TOWN OF EXETER, NEW HAMPSHIRE

10 FRONT STREET • EXETER, NH • 03833-3792 • (603) 778-0591 •FAX 772-4709
www.exeternh.gov

PUBLIC NOTICE
EXETER CONSERVATION COMMISSION

The Exeter Conservation Commission will meet in the Novak Room
of the Town Office Building, Exeter on **Tuesday, January 13th, 2015 at 7:00 P.M.**

Call to Order:

1. Introduction of Members Present
2. Public Comment

Action Items

1. Squamscott River Sediment Remediation (*Mark McCabe*)
2. Proposed Epping Road Corridor Wetland Zoning Amendments (*Darren Winham*)
3. Tan Lane Parking Lot Improvements Minimum Impact Expedited Wetland Permit Application, Map 72, Lot 209 (*Jeff Clifford*)
4. Raynes Farm Long Range Development Plan Update (*Don Briselden*)
5. Forest Management Plan Implementation (*Don Briselden*)
6. Approval of Minutes: December 9th, 2014
7. Next Meeting Date and Agenda Items

Jay Gregoire, Chair
Exeter Conservation Commission
Posted January 12th, 2015 Exeter Town Office, Exeter Public Library, and Town Departments.

AECOM Environment :

Prepared by:
AECOM
Chelmsford, MA

January 2015

New Hampshire Department of Environmental Services

Standard Dredge and Fill Permit Application

US Army Corps of Engineers

Programmatic General Permit Application

Northern Utilities
Squamscott River Sediment Remediation
Exeter, New Hampshire

THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF ENVIRONMENTAL SERVICES
LAND RESOURCES MANAGEMENT
WETLANDS BUREAU
29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
Phone: (603) 271-2147 Fax: (603) 271-6588
http://des.nh.gov/organization/divisions/water/wetlands

PERMIT APPLICATION

Administrative Use Only	*Administrative Use Only*	*Administrative Use Only*	File No.:
			Check No.:
			Amount:
			Initials:

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)

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

ADDRESS: **Swasey Parkway / 13 Newfields Road** TOWN/CITY: **Exeter**

TAX MAP: **64 / 49** BLOCK: **45 / 15** LOT: UNIT:

USGS TOPO MAP WATERBODY NAME: **Squamscott River** ☐ NA STREAM WATERSHED SIZE: **128 sq miles** ☐ NA

LOCATION COORDINATES (If known): **E 1175852 N 177507** ☐ 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.

Northern Utilities will remove approximately 300 cubic yards of contaminated sediment from an area of the Squamscott River adjacent to Swasey Parkway as a proactive ecological restoration effort. The removal will eliminate the source of sheen and odor adjacent to a storm water outfall. The sediment impacts are the result of a prior release from a former manufactured gas plant site that operate in Exeter during the period between 1864 and 1955. The impacted sediment will be transported by barge to a temporary processing area at the Exeter DPW facility where it will be prepared for transport/disposal at a permitted off-site facility. A more detailed description of the process is provided in Attachment B, with illustrations including maps and plans provided in Attachments I and K, respectively.

4. RELATED PERMITS, ENFORCEMENT, EMERGENCY AUTHORIZATION, SHORELAND, ALTERATION OF TERRAIN, ETC…

Project to be conducted under the US Army Corps of Engineers New Hampshire Programmatic General Permit

5. 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 14-4445.

b. ☒ Designated River the project is in ¼ miles of: **Lower Exeter – Squamscott Rivers** ; and
date a copy of the application was sent to Local River Advisory Committee: Month: **1** Day: **14** Year: **2015 estimated.**
☐ NA

6. APPLICANT INFORMATION (Desired permit holder)

LAST NAME, FIRST NAME, M.I.: **Murphy, Thomas. Manager Environmental Compliance and Business Continuity**

TRUST / COMPANY NAME: **Northern Utilities/ Unitil Corp.** | MAILING ADDRESS: **6 Liberty Lane West**

TOWN/CITY: **Hampton** | STATE: **NH** | ZIP CODE: **03842**

EMAIL or FAX: **murphyt@unitil.com** | PHONE: **603.379.3829**

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

7. PROPERTY OWNER INFORMATION (If different than applicant)

LAST NAME, FIRST NAME, M.I.: **Perry, Jennifer, DPW Director**

TRUST / COMPANY NAME: **Town of Exeter** | MAILING ADDRESS: **13 Newfields Road**

TOWN/CITY: **Exeter** | STATE: **NH** | ZIP CODE: **03833**

EMAIL or FAX: **jperry@exeternh.gov** | PHONE: **603.773.6157**

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

8. AUTHORIZED AGENT INFORMATION

LAST NAME, FIRST NAME, M.I.: **McCabe, Mark** | COMPANY NAME: **AECOM**

MAILING ADDRESS: **250 Apollo Drive**

TOWN/CITY: **Chelmsford** | STATE: **MA** | ZIP CODE: **01824**

EMAIL or FAX: **mark.mccabe@aecom.com** | PHONE: **978.905.2311**

ELECTRONIC COMMUNICATION: By initialing here **M.M.**, I hereby authorize DES to communicate all matters relative to this application electronically

9. 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 copy of the application materials to the NH State Historic Preservation Officer.
8. I authorize DES 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 DES correspondence. DES will not forward returned mail.

⇨ Property Owner Signature	Print name legibly	/ / Date

MUNICIPAL SIGNATURES

10. 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.

Authorized Commission Signature	Print name legibly	Date
⇨		

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.

2. The Conservation Commission signature should be obtained **prior** to the submittal of the original application and four copies to the town/city clerk for mailing to the DES.

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.

11. 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.

Town/City Clerk Signature	Print name legibly	Town/City	Date
⇨			

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, sign and accept the applications **only** if the Conservation Commission signature has been received;
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 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.

12. 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.

After-the-fact (ATF): work completed prior to receipt of this application by DES. Check box to indicate ATF.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland		☐ ATF		☐ ATF
Scrub-shrub wetland		☐ ATF		☐ ATF
Emergent wetland		☐ ATF		☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	/	☐ ATF	/	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	/	☐ ATF	/	☐ ATF
Bank - Perennial stream / River	/	☐ ATF	/	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	1,600 / 80	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF	800	☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland		☐ ATF		☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	1,600 / 80		800 / 16	

13. 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) **1,600** sq. ft. X $0.20 = $ **320**

Temporary (seasonal) docking structure: **800** sq. ft. X $1.00 = $ **800**

Permanent docking structure: _____ sq. ft. X $2.00 = $ _____

Projects proposing shoreline structures (including docks) add $200 = $ _____

Total = $ **1,120**

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

Attachment A

Application Fee

Attachment B

Project Description

Project Summary
Northern Utilities
Sediment Remediation
Squamscott River Outfall
Exeter, New Hampshire

Introduction

The Exeter Gas Light Company, a predecessor of Northern Utilities, Inc. (Northern), operated a manufactured gas plant (MGP) at the intersection of Water and Green Streets in Exeter during the period between 1864 and 1955. The facility provided fuel for lighting and heat to the community, and was decommissioned with the introduction of interstate natural gas pipelines. While Northern never conducted manufactured gas operations at this property, as the current owner, Northern assumed the environmental liability and completed an environmental cleanup of the property during the period between 2001 and 2002. A Certificate of Completion was issued for the work by the New Hampshire Department of Environmental Services (NHDES).

In August 2008, representatives of the Town of Exeter (Town) notified Northern of the presence of sheen and odor adjacent to a storm water outfall in the Squamscott River (the Site). A preliminary investigation indicated the presence of MGP residuals in the sediments resulting from a historic discharge into the municipal line from the former MGP. Northern has successfully controlled the potential for sheen/odor with interim measures during the development of a Remedial Action Plan (RAP) to address the associated MGP impacts in sediment.

Site Setting

The findings from a phased investigation of the Site indicate that mobile coal tar, i.e. product, is the source of the sheen on the sediments/ surface water, and that the ecological risk from MGP residuals is limited to sediments that are visibly impacted by this material. Product impacts in the river are limited to an area of approximately 1,400 sq. ft. of sediment to a general depth of 5 ft. below top of sediment (btos). Less concentrated MGP impacts, as evidenced by sheen upon disturbance, staining, and elevated levels of MGP constituents of interest, were documented outside of this area in both surface and subsurface sediments.

The impacted area of the Squamscott River is located adjacent to Swasey Parkway (Figure I-1), a popular recreational area that is heavily landscaped with grass and historic trees. The river is separated from the Parkway by a rip rap embankment that has an elevation of approximately 10 vertical feet. The impacted area of sediment has only limited accessibility from the land side during low tide and is covered by shallow water (up to 3 ft.) during other periods.

Remedial Goals

The goal for the remediation effort will be to meet water quality criteria in the Squamscott River, and eliminate the potential for risk from the MGP residuals. Achieving the Remedial Goal for the Site will require that a proactive ecological restoration of the area be conducted to eliminate the migration of product to the surface of the sediment and control associated potential exposure pathways. It is assumed that the remaining impacts, i.e., sediment exhibiting significant staining or generating sheen only upon disturbance, will be mitigated by natural biological processes once the product has been removed.

Remedy

The Town staff has expressed a desire for Northern to implement a final remedy for the Site and a preference to minimize the disturbance to the Swasey Parkway. In support of the Town's interests, Northern has proposed conducting the Site activities from the water to eliminate the need for staging heavy equipment and transporting material through the Parkway. The RAP document that recommended the water-side approach was approved by NHDES Hazardous Waste Remediation Bureau in September 2014. A summary of the approach, as presented in the RAP, is provided below. It should be noted that the figures provided in this summary are intended for informational purposes, and that detailed design drawings will be developed as part of a Technical Specifications package once the permitting process is complete and site surveys have been developed.

Sediment dredging will be conducted using equipment based on shallow draft barges. The removal activities will be conducted within a sheet pile barrier (approximately 200 linear feet) that will be keyed into the bank of the river to provide the primary control of silt and sheen. The sheets will be installed using a vibratory technique to minimize disruption to the surrounding community. Secondary sorbent boom and silt curtain controls will be placed outside of the work area. An illustration of the proposed layout of the dredge site is provided in Figure K-1. Approximately 60 linear feet of bank and 1,600 sq. ft. of river will be disturbed by the activity. A cross section of the dredge area is illustrated in Figure K-2. The excavation will be conducted in the 'wet' using GPS-equipped equipment to effectively control the depth of excavation to a consistent elevation (1-3 ft. below the observed impacts) across the dredge area. Figure K-3 provides an illustration of the restored outfall. As indicated, the sediment will be removed below the elevation of the outfall (currently assumed to be 2 ft. btos). The area will be backfilled to create a channel from the mouth of the outfall out into the river. Backfill material will be a silty sand that is consistent with the native material (37% fines. 60% sand, 3% gravel). The channel will be sloped (2h:1v) for stability and lined with rip rap (approximately 10 ft. from the mouth of the outfall) to minimize erosion.

Dredged material (approximately 300 cubic yards [cy]) will be transported in covered roll-off boxes on shallow draft barges to the Exeter Department of Public Works (DPW) facility (approximately 1 mile down river) for subsequent handling prior to disposal. A temporary dock (approximately 50 ft. in length and up to 16 ft. in width) will be constructed at the DPW site to facilitate the off-loading of the roll-off boxes from the barges by crane. The proposed location of the temporary dock and relative location of the dewatering pad are illustrated in Figure K-4. The dock will be placed in an area that will minimize disturbance to the salt marsh vegetation. Plans for restoration of the disturbed area will be developed as part of the Technical Specifications and will be provided to NHDES for review once the location is finalized.

The covered roll-offs will be transported to temporary dewatering/ stockpile area (K-5). The excavated sediment material will be offloaded by excavator to the treatment area (bermed/lined) for final dewatering, i.e. free draining and addition of drying agent such as kiln dust or quick lime, and sampling to facilitate off-site disposal at a thermal desorption facility. Effluent from sediment dewatering activities will be collected in a sump and treated in a portable unit located at the DPW facility. The treated effluent will be discharged to the Exeter Publically Owned Treatment Works (POTW) under an Industrial Wastewater Indirect Discharge Permit. Note that a similar approach for transporting material to the DPW facility and conditioning of dredged sediment was used for a maintenance dredging program conducted by Phillips Exeter Academy in 2003.

The tidal influence and relatively shallow water in the area adjacent to the outfall will affect the schedule for conducting the remediation since access to the Site will be limited during low tide. Highly disruptive work such as the installation/removal of sheet pile will be scheduled to maximize the use of the "daytime" work shifts and limit the inconvenience to local residents. Excavation will also be conducted during daytime hours using a barge-mounted clam shell excavator. The excavator barge will stabilized adjacent to the bank using spuds to allow excavation/transfer of

material to transportation barges during both low and high tides. Depending on the tide cycle, the barges (practical capacity of approximately 75 cy) will only be able to be “cycled” between the Site and DPW facility 1 or 2 times per day, limiting the excavation rate to approximately 100 cy per day.

Communications with the Natural Heritage Bureau and the State Historical Preservation Office have confirmed that the location and timing of the project are not expected to have a detrimental impact on the area. NHDES is currently reviewing the schedule for the project, particularly whether the work in the river could be initiated prior to the current dredge “window” of November 15 to March 15 to limit the potential effect on rainbow smelt runs in the area. Work is planned to start on the earliest allowable date to minimize the effect of weather conditions on the project schedule. It is estimated that work in the river, including backfilling to restore the surface of the sediment, can be completed within a 30-day period, with additional off-site work related to the management of excavated sediment and collected water completed within an additional 45-days.

Attachment C

Required Signature

The following signatures are provided with the Applications
- Property Owner - Item 9
- Conservation Commission - Item 10
- Town Clerk - Item 11

Attachment D

Pre-Application Notes

McCarthy, Ryan

From: Richardson, Frank [Frank.Richardson@des.nh.gov]
Sent: Wednesday, September 17, 2014 15:21
To: Rydel, Paul; McCabe, Mark
Cc: Gatherum, Tom; Murphy, Thomas; McCarthy, Ryan
Subject: RE: Exeter Squamscott River Project

Meeting Confirmed.

Monday October 13, 2014 @ 10:00am Pease Field Office Room D

Frank D. Richardson, Ph.D.
Senior Wetlands Inspector
Southeast Region Supervisor
NH DES Wetlands Bureau
Pease Field Office
222 International Drive, Suite 175
Portsmouth, NH 03801
Tel. (603) 559-1513
Fax (603) 559-1510

From: Rydel, Paul
Sent: Wednesday, September 17, 2014 2:12 PM
To: 'McCabe, Mark'; Richardson, Frank
Cc: Gatherum, Tom; Murphy, Thomas; McCarthy, Ryan
Subject: RE: Exeter Squamscott River Project

Great – it's on my calendar.

Paul Rydel, P.G.
New Hampshire Department of Environmental Services
Hazardous Waste Remediation Bureau

direct: 603.271-3116
paul.rydel@des.nh.gov

From: McCabe, Mark [mailto:Mark.McCabe@aecom.com]
Sent: Wednesday, September 17, 2014 1:01 PM
To: Richardson, Frank; Rydel, Paul
Cc: Gatherum, Tom; Murphy, Thomas; McCarthy, Ryan
Subject: RE: Exeter Squamscott River Project

Frank and Paul,
It looks like October 13 will work.

Attendees:

- Northern Utilities/Unitil – Tom Gatherum and Tom Murphy
- AECOM – Ryan McCarthy and Mark McCabe

I'll pull together a project summary that you can circulate prior to the meeting. As additional background, note that Phillips Exeter Academy went through the permitting process for maintenance dredging in this area of the river in 2003.

Regards,
Mark

Mark McCabe
Environment
D: 978.905.2311 C:508.423.9018
mark.mccabe@aecom.com

AECOM
250 Apollo Drive
Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101
www.aecom.com

From: Richardson, Frank [mailto:Frank.Richardson@des.nh.gov]
Sent: Tuesday, September 16, 2014 3:27 PM
To: McCabe, Mark; Rydel, Paul
Subject: RE: Exeter Squamscott River Project
Importance: High

Paul & Mark,

I just discovered a room schedule conflict. There are no rooms available on Tues. Oct 14 and for the rest of that week due to an oil spill training exercise.

However, Monday Oct. 13 (Columbus Day) is available (it's not a State of New Hampshire holiday)

I also moved us to Room D which is larger.

All meeting times remain the same … 10:00 to 12:00 each day. Weds. 10/08/14; Fri. 10/10/14 & Mon. 10/13/14

Frank

Frank D. Richardson, Ph.D.
Senior Wetlands Inspector
Southeast Region Supervisor
NH DES Wetlands Bureau
Pease Field Office
222 International Drive, Suite 175
Portsmouth, NH 03801
Tel. (603) 559-1513
Fax (603) 559-1510

From: McCabe, Mark [mailto:Mark.McCabe@aecom.com]
Sent: Tuesday, September 16, 2014 3:00 PM

To: Richardson, Frank; Rydel, Paul
Subject: RE: Exeter Squamscott River Project

Frank and Paul,
I'll check with the project managers from Northern Utilities to determine their availability and prepare a project summary to fill in some of the details.

Thank you for organizing this.

Regards,
Mark

Mark McCabe
Environment
D: 978.905.2311 C:508.423.9018
mark.mccabe@aecom.com

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978.905.2100 tel
978.905.2101 fax

Meeting Minutes

Client:	Northern Utilities
Project Name:	Exeter/ Squamscott River Dredging
AECOM Project Number:	60139731
Date:	10/13/14
Location:	NHDES Pease Field Office, Portsmouth, NH
Meeting Purpose:	Pre-Application Meeting
Prepared By:	Ryan McCarthy

In Attendance			
Name	**Company**	**Telephone**	**E-mail Address**
Frank Richardson	NHDES - Wetlands	603-559-1513	Frank.Richardson@des.nh.us
Mark McCabe	AECOM	978-905-2311	Mark.McCabe@aecom.com
Tom Gatherum	Unitil Service Corp.	603-227-4545	Gatherum@unitil.com
Ryan McCarthy	AECOM	978-905-2312	Ryan.McCarthy@aecom.com
Paul Rydel	NHDES – HWRB	603-271-3116	Paul.Rydel@des.nh.us

Action Item Number	Action Item	Responsibility
0001	Coordination with NH Fish and Game	AECOM
0002	Coordination with Exeter DPW given concurrent construction schedules	AECOM
0003	Conduct SHPO file review	AECOM
0004	Coordination with New Hampshire Heritage Bureau	AECOM
0005	Get project on agenda for 1/14/15 NH Dredge Management Task Force meeting	AECOM

Summary
AECOM and Unitil met at NHDES's Pease Field office to formally "kick off" the proposed Squamscott River sediment remediation project and begin to better understand the required permitting activities. Frank Richardson (NHDES) gave a very detailed description of each of the necessary steps and provided contact information for many of the key contacts within the state. Mr. Richardson also described a vehicle by which this project could receive an expedited permit review. Overall, a very positive meeting and AECOM/ Unitil left the meeting with a clear understanding of how to proceed.

