



SHORELAND PERMIT APPLICATION

MEMORIAL BRIDGE (US ROUTE 1) REPLACEMENT PROJECT
PORTSMOUTH, NH - KITTERY, ME
A000(911), 13678F

AUGUST 2011



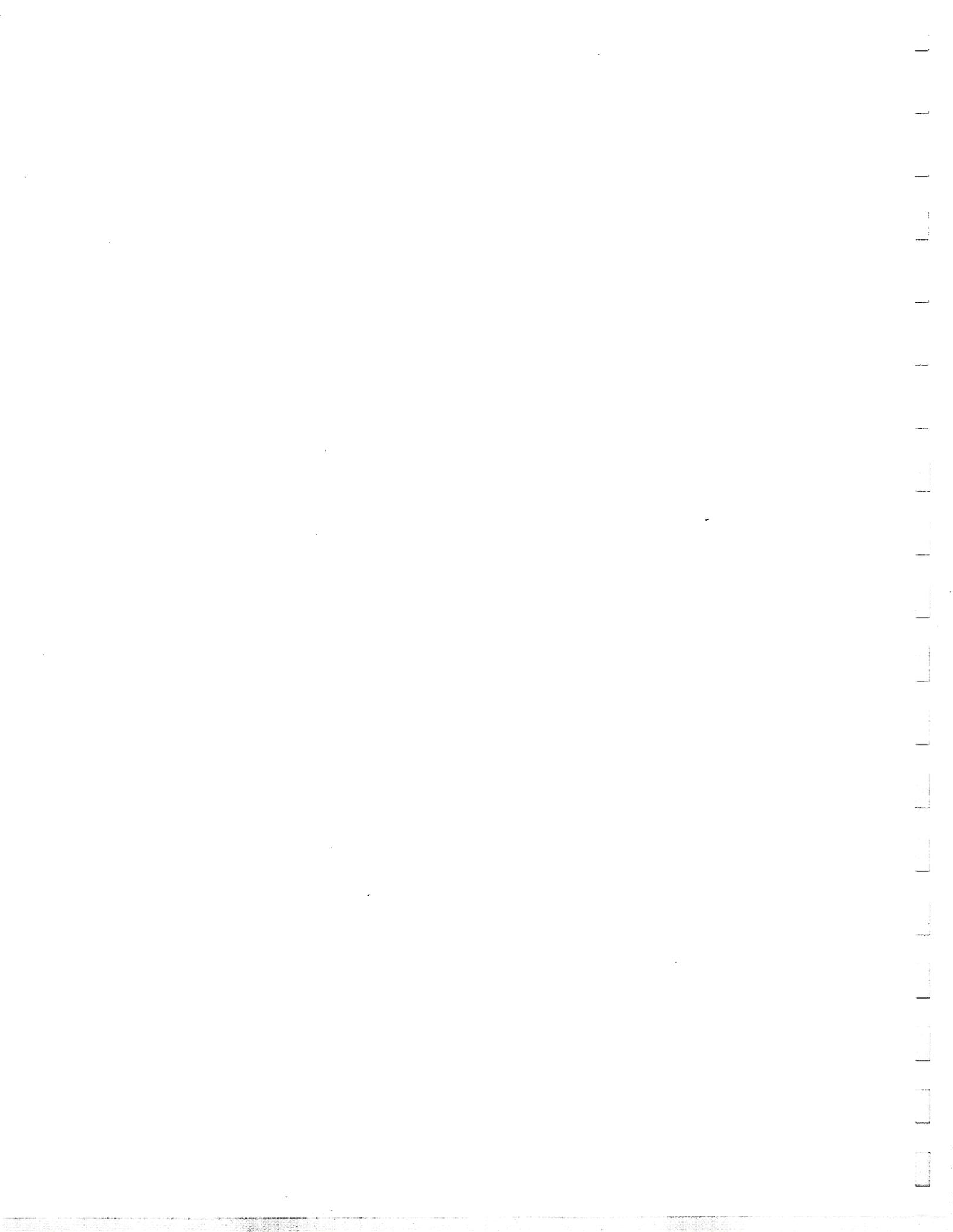
Portsmouth Memorial Bridge Shoreland Permit Application

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NH DEPARTMENT OF ENVIRONMENTAL SERVICES
WETLANDS BUREAU
 29 Hazen Drive PO Box 95
 Concord, NH 03302-0095



Phone: (603) 271-2147 Fax: (603) 271-6588
 website: www.des.nh.gov email: shoreland@des.state.nh.us

SHORELAND PERMIT APPLICATION

Application for a permit to excavate, fill or construct new structures within the protected shoreland as regulated under RSA 483-B.

For a complete list of activities that **do not** require a shoreland permit, view the shoreland program [frequently asked questions](#) (FAQ's)

GENERAL INSTRUCTIONS: Type or print clearly. **Please note:** Application packages missing required elements **will be returned** to the applicant in their entirety, including the fee. Land Resources Management will include a letter identifying the missing elements and describing how to resubmit the application package to DES. Application packages that are accepted will proceed to technical review to insure the applicant has fulfilled all requirements as specified by statute or regulation. For more information visit the [New Land Resources Management Application Return Process](#) site located on the Shoreland Program Page.

1. Name of Owner New Hampshire Department of Transportation

Last	First	Middle Initial
------	-------	----------------

2. Mailing Address: 7 Hazen Drive Concord NH 03301

Box # / Street	Town/City	State	Zip code
----------------	-----------	-------	----------

(603) 271-1915 (603) 271-7199 KCota@dot.state.nh.us

Daytime Telephone Number	Fax Number	Email
--------------------------	------------	-------

3. Location of Proposed Project: US Route 1 Portsmouth NH 03801

Street #	Street/Road/Highway	Town/City	State	Zip code
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Waterbody Name Piscataqua River Tax Map Number: Road ROW Block/Lot Number: _____

4. Contractor or Agent: McFarland Johnson

Name of Contact and Company Name (if any)

53 Regional Drive Concord NH 03301

Box # / Street	Town/City	State	Zip code
----------------	-----------	-------	----------

(603) 225-2978 (603) 225-0095 vchase@mjinc.com

Daytime Telephone Number	Fax Number	Email
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5. Check appropriate answer below:

This Shoreland Permit Application includes a request for a redevelopment waiver under RSA 483-B:11, II

This Shoreland Permit Application includes a request for a waiver of the minimum standards under of RSA 483-B:9, V(i).

