



VIA CERTIFIED MAIL

LRAC NOTIFICATION

Mr. Edwin Mellet, Chair
1165 Lost Nation Road
Groveton, NH 03582

RE: Shoreland Permit Application # Northern Pass Project, LLC

Dear Mr. Mellett,

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water and/or Designated River in your regulatory area.

Sincerely,

Lee Carbonneau, PWS, CWS
As Agent for the Applicant
Normandeau Associate, Inc.
25 Nashua Rd
Bedford, NH 03110



Via Certified Mail

October 14, 2015

Town of Pittsburg New Hampshire
1526 Main Street
Pittsburg, NH 03592

Re: Shoreland Permit Application – The Northern Pass Project

Dear Sir or Madam:

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water or Designated River in your regulatory area.

Sincerely,

A handwritten signature in blue ink that reads "Lee E. Carbonneau".

Lee Carbonneau

Normandeau Associates, Inc.

As agent for Northern Pass Transmission, LLC.

Shoreland Permit Application Northern Pass Connecticut River, Pittsburg, NH

Prepared for
Northern Pass Transmission, LLC and
Public Service Company of New Hampshire
d/b/a Eversource Energy
Energy Park
780 Commercial Street
Manchester, NH 03101

October 2015

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DISCLOSURE STATEMENT

The data contained in all pages of this document have been submitted in confidence and contain trade secrets and/or privileged or confidential information, and such data shall be used or disclosed only for evaluation purposes, provided that if a contract is awarded to this proposer as a result of or in connection with the submission of this proposal, the client shall have the right to use or disclose the data herein to the extent provided in the contract. This document includes data that shall not be disclosed outside of the purposes of this submittal and shall not be duplicated, used, or disclosed--in whole or in part--for any purpose other than for evaluation purposes.

1.0 Shoreland Permit Application



SHORELAND PERMIT APPLICATION

Water Division/ Shoreland Program

Land Resources Management

Check the status of your application: <http://des.nh.gov/onestop>



RSA/Rule: RSA 483-B, Env-Wq 1400

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

This is an application for a permit to excavate, fill or construct new structures within the protected shoreland as regulated under RSA 483-B. For a complete list of activities that do not require a shoreland permit, view the shoreland program [frequently asked questions](#) (FAQ's)

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

1. PROPERTY OWNER			
LAST NAME, FIRST NAME, M.I.: Public Service Co. of NH d/b/a Eversource Energy (PSNH), c/o Kevin McCune, Supervisor, Environmental Affairs Licensing and Permitting			
ADDRESS: 780 Commercial Street	TOWN/CITY: Manchester	STATE: NH	ZIPCODE: 03101
PHONE: 603-669-4000	EMAIL: Kevin.mccune@eversource.com		
2. PROJECT LOCATION			
ADDRESS: Old Canaan Road and Route 3	TOWN/CITY: Pittsburg	STATE: NH	ZIPCODE: 03592
WATERBODY NAME: Connecticut River	TAX MAP: A1	LOT NUMBER: 29	
3. CONTRACTOR OR AGENT			
LAST NAME, FIRST NAME, M.I.: Carbonneau, Lee E.			
ADDRESS: 25 Nashua Rd	TOWN/CITY: Bedford	STATE: NH	ZIPCODE: 03110
PHONE: 603-637-1150	EMAIL: lcarbonneau@normandeau.com		
4. CRITERIA			
Please check at least one of the following below:			
<input checked="" type="checkbox"/> This shoreland permit application requires neither a proposal to make the property more nearly conforming nor a request for a waiver of a minimum standards.			
<input type="checkbox"/> This shoreland permit application includes a proposal to make the structures and/ or the property more nearly conforming in accordance with RSA 483-B:11			
<input type="checkbox"/> This shoreland permit application includes a request for a waiver of the following minimum standard(s)			
5. PROJECT DESCRIPTION			
Total Square feet of impact 20,827Total square feet of new impervious area 0			

Provide a complete description of the proposed project. **A new high voltage transmission line will be constructed in an existing road ROW. The Pittsburg Project area includes two shoreland locations along the Connecticut River. Work in the 250-foot shoreland includes the underground installation of transmission cable and minor improvements to an existing access road, as shown in the Project plans. The line will be placed underground in the road ROW by trenching, and directionally drilled under the Connecticut River. Some minor tree clearing may be necessary for access road improvements.**

6. PERMIT APPLICATIONS SUBMITTED

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

- ☒ Wetlands Permit per RSA 482-A ☐ Individual Sewage Disposal System per RSA 485-A:29
☒ Alteration of Terrain Permit Per RSA 485-A:17 ☐ Subdivision Permit Per RSA 485-A:29

7. REFERENCE LINE ELEVATION (REQUIRED FOR LAKES, PONDS, AND ARTIFICIAL IMPOUNDMENTS)

Reference line elevations for most lakes, ponds and artificial impoundments greater than 10 acres in size are listed in the [Consolidated List of Waterbodies Subject to the Shoreland Water Quality Protection Act](#). Please see RSA 483-B:4, xvii for the definition of reference line.

The reference line for this waterbody is: 1112 to 1118 Feet

8. SHORELAND FRONTAGE Shoreland frontage is the actual frontage along the waterfront measured at the reference line.

The shoreland frontage on this lot is 0 Linear Feet

☐ N/A – No Direct frontage on this lot

9. APPLICATION FEE

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

10. CALCULATING THE TOTAL IMPACT AREA AND PERMIT APPLICATION FEE

Total impact area is calculated by determining the sum of all areas disturbed by regrading, excavation, filling, construction, and structure removal. Impacts often include, but are not limited to: constructing new driveways, constructing new structures, areas disturbed when installing a new septic system or foundation, creating temporary access roads for the purpose of installing a well and regrading associated with landscaping activities.