McCarthy, Ryan

From: McCabe, Mark
Sent: Tuesday, October 21, 2014 11:44
To: Patterson, Cheri
Cc: Murphy, Thomas; Gatherum, Tom; McCarthy, Ryan; Rydel, Paul; Richardson, Frank; Dionne, Michael
Subject: RE: Squamscott River Sediment project

Cheri,
As we discussed this morning, we'll meet at the gazebo along the Swasey Parkway at 1 PM on Friday, November 14th to catch low tide in the river. We can then look at the "take out" area at the DPW yard. I'll contact Town staff to let them know that we're coming.

Regards,
Mark

Mark McCabe
Environment
D: 978.905.2311 C:508.423.9018
mark.mccabe@aecom.com

AECOM
250 Apollo Drive
Chelmsford, MA 01824
Phone: 978.905.2100
Fax: 978.905.2101
www.aecom.com

From: Patterson, Cheri [mailto:Cheri.Patterson@wildlife.nh.gov]
Sent: Monday, October 20, 2014 2:08 PM
To: McCabe, Mark
Cc: Murphy, Thomas; Gatherum, Tom; McCarthy, Ryan; Rydel, Paul; Richardson, Frank; Dionne, Michael
Subject: RE: Squamscott River Sediment project

Mark,

Both Mike and I reviewed the project summary and we would like a pre-permit review and site visit. Mike and I are available November 12th from 11-2 or November 14th from 10-2. Will any of these dates work for you?

Cheri Patterson
Supervisor of Marine Programs
NH Fish and Game Department
225 Main Street
Durham, NH 03824
(603)868-1095 – office
(603)868-3305 – fax

"NH Fish and Game Department: Connecting you to life outdoors"

Did you know...The NH Fish and Game Department protects, conserves and manages more than 500 species of wildlife, including 63 mammals, 18 reptiles, 22 amphibians, 313 birds, and 122 fish. For more information visit: http://wildlife.state.nh.us/Wildlife/wildlife_plan.htm

From: McCabe, Mark [mailto:Mark.McCabe@aecom.com]
Sent: Monday, October 13, 2014 3:17 PM
To: Patterson, Cheri
Cc: Murphy, Thomas; Gatherum, Tom; McCarthy, Ryan; Rydel, Paul; Richardson, Frank
Subject: Squamscott River Sediment project

Cheri,

AECOM is working with Northern Utilities to design a small environmental remediation project for an area of impacted sediment in the Squamscott River in Exeter. We had a pre-permit meeting with Paul Rydel (NHDES Site Manager and Frank Richardson this morning and they suggested that a pre-permit meeting with your office might be beneficial. Please let me know if there are some convenient times for a meeting and I'll get something scheduled with the project managers from Northern Utilities. I've attached a project summary to provide some background for the proposed work.

We look forward for meeting with you.

Regards,
Mark

Mark McCabe
Environment
D: 978.905.2311 C:508.423.9018
mark.mccabe@aecom.com

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Meeting Minutes

Client:	Northern Utilities
Project Name:	Exeter/ Squamscott River Dredging
AECOM Project Number:	60139731
Date:	11/14/14
Location:	Exeter, NH (Squamscott River Site and DPW)
Meeting Purpose:	Pre-Application Meeting
Prepared By:	Ryan McCarthy

In Attendance			
Name	**Company**	**Telephone**	**E-mail Address**
Mark McCabe	AECOM	978-905-2311	Mark.McCabe@aecom.com
Tom Murphy	Unitil Service Corp.	603-379-3829	Murphyt@unitil.com
Ryan McCarthy	AECOM	978-905-2312	Ryan.McCarthy@aecom.com
Cheri Patterson	NH F&G – Marine Div.	603-868-1095	Cheri.Patterson@wildlife.nh.gov
Mike Dionne	NH F&G – Marine Div.	603-868-1095	Michael.Dionne@wildlife.nh.gov
Sandy Amborn	AECOM	978-905-2491	Sandy.Amborn@aecom.com

Action Item Number	Action Item	Responsibility
0001	Provide NH Fish and Game final package of design plans (including outfall reconstruction and unloading trestle).	AECOM
0002	Ensure construction of temporary unloading trestle does not adversely impact existing salt marsh.	AECOM
0003	Letter regarding modified work window.	NH F&G
0004	Get project on agenda for 1/14/15 NH Dredge Management Task Force meeting	AECOM

Summary

AECOM and Unitil met NH Fish and Game representatives at the Squamscott River site to discuss the proposed sediment remediation project and obtain a better understanding of the allowed in-water work window. Cheri Patterson (NH F&G) expressed concern about the proposed work potentially impacting the rainbow smelt run in December and suggested that the project be limited to November work in 2015. This would deviate from the current prescribed in-water work window (November 15th to March 15th) and allow the project to commence earlier in the season. Ms. Patterson asked that a final set of design plans be submitted to NH F&G for review. Once plans are approved, NH F&G will draft a letter granting an exception to the existing dredge window.

The meeting then moved to the Exeter DPW site to look at the area where the temporary unloading trestle will be constructed. Ms. Patterson request that the trestle construction minimize the impacts to healthy salt marsh vegetation, and be built through areas of invasive species. AECOM/ Unitil took this suggestion under

advisement and will seek to minimize detrimental impacts on the salt marsh vegetation present at the site. Overall, a very positive meeting and AECOM/ Unitil left the meeting with a clear understanding of how to proceed.

Attachment E

Need and Minimization & Avoidance

THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF ENVIRONMENTAL SERVICES
LAND RESOURCES MANAGEMENT
WETLANDS BUREAU
29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
Phone: (603) 271-2147 Fax: (603) 271-6588
http://des.nh.gov/organization/divisions/water/wetlands/index.htm
Permit Application Status: http://des.nh.gov/onestop/index.htm

PERMIT APPLICATION - ATTACHMENT A
MINOR & MAJOR 20 QUESTIONS

Env-Wt 302.04 Requirements for Application Evaluation - For any major or minor project, the applicant shall demonstrate by plan and example that the following factors have been considered in the project's design in assessing the impact of the proposed project to areas and environments under the department's jurisdiction. Respond with statements demonstrating:

1. The need for the proposed impact.

Sediment in the project area has been impacted by residuals from a former Manufactured Gas Plant (MGP) site. The impacts are the result of the disposal of coal tar to the storm drain system during the operation of the MGP (1864 to 1855) and the subsequent depositon of the residuals in sediment from an outfall in the Squamscott River. The resduals have the potential to migrate to the surface resulting in sheen on surface water.

Although the potential for sheen generation is currently being controlled by absorbent mats placed on the surface of the sediment, a permanent remedy is warranted.

2. That the alternative proposed by the applicant is the one with the least impact to wetlands or surface waters on site.

The permanent removal of MGP residuals provides the best long-term benefit for the Squamscott River. The proposed approach will minimize the short-term impacts to the river and surrounding area by focusing the removal on those residuals having the potential to migrate to the surrface of the sediment. Lesser impacts, e.g. areas with staining and elevated consttiuent concentrations, should be addressed by natural biological processes once the mobile residuals have been removed.

3. The type and classification of the wetlands involved.

According to the the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin, 1979), the open water at the site would be classified as Riverine Tidal System with an unconsolidated bottom (R1UB1), and the vegetated area would be classified as a Riverine Tidal Persistent emergent wetland system (R12Em).

4. The relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.

The footprint at the dredging site is part of the existing river bottom. Following dredging, the area will be backfilled to the existing grade with clean fill representaive of the grain size in the immediate vicinity.

The location where the temporary unloading trestle will be constructed in an area dominated by invasive species (e.g., Phragmites australis). This stategic siting will remove some invasive species from the area (due to some limited clearing activities necessary for construction) and preserve the surrounding healthy salt marsh vegetation.

5. The rarity of the wetland, surface water, sand dunes, or tidal buffer zone area.

Within New Hampshire's Rivers Management and Protection Program, the Squamscott River in Exeter received designated river status on 5/31/11. The Exeter-Squamscott River Local Advisory committee (ESRLAC) works across towns within the entire watershed to advocate for the river, monitor land use activity in the area, and protect water quality/ wildlife habitat. The Squamscott is a tributary to the Great Bay Estuary, which is over 6,000 acres in size. The Squamscoot River flows for nine miles, from the Great Dam in Exeter out to Great Bay. The river makes a gradual transition form a freshwater ecosystem to a salty, estuarine ecosystem along the way.

6. The surface area of the wetlands that will be impacted.

Approximately 6,000 sq ft will be impacted in the dredge area. An additional 800 sq ft will be impacted by the construction of a temporary dock in a separate downstream area to facilitate access to the river.

7. The impact on plants, fish and wildlife including, but not limited to:
   a. Rare, special concern species;
   b. State and federally listed threatened and endangered species;
   c. Species at the extremities of their ranges;
   d. Migratory fish and wildlife;
   e. Exemplary natural communities identified by the DRED-NHB; and
   f. Vernal pools.

On 11/17/14, AECOM received the findings from the NH Natural Heritage Bureau's review (NHB 14-4445) of the project location. On 11/19/14, AECOM received the confirmation from the NH Fish and Game Nongame and Endangered Species Program confirming NHB's review. Based on the findings and the map provided, there are not any rare species in the immediate project area. American eel and Osprey were listed by NH Fish and Game as a species of special concern known to be present in the vicinity of the project location. In addition, there are not any state or federally listed endangered species in the immediate proejct area. The Northern Black Racer was noted as a Threatened species observed in the project area (the map indicated that this species was not observed anywhere near the proposed project footprint at the Exeter DPW). This portion of the Squamscott River is the tidal limit for the run of the river, so by definition it would be the extreme range for any anadromous fish runs in the local ecosystem (e.g., rainbow smelt, alewife, striped bass, etc). In addition, Lamprey eels are know to be present in this part of the river. There are not any known exemplary natural communities or vernal pools known to be present in the immediate project area. The letters from NH Heritage and from NH Fish and Game confirming their findings are included in this permit package.

Additionally, AECOM queried the USFWS Information, Planning, and Conservation (IPaC) decision support system for known occurrances of threatened and endangered species that may occur in the county (Rockingham) where the project is located. According to that database, two threatened species (Piping Plover and Small Whorled pogonia) and one endangered species (Roseate tern) are known to exist in Rockingham County. Additionally, it said that there are no critical habitats within the project area. The letter from USFWS is included in the permit package.

8. The impact of the proposed project on public commerce, navigation and recreation.

The dredge area and temporary dock are realtively small and will not impact navigation. The completion of the project will improve the recreational use of Swasey Parkway adjacent to the Squamscott River.

9. The extent to which a project interferes with the aesthetic interests of the general public. For example, where an applicant proposes the construction of a retaining wall on the bank of a lake, the applicant shall be required to indicate the type of material to be used and the effect of the construction of the wall on the view of other users of the lake.

The project will present a short-term inconvenience (e.g., limited noise and odor impacts) for residents in the immediate vicinity of the dredge area. Potential inconveneince will be mitigated by an effort to limit site activities to daylight hours and the use of odor-supressing foam to control fugitive emissions. All work will be conducted from the water-side to minimize the impact to Swasey Parkway.

10. The extent to which a project interferes with or obstructs public rights of passage or access. For example, where the applicant proposes to construct a dock in a narrow channel, the applicant shall be required to document the extent to which the dock would block or interfere with the passage through this area.

As stated above, the scale of the project should not obstruct public use of the Squamscott River, and the design of the project is intended to limit the effect on Swasey Parkway.

11. The impact upon abutting owners pursuant to RSA 482-A:11, II. For example, if an applicant is proposing to rip-rap a stream, the applicant shall be required to document the effect of such work on upstream and downstream abutting properties.

The project will provide limited nuisance noise and odor impacts to abutting property owners. The project schedule will be designed to maximixe activities during daylight hours and fugitive emission controls will be routinely used in the dredge area. An air monitoring program will be conducted to evaluate air quality in the immediate vicinity of the dredge and material handling areas to ensure that site activiteis do not pose a potential health risk.

12. The benefit of a project to the health, safety, and well being of the general public.

The current condition does not pose a human health risk since the area of impact is not readily accessible.

However, the intermittent migration of coal tar to the surface of the sediment result in sheen and odor that can pose an aesthetic issue for people using Swasey Parkway. The completion of the project will eliminate these issues.

13. The impact of a proposed project on quantity or quality of surface and ground water. For example, where an applicant proposes to fill wetlands the applicant shall be required to document the impact of the proposed fill on the amount of drainage entering the site versus the amount of drainage exiting the site and the difference in the quality of water entering and exiting the site.

The project will improve the quality of surface water by eliminating the source of sheen in the area adjacent to the storm water outfall.

14. The potential of a proposed project to cause or increase flooding, erosion, or sedimentation.

The surface of the sediment will be restored to current conditions so there should be no increase in the potential for flooding. The outfall of the storm drain has been covered by deposited sediment. The project will expose the outfall and improve its functionality. The restored outfall structure will include an area of rip rap to disperse the energy from storm water flow to minimize the potential for erosion.

15. The extent to which a project that is located in surface waters reflects or redirects current or wave energy which might cause damage or hazards.

The project is not anticipated to have an effect on flow in the river.

16. The cumulative impact that would result if all parties owning or abutting a portion of the affected wetland or wetland complex were also permitted alterations to the wetland proportional to the extent of their property rights. For example, an applicant who owns only a portion of a wetland shall document the applicant's percentage of ownership of that wetland and the percentage of that ownership that would be impacted.

The impacts have been effectively delineated. Additional alterations are not anticipated.

17. The impact of the proposed project on the values and functions of the total wetland or wetland complex.

The project will improve the value and function of the Squamscott River.

18. The impact upon the value of the sites included in the latest published edition of the National Register of Natural Landmarks, or sites eligible for such publication.

Per the New Hampshire Division of Historical Resources this project is not anticiapted to have impacts on any historically significant sites.

19. The impact upon the value of areas named in acts of congress or presidential proclamations as national rivers, national wilderness areas, national lakeshores, and such areas as may be established under federal, state, or municipal laws for similar and related purposes such as estuarine and marine sanctuaries.

Within New Hampshire's Rivers Management and Protection Program, the Squamscott River in Exeter received designated river status on 5/31/11. The Exeter-Squamscott River Local Advisory committee (ESRLAC) works across towns within the entire watershed to advocate for the river, monitor land use activity in the area, and protect water quality/ wildlife habitat. The Squamscott is a tributary to the Great Bay Estuary, which is over 6,000 acres in size. The Squamscoot River flows for nine miles, from the Great Dam in Exeter out to Great Bay. The river makes a gradual transition form a freshwater ecosystem to a salty, estuarine ecosystem along the way.

20. The degree to which a project redirects water from one watershed to another.

The project is not anticipated to have an effect on the redirection of water between watersheds.

Additional comments

The remedial approach has been developed in concert with the Town of Exeter Department of Public Works and approved by the NHDES Waste Management Division.

Attachment F

NHB Review

Memo

NH Natural Heritage Bureau
NHB Datacheck Results Letter

To: Ryan McCarthy, AECOM
1000 Elm Street 1000 Elm St.
Suite 802
Manchester, NH 03101

From: Melissa Coppola, NH Natural Heritage Bureau
Date: 11/17/2014 (valid for one year from this date)
Re: Review by NH Natural Heritage Bureau
NHB File ID: NHB14-4445 Town: Exeter Location: Tax Maps: Map 64 lot 45 and Map 49 lot 15

Description: Proposed remedial dredging of MGP impacted sediment (approx. 1400sq ft.) located in the Squamscott River adjacent to the Swazey Parkway in downtown Exeter. Construction of a temporary unloading area/trestle at the Exeter DPW facility for sediment processing /off-site transportation.

cc: Kim Tuttle

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

Comments:

Plant species	**State[1]**	**Federal**	**Notes**
Spongy-leaved Arrowhead (*Sagittaria montevidensis ssp. spongiosa*)	E	--	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.

Vertebrate species	**State[1]**	**Federal**	**Notes**
American Eel (*Anguilla rostrata*)	SC	--	Contact the NH Fish & Game Dept (see below).
Northern Black Racer (*Coluber constrictor constrictor*)	T	--	Contact the NH Fish & Game Dept (see below).
Osprey (*Pandion haliaetus*)	SC	--	Contact the NH Fish & Game Dept (see below).

[1]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.

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

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

DRED/NHB
PO Box 1856
Concord NH 03302-1856

species. An on-site survey would provide better information on what species and communities are indeed present.