If a minimum standard waiver is being sought, indicate which standard of RSA 483-B:9, V the applicant is seeking relief: RSA 483-B:9, V _____.

6. Provide a brief description of the proposed project including the square feet of all impacts and new structures.

The project involves the replacement of the Memorial Bridge and the Scott Avenue Bridge, which carry Route 1 over the Piscataqua River in Portsmouth. There will be disturbance to the protected shoreland associated with the bridge replacements and repaving of the surrounding roads. See attached supplemental narrative.

FOR INTERNAL USE ONLY

For internal use only:	check #	Date received	Amount	Initials	Check date	DES File#
Fee received:						

7. Please indicate if applications for any of the permits listed below have been submitted or will need to be submitted:

- Wetlands Permit per RSA 482-A
- Individual sewage disposal system per RSA 485-A:29
- Alteration of Terrain Permit per RSA 485-A:17
- Subdivision Permit per RSA 485-A:29

8. Reference line elevation: _____ (only required for lakes, ponds and artificial impoundments).

Reference line elevations for lakes, ponds and artificial impoundments greater than 10 acres in size are listed in the [Consolidated List of Waterbodies subject to the Shoreland Water Quality Protection Act](#) as found on the DES website at www.des.nh.gov. Please see RSA 483-B:4 XVII for the appropriate definition of Reference line.

PERMIT APPLICATION FEE

A non-refundable permit application fee of \$100 plus \$0.10 per square foot of impacts (both permanent and temporary) is required at the time the application is submitted. Fees are capped at \$750 for projects impacting less than 10,000 sq ft, \$1,875 for projects impacting between 10,000 and less than 25,000 sq ft, and \$3,750 for projects impacting 25,000 sq ft and greater. Please note that your application will not be considered complete if it does not include the appropriate fee. **Please make checks payable to the Treasurer, State of NH.**

CALCULATING THE TOTAL IMPACT AREA AND PERMIT APPLICATION FEE:

Total impact area is calculated by determining the sum of permanent and temporary impacts. Permanent impacts are areas of all new post-construction impervious area. Temporary impacts are areas disturbed by regrading, excavation and filling. Temporary impacts often include, but are not limited to: areas disturbed when installing a new septic system or foundation, creating temporary access roads for the purpose of installing a well and regrading associated with landscaping activities.

9. Permanent Impact total: _____ (a) sq ft. Temporary Impact total: _____ (b) sq ft

Total area impacted within 250 of the reference line. [(a) + (b)] = _____ (c) square feet

Multiply the total impact area by 10¢ and add \$100.00. [(c) x .10 + \$100.00] = NA - NHDOT PERMIT FEE

REQUIRED CERTIFICATIONS

- UM a) By initialing within the blank before each of the following statements, and signing below, you are certifying that: to the best of my knowledge, the information provided is true, complete and not misleading.
- UM b) I understand that any permit, waiver or variance granted based on false, incomplete, or misleading information shall be subject to revocation.
- UM c) I am aware that obtaining a Shoreland Permit will not exempt the work I am proposing from other state, local or federal approvals.
- UM d) I have notified the municipality or municipalities in which the proposed impacts are located and provided them with a complete copy of the application and all supporting materials on 8/3/11 via certified mail.
- UM e) This project is within ¼ mi of a designated river AND I have notified the Local River Advisory Committee by providing them with a copy of the complete application, including all supporting materials on / / via certified mail.
 This project is **not** within ¼ mi of a designated river
- NA f) I have notified all abutters of the proposed impacts via certified mail as required by RSA 483-B:5-b, IV-a. (See definition of "abutter" on page (6)).

REQUIRED SIGNATURES

Keith Acota KEITH ACOTA 8/3/11
 Signature of Owner or Authorized Agent (circle one) Print name clearly Date

Please mail this application and all other attachments to the Department of Environmental Services Wetlands Bureau, PO Box 95, Concord NH 03302-0095. Missing information will delay processing of your application and may result in denial of a Shoreland Permit.



Shoreland Application Worksheet

This form must be submitted to the Department of Environmental Services Wetlands Bureau accompanied with a Shoreland Permit Application. [Instructions for completing this form](#) are available on the shoreland program web page.

For the purposes of this worksheet, “Pre-Construction” impervious areas¹ means all human made impervious surfaces currently in existence on the property, whether to be removed or to remain after the project is completed. “Post-Construction” impervious area means all impervious surfaces that will exist on the property upon completion of the project, including both new and any remaining pre-existing impervious surfaces. All answers shall be given in square feet.

Calculating the Impervious Area within 250 feet of the Reference Line

	<u>Structure Description</u>	<u>Pre-Construction Impervious Area</u>	<u>Post-Construction Impervious Area</u>
Primary structure: (Including all attached decks and porches)	<u>Roadway and bridge</u>	<u>23,850</u>	<u>23,850</u>
Accessory structures: (All other impervious surfaces excluding lawn furniture, well heads, fences and septic systems)	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Total:		<u>23,850 (A)</u>	<u>23,850 (B)</u>

Area of the lot located within 250 ft of reference line: 38,728 (C)

Percentage of lot covered by pre-construction impervious area within 250 ft of the reference line: *[Divide (A) by (C) x 100]* 62 % (D)

Percentage of lot to be covered post-construction impervious area within 250 ft of the reference line upon completion of the project: *[Divide (B) by (C) x 100]* 62 % (E)

¹ “Impervious area” means, for purposes of the impervious surfaces limitation specified in RSA 483-B:9, V(g), the area that is occupied, covered, or over hung by any impervious surface².

² “Impervious surface” means any modified surface that cannot effectively absorb or infiltrate water. Examples of impervious surfaces include, but are not limited to: roofs and unless designed to effectively absorb or infiltrate water, decks, patios, and paved, gravel, or crushed stone driveways, parking areas and walkways.

