brackish marshes* and *high* and *low salt marshes* occur landward of the flats. *Tidal creek bottoms* and an undifferentiated *saline/brackish subtidal channel/bay bottom* occur toward the channel. A population of *Puccinellia paupercula* var. *alaskana* (Alaskan goose-grass) was found on the cobbly shore of one of two "salt marsh islands" in the estuary. These islands were covered by *hemlock-beech-oak-pine forest*. Moderate residential and commercial development occurs particularly around the western lobe where Rte. 1 crosses the estuary. Estuarine tidal flow was evaluated as adequate for the salt marsh west of Rte. 1 and unaffected for the remainder of the marsh (USDA Soil Conservation Service 1994).

General Comments: 1997: Intertidal sand and mud flats are gently sloping, sparsely vegetated, habitats. The substrate, exposed completely at extra low spring tide, ranges in composition from sands to muds and silts. Benthic diatoms and other microalgae occurring in this environment are important contributors to the primary productivity of the total estuarine system (Sickley 1989). Macroalgae is typically uncommon across the exposed substrate. Characteristic invertebrates found in New Hampshire's intertidal mudflats include polychaete worms (including *Nereis virens*, *Nephtys caeca*, *Clymenella tortquata*, and *Scoloplos* spp.) and mollusks (including soft-shelled clam [*Mya arenaria*], Baltic Macoma [*Macoma balthica*], gem shell [*Gemma gemma*], and swamp Hydrobia [*Hydrobia minuta*]) (NAI 1973). Arthropods are also well represented and include green crabs (*Carcinus maenus*), rock crabs (*Cancer irroratus*), flat-clawed hermit crabs (*Pagurus pollicaris*), and horseshoe crabs (*Limulus polyphemis*). During the diurnal (twice daily) tidal flooding, several species of fish and other aquatic species feed on the benthos and epibenthic algae. This community also provides important foraging habitat for shorebirds and other animals when the intertidal flat is exposed. The diverse variety of primary foods (microalgae, phytoplankton, and detritus) available to consumers supports the high productivity found on intertidal flats. The substrate is composed of sand or silt and clay rich in organic matter. Vascular plants are sparse to more typically absent.

Management  
Comments:

#### Location

Survey Site Name: Sagamore Creek  
Managed By: Urban Forestry Center

County: Rockingham  
Town(s): Portsmouth  
Size: 88.5 acres  
Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: Occurs between estuarine marshes or other coastal communities landward and subtidal communities seaward and includes tidal creek channels exposed at low tide. Park at Urban Forestry Center on Elwyn Road. Trails lead from here down to the southern edge of the salt marsh. Salt marsh can also

be accessed from the Rte. 1 bridge on the western side.

**Dates documented**

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First reported:	1997-06-18	Last reported:	2006-05-24
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NHB15-3943

EOCODE:

CE00000003\*030\*NH

## New Hampshire Natural Heritage Bureau - System Record

## Salt marsh system

**Legal Status**

Federal: Not listed  
State: Not listed

**Conservation Status**

Global: Not ranked (need more information)  
State: Rare or uncommon

**Description at this Location**

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).  
Comments on Rank:

Detailed Description: A relatively diverse, sizable, and significant estuary supporting good quality estuarine habitat. Three small, fair quality *brackish marshes* and a *high salt marsh* occur landward of the *low salt marsh*.

General Area: 2006: Borders intertidal flats and a subtidal system.

General Comments:

Management

Comments:

**Location**

Survey Site Name: Sagamore Creek  
Managed By: Urban Forestry Center

County: Rockingham

Town(s): Portsmouth

Size: 64.4 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: Sagamore Creek east of Rte. 1.