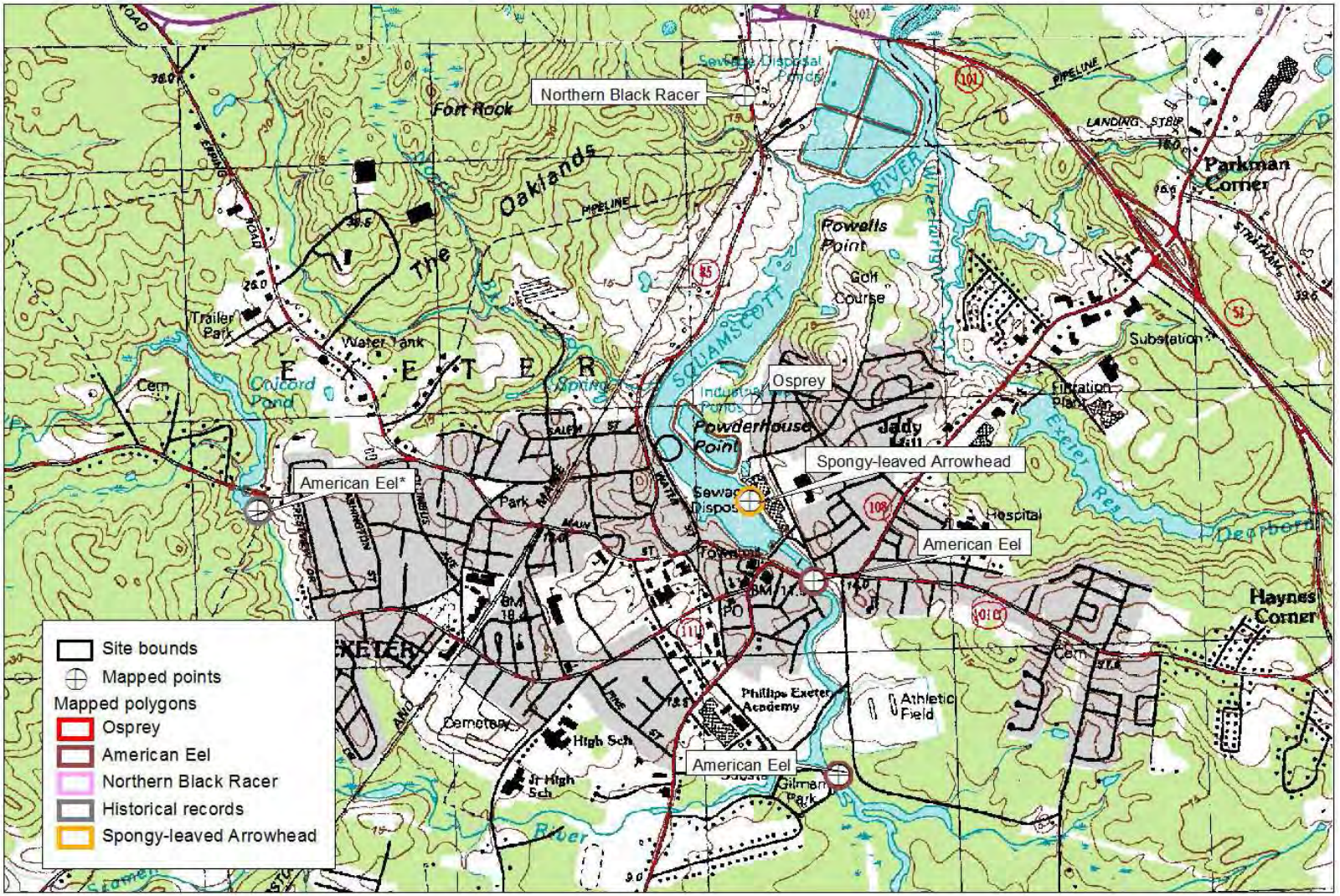
Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DRED/NHB
PO Box 1856
Concord NH 03302-1856

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.



New Hampshire Natural Heritage Bureau - Plant Record

Spongy-leaved Arrowhead (*Sagittaria montevidensis ssp. spongiosa*)

Legal Status		**Conservation Status**	
Federal:	Not listed	Global:	Apparently secure but with cause for concern
State:	Listed Endangered	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: 2003: Very common (hundreds of plants) in several areas.
General Area: 2003: Tidal ***brackish marsh*** with smooth cordgrass (*Spartina alterniflora*), softstem bulrush (*Schoenoplectus tabernaemontani*), and three-square rush (*Schoenoplectus pungens*). In alluvium, with fresh-water cordgrass (*Spartina pectinata*), common arrowhead (*Sagittaria latifolia*), and mild water pepper (*Persicaria hydropiperoides*).
General Comments:
Management Comments:

Location

Survey Site Name: Squamscott River at Exeter
Managed By:

County:	Rockingham	USGS quad(s):	Exeter (4207088)
Town(s):	Exeter	Lat, Long:	425901N, 0705649W
Size:	1.9 acres	Elevation:	

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

Directions: 2003: 250 m south of Jady Hill Ave. along the east shore of the Squamscott River in Exeter.

Dates documented

First reported:	2003-07-25	Last reported:	2003-07-25

New Hampshire Natural Heritage Bureau - Animal Record

American Eel (*Anguilla rostrata*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Apparently secure but with cause for concern
State:	SC	State:	Rare or uncommon

Description at this Location

Conservation Rank: Not ranked
Comments on Rank:

Detailed Description: 2008: Area 13324: 15 observed.
General Area:
General Comments:
Management Comments:

Location

Survey Site Name: Great Brook-Exeter River
Managed By:

County:	Rockingham	USGS quad(s):	Exeter (4207088)
Town(s):	Exeter	Lat, Long:	425851N, 0705638W
Size:	1.9 acres	Elevation:	

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

Directions: 2008: Exeter River

Dates documented

First reported:	2008-08-29	Last reported:	2008-08-29

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

New Hampshire Natural Heritage Bureau - Animal Record

American Eel (*Anguilla rostrata*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Apparently secure but with cause for concern
State:	SC	State:	Rare or uncommon

Description at this Location

Conservation Rank: Not ranked
Comments on Rank:

Detailed Description: 2008: Area 13325: 9 observed.
General Area:
General Comments:
Management Comments:

Location

Survey Site Name: Great Brook-Exeter River
Managed By: Gilman Park

County: Rockingham
Town(s): Exeter
Size: 1.9 acres

USGS quad(s): Exeter (4207088)
Lat, Long: 425826N, 0705634W
Elevation:

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

Directions: 2008: Exeter River

Dates documented

First reported: 2008-08-29 Last reported: 2008-08-29

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

New Hampshire Natural Heritage Bureau - Animal Record

American Eel (*Anguilla rostrata*)

Legal Status		Conservation Status	
Federal:	Not listed	Global:	Apparently secure but with cause for concern
State:	SC	State:	Rare or uncommon

Description at this Location

Conservation Rank: Historical records only - current condition unknown.
Comments on Rank:

Detailed Description: 1984: Area 13238: 11 observed.
General Area:
General Comments:
Management Comments:

Location

Survey Site Name: Little River - Exeter River
Managed By:

County:	Rockingham	USGS quad(s):	Exeter (4207088)
Town(s):	Exeter	Lat, Long:	425900N, 0705816W
Size:	1.9 acres	Elevation:	

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

Directions: 1984: Little River

Dates documented

First reported:	1984-10-23	Last reported:	1984-10-23

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

New Hampshire Natural Heritage Bureau - Animal Record

Northern Black Racer (*Coluber constrictor constrictor*)

Legal Status		**Conservation Status**	
Federal:	Not listed	Global:	Demonstrably widespread, abundant, and secure
State:	Listed Threatened	State:	Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank:

Detailed Description: 2012: Area 13078: 1 adult observed.
General Area: 2012: Area 13078: Residential yard.
General Comments:
Management Comments:

Location

Survey Site Name: The Oaklands
Managed By:

County:	Rockingham	USGS quad(s):	Exeter (4207088)
Town(s):	Exeter	Lat, Long:	425953N, 0705650W
Size:	.4 acres	Elevation:	

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

Directions: 2012: Area 13078: 20 Newfields Road, Exeter.

Dates documented

First reported:	2012-06-23	Last reported:	2012-06-23

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

New Hampshire Natural Heritage Bureau - Animal Record

Osprey (*Pandion haliaetus*)

Legal Status

Federal: Not listed
State: SC

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Not ranked (need more information)

Description at this Location

Conservation Rank: Not ranked
Comments on Rank:

Detailed Description: 2005: Area 8283: 2 fledged.2004: Area 8283: 1 fledged.
General Area:
General Comments:
Management Comments:

Location

Survey Site Name: Brookside Sanctuary
Managed By:

County: Rockingham
Town(s): Exeter
Size: .4 acres

USGS quad(s): Exeter (4207088)
Lat, Long: 425914N, 0705649W
Elevation:

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

Directions:

Dates documented

First reported: 2004
Last reported: 2005

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

McCarthy, Ryan

From: Tuttle, Kim [Kim.Tuttle@wildlife.nh.gov]
Sent: Wednesday, November 19, 2014 9:01
To: McCarthy, Ryan
Cc: Dionne, Michael; Patterson, Cheri
Subject: NHB14-4445 (Exeter/ Squamscott River)

Ryan,

The NHFG Nongame and Endangered Species Program has reviewed NHB 14-4445 for the proposed remedial dredging of MGP impacted sediment (approx. 1400sq ft.) located in the Squamscott River adjacent to the Swazey Parkway in downtown Exeter and construction of a temporary unloading area/trestle at the Exeter DPW facility for sediment processing /off-site transportation. The following species were identified in the NHB database check in the vicinity of the project:

American Eel (*Anguilla rostrata*) SC --
Northern Black Racer (*Coluber constrictor constrictor*)T --
Osprey (*Pandion haliaetus*) SC --
1Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern

We do not expect impacts to any of the above named species based on the locations and timing of the project. We do not have any additional recommendations beyond those submitted by NHFG Marine Fisheries including that the project begin November 1st so rainbow smelt runs will not be affected in December. Please feel free to contact me if you have any questions regarding this review.

Sincerely,

Kim Tuttle
Certified Wildlife Biologist
NH Fish and Game
11 Hazen Drive
Concord, NH 03301
603-271-6544

From: McCarthy, Ryan [mailto:Ryan.McCarthy@aecom.com]
Sent: Monday, November 17, 2014 4:22 PM
To: Tuttle, Kim
Cc: Patterson, Cheri; Dionne, Michael
Subject: FW: NHB review: NHB14-4445 (Exeter/ Squamscott River)

Hi Kim,

Based on the results in the attached Heritage review, do we need to provide NH Fish and Game any additional information?

We met on site with Cheri and Mike last Friday so they are in the loop regarding this project (and copied here).

Thanks in advance,

Cheers,

Ryan

****

Ryan S. McCarthy
Project Manager, Environment
D 978.905.2312 M 603.770.4945
ryan.mccarthy@aecom.com

AECOM
1000 Elm Street, Suite 802, Manchester, NH 03101
T 603.622.2811 F 603.622.8480
www.aecom.com

From: Coppola, Melissa [mailto:Melissa.Coppola@dred.nh.gov]
Sent: Monday, November 17, 2014 16:09
To: McCarthy, Ryan
Subject: NHB review: NHB14-4445

Attached, please find the review we have completed. If your review memo includes potential impacts to plants or natural communities please contact me for further information. If your project had potential impacts to wildlife, please contact NH Fish and Game at the phone number listed on the review.