Impervious Area Thresholds

For projects that propose a post-construction impervious area (calculation E) greater than 20% within the protected shoreland, as specified in RSA 483-B:9, V(g)(2), you must provide:

- 1.) Plans for a [stormwater management](#) system that will infiltrate increased stormwater from development in accordance with Env-Wq 1500.

For projects that propose a post-construction impervious area (calculation E) greater than 30% within the protected shoreland, as specified in RSA 483-B:9, V(g)(1) and (3), you must provide:

- 1.) Evidence that each grid segment of the waterfront buffer at least meets the minimum required tree, sapling, shrub and groundcover score and/ or a planting plan with the locations and species of all plantings proposed to at least bring each deficient grid segment up to the required minimum point score. An explanation of how to [score grid segments](#) and a [native species planting list](#) is available on the Shoreland Program web page.
- 2.) Plans for a stormwater management system designed and certified by a professional engineer that will not concentrate stormwater runoff or contribute to erosion

Calculating the Area to Remain in an Unaltered State

Total area of the lot between 50 ft and 150 ft of the reference line currently existing in an unaltered state³ (See definition below). If this area is completely altered, place a zero on line (F) and (I) and proceed to (J).

0 sf (F)

Total area of the lot between 50 ft and 150 ft from the reference line

10,098 sf (G)

At least 25 percent of the vegetation within area (G) must remain in an unaltered state.

Minimum area required to remain in an unaltered state:

[.25 x (G)]

_____ (H)

Place the smaller of line (F) and calculation (H) on this line:

In order to remain compliant with RSA 483-B:9,V(b), this is the minimum area that must remain in an unaltered state between 50 ft and 150 ft from the reference line. This area must be represented on all plans.

_____ (I)

Name of person who prepared this worksheet:

_____ (J)

Name and date of the plan this worksheet is based upon:

_____ (K)

Signature: _____

³ "Unaltered state" means vegetation allowed to grow without cutting, limbing, trimming, pruning, mowing or other similar activities except as needed for plant health, normal maintenance and renewal. Existing lawns, fields and beaches and landscaped areas are NOT considered unaltered areas.

Project Description

The New Hampshire Department of Transportation (NHDOT), in cooperation with the Federal Highway Administration (FHWA) and the Maine Department of Transportation (MaineDOT), proposes to replace the Memorial Bridge over the Piscataqua River, and the Scott Avenue Bridge (Portsmouth approach). U.S. Route 1 is a principal urban arterial, connecting Portsmouth's business district in New Hampshire with Badger's Island in the Town of Kittery, Maine.

A Standard Dredge and Fill Permit application has been submitted to NHDES for proposed wetland impacts associated with repairs to the two central piers and the replacement of the pier that supports the ends of the Scott Avenue Bridge and the Memorial Bridge. The Scott Avenue Bridge lies within 250 feet of the reference line.

The Piscataqua River is a tidal water, and as such is subject to the Comprehensive Shoreland Protection Act. The wetland permit application previously submitted included proposed temporary impacts to the 100-foot jurisdictional tidal buffer zone for roadway improvements associated with the proposed bridge approaches and for the pier replacement. CSPA jurisdiction starts at the limit of NHWB jurisdiction, 100 feet from the highest observable tide line, which is the reference line for coastal waters. The project area that lies within CSPA jurisdiction is entirely developed.

Shoreland Impacts

The area of impact within CSPA jurisdiction includes roadway, sidewalks, the elevated portion of the Scott Avenue Bridge over State Street, and grassy areas with shade trees in Memorial Park, which lies south of the Scott Avenue Bridge. The park will be temporarily disturbed during construction but will be restored to its current condition following construction.

Design and construction of this project will follow a Design-Build process. Design-Build (DB) is a method of project delivery in which the design and construction phases of a project are combined into one contract. Because the design has not been finalized, resource impacts can only be estimated at this time. Proposed wetland and shoreland impacts, therefore, are based on the maximum probable impact from the project. For purposes of this application, it is assumed that all of the NHDOT right-of-way within 250' of the reference line will be temporarily disturbed. Some disturbance may be limited to repaving, but because plans are not yet available, proposed changes in road alignments or elevations have not been established. It is assumed that the percent of impervious area within the protected shoreland will not change.

Stormwater Management

The proposed design will incorporate a manufactured stormwater treatment unit to be installed along Daniel Street along the Portsmouth waterfront that will treat permanent roadway drainage prior to discharge into the Piscataqua River. This manufactured treatment unit will reduce the total suspended solids discharged at the outfall for permanent site stormwater and will result in a net stormwater improvement.