**Dates documented**

First reported: 1997-06-18

Last reported: 2007-10-17

## New Hampshire Natural Heritage Bureau - Plant Record

### Dwarf Glasswort (*Salicornia bigelovii*)

#### Legal Status

Federal: Not listed  
State: Listed Endangered

#### Conservation Status

Global: Demonstrably widespread, abundant, and secure  
State: Critically imperiled due to rarity or vulnerability

#### Description at this Location

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).  
Comments on Rank:

Detailed Description: 1997: More than 3,000 plants on north shore, and 200-400 on the south shore. 1983: (North of Urban Forestry Center) 20 by 20 foot area. Old (last years) inflorescences with new growth, ca. 2 cm in height, none flowering. Specimen at UNH. 1973: (North shore) ca. 101-1000 plants with seeds dispersing. Specimen S.N. at NHA.

General Area: 1997: Triglochin forb pannes on the **high salt marsh**. Associated dominants were *Triglochin maritimum* (arrow-grass), *Distichlis spicata* (spike-grass), *Spartina alterniflora* (smooth cord-grass), and *S. patens* (salt-meadow cord-grass). *Salicornia europaea* (common glasswort) also present. 1973: 0-10 feet, flat, full sun, wet mud, surrounded by *Spartina* (cord-grass) species. In salt marsh. Marsh pannes on green.

General Comments: This occurrence may have been impacted by 1995/96 Dept. of Transportation bridge replacement project. Several colonies (1983) Coastal Zone Report, Bertrand and Dunlop (1983); F.D. Richardson, NH Water Resources Board (1973).

#### Management

Comments:

#### Location

Survey Site Name: Sagamore Creek  
Managed By: Sagamore Creek Land

County: Rockingham

Town(s): Portsmouth

Size: 14.8 acres

Elevation: 10 feet

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: Three known sites: (1) Rte 1 and Sagamore Creek, south of Sagamore Creek and east of Rte 1. Wet panne about 30 yards from Rte 1 between 2 telephone poles. Just above State of NH Urban Forestry Center; (2) north shore of Sagamore Creek on either side of small tributary, southwest of Sagamore Hill; (3) south shore of Sagamore Creek ca. 0.5 miles ESE of Rte 1 bridge.

#### Dates documented

First reported: 1973

Last reported: 1997-06-18

## New Hampshire Natural Heritage Bureau - Plant Record

**Tundra Alkali Grass (*Puccinellia pumila*)****Legal Status**

Federal: Not listed  
 State: Listed Endangered

**Conservation Status**

Global: Apparently secure but with cause for concern  
 State: Critically imperiled due to rarity or vulnerability

**Description at this Location**

Conservation Rank: Good quality, condition and landscape context ('B' on a scale of A-D).  
 Comments on Rank:

Detailed Description: 1997: Ca. 50-100 ramets observed, all in flower, of normal vigor.

General Area: 1997: Salt marsh community. Associated species include *Suaeda linearis* (southern sea-blite) and *Plantago maritima* var. *juncooides* (salt marsh plantain).

General Comments:

Management

Comments:

**Location**

Survey Site Name: Urban Forestry Center

Managed By: Urban Forestry Center

County: Rockingham

Town(s): Portsmouth

Size: 2.8 acres

Elevation: 10 feet

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: [From Portsmouth, take Rte. 1 south. After crossing Sagamore Creek, turn left on Elwyn Road.] Park at Urban Forestry Center on the left. Population is at NE corner of east island.

**Dates documented**

First reported: 1997-06-18

Last reported: 1997-06-18

**ABUTTER'S LIST**

**JN 2176.02**

**Robert & Elizabeth MacDonald  
209 Gosport Road  
Portsmouth, NH**

MAP	LOT	NAME(S)	PO BOX	STREET ADDRESS	CITY/STATE/ZIP
224	10-13	Christopher D. & Daniela Oneill		[REDACTED]	Portsmouth, NH 03801
224	10-11	Pine Siskin LLC		219 Gosport Road	Portsmouth, NH 03801
Engineer		<b>Ambit Engineering, Inc.</b>		200 Griffin Road, Unit 3	Portsmouth, NH 03801
Applicant/Owner		Civil Engineers & Land Surveyors			
224	10-12	Robert & Elizabeth MacDonald		[REDACTED]	North Hampton, NH 03862