Best,
Melissa

~~~~~~

Melissa Coppola
NH Natural Heritage Bureau
Environmental Information Specialist
Division of Forest & Lands- Natural Heritage Bureau
PO Box 1856
Concord, NH 03302-1856
603-271-2215 ext. 323
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United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2015-SLI-0165 December 16, 2014
Event Code: 05E1NE00-2015-E-00252
Project Name: Squamscott River Dredge

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

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

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

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

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: Squamscott River Dredge

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
http://www.fws.gov/newengland

Consultation Code: 05E1NE00-2015-SLI-0165
Event Code: 05E1NE00-2015-E-00252

Project Type: Dredge / Excavation

Project Name: Squamscott River Dredge
Project Description: Remedial dredge/ proactive habitat restoration at contaminated sediment site in Squamscott River in Exeter, NH

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

Project Counties: Rockingham, NH

United States Department of Interior
Fish and Wildlife Service

Project name: Squamscott River Dredge

Endangered Species Act Species List

There are a total of 3 threatened or endangered species on your 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. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	**Status**	**Has Critical Habitat**	**Condition(s)**
Piping Plover *(Charadrius melodus)* Population: except Great Lakes watershed	Threatened	Final designated	
Roseate tern *(Sterna dougallii dougallii)* Population: northeast U.S. nesting pop.	Endangered		
Flowering Plants			
Small Whorled pogonia *(Isotria medeoloides)*	Threatened		

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Attachment G

NH PGP Requirements

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED
NOV 06 2014

DHR Use Only
R&C # 6243
Log In Date 11/6/14
Response Date 11/13/14
Sent Date 11/14/14

Request for Project Review by the New Hampshire Division of Historical Resources

☒ This is a new submittal
☐ This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION

Project Title Squamscott River Remedial Dredging

Project Location Squamscott River

City/Town Exeter Tax Map #64 Lot 45 and #49 Lot 15 Lot #

NH State Plane - Feet Geographic Coordinates: Easting 1175852 Northing 177507
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact *(if applicable)* NH DES
(Agency providing funds, licenses, or permits)
Permit Type and Permit or Job Reference #

State Agency and Contact *(if applicable)* Paul Rydel (NHDES)

Permit Type and Permit or Job Reference #

APPLICANT INFORMATION

Applicant Name Northern Utilities/ Tom Murphy

Mailing Address 6 Liberty Lane W Phone Number 603 772 0775

City Hampton State NH Zip 03842 Email murphyt@unitil.com

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Ryan McCarthy/ AECOM

Mailing Address 1000 Elm Street, Suite 802 Phone Number 9789052312

City Manchester State NH Zip 03101 Email ryan.mccarthy@aecom.com

This form is updated periodically. Please download the current form at www.nh.gov/nhdhr/review. *Please refer to the Request for Project Review Instructions for direction on completing this form.* Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: www.nh.gov/nhdhr/review or contact the R&C Specialist at christina.st.louis@dcr.nh.gov or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

Project Boundaries and Description

- ☒ Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) ***indicating the defined project boundary.*** *(See RPR Instructions and R&C FAQs for guidance.)*
- ☒ Attach a detailed narrative description of the proposed project.
- ☒ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☒ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- ☒ A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1** or within project narrative description. *(Blank table forms are available on the DHR website.)*
  File review conducted on 11 / 7 / 14 .

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☒ Yes ☐ No
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s): The outfall is at least 50 years old. Pavilion was re-built in 2007.

- ☒ Photographs of ***each*** resource or streetscape located within the project area, with captions, along with a photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☐ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No
If yes, submit all of the following information:

- ☒ Description of current and previous land use and disturbances.
- ☒ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation *This Space for Division of Historical Resources Use Only*

☐ Insufficient information to initiate review. ☐ Additional information is needed in order to complete review.

☑ No Potential to cause Effects ☐ No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect

Comments: ____

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: [signature] DSHPO Date: 11-13-14

US Army Corps of Engineers®
New England District

Programmatic General Permit (PGP)
Appendix B - Required Information and Corps Secondary Impacts Checklist

In order for the Corps of Engineers to properly evaluate your application, applicants must submit the following information along with the DES Wetlands Bureau application or permit notification forms. Some projects may require more information. For a more comprehensive checklist, go to www.nae.usace.army.mil/regulatory, "Forms/Publications" and then "Application and Plan Guideline Checklist." Check with the Corps at (978) 318-8832 for project-specific requirements. For your convenience, this Appendix B is also attached to the State of New Hampshire DES Wetlands Bureau application and Permit by Notification forms.

All Projects:

- Corps application form (ENG Form 4345) as appropriate.
- Photographs of wetland/waterway to be impacted.
- Purpose of the project.
- Legible, reproducible black and white (no color) plans no larger than 11"x17" with bar scale. Provide locus map and plan views of the entire property.
- Typical cross-section views of all wetland and waterway fill areas and wetland replication areas.
- In navigable waters, show mean low water (MLW) and mean high water (MHW) elevations. Show the high tide line (HTL) elevations when fill is involved. In other waters, show ordinary high water (OHW) elevation.
- On each plan, show the following for the project:
- Vertical datum and the NAVD 1988 equivalent with the vertical units as U.S. feet. Don't use local datum. In coastal waters this may be mean higher high water (MHHW), mean high water (MHW), mean low water (MLW), mean low lower water (MLLW) or other tidal datum with the vertical units as U.S. feet. MLLW and MHHW are preferred. Provide the correction factor detailing how the vertical datum (e.g., MLLW) was derived using the latest National Tidal Datum Epoch for that area, typically 1983-2001.
- Horizontal state plane coordinates in U.S. survey feet based on the [insert state grid system] for the [insert state] [insert zone] NAD 83.
- Show project limits with existing and proposed conditions.
- Limits of any Federal Navigation Project in the vicinity of the project area and horizontal State Plane Coordinates in U.S. survey feet for the limits of the proposed work closest to the Federal Navigation Project;
- Volume, type, and source of fill material to be discharged into waters and wetlands, including the area(s) (in square feet or acres) of fill in wetlands, below the ordinary high water in inland waters and below the high tide line in coastal waters.
- Delineation of all waterways and wetlands on the project site, including vernal pools:
- Use Federal delineation methods and include Corps wetland delineation data sheets. See GC 2; Endnotes 1, 6, 7 and 15 in Appendix A; and www.nero.noaa.gov/hcd for eelgrass survey guidance.
- Appendix A, (e) Moorings, contains eelgrass survey requirements for the placement of moorings.
- For activities involving discharges of dredged or fill material into waters of the U.S., include a statement describing how impacts to waters of the U.S. are to be avoided and minimized, and either a statement describing how impacts to waters of the U.S. are to be compensated for (or a conceptual or detailed mitigation plan) or a statement explaining why compensatory mitigation should not be required for the proposed impacts. Please contact the Corps for guidance.

US Army Corps of Engineers ®
New England District

New Hampshire Programmatic General Permit (PGP)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See PGP, GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	X	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X	
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see PGP, GC 26 and Appendix A)? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) website, www.nhnaturalheritage.org, specifically the book Natural Community Systems of New Hampshire.		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?		X
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		X
2.5 The overall project site is more than 40 acres.		X
2.6 What is the size of the existing impervious surface area?	N/A	
2.7 What is the size of the proposed impervious surface area?	N/A	
2.8 What is the % of the impervious area (new and existing) to the overall project site?	N/A	
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require a NHB determination.)	X	
3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.	X	

3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the PGP, GC 21?		N/A
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?	X*	
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		X
5. Historic/Archaeological Resources		
For a minor or major impact project - a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) shall be sent to the NH Division of Historical Resources as required on Page 5 of the PGP**	X	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law..

* - There will be no net loss of capacity at dredge site. Contaminated sediments will be dredged, backfill will be placed, and restored to original grade.

2010 HIGHEST RANKED WILDLIFE HABITAT BY ECOLOGICAL CONDITION

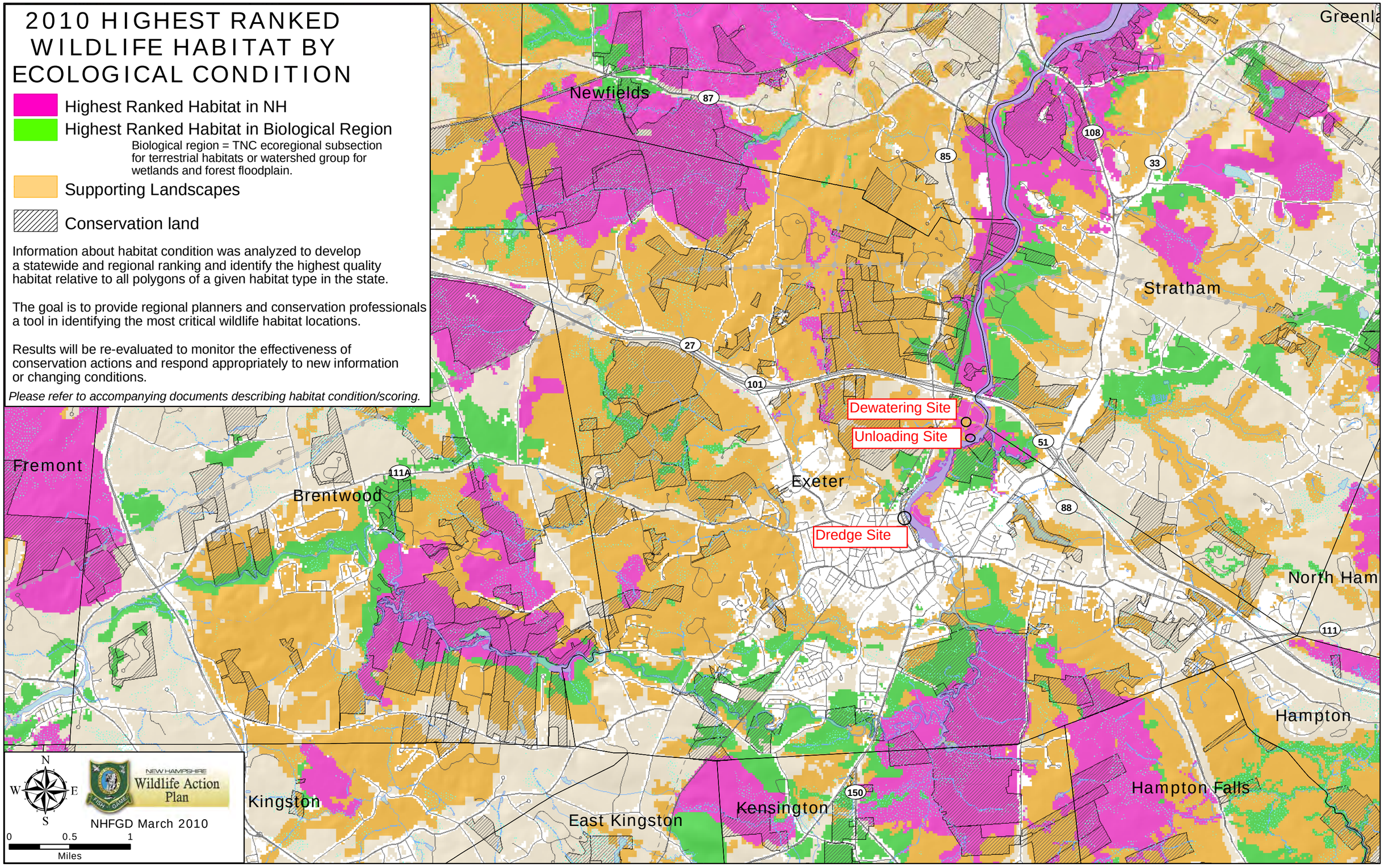
- Highest Ranked Habitat in NH
- Highest Ranked Habitat in Biological Region