Photo 1: Pier 1 State Street and Memorial Park, view east



Photo 2: Bridge approach and Memorial Park, view northeast



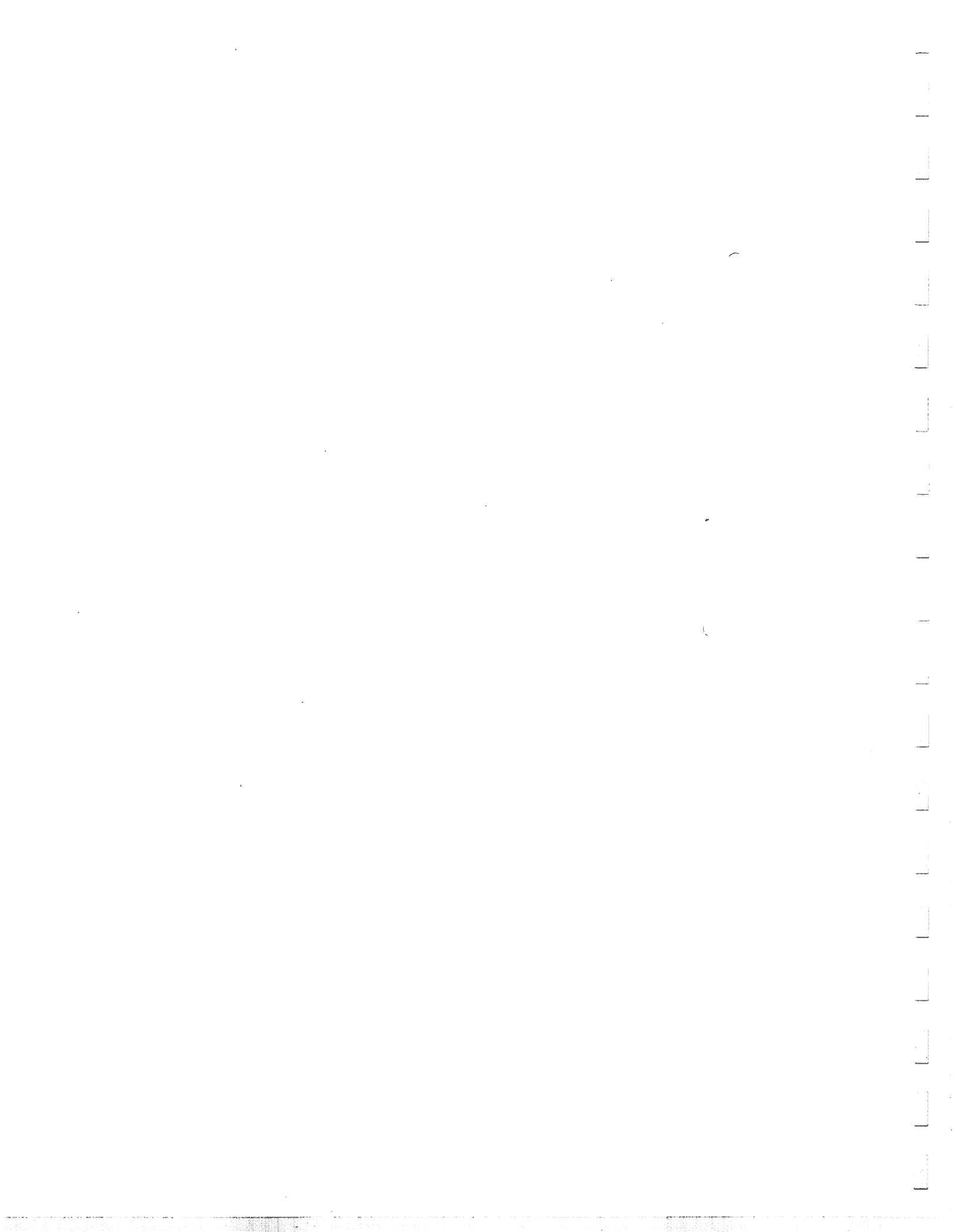
Photo 3: State Street and Memorial Park. Memorial Bridge in background



Photo 4: State Street and Memorial Park, view southwest



Photo 5: Scott Avenue Bridge approach – view southwest





Memo

To: Vicki Chase, McFarland Johnson, Inc.
 10 Ferry Street, Unit 11, Suite 210
 Concord, NH 03301-5022

From: Melissa Coppola, NH Natural Heritage Bureau

Date: 11/12/2010 (valid for one year from this date)

Re: Review by NH Natural Heritage Bureau
 NHB File ID: NHB10-2778 Town: Portsmouth Location: Tax Maps: Map 105
 Description: NHDOT proposes to replace the Memorial Bridge and the Scott Avenue Bridge in New Hampshire and Maine.

cc: Kim Tuttle

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

Comments:

Vertebrate species

State ¹	Federal	Notes
T	M	Contact the NH Fish & Game Dept (see below).

¹Codes: "E" = Endangered, "T" = Threatened, "... " = 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.

Contact for all animal reviews: Kim Tuttle, NH F&G, (603) 271-6544.

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. For some purposes, including legal requirements for state wetland permits, the fact that no species of concern are known to be present is sufficient. However, an on-site survey would provide better information on what species and communities are indeed present.

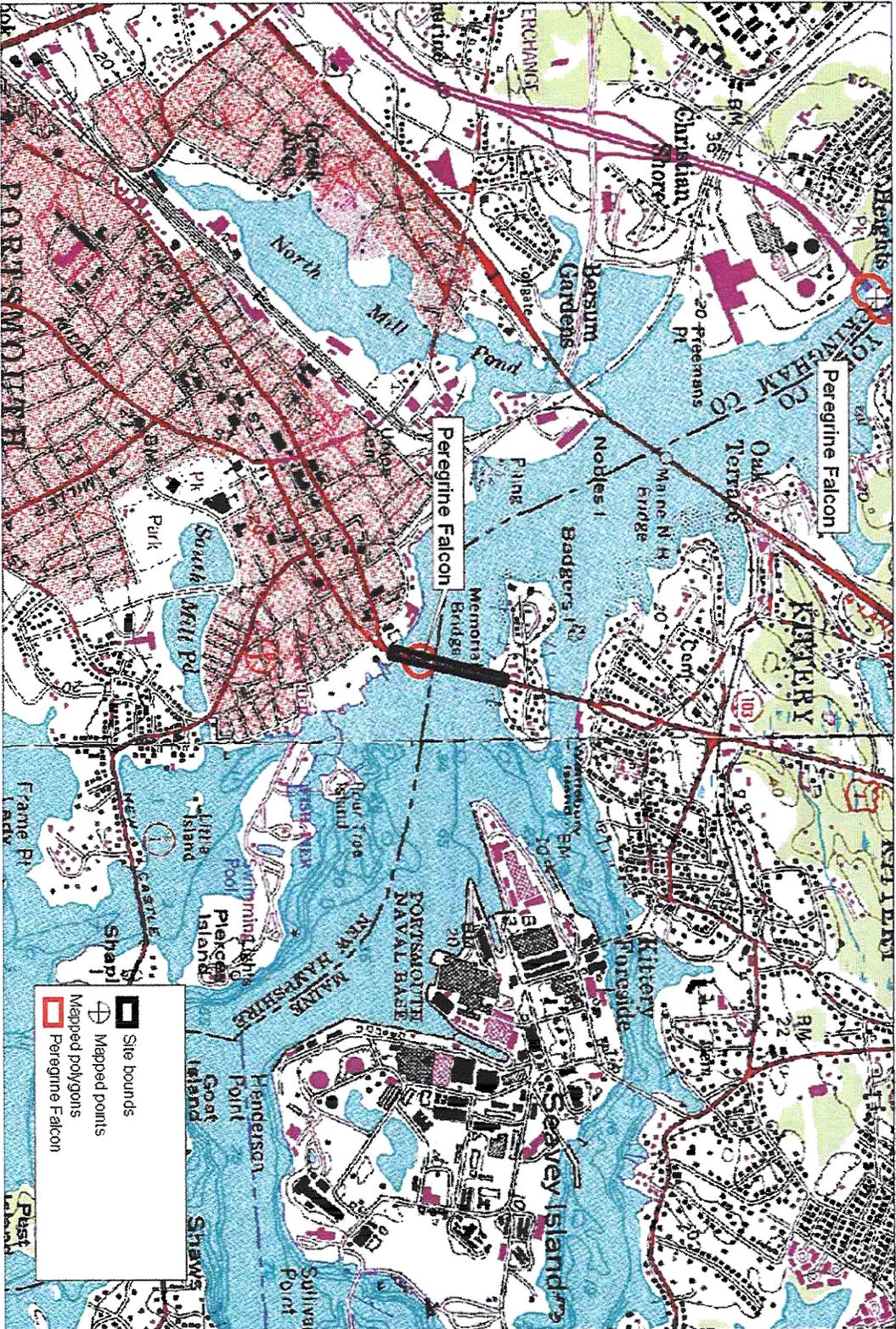
NHB10-2778



NH NATURAL HERITAGE BUREAU

Known locations of rare species and exemplary natural communities

Note: Mapped locations are not always exact. Occurrences that are not in the vicinity of the project are not shown.



0.25 0 0.25 0.5 0.75 1 Miles
1:18000

Valid for one year from this date. 12 Nov 2010

New Hampshire Natural Heritage Bureau - Animal Record

Peregrine Falcon (*Falco peregrinus anatum*)

Legal Status

Federal: Monitored
State: Listed Threatened

Conservation Status

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

Description at this Location

Conservation Rank: Poor quality, condition and/or landscape context ('D' on a scale of A-D).
Comments on Rank: Only 1 extant nesting site within EO.

Detailed Description: 2010: I-95, Nest 2: 3 chicks fledged 2009: I-95 Bridge: 3 chicks fledged. 2008: I-95 Bridge: 1 chick fledged, not banded. 2007: I-95 Bridge: 1 chick fledged, not banded. 2006: Memorial Bridge: Nest failed after hatch.
General Area: 2007: I-95 Bridge: Used cavity in superstructure beam of bridge. 2006: Memorial Bridge: Southwest tower of bridge
General Comments: 2007: I-95 Bridge: Adult male and female unbanded both legs. 2006: Memorial Bridge: Formerly nested at Portsmouth Naval Shipyard in Maine. Both adults unbanded both legs. Collected 1 unhatched egg.
Management Comments: 2007: I-95 Bridge: Area normally restricted access, so no recreational closure signs necessary. Birds did not use nest tray/box placed below bridge deck in March 2007. Need to know future maintenance schedule.

Location

Survey Site Name: Portsmouth Harbor
Managed By:

County: Rockingham
Town(s): Portsmouth
Site: 5.4 acres

USGS quad(s): Portsmouth (4307017)
Lat, Long: 430533N, 0704600W
Elevation:

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

Directions: Memorial Bridge: Rte. 1 north of Portsmouth near the border of NH and ME. I-95 Bridge: Nested in cavity of a superstructure beam on the Interstate 95 bridge just south of the border between NH and ME.

Dates documented

First reported: 2006
Last reported: 2010

Martin, Chris. 2007. Status of Breeding Peregrine Falcons in New Hampshire in 2007. Final report submitted to NH Fish and Game, October, 15, 2007.

Vicki Chase - RE: Memorial Bridge NHB 10-2778

From: "Tuttle, Kim" <Kim.Tuttle@wildlife.nh.gov>
To: Vicki Chase <vchase@mjinc.com>
Date: 1/28/2011 9:54 AM
Subject: RE: Memorial Bridge NHB 10-2778

Vicki,

The NHFG Nongame and Endangered Species Program concurs with Chris Martin's assessment. Impacts to peregrine falcon are unlikely as the peregrine falcons have not nested on the Memorial Bridge structure in the last several years. If for some reason, a pair is observed building a nest on the bridge, contact Mike Marchand, John Kanter (NHFG) or Chris Martin (NH Audubon) immediately and we will decide what has to happen (e.g. discourage nesting).

Regards,

Kim Tuttle
Wildlife Biologist
NH Fish and Game
Nongame and Endangered Species Program
603-271-6544

From: Vicki Chase [mailto:vchase@mjinc.com]
Sent: Friday, January 28, 2011 9:18 AM
To: Tuttle, Kim
Subject: RE: Memorial Bridge NHB 10-2778

Hi Kim,

I received the correspondence from Chris Martin about the peregrine falcons on the Memorial Bridge, as did you - please let me know how you would like to proceed.

Thanks,

Vicki

Vicki Chase
Environmental Analyst

McFarland-Johnson, Inc.
53 Regional Drive
Concord, NH 03301

Phone: 603-225-2978
Fax: 603-225-0095

www.mjinc.com

>>> "Tuttle, Kim" <Kim.Tuttle@wildlife.nh.gov> 1/25/2011 8:17 AM >>>
Vicki.

Any further details will help NHFG review for potential impacts to peregrine falcon. Is there a timeline for the construction? Will the new bridge be built alongside the old one and then removed or will the current structure be torn down and the new one built in its place?

Thanks,
Kim

Kim Tuttle
Wildlife Biologist
NH Fish and Game
Nongame and Endangered Species Program
603-271-6544

From: Vicki Chase [mailto:vchase@mjinc.com]
Sent: Monday, January 24, 2011 4:19 PM
To: Tuttle, Kim
Subject: Memorial Bridge NHB 10-2778

Hi Kim,

McFarland Johnson is providing environmental permitting services for the NHDOT for the proposed replacement of the Memorial Bridge connecting Portsmouth with Kittery, Maine. We recently submitted a rare species review request to the NH Natural Heritage Bureau, which responded that there is a record of a peregrine falcon previously nesting on the bridge superstructure. (NHB 10-2778)

The previous environmental study prepared for the bridge rehabilitation, approved in May, 2008, stated

"The USFWS, Maine Office, reported that the peregrine falcon (*Falco peregrinus*), a Federal species of concern and State-endangered species in New Hampshire and Maine, had been observed using the Memorial Bridge as a hunting perch and nests at the nearby Portsmouth Naval Shipyard. In the spring of 2006, a peregrine falcon nest was established on the movable counterweight on the Memorial Bridge. Spring-time inspections of the counterweight on the Memorial Bridge were suspended to avoid disturbing the nest. The nest was subsequently abandoned during a rainstorm in mid-May and was not productive. The NHDOT has since established a more stable platform/nesting site atop the I-95 Bridge as an alternative site. In the spring of 2007, peregrine falcons were observed on the I-95 Bridge, although nesting was not confirmed, and the peregrine falcons have not been observed on, and did not return to nest on, the Memorial Bridge."