  - Biological region = TNC ecoregional subsection for terrestrial habitats or watershed group for wetlands and forest floodplain.
- Supporting Landscapes
- Conservation land

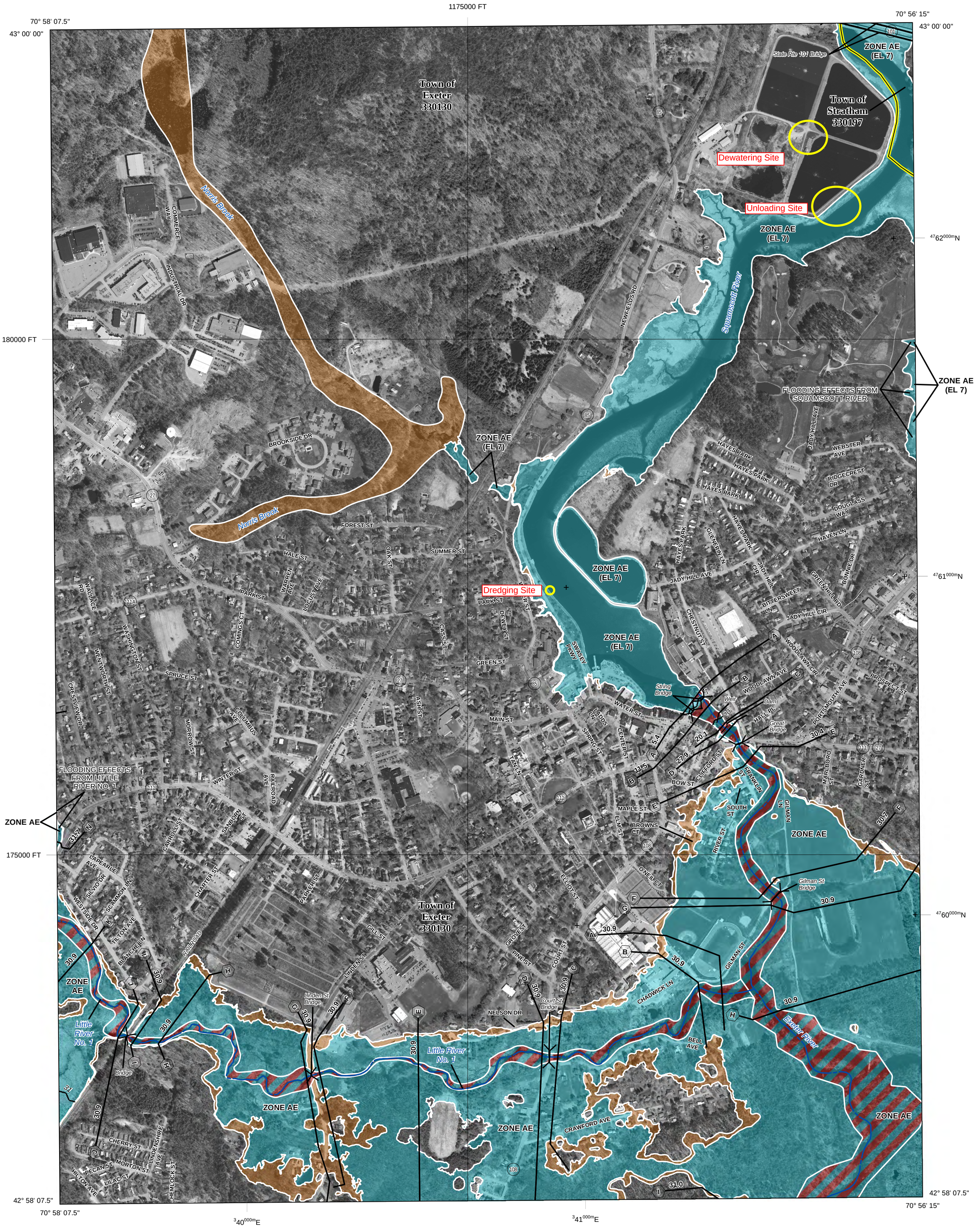
Information about habitat condition was analyzed to develop a statewide and regional ranking and identify the highest quality habitat relative to all polygons of a given habitat type in the state.

The goal is to provide regional planners and conservation professionals a tool in identifying the most critical wildlife habitat locations.

Results will be re-evaluated to monitor the effectiveness of conservation actions and respond appropriately to new information or changing conditions.

Please refer to accompanying documents describing habitat condition/scoring.





FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTP://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*

OTHER AREAS

- NO SCREEN — Areas Determined to be Outside the 0.2% Annual Chance Floodplain *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Accredited or Provisionally Accredited Levee, Dike, or Floodwall
- Non-accredited Levee, Dike, or Floodwall

OTHER FEATURES

- E 18.2 / 17.5 — Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the United States Geological Survey (USGS). This information was derived from digital orthophotography at a 1-foot resolution from photography dated 2010.

SCALE

N

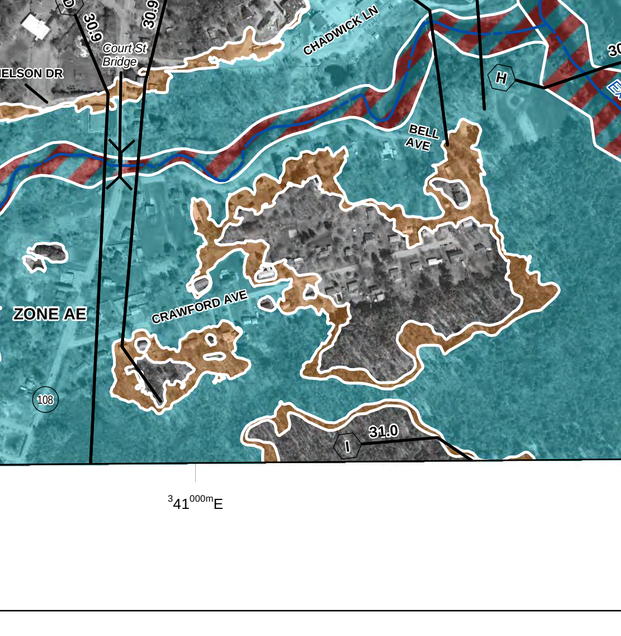
Map Projection:
New Hampshire State Plane Feet, FIPS Zone 2800, NAD1983;
Western Hemisphere; Vertical Datum: NAVD88

1 inch = 500 feet — 1:6,000

0 — 500 — 1,000 — 2,000 Feet

0 — 125 — 250 — 500 Meters

PANEL LOCATOR



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

ROCKINGHAM COUNTY, NEW HAMPSHIRE
(ALL JURISDICTIONS)

PANEL 402 OF 681

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
EXETER, TOWN OF	330130	0402	F
STRATHAM, TOWN OF	330197	0402	F

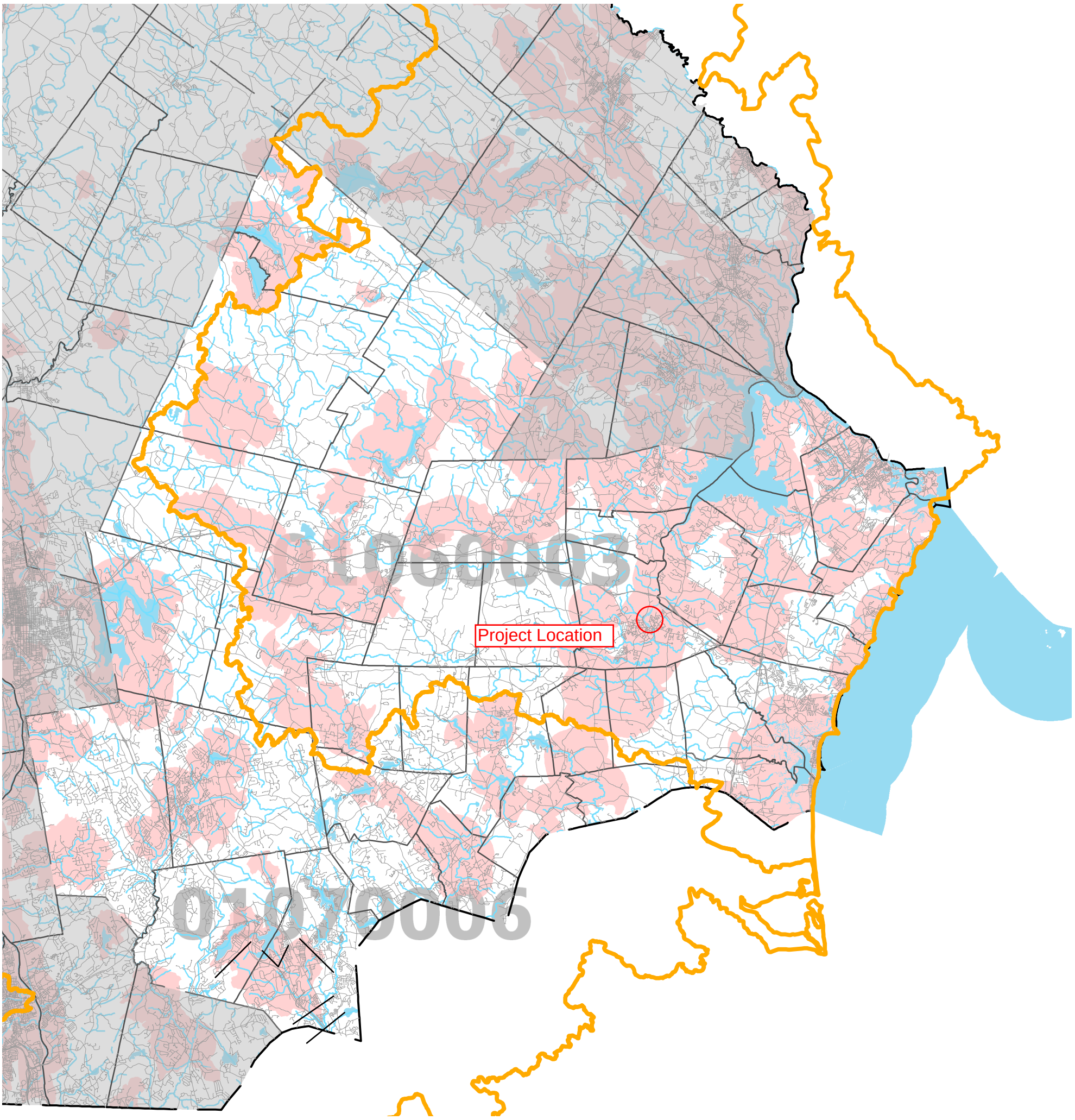
PRELIMINARY
4/9/2014

VERSION NUMBER
2.2.2.1

MAP NUMBER
33015C0402F

MAP REVISED

Rockingham County: Impaired Waters Vicinity* for which No Additional Loading Criteria Applies



*Vicinity based upon a 1 mile buffer of Assessment Units impaired in the 2006 SWQA for one or more of the following;

- Invertebrates,
- Cadmium,
- Chlorophyll *a*,
- Copper,
- Cyanobacteria,
- Dissolved Oxygen (% Sat or mg/L),
- Enterococcus,
- *E. coli*,
- Algal Growth,
- Fecal Coliform,
- Lead,
- Total Phosphorus,
- Sedimentation & Siltation,
- Zinc.

For more information on the 2006 Surface Water Quality Assessments see:
http://des.nh.gov/wmb/swqa/

0 1 2 4 6 8 10 Miles

N

NHDES

H:\Water Quality\305(B)-303(D) PROGRAM\2006_Int_Aprch\Info_Rqsts\20061025_PMC_No_Add_Load

- Major Divides (HUC8)
- Roads(NHDOT)
- State Boundary
- County Boundary
- Town Boundary
- 2006 Assessment Unit ID Lines (1:100k NHD)
- 2006 Assessment Unit ID Polygons(1:100k NHD)
- One Mile Buffer on No Additional Loading AUIDs

This map is intended solely as a screening tool to assist you in identifying areas within 1 mile upstream in the watershed of an impaired waterbody. This map is not intended to show analytical results regarding pollutant loading or any other information related to sections 305(b) or 401 of the Clean Water Act or any other State or federal laws.

The coverages presented in this program are under constant revision as new sites or facilities are added. They may not contain all of the potential or existing sites or facilities. The Department is not responsible for the use or interpretation of this information, nor for any inaccuracies.

Map Prepared July 17, 2007.

PEASE
INTERNATIONAL
PORTS AND HARBORS

555 Market Street, Suite 1 Portsmouth, NH 03801

December 18, 2014

NH Department of Environmental Service
Coastal Division
Pease Field Office
222 International Drive, Suite 175
Portsmouth, NH 03801

Attn: Eben Lewis

Dear Eben,

We reviewed plans for the removal of impacted sediments in the Squamscott River in Exeter at property belonging to Northern Utilities. The project involves removing sediment at a site adjacent to Swasey Parkway, and removal at a temporary dock constructed at the Exeter DPW site downriver.

We examined the proposed site and found that the structure will have no negative effect on navigation in the channel.

Sincerely,

Tracy R. Shattuck
Chief Harbor Master

Cc: Ryan McCarthy
AECOM
1000 Elm St Suite 802
Manchester, NH 03101

Attachment H

Designated River Check

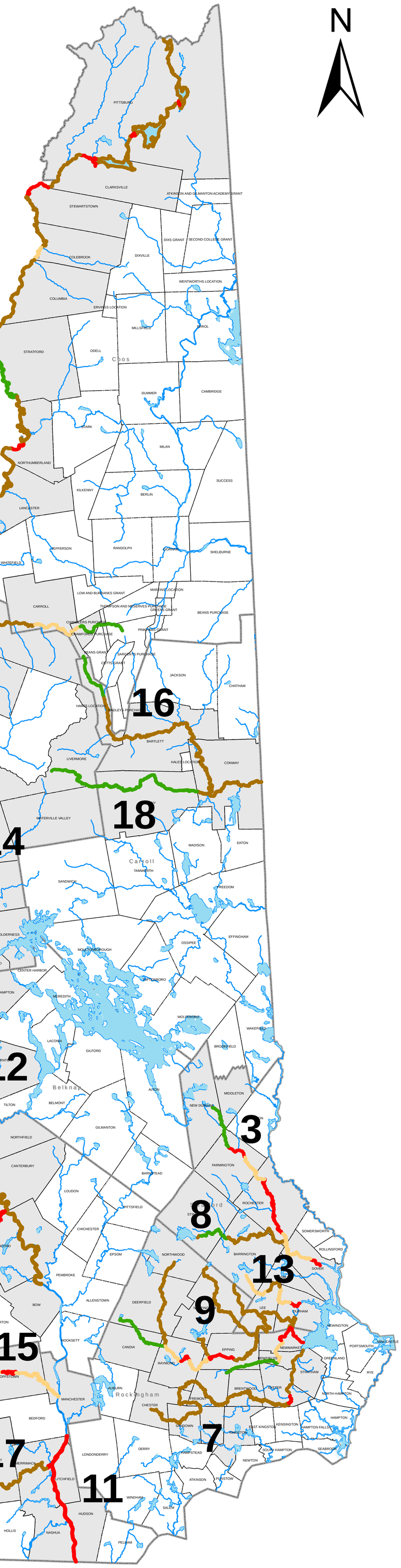
DESIGNATED RIVERS of NEW HAMPSHIRE

NH Rivers Management & Protection Program

Designated Rivers

1. Ammonoosuc River 8/10/07 & 9/13/09
2. Ashuelot River 6/07/93
3. Cocheco River 7/21/09
4. Cold River 7/20/99
5. Connecticut River 7/14/92
6. Contoocook and North Branch Rivers 6/28/91
7. Exeter and Squamscott Rivers 8/11/95 & 5/31/11
8. Isinglass River 6/30/02
9. Lamprey River 6/26/90 & 6/7/11
   - A. Lamprey River
   - B. North Branch River
   - C. Pawtuckaway River
   - D. North River
   - E. Little River
   - F. Piscassic River
10. Mascoma River 5/9/11
11. Merrimack River (Lower) 6/26/90
12. Merrimack River (Upper) 6/26/90
13. Oyster River 6/2/11
14. Pemigewasset River 6/28/91
15. Piscataquog River 7/16/93
16. Saco River 6/26/90
17. Souhegan River 5/28/00
18. Swift River 6/26/90

0 5 10 20 30 40 Miles



Legend

Designated Rivers

Class

- Natural
- Rural
- Rural-Community
- Community

- Waterbodies
- County Boundary
- Town Boundary
- Participating Designated River Communities

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

NHDES Watershed Management Bureau - March 2012

Exeter-Squamscott River Base Map

LEGEND

Designated River Classification

Quarter Mile Buffer

- Natural
- Rural
- Rural-Community
- Community

- Watershed Boundary
- Major Lakes and Ponds
- Rivers Stream Order
- Designated Reach
- New Hampshire Towns
- Town Boundaries

2 1 0 2 Miles

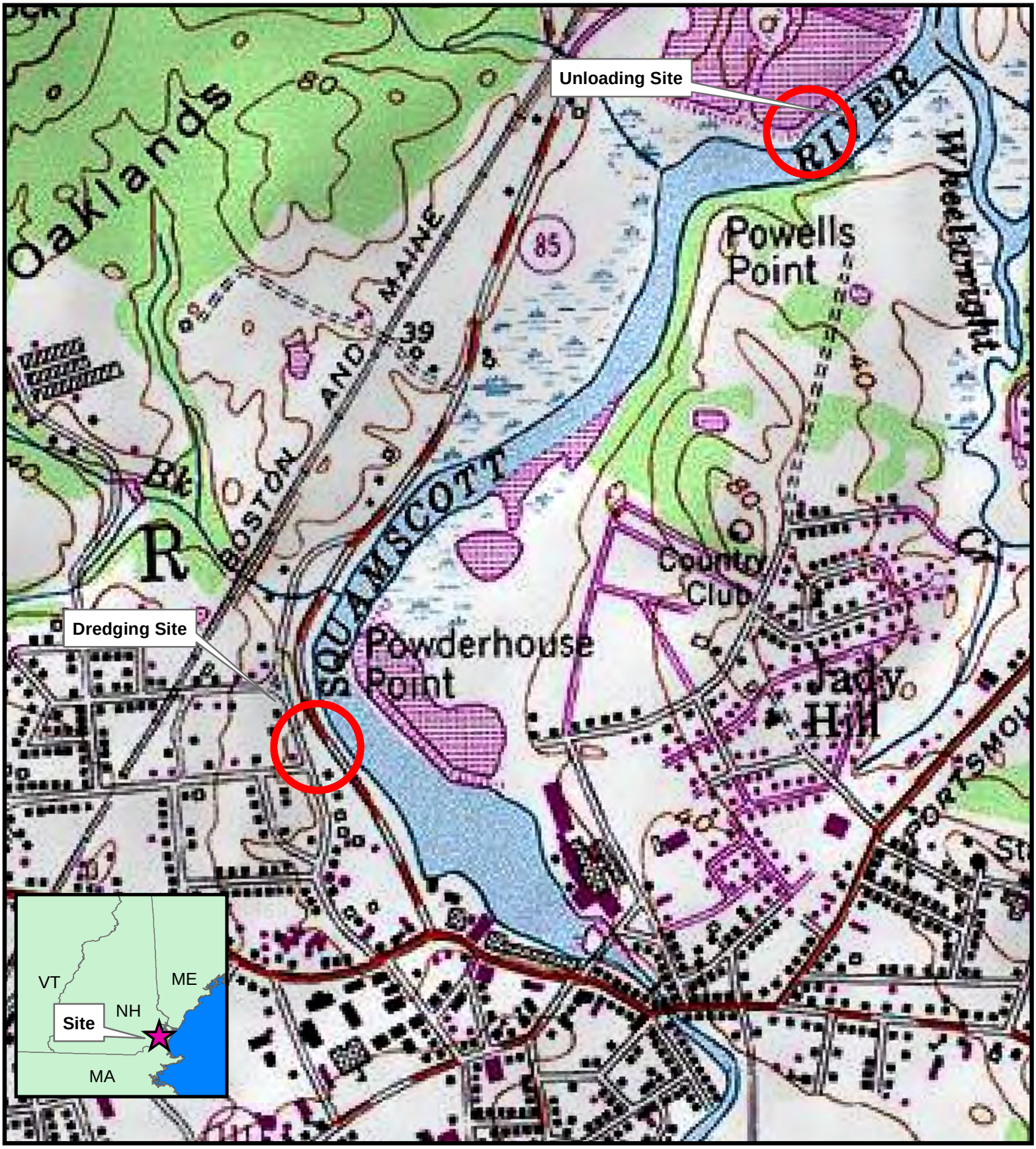
N W E S

NH Department of Environmental Services

Source: The data layers are derived from DES data and are under constant revision. DES is not responsible for the use or interpretation of this information. Not intended for legal use. Watershed Management Bureau, February 2013.

Attachment I

USGS Map



N

Site Locus

Swazey Parkway, Exeter, NH
USGS Topographic Quadrangle
Squamscott River Sediments

0 250 500 1,000 Feet

SCALE	DATE	PROJECT NO.
1:24000	10/14	60139731

AECOM

Figure Number

I-1

J:\Water\ProjectFiles\P1001776-NiSource\00805-075+076 NH O&M\Squamscott River\GIS\Projects\Site Locus.mxd

Attachment J

Photographs

N

Photo Key 1

Swazey Parkway
Exeter, NH
Squamscott River Sediments

Feet
0 25 50 100

SCALE	DATE	PROJECT NO.
1:24000	10/14	60139731

AECOM

Figure Number

J-1

J:\Water\ProjectFiles\P1001776-NiSource\00805-075+076 NH O&M\Squamascott River\GIS\Projects\Site Locus.mxd

N

Photo Key 2

Town Of Exeter DPW and Settling Ponds
Exeter, NH
Squamscott River Sediments

Feet
0 25 50 100

SCALE	DATE	PROJECT NO.
1:24000	10/14	60139731

AECOM

Figure Number

J-2

J:\Water\ProjectFiles\P1001776-NiSource\00805-075+076 NH O&M\Squamscott River\GIS\Projects\Site Locus.mxd

Picture 1. View from Swasey Parkway looking east across the Squamscott River. The Powder House at Duck Point is located across the river and highlighted in yellow. The boom shows the *approximate* downstream extent of proposed dredge area.

Picture 2. View from Swasey Parkway looking east across the Squamscott River. The buried stormwater outfall/ plunge pool is highlighted in yellow. The absorbent mats at the site are also visible.

Picture 3. View from Swasey Parkway looking southeast towards downtown Exeter. The site is highlighted in yellow.

Picture 4. Looking southeast across Swasey Parkway at the Pavilion and the Squamscott River. The historic birch tree is highlighted in yellow.

Picture 5. View from the Exeter DPW (near the settlement ponds), looking south towards the Squamscott River. Site of the former trestle/ unloading area.

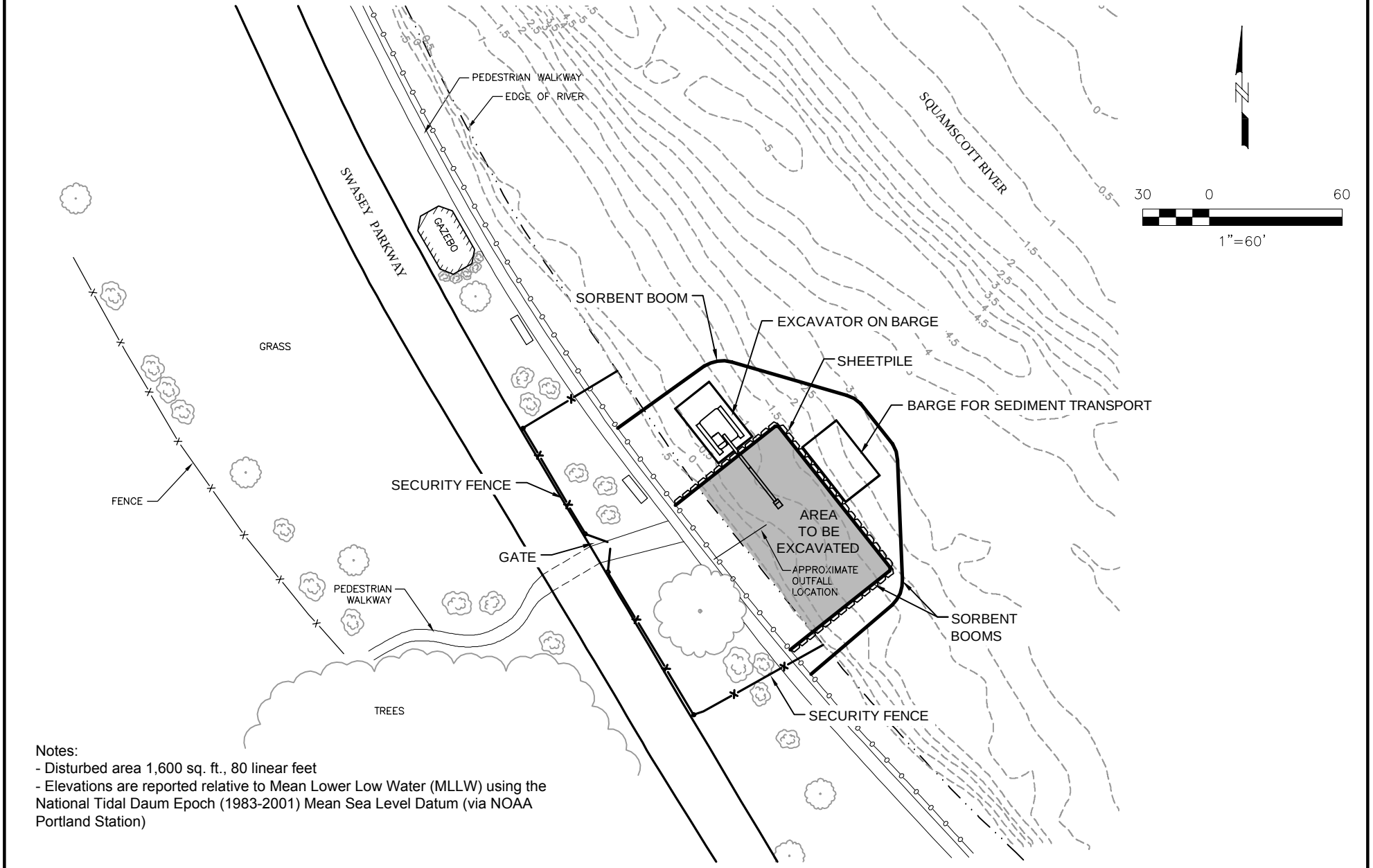
Picture 6. Looking northwest back towards the Exeter DPW and the site of the proposed temporary unloading area/ trestle.

Picture 7. Looking west at Exeter DPW laydown area. This is the proposed location of the sediment stockpile/ dewatering area.

Picture 8. Looking south across the Exeter DPW Settlement Ponds/ laydown area. The site of the proposed unloading/ trestle area is highlighted.

Attachment K

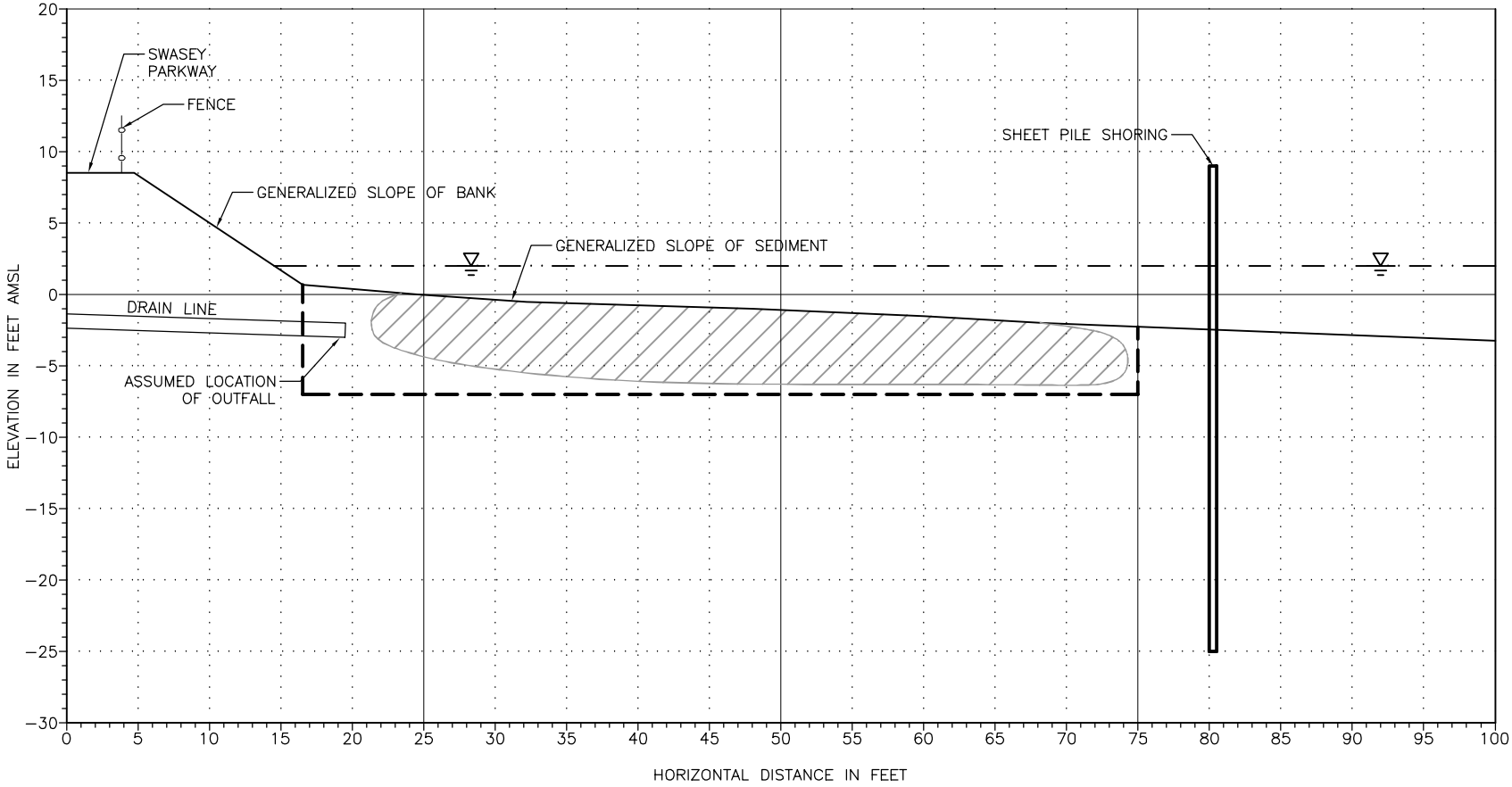
Plans



Notes:
- Disturbed area 1,600 sq. ft., 80 linear feet
- Elevations are reported relative to Mean Lower Low Water (MLLW) using the National Tidal Daum Epoch (1983-2001) Mean Sea Level Datum (via NOAA Portland Station)

AECOM

NORTHERN UTILITIES, INC. FORMER EXETER MGP SITE 60139731-0650			**SITE LAYOUT ALTERNATIVE 5 WATER SIDE EXCAVATION EXETER, NEW HAMPSHIRE**
DATE: 12/10/14	DRWN: RCW		**FIGURE K-1**



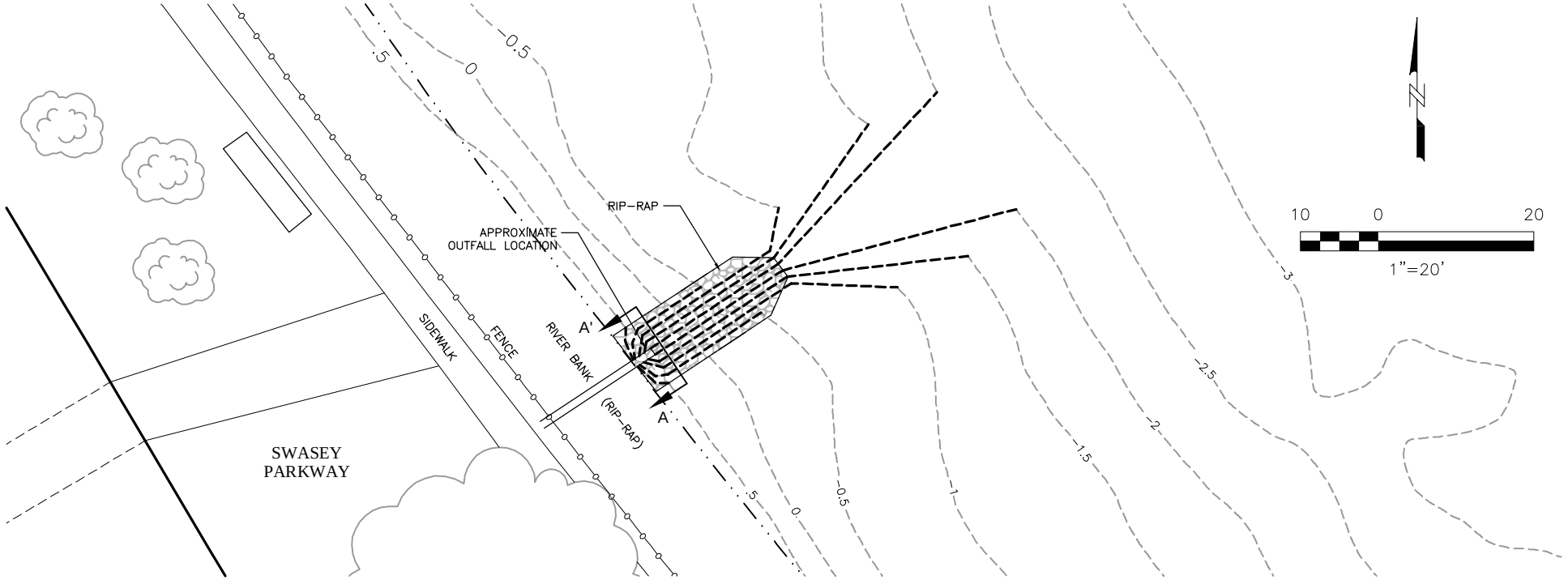
LEGEND

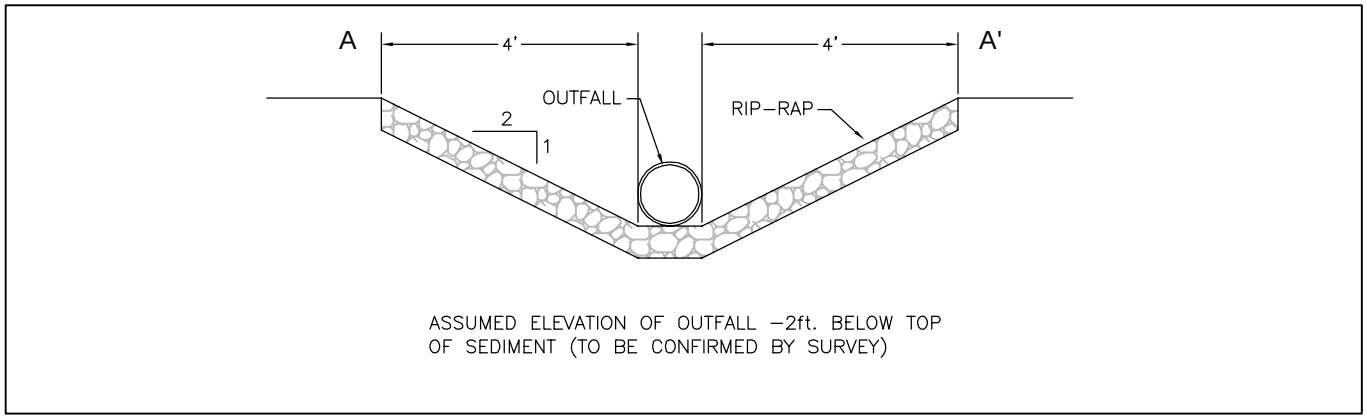
IMPACTED SEDIMENT – POTENTIALLY MOBILE COAL TAR

DREDGE AREA

AECOM

NORTHERN UTILITIES, INC. FORMER EXETER MGP SITE 60139731-0650	**CROSS SECTION OF DREDGE AREA** **EXETER, NEW HAMPSHIRE**
DATE: 12/10/14 DRWN: RCW	**FIGURE K-2**

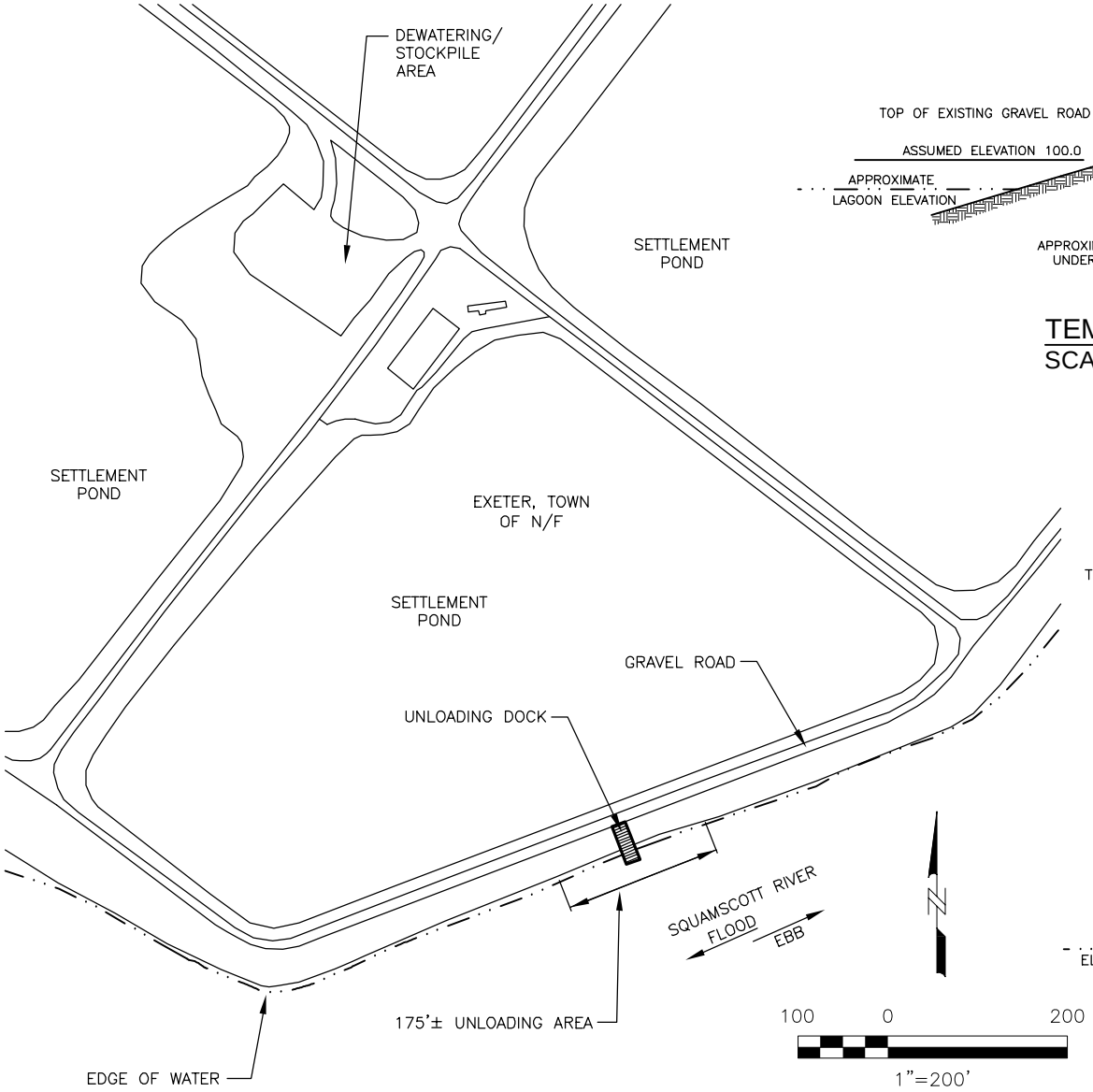




OUTFALL SECTION A - A'

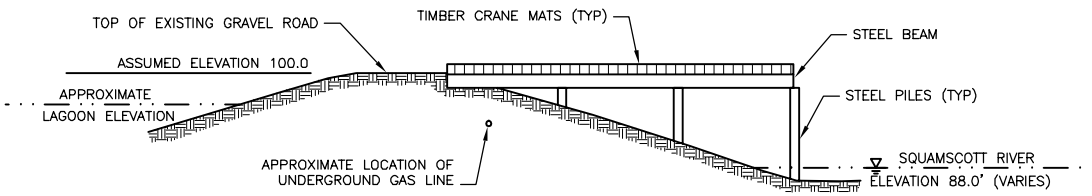
AECOM

NORTHERN UTILITIES, INC. FORMER EXETER MGP SITE 60139731-0400		**RESTORED SITE** **EXETER, NEW HAMPSHIRE**
DATE: 12/10/14	DRWN: RCW	**FIGURE K-3**



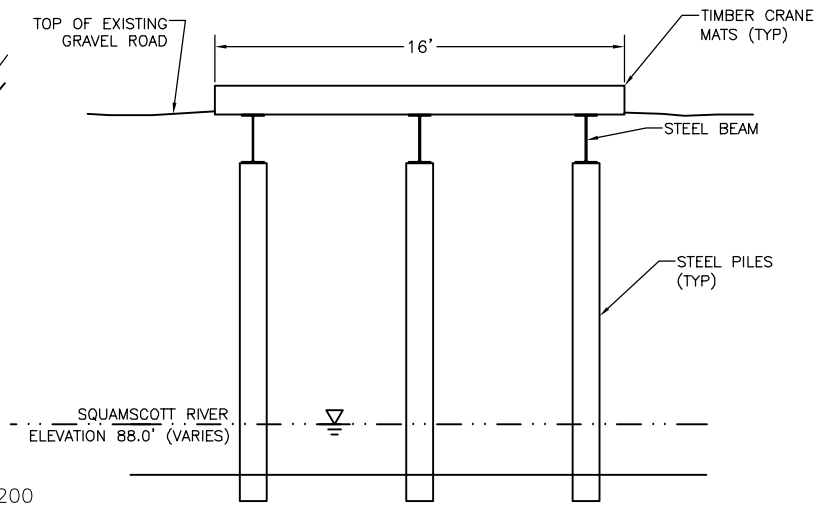
UNLOADING DOCK AND DEWATERING/STOCKPILE AREA LOCATION

SCALE: 1"=200'



TEMPORARY UNLOADING DOCK ELEVATION

SCALE: 1"=25'



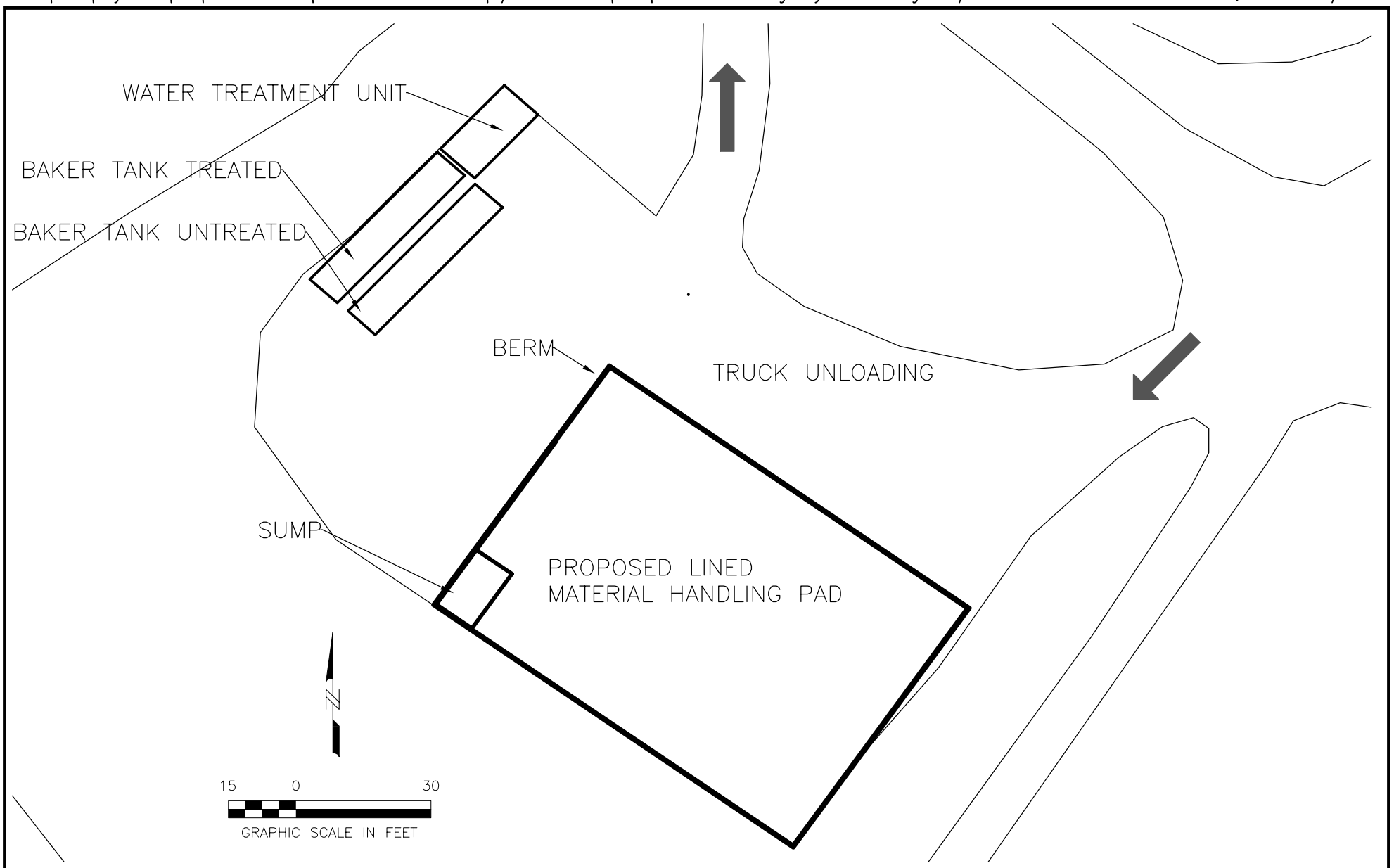
TEMPORARY UNLOADING DOCK CROSS SECTION

NOT TO SCALE

AECOM

NORTHERN UTILITIES, INC. FORMER EXETER MGP SITE 60139731-0650			**CONCEPTUAL EXETER DPW UNLOADING DOCK / PROCESSING AREA EXETER, NEW HAMPSHIRE**
DATE: 12/10/14	DRWN: RCW/CFD		**FIGURE K-4**

File: J:\Water\ProjectFiles\P10\01776-NiSource\00805-075+076 NH O&M\Squamascott River\CADD\60139731-C-03.dwg Layout: Dewatering stockpile area User: lambertt Plotted: Dec 16, 2014 - 2:42pm

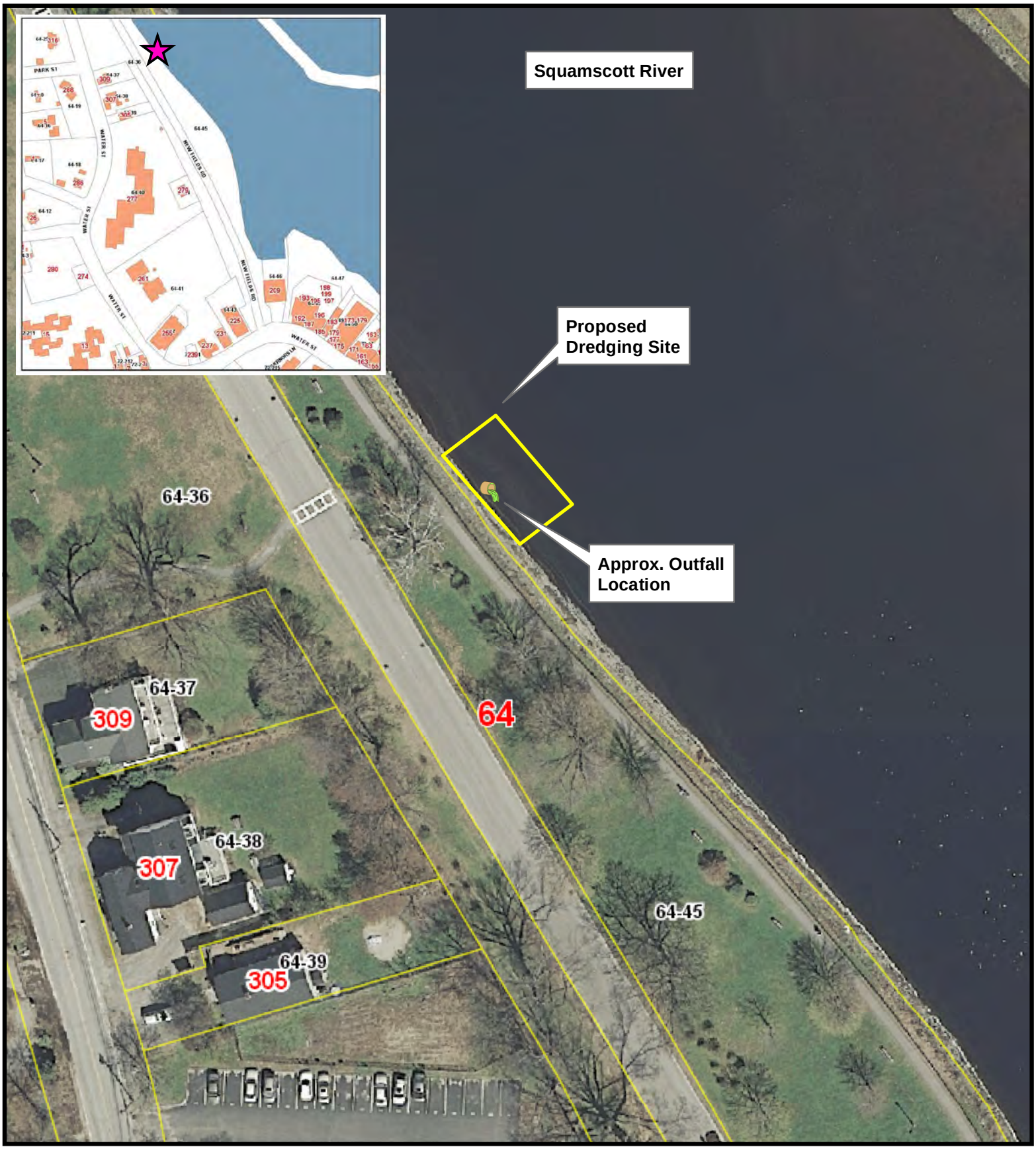


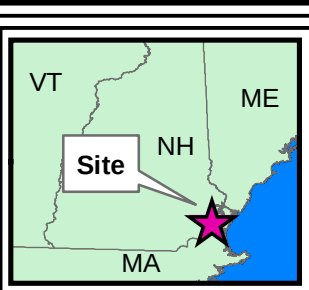
AECOM

NORTHERN UTILITIES, INC. FORMER EXETER MGP SITE 60139731-0650			**CONCEPTUAL EXETER DPW DEWATERING STOCKPILE AREA EXETER, NEW HAMPSHIRE**
DATE: 12/15/14	DRWN: RCW/CFD		**FIGURE K-5**

Attachment L

Tax Map





N

Tax maps obtained from www.mapsonline.net/exeternh/ per Town of Exeter Tax Assessor

Tax Maps - Dredging Site

Swazey Parkway, Exeter, NH
Town Tax Maps
Squamscott River Sediments

0 25 50 100 Feet

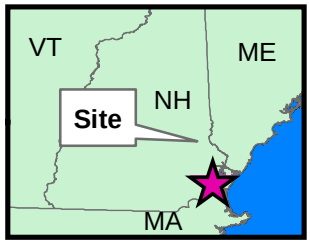
SCALE	DATE	PROJECT NO.
1:24000	10/14	60139731

AECOM

Figure Number

L-1

Document Path: J:\Water\ProjectFiles\P10\01776-NiSource\00805-075+076 NH O&M\Squamascott River\GIS\Projects\Permit Figs\Figure_2_Tax_Map.mxd



N

Tax maps obtained from
www.mapsonline.net/exeternh/
per Town of Exeter Tax Assessor

Unloading/ Dewatering Site

Department of Public Works, Exeter, NH
Town Tax Maps
Squamscott River Sediments

Feet
0 25 50 100

SCALE	DATE	PROJECT NO.
1:24000	10/14	60139731

AECOM

Figure Number

L-2

Document Path: J:\Water\ProjectFiles\P10\01776-NiSource\00805-075+076 NH O&M\Squamscott River\GIS\Figures\Permitting\Figure_3_Tax_Map.mxd

Attachment M

Abutter Notification

AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Memorandum

To	Project File	Page 1
CC	Mark McCabe (AECOM)	
Subject	Squamscott River Dredging Project - Abutters	
From	Ryan McCarthy (AECOM)	
Date	December 15, 2014	

The following properties have been identified as abutters to the proposed remedial dredging project in the Squamscott River in Exeter, NH.

Dredge Site – Squamscott River	**Tax Map**	**Lot #**
Exeter, Town of 10 Front Street Exeter, NH 03833	64	45

Abutters	**Tax Map**	**Lot #**
Phillips Exeter Academy 223 Water Street Exeter, NH	64	46

Unloading Site – Exeter DPW	**Tax Map**	**Lot #**
Exeter, Town of 10 Front Street Exeter, NH 03833	49	15

Abutters	**Tax Map**	**Lot #**
Fredericksen, Russell F. Fredericksen, Dianne L. 11 Newfield Road Exeter, NH 03833	49	16

Attachment N

Permission for work within 20 feet

Epping Road Development proposed zoning changes

9.1.3

G. The linear extent of the wetland buffers in the CT-1, C-3 and I Zoning Districts shall be determined by the Epping Road Development Wetland Buffer Width Determination Table on the basis of the functional values for the subject wetland as determined by a certified wetland scientist.Narrow, finger-like, wetlands that are less than thirty feet (30') in width, extending into upland areas, and not associated with perennial or intermittent streams, shall be evaluated as separate functional units, even though they are contiguous to a larger and wider wetland area.

Epping Road Development Wetland Buffer Width Determination Table

Points	1	2	3	4	5	6	7	8	9	10
Buffer Width (ft)	0	10	15	20	25	30	35	40	45	75

Function/Value	**Points**
FA, GW	1
NR, PE, SR, WH	1
SS, FH	3
ESH, VP	Maximum Buffer

Key	
FA =	Floodflow Alteration
GW =	Groundwater Recharge/Discharge
NR =	Nutrient Removal
PE =	Product Export
SR =	Sediment/Toxicant Retention
WH =	Wildlife Habitat
SS =	Shoreline/Sediment Stabilization
FH =	Fish/Shellfish Habitat
ESH =	Endangered Species Habitat
VP =	Vernal Pool

Does not apply

ALTUS
ENGINEERING, INC.

Civil
Site Planning
Environmental
Engineering

133 Court Street
Portsmouth, NH
03801-4413

December 30, 2014

NHDES Wetlands Bureau
29 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095

Subject: ***Tan Lane Parking Lot Improvements***
Tax Map 72, Lot 209
Tan Lane
Exeter, New Hampshire
P4547

Dear Inspector:

Altus is submitting on behalf of the applicant (*Phillips Exeter Academy*), a NHDES Minimum Impact Expedited Permit Application for improvements to an existing parking lot on their campus in Exeter. The parking lot is located at Tax Map 92 Lot 209, off Tan Lane, north and west of the *Doctor's House*; the playground of the *Main Street School* abuts to the west.

The existing lot, a combination of paved and gravel surfaces, has an inefficient layout, limited pedestrian connectivity to campus facilities, limited lighting, and no stormwater management facilities. Site improvements will include expanding and reconfiguring the paved parking area, constructing new paved walkways for improved pedestrian access, lighting, and stormwater best management practices. The proposed parking lot improvements will directly impact a small, low valued, 239 sf wetland with fill.

Enclosed for your review and approval are a Minimum Impacted Expedited Application and a $200 check for the application fee.

Please call if you have any questions or require additional information.

Sincerely,

Jeffrey K Clifford, P.E.
Vice-President

cc: Roger F. Wakeman, P.E., Phillips Exeter Academy
Mark Leighton, P.E., Phillips Exeter Academy

RMB/jkc/4547.NHDES.ltr.doc

THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF ENVIRONMENTAL SERVICES
LAND RESOURCES MANAGEMENT
WETLANDS BUREAU
29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
Phone: (603) 271-2147 Fax: (603) 271-6588
http://des.nh.gov/organization/divisions/water/wetlands

PERMIT APPLICATION

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)

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

ADDRESS: **Tan Lane**		TOWN/CITY: **Exeter**	
TAX MAP: **72**	BLOCK:	LOT: **209**	UNIT:
USGS TOPO MAP WATERBODY NAME: **Unnamed Wetlands** ☐ NA		STREAM WATERSHED SIZE: ☒ NA	

LOCATION COORDINATES (If known): **42-58'-30"N 70-57'-13"W** ☒ 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 consist of an expansion of existing gravel/paved parking area and provide stormwater improvements where none previouosly existed, via permeable pavers with underdrain. There are two (2) small isolated wetlands with an area of 239 sf and 196 sf. The proposed improvements will impact the 239 sf wetlands.

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

N/A

5. 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 14 - 4223

b. ☒ Designated River the project is in ¼ miles of: **Squamscott River** ; and
date a copy of the application was sent to Local River Advisory Committee: Month: 12 Day: 31 Year: 2014
☐ NA

6. APPLICANT INFORMATION (Desired permit holder)

LAST NAME, FIRST NAME, M.I.: **Roger F. Wakeman**

TRUST / COMPANY NAME: **Phillips Exeter Academy** | MAILING ADDRESS: **20 Main Street**

TOWN/CITY: **Exeter** | STATE: **NH** | ZIP CODE: **03833**

EMAIL or FAX: **rwakeman@exeter.edu** | PHONE: **603-777-3292**

ELECTRONIC COMMUNICATION: By initialing here: **RFW**, I hereby authorize DES to communicate all matters relative to this application electronically

7. PROPERTY OWNER INFORMATION (If different than applicant)

LAST NAME, FIRST NAME, M.I.: **Same as above**

TRUST / COMPANY NAME: | MAILING ADDRESS:

TOWN/CITY: | STATE: | ZIP CODE:

EMAIL or FAX: | PHONE:

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

8. AUTHORIZED AGENT INFORMATION

LAST NAME, FIRST NAME, M.I.: **Jeffrey K. Clifford, P.E.** | COMPANY NAME: **Altus Engineering, Inc.**

MAILING ADDRESS: **133 Court Street**

TOWN/CITY: **Portsmouth** | STATE: **NH** | ZIP CODE: **03801**

EMAIL or FAX: **jclifford@altus-eng.com** | PHONE: **603-433-2335**

ELECTRONIC COMMUNICATION: By initialing here **JKC**, I hereby authorize DES to communicate all matters relative to this application electronically

9. 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 copy of the application materials to the NH State Historic Preservation Officer.
8. I authorize DES 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 DES correspondence. DES will not forward returned mail.

Property Owner Signature	Print name legibly	Date
	Mark Leighton	12/23/2014

MUNICIPAL SIGNATURES

10. 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.

⇨ Authorized Commission Signature	Print name legibly	Date

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. The Conservation Commission signature should be obtained prior to the submittal of the original application and four copies to the town/city clerk for mailing to the DES.
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.

11. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 1991), I hereby certify that the applicant has filed five application forms, five detailed plans, and five USGS location maps with the town/city indicated below and I have received and retained certified postal receipts (or copies) for all abutters identified by the applicant.

⇨ Town/City Clerk Signature	Print name legibly	Town/City	Date

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I(d):

1. For applications where "Expedited Review" is checked on page 1, accept the application for mailing only if the Conservation Commission signature has been sought;
2. Collect the postal receipts demonstrating that all abutters and the Local Advisory Committee were sent proper notice;
3. Collect any administrative fees, not to exceed $10 plus the cost of postage by certified mail (RSA 482-A:3,I).
4. IMMEDIATELY sign the original application and four copies in the signature space provided above;
5. Retain one copy of the application form, one complete set of attachments and the postal receipts demonstrating that all abutters and the Local River Advisory Committee were notified and make them reasonably accessible to the public;
6. 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 in accordance with RSA 482-A:3, I; and
7. IMMEDIATELY send the ORIGINAL application form, one complete set of attachments and filing fee, by CERTIFIED MAIL to the NHDES Wetlands Bureau at the address indicated on page 1 of this application. (DO NOT HOLD FOR CONSERVATION COMMISSION SIGNATURE).

12. 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.

After-the-fact (ATF): work completed prior to receipt of this application by DES. Check box to indicate ATF.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland		☐ ATF		☐ ATF
Scrub-shrub wetland	239	☐ ATF		☐ ATF
Emergent wetland		☐ ATF		☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	/	☐ ATF	/	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	/	☐ ATF	/	☐ ATF
Bank - Perennial stream / River	/	☐ ATF	/	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	/	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF		☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland		☐ ATF		☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	239 /		/	

13. 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) _____ sq. ft. X $0.20 = $ _____

Temporary (seasonal) docking structure: _____ sq. ft. X $1.00 = $ _____

Permanent docking structure: _____ sq. ft. X $2.00 = $ _____

Projects proposing shoreline structures (including docks) add $200 = $ _____

Total = $ _____

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

EXHIBIT A

NHDES Expedited Review – Minimum Impact

PROJECT DESCRIPTION