Because the project has changed and now involves removing and replacing the existing bridge, we request guidance or information about the known presence of peregrine falcons on the Memorial Bridge.

Thank you for your assistance in this matter.

Vicki Chase
Environmental Analyst

McFarland-Johnson, Inc.
53 Regional Drive
Concord, NH 03301

Phone: 603-225-2978
Fax: 603-225-0095

www.mjinc.com

From: Christian Martin <CMartin@NHAudubon.org>
To: Vicki Chase <vchase@mjinc.com>
CC: Tony Tur <anthony_tur@fws.gov>, Charlie Todd <charlie.todd@maine.gov>, K...
Date: 1/25/2011 2:41 PM
Subject: Re: FW: Memorial Bridge NHB 10-2778
Attachments: PEFA incubating eggs on Memorial Bridge 5-2-06 by NHDOT.JPG; I-95 PEFA chicks 6-7-10 by Chris Martin.JPG; Mem Bridge 1-10-11 by Steve Bennett.bmp; PEF A on Memorial Bridge 2-6-10 by Steve Mirick.jpg

Vicki and others -

The information that you have presented below about peregrine falcons nesting at the Memorial Bridge and the Portsmouth Naval Shipyard is largely accurate, however it is dated. I can provide you with updated info covering 2007 thru 2010. Much of what I am about to tell you is information that has previously been provided to both the NH Natural Heritage Bureau and to the NH Fish & Game Nongame Wildlife Program. In New Hampshire, these two agencies remain the appropriate State-level contacts for this information. As this is a bi-state bridge, Maine's Department of Inland Fisheries and Wildlife should also be consulted.

In Spring of 2006, the Portsmouth Harbor peregrine falcon pair did attempt to nest on the Memorial Bridge (see attachment) but failed due primarily to excessive rainfall during incubation. From 2007-2010, the peregrine falcon pair has nested successfully 4 out of 4 years on the Interstate 95 Bridge upstream about one mile from the Memorial Bridge. The adults have raised 8 fledglings during that time: 1 in 2007, 1 in 2008, 3 in 2009, and 3 in 2010. In 2007-2009, they nested in three different locations in hollow beams in the superstructure of the bridge (in NH in 2007 and 2008, in Maine in 2009). In 2010 they nested on a gravel-filled tray (see attachment) placed on beams located under the road surface. Two such trays/boxes were installed under the bridge in March 2007 by US Fish & Wildlife Service and NH Department of Transportation staff.

These local peregrines continue to utilize both the Memorial and Sarah Long bridges as two of many available perching sites, but appear to have selected the I-95 Bridge as their primary nesting location. Perching on the Memorial Bridge is documented annually; in fact over the last several weeks birders have seen one or both members of the pair perching on the Memorial Bridge (see attachments) with regularity, as detailed below.

1/8/2011 1 Peregrine atop a tower of the Memorial Bridge checking out the peregrines at Prescott Park (Dave Tucker)
1/9/2011 2 Peregrines together on Memorial Bridge in Portsmouth (Steve Bennett)
1/11/2011 1 ad Peregrine sitting on Memorial Bridge (NH side) in Portsmouth (Steve Mirick)
1/22/2011 1 Peregrine on Memorial Bridge about 12:30pm (Phil and Julie Brown)

I hope this addresses some of your initial questions and concerns. Please continue to work through the NH Fish & Game Wildlife Nongame Program and Maine DIF&W regarding this matter; I will endeavor to assist as appropriate.

- Chris

From: Vicki Chase [mailto:vchase@mjinc.com]
Sent: Monday, January 24, 2011 4:19 PM
To: Tuttle, Kim
Subject: Memorial Bridge NHB 10-2778

Hi Kim,

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Because the project has changed and now involves removing and replacing the existing bridge, we request guidance or information about the known presence of peregrine falcons on the Memorial Bridge.

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Vicki Chase
Environmental Analyst