The project consists of improvements to an existing parking lot on the campus of Phillips Exeter Academy (PEA). The parking lot is located off Tan Lane, north and west of the *Doctor's House*; the playground of the *Main Street School* abuts to the west. The parking lot entrance is approximately 100 feet south of the intersection of Tan Lane and Main Street. The existing lot is a combination of paved and gravel surfaces with approximately 22-25 spaces. It has an inefficient layout, limited pedestrian connectivity to campus facilities, limited lighting, and no stormwater management facilities. Site improvements will include expanding and reconfiguring the paved parking area to accommodate 45 vehicles, a net gain of up to 20 spaces. The project also includes new paved walkways for improved pedestrian access, lighting, and stormwater best management practices. Overall site disturbance during construction will be approximately 34,000 sq. ft.

Pervious pavers are proposed to provide stormwater treatment and attenuate the peak runoff due to an increase impervious area of 12,933 sq. ft. In addition, an underdrained stone lined swale is proposed along the property line with the school property. The improvements will manage, treat and attenuate the site runoff.

Within the topographic depression there are two (2) small, low valued, wetlands (239 sf and 196 sf). The wetlands are very small and have no significant value or habitat. Norway maples, an invasive species, dominate the canopy in the wooded area where the wetlands area located. The proposed parking lot improvements will directly impact the 239 sf wetland with fill.

MINIMIZATION & AVOIDANCE

Reconfiguration of the existing parking area will provide a more efficient parking area, allowing for additional spaces to address the parking needs for the campus. The drainage improvements, in particular, the pervious paver system will provide improved management and treatment of stormwater runoff. Based on the proximity of the wetland to the existing parking, impacts in the buffer are necessary, but have been minimized by the parking configuration selected, the grading and stormwater best management practices.

The majority of stormwater runoff from the proposed impervious area will be treated, cooled and attenuated via the pervious pavers before emptying into the wooded depression. The proposed improvement will provide additional parking and improve pedestrian connectivity with the campus.

GOVE ENVIRONMENTAL SERVICES, INC.

July 17, 2013

Subject: Wetland Delineation Report
PEA Tan Lane

Dear Mr. Clifford:

Per your request, this letter is to verify that Gove Environmental Services, Inc., performed a site inspection to identify wetlands at Wetlands were evaluated utilizing the following standards:

1. *US Army Corps of Engineers Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, Technical Report ERDC/EL TR-09-19 (Oct 2009).
2. *Field Indicators of Hydric Soils in the United States, A Guide for Identifying and Delineating Hydric Soils*, Version 7.0.
United States Department of Agriculture (2010).
3. *North American Digital Flora: National Wetland Plant List*, Version 2.2.1 (2009).
4. *Classification of Wetlands and Deepwater Habitats of the United States.* USFW Manual FWS/OBS–79/31 (1979).

The site inspection on July 17, 2013 during the site inspection, two areas of wetland were identified on the Site. The wetland areas were demarcated with consecutive series of pink "Wetland Delineation": 1-5 and 6-11

These two area are similar in make and are classified as PSS1E, seasonally saturated, scrub-shrub wetlands. Dominant vegetation is highbush blueberry in the shrub layer with some small regenerating red maples. The herbaceous layer is dominated by swamp dewberry and grass. These two areas are small and isolated to the site and appear as small depressions in the landscape receiving significant runoff from the surrounding uplands, with little to no functions and values.

If I can be of further assistance, please feel free to contact me at (603) 778-0644.

Sincerely,

Luke D. Hurley, CWS
Vice President
Gove Environmental Services, Inc.

8 Continental Dr Unit H, Exeter, NH 03833-7507
Ph (603) 778 0644 / *Fax* (603) 778 0654
www.gesinc.biz
info@gesinc.biz

New Hampshire Natural Heritage Bureau

To: Ronald Beal
133 Court Street
Portsmouth, NH 03801

Date: 10/31/2014

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 10/31/2014

VALID ONLY FOR NOTIFICTION OR MINIMUM EXPEDITED APPLICATIONS SUBMITTED TO THE NHDES WETLANDS BUREAU

NHB File ID: NHB14-4223 Applicant: Roger Wakeman

Location: Tax Map(s)/Lot(s): Map 72 Lot 209
Exeter

Project Description: Expand existing parking facility and provide connectivity to other campus facilities

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

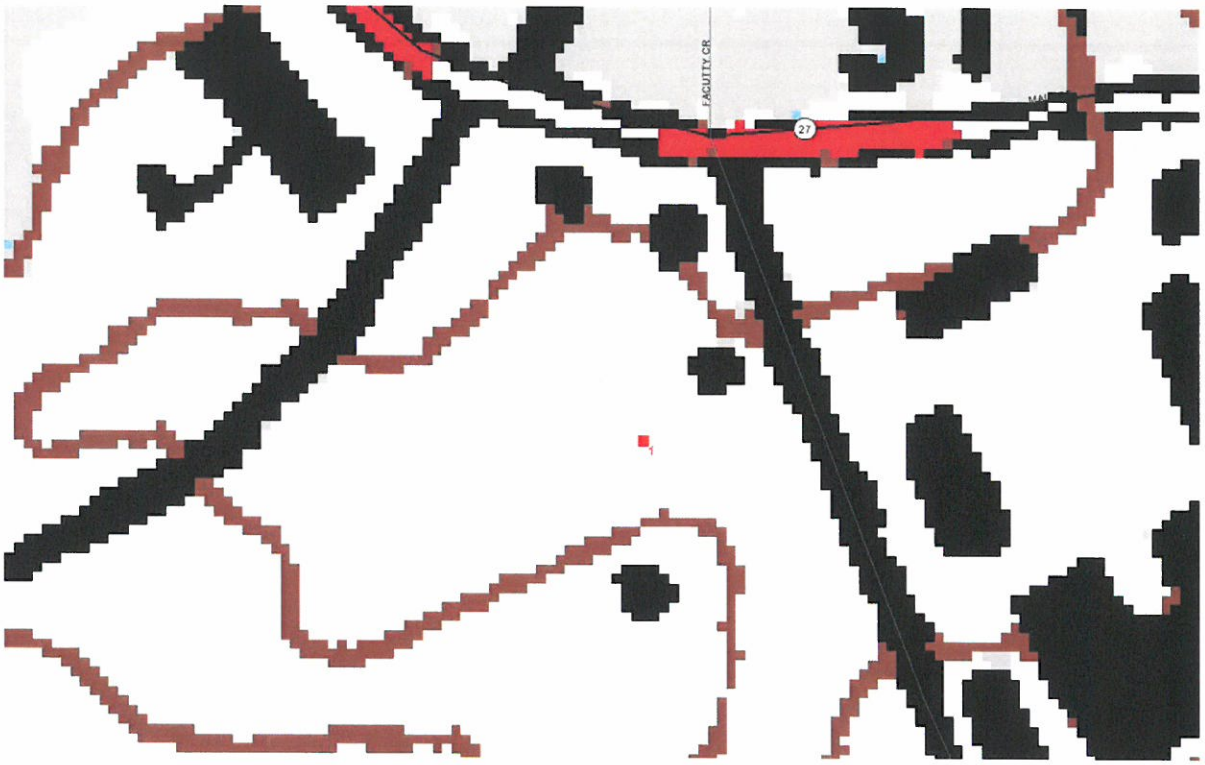
A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed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

This report is valid through 10/30/2015.

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

DRED/NHB
PO Box 1856
Concord NH 03302-1856

MAP OF NOTIFICATION POINTS FOR NHB FILE ID: NHB14-4223



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

DRED/NHB
PO Box 1856
Concord NH 03302-1856

US Army Corps of Engineers®
New England District

New Hampshire Programmatic General Permit (PGP)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See PGP, GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	X	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?		X
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see PGP, GC 26 and Appendix A)? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) website, www.nhnaturalheritage.org, specifically the book Natural Community Systems of New Hampshire.		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?		N/A
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		N/A
2.5 The overall project site is more than 40 acres. (Parcel 8.0 ac. +/-; Limit of construction 32,000 s.f. +/-)		X
2.6 What is the size of the existing impervious surface area?	11,153 S.F.	
2.7 What is the size of the proposed impervious surface area?	20,327 S.F.	
2.8 What is the % of the impervious area (new and existing) to the overall project site?	63% / 35%	
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require a NHB determination.)		X
3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.		X

3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the PGP, GC 21?		N/A
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		
5. Historic/Archaeological Resources		
For a minor or major impact project - a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) shall be sent to the NH Division of Historical Resources as required on Page 5 of the PGP**		N/A

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law..

ALTUS
ENGINEERING, INC.

Civil
Site Planning
Environmental
Engineering

133 Court Street
Portsmouth, NH
03801-4413

December 31, 2014

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review and Compliance
19 Pillsbury Street
Concord, NH 03301-3570

Re: Request for Project Review
Assessor's Map 72, Lot 209
Tan Lane
Exeter, NH
Altus Project #P4547

Dear Reviewer,

On behalf of the Applicant (Phillips Exeter Academy) Altus Engineering, Inc. respectfully submits a Request for Project Review for the property. Enclosed please find the following items:

- Request for Project Review
- Project Narrative
- Photos
- USGS Map
- NRCS Soils Map
- Copy of Wetland Permit Application
- Site Plans
- Self-addressed Stamped Envelope

Please call me if you have any questions or need any additional information.

Sincerely,

Ronald M. Beal, PE
Project Engineer

Enclosures

ecopy: Roger F. Wakeman, P.E., Phillips Exeter Academy
Mark Leighton, P.E., Phillips Exeter Academy

RMB\jkc\4547.SHPO-cover-letter.doc

Tel: (603) 433-2335 Fax: (603) 433-4194 E-mail: Altus@altus-eng.com

ALTUS
ENGINEERING, INC.

Civil
Site Planning
Environmental
Engineering

133 Court Street
Portsmouth, NH
03801-4413

December 30, 2014

ERLAC
c/o Rockingham Planning Commission
156 Water Street
Exeter, NH 30833

Subject: ***Tan Lane Parking Lot Improvements***
Tax Map 72, Lot 209
Tan Lane
Exeter, New Hampshire
P4547

Dear Reviewer:

Pursuant to State of New Hampshire *RSA Chapter 482-A,* this letter is to notify you, that *Phillips Exeter Academy* is submitting a Minimum Impact Expedited Application to NHDES for work located within ¼ mile of the Squamscott River at the property identified on the Town of Exeter as Tax Map 92, Lot 209.

Please call if you have any questions.

Sincerely,

Ronald M. Beal, PE
Project Engineer

RMB\jkc\4547.ERLAC.ltr.wet.doc

CERTIFIED MAIL

Tel: (603) 433-2335 Fax: (603) 433-4194 E-mail: Altus@altus-eng.com

Map Name: EXETER (NH)
Scale: 1 inch = 1,000 ft.

Map Center: 042° 58' 50.45" N 070° 57' 13.08" W
Horizontal Datum: NAD27

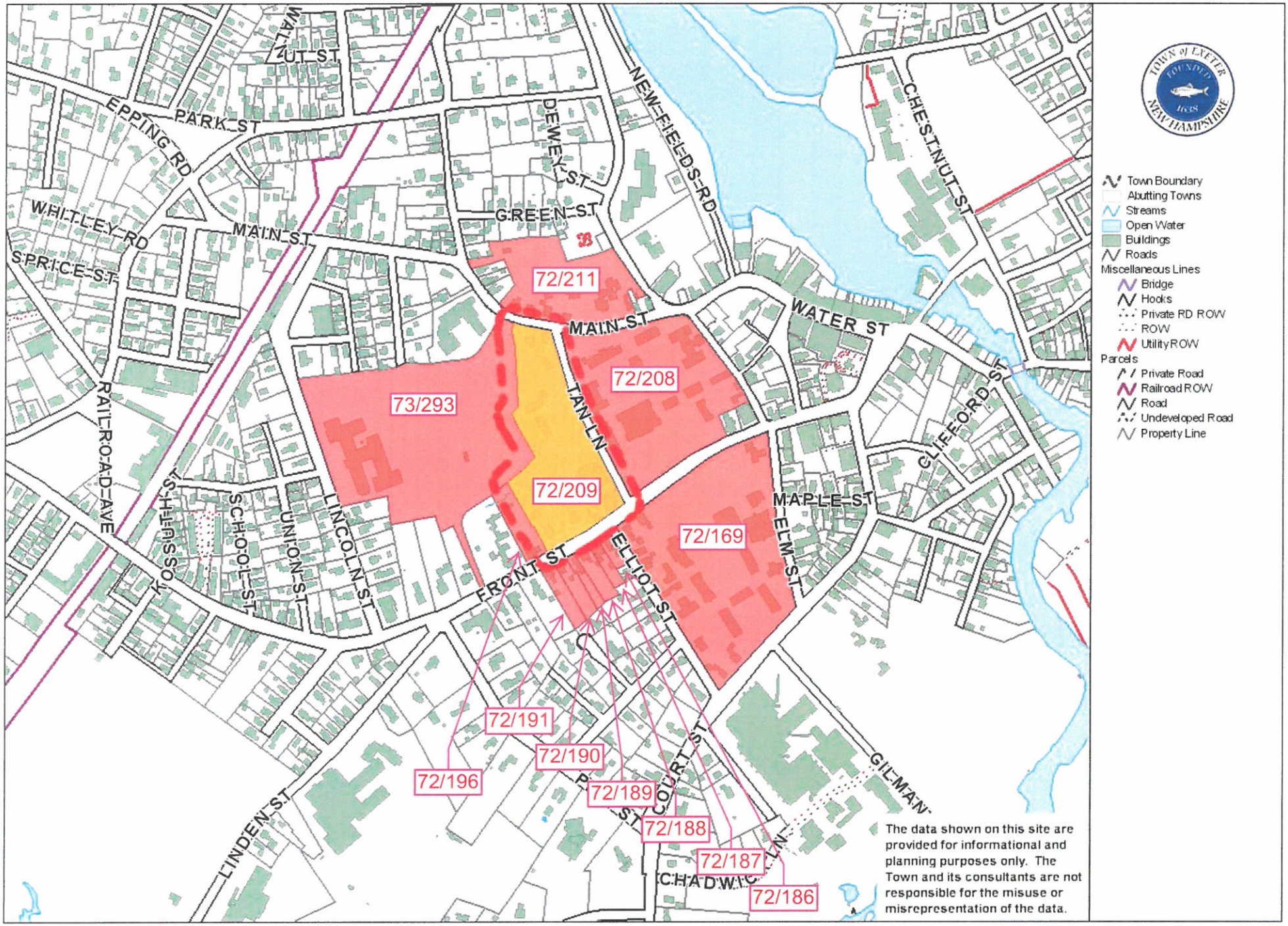
SCALE 1:12000

0 1000 2000 3000

FEET

Photo #1: Looking north at westerly edge of wetlands (July 2013)

Photo #2: Looking north at easterly edge of wetlands (July 2013)


EPPING RD
PARK ST
MAIN ST
DEWEY ST
NEW FIELDS RD
CHESTNUT ST
WHITTLEY RD
MAIN ST
GREEN ST
SPRICE ST
72/211
MAIN ST
WATER ST
72/208
73/293
TAN LN
CLIFFORD ST
RAILROAD AVE
72/209
MAPLE ST
ELM ST
72/169
SCHOOL ST
UNION ST
LINCOLN ST
FRONT ST
ELLIOT ST
72/191
72/190
72/196
72/189
COURT ST
72/188
GILMAN
72/187
LINDEN ST
CHADWICK LN
72/186
Town Boundary
Abutting Towns
Streams
Open Water
Buildings
Roads
Miscellaneous Lines
Bridge
Hooks
Private RD ROW
ROW
Utility ROW
Parcels
Private Road
Railroad ROW
Road
Undeveloped Road
Property Line
The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.
0
660
1320 ft
MapsOnline

PHILLIPS EXETER ACADEMY

20 MAIN STREET

TAN LANE PARKING LOT IMPROVEMENTS

Map 72, Lot 209

Exeter, New Hampshire

Tax Map 72 Lot 187
Frederick Kollmorgen Rev. Trust
70 Front Street
Exeter, NH 03833

Tax Map 72 Lot 188
Barbara S. Bohn
72 Front Street
Exeter, NH 03833

Tax Map 72 Lot 191
Will & Camille Weete
78 Front Street
Exeter, NH 03833

Tax Map 72 Lot 196
Mark & Sally Russ
79 Front Street
Exeter, NH 03833

Tax Map 73 Lot 293
Exeter School District
30 Linden Street
Exeter, NH 03833

Owner/Applicant:
Tax Map 72 Lots 169, 186, 189, 190, 208, 209, 211
Phillips Exeter Academy
20 Main Street
Exeter, NH 03833

Civil Engineer
Altus Engineering, Inc.
133 Court Street
Portsmouth, NH 03801

Land Surveyor
Millennium Engineering, Inc.
P.O. Box 745
13 Hampton Road
Exeter, NH 03833