McFarland-Johnson, Inc.
53 Regional Drive
Concord, NH 03301

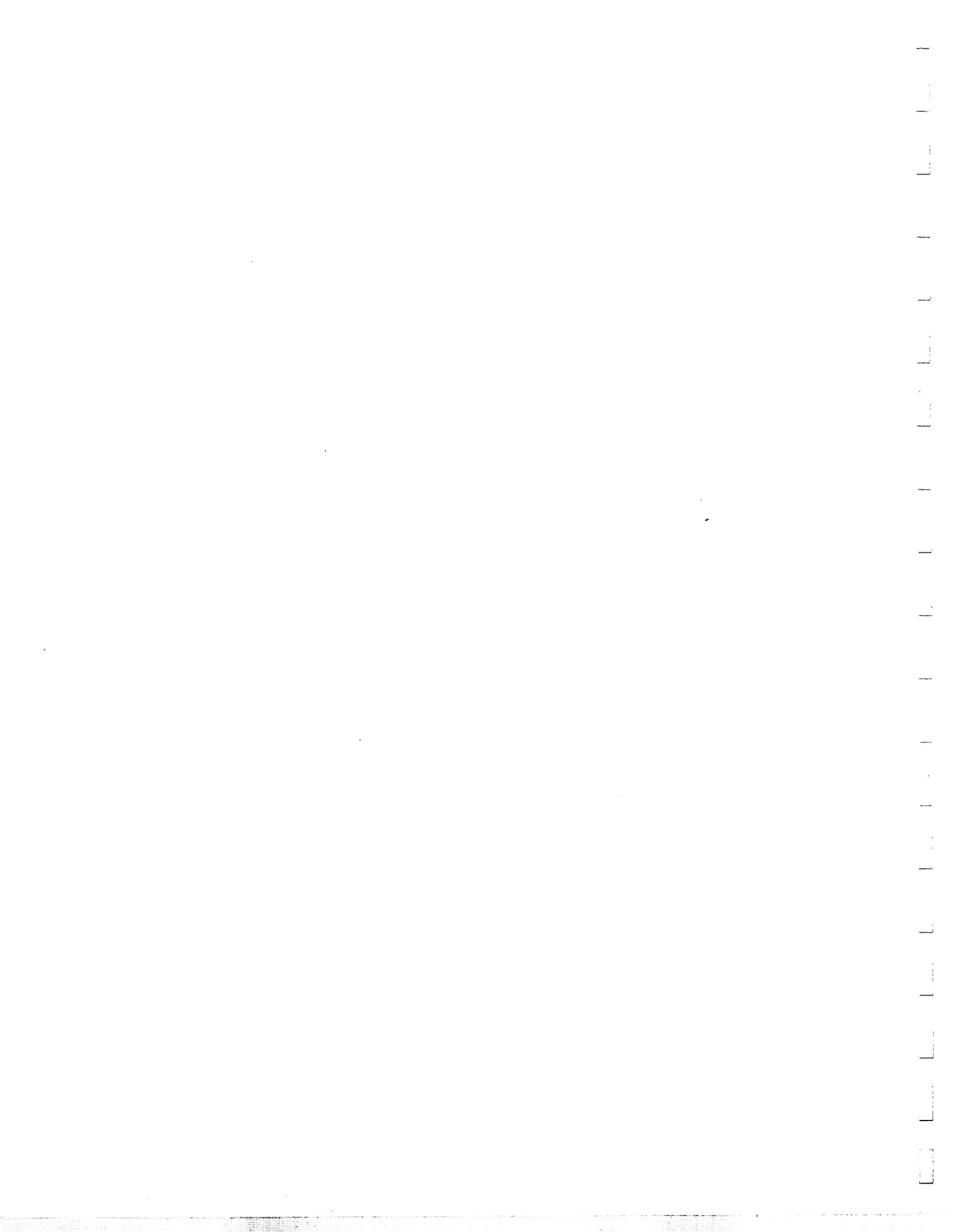
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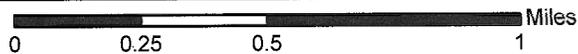
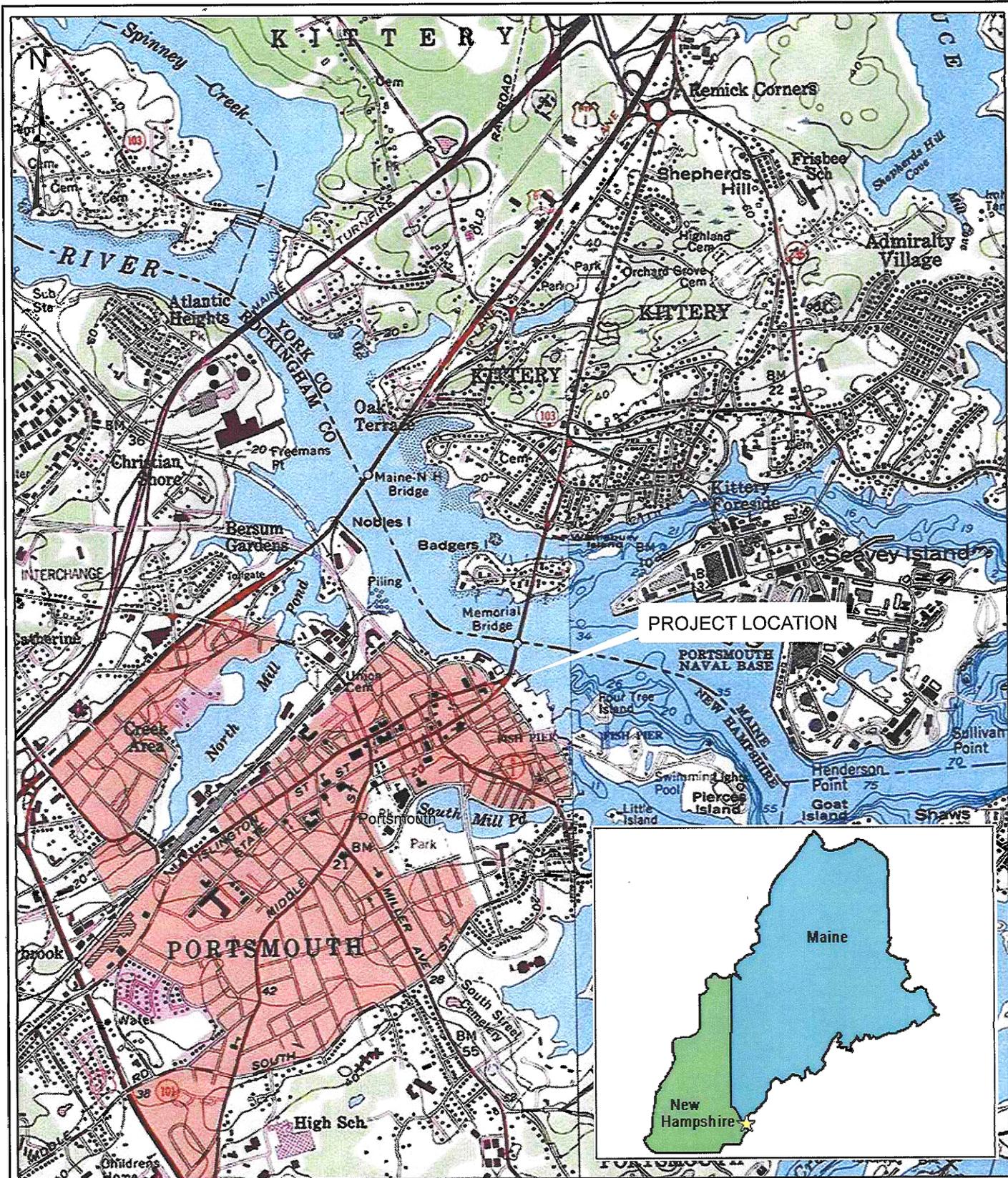
www.mjinc.com

Chris Martin, Senior Biologist
Conservation Department, New Hampshire Audubon
84 Silk Farm Road, Concord, NH 03301

Office phone: 603/224-9909 x317; Fax: 603/226-0902;
E-mail: cmartin@nhaudubon.org; Web: www.nhaudubon.org

New Hampshire Audubon -- Protecting New Hampshire's natural environment for wildlife and for people.