Landscape Architect
Kyle Zick Landscape Architects, Inc.
36 Broomfield Street, Suite 302
Boston, MA 02108

Abutters List complied from Town of Exeter GIS – December 30, 2014

ALTUS
ENGINEERING, INC.

Civil
Site Planning
Environmental
Engineering

133 Court Street
Portsmouth, NH
03801-4413

December 30, 2014

Subject: ***Tan Lane Parking Lot Improvements***
Tax Map 79, Lot 209
Tan Lane
Exeter, New Hampshire
P4547

Dear Abutter:

Pursuant to State of New Hampshire *RSA Chapter 482-A,* this letter is to notify you, that Phillips Exeter Academy is submitting a Minimum Impact Expedited Application to the NHDES for work at the property identified on Town of Exeter as Tax Map 79, Lot 209. Your parcel abuts land owned by the Applicant.

The Applicant proposes to expand and reconfigure an existing gravel and paved parking area. The project will include new paved walkways for improved pedestrian access, lighting and stormwater best management practices. Within the topographic depression adjacent to the project, there are two (2) very small, low value wetlands (239 sf and 196 sf).

The area of wetlands impact is only 239 square feet. There will be no construction within 20-feet of your property line and therefore no action is required by you.

Plans are on file for your review at the Town of Exeter Clerk's office. Please feel free to contact us, the Applicant's engineering consultant, at (603) 433-2335, if you have any questions.

Sincerely,

Ronald M. Beal, PE
Project Engineer

RMB\jkc\4568.abut.ltr.wet.doc

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NH Division of Historical Resources
State Historic Preservation Office
Attention: Review and Compliance
19 Pillsbury Street
Concord, NH 03301-3570

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Restricted Delivery Fee (Endorsement Required)	$0.00
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ERLAC
c/o Rockingham Planning Commission
156 Water Street
Exeter, NH 30833

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Mark & Sally Russ
79 Front Street
Exeter, NH 03833

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Exeter School District
30 Linden Street
Exeter, NH 03833

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Total Postage & Fees	$ $3.79

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Sent To
Street, Apt. I or PO Box N
City, State, Z

Frederick Kollmorgen Rev. Trust
70 Front Street
Exeter, NH 03833

PS Form 380

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Total Postage & Fees	$ $3.79

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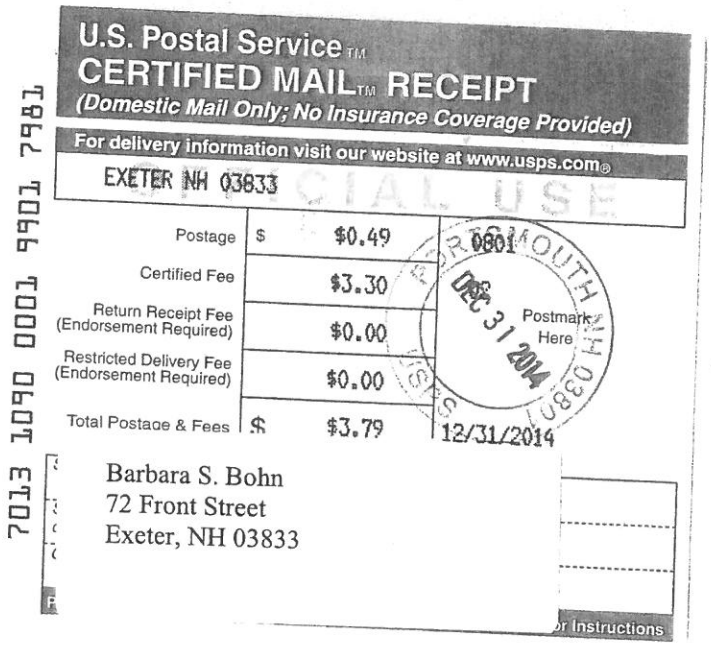
Will & Camille Weete
78 Front Street
Exeter, NH 03833



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Return Receipt Fee (Endorsement Required)		$0.00
Restricted Delivery Fee (Endorsement Required)		$0.00
Total Postage & Fees	$	$3.79

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12/31/2014

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Barbara S. Bohn
72 Front Street
Exeter, NH 03833

Instructions

These minutes are subject to possible corrections/revisions at a subsequent Conservation Commission meeting.

EXETER CONSERVATION COMMISSION
DECEMBER 9, 2014 MEETING MINUTES

CALL TO ORDER:
The meeting convened at 7:00 PM in the Wheelwright Room of the Exeter Town Offices. Members present included: Jason Gregoire - Chair, Peter Richardson, William Campbell, Anne Surman – Board of Selectmen Representative, and Kristen Murphy – Natural Resource Planner.

ACTION ITEMS:

1. ***Review of the Shade Tree Management Proposal for the Exeter Country Club Conservation Easement Area.***

Members from the Board of Directors Al Lampbert, Jonathan Leavitt, greens-keeper Patrick Pascucci, were present to discuss the proposal. Mr. Lampbert provided the Conservation Commission with an overview of the project. In order to facilitate air flow and sunlight hours to promote healthy grass growth, they are proposing to remove or limb trees in various locations throughout the course as identified in their proposal provided to members in their meeting packet. The proposal had been reviewed by Ms. Murphy who identified what level of review would be necessary for each task. Mr. Gregoire asked for a total number of trees proposed for removal but a total number was not known at this time. Mr. Lampbert explained they no longer intend to remove any trees that would trigger a Conditional Use Permit from the Planning Board or any action from the State Department of Environmental Services when asked if any actions were no longer a part of the proposal. The revised request is for trees in item 1 to be limbed, not removed, the roots of trees in item 5 that protrude into the greens will be pruned, only trees that pose a safety hazard in item 6 will be removed (approximately 2 trees). The overall goal is to select cut, remove dead and prune healthy trees. Mr. Campbell explained that he felt the intent of the proposal is good and that he would be more comfortable if a person from the Conservation Commission were onsite to review the individual trees for removal. Mr. Campbell moved that they approve the activities described in this proposal with review by Ms. Murphy or a representative of the Commission onsite. Future requests would return to the Commission for review. This was seconded by Mr. Richardson. Vote: Motion passed, unanimously.

2. ***Request by the Exeter Snowhounds for Permission to Utilize the Snowmobile Trails within lands managed by the Exeter Conservation Commission.***

Ms. Murphy provided members with a map of the trails utilized in previous years by the Exeter Snowhounds. She explained that the past permission term had expired and the Snowhounds were requesting permission to re-approve use of these trails. The term of approval in the past had varied from 1 year to 5 years. The Snowhounds were supportive of whichever timeframe the Commission was comfortable with. There was a brief discussion about the Snowhounds concern over the sharp turn required in one section of the trail just south of the powerline as the trail turns toward the Elliott property but for this year, given the timing the request is only for use of the previously approved alignment. Mr. Campbell moved to approve the use of the trail within the previously approved alignment for a term of 5 years. Seconded by Ms. Surman. Vote: Motion passed, unanimously. Mr. Richardson requested to inform the Snowhounds the Commission was supportive of the re-alignment as that corner seemed dangerous.

REGULAR BUSINESS:

1. **Committee Reports:**
   a. Boundary Monitoring – Ms. Murphy has scheduled an inspection of the Bunker property (owned by the Barkers) on Beech Hill Rd. on Wednesday December 10th.
   b. Trails – Ms. Murphy reported that from discussions with Eben Lewis of NHDES, it may be possible to obtain authorization for the large bridges that cross prime wetlands in the Forest Ridge conservation area. She reported it could be accomplished with a Notification of Trail Maintenance

request provided it includes a request for exemption from the Prime Wetland regulations because the impacts to the bridge are already existing and authorizing them does not increase impacts. If the Commission was supportive, Ms. Murphy would draft up this request for addressing at a future meeting. Mr. Gregoire stated that he was supportive of this. Mr. Richardson explained that he was not supportive because without the use of those crossing structures, trail users could still connect the sections north and south of the powerline using the trail that runs along the powerline. Ms. Murphy explained that the wetland along the powerline section is actually larger than what is shown on the maps as a result of beaver activity. The Snowhounds use this section when the wetland is frozen. Mr. Richardson made a motion to approve preparing the Notification of Trails Maintenance form. Mr. Campbell seconded.

Mr. Gregoire discussed the request to repair a bridge in significant deterioration within the Forest Ridge conservation area, indicating on the map where this crossing is located. Bob Kelly believed the bridge could be repaired for less than $200 in materials. Mr. Richardson moved to approve the expenditure of up to $200 for repair of the above mentioned bridge. Mr. Campbell seconded. Vote: Motion passed, unanimously.

c. Outreach – nothing to report this month.

2. **Minutes:** Approval of minutes was tabled until the next meeting, noting the following revisions: Action Item 1 4th paragraph should read Mr. Costello maintained that there were "no" impacts found from runoff. Committee reports – Trails last sentence should read Ms. Raub talked about "2-8foot sign posts".

3. **Treasurers Report:** Ms. Murphy reported that $691.48 remain in the budget for the current year.

4. **End of Year Purchase Requests:** Ms. Murphy presented information from Don Briselden to the Commission regarding the Raynes repairs and the timber management update. Don suggested the Commission approve up to $200 for temporary repair of the east side of barn and holes in the flooring. Mr. Campbell made a motion to approve $200 for these repairs, seconded by Mr. Richardson. Vote: Motion passed, unanimously. Ms. Murphy presented an invoice for the voluntary dues payment to the Exeter Squamscott Local Advisory Committee (ESRLAC) of $150. Mr. Richardson made a motion to approve this expense, seconded by Mr. Campbell. Vote: Motion passed, unanimously. Mr. Richardson motioned to purchase necessary small items with any remaining funds (examples include flagging, no hunting signs, etc) seconded by Mr. Campbell. Vote: Motion passed, unanimously.

5. **Natural Resource Planners Report:** Ms. Murphy suggested she provide a table of projects that are submitted to the Planning Department rather than take up meeting time discussing them. The group agreed with this approach. Ms. Murphy also mentioned the Town Report submission was coming due and if members had suggestions for information to discuss to please send it along to her. Mr. Gregoire suggested focusing on the Elliott property acquisition and the collaborative efforts associated with the acquisition process.

The next meeting is scheduled for January 18th at 7:00 PM.

By motion from Mr. Campbell and second by Mr. Richardson, the meeting was adjourned at 8:04 P.M.

Respectfully submitted,

Kristen Murphy
Natural Resource Planner
Planning & Building Department