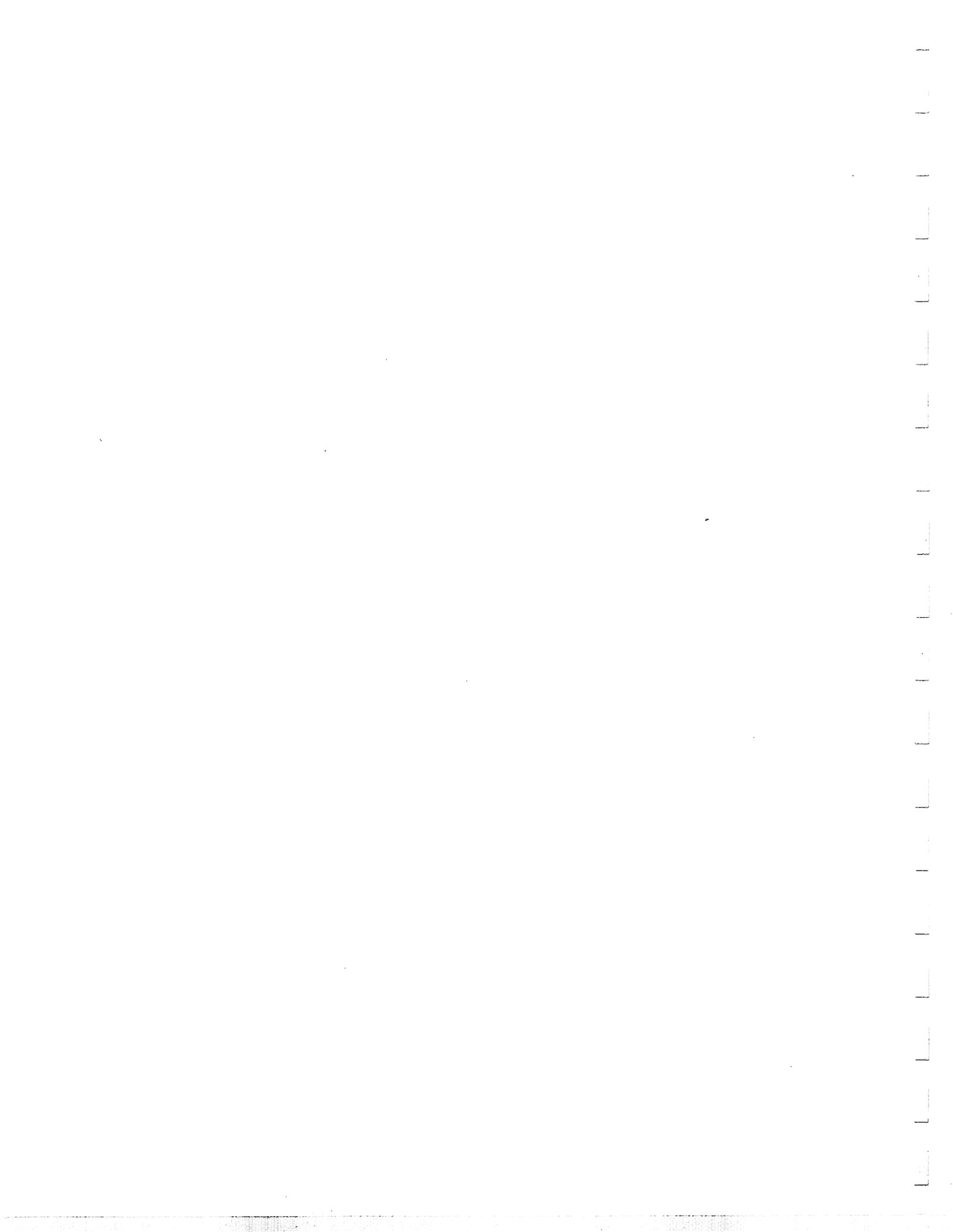
NEW HAMPSHIRE DOT
PORTSMOUTH, NH

MEMORIAL BRIDGE (U.S. ROUTE 1) REPLACEMENT

LOCUS

SCALE:	DATE:	FIGURE:
1:24,000	JULY 2011	1







Legend

- - - 100' Tidal Buffer Zone
- - - Highest Observable Tide Line
- Parcel Lines



NEW HAMPSHIRE DOT
PORTSMOUTH, NH

**MEMORIAL BRIDGE (U.S. ROUTE 1) REPLACEMENT
CSPA JURISDICTION AND PHOTO LOCATIONS**

APPROXIMATE SCALE :	DATE :	FIGURE :
1:600	JULY 2011	2



SHORELAND IMPACT SUMMARY	
REF-150	10,098
150-250	28,630
TOTAL CSPA	38,728

NOTE: CSPA JURISDICTION STARTS AT TIDAL BUFFER ZONE BOUNDARY, 100' LANDWARD OF REFERENCE LINE

ALL SHORELAND IMPACTS ARE TEMPORARY

EROSION CONTROL PLAN TO BE DEVELOPED WITH ALL APPROPRIATE BMPs

- Legend**
- 100' Tidal Buffer Zone
 - - - Highest Observable Tide Line
 - Parcel Lines
 - [Stippled Pattern] NHWB (Tidal Buffer Zone)
 - [Cross-hatched Pattern] PERVIOUS
 - [Diagonal Lines /] SHORELAND IMPACT REF TO NWB150
 - [Diagonal Lines \] SHORELAND IMPACT NWB 150 TO CSPA 250

NEW HAMPSHIRE DOT
PORTSMOUTH, NH

MEMORIAL BRIDGE (U.S. ROUTE 1) REPLACEMENT

CSPA PROPOSED IMPACTS

APPROXIMATE SCALE: 1:800
DATE: JULY 2011
FIGURE: 3