Total Area Impacted within 250 Of the Reference Line. = **20,827 (A) Square Feet**

Multiply the total Impact Area By 10¢ and add \$100.00. **[(A) X .10 + \$100.00] = \$EXEMPT PER 483-B:5-B III Permit Fee**

11. REQUIRED CERTIFICATIONS

By initialing within the blank before each of the following statements, and signing below, you are certifying that: to the best of my knowledge, the information provided is true, complete and not misleading.

☒ I understand that any permit or waiver granted based on false, incomplete, or misleading information shall be subject to revocation.

☒ I am aware that obtaining a shoreland permit will not exempt the work I am proposing from other state, local or federal approvals.

☒ I have notified the municipality or municipalities in which the proposed impacts are located and provided them with a complete copy of the application and all supporting materials on / / via certified mail.

☒ This project is within ¼ mi of a [designated river](#) (river name: Connecticut River) and I have notified the [Local River Management Advisory Committee](#) by providing them with a copy of the complete application, including all supporting materials, via certified mail on day: 16 month: 10 year: 2015 and I have included a copy of the certified mail receipt in the application submittal (RSA 482-A:3,i(d)(2))

☐ This project is **not** within ¼ mi of a designated river

____ I have notified all abutters of the proposed impacts via certified mail as required by RSA 483-B:5-b, iv-a. (see definition of “abutter” on page (6). **Exempt per RSA-483-B:5-b, IV (A)**

12. SIGNATURES (Both must sign per Env-Wq 1406.08)

OWNER NAME	See attached signature page	PRINT NAME LEGIBLY: Kevin McCune, PSNH d/b/a Eversource Energy	DATE: <input type="text"/>
APPLICANT NAME	See attached signature page	PRINT NAME LEGIBLY: Kevin McCune, PSNH d/b/a Eversource Energy Northern Pass LLC, c/o Robert P. Clarke, Project Director	DATE: <input type="text"/>

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

SHORELAND APPLICATION WORKSHEET

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

For the purposes of this worksheet, “**Pre-Construction**” impervious surface areas¹ means all human made impervious surfaces² currently in existence on the property, whether to be removed or to remain after the project is completed. “**Post-Construction**” impervious area means all impervious surfaces that will exist on the property upon completion of the project, including both new and any remaining pre-existing impervious surfaces. All answers shall be given in square feet.

CALCULATING THE IMPERVIOUS AREA WITHIN 250 FEET OF THE REFERENCE LINE			
	STRUCTURE DESCRIPTION	PRE-CONSTRUCTION IMPERVIOUS AREA	POST-CONSTRUCTION IMPERVIOUS AREA
PRIMARY STRUCTURE Include all <u>attached</u> decks and porches.	_____	0 FT ²	0 FT ²
ACCESSORY STRUCTURES All other impervious surfaces excluding lawn furniture, well heads, and fences. Common accessory structures include, but are not limited to: driveways, walkways, patios and sheds.	<u>Roadway ROW drilling, trenching</u>	<u>31,945</u> FT ²	<u>39,969</u> FT ²
	_____	_____ FT ²	_____ FT ²
	_____	_____ FT ²	_____ FT ²
	_____	_____ FT ²	_____ FT ²
	_____	_____ FT ²	_____ FT ²
	_____	_____ FT ²	_____ FT ²
TOTAL:		(A) <u>31,945</u> FT²	(B) <u>39,969</u> FT²
Area of the lot located within 250 ft of reference line:			(C) <u>326,391</u> FT²
Percentage of lot covered by pre-construction impervious area within 250 ft of the reference line: <i>[divide (a) by (c) x 100]</i>			(D) <u>9.79</u> %
Percentage of lot to be covered by post-construction impervious area within 250 ft of the reference line upon completion of the project: <i>[divide (b) by (c) x 100]</i>			(E) <u>12.24</u> %

¹ “**Impervious surface area**” as defined in Env-Wq 1402.15 means, for purposes of the impervious surface limitation specified in RSA 483-B:9, V(g), the sum total of the footprint of each impervious surface that is located within the protected shoreland.

² “**Impervious Surface**” as defined in RSA 483-B:4, VII-b means any modified surface that cannot effectively absorb or infiltrate water. Examples of impervious surfaces include, but are not limited to, roofs, and unless designed to effectively absorb or infiltrate water, decks, patios, and paved, gravel, or crushed stone driveways, parking areas, and walkways.

IMPERVIOUS AREA THRESHOLDS

DETERMINING IF A STORMWATER MANAGEMENT PLAN IS REQUIRED


- ☒ This project does not require a stormwater management plan because the proposed post-construction impervious area (**Calculation E**) is less than or equal to 20%.
- ☐ This project requires a stormwater management plan because the proposed post-construction impervious area (**Calculation E**) is greater than 20%, but not greater than 30%.
- See details on the *Checklist of Required Items* on page 6
- ☐ This project requires a stormwater management plan designed and certified by a professional engineer because the post-construction impervious area (**Calculation E**) is greater than 30%; and
- All waterfront buffer grid segment must meet at least the minimum required tree and sapling point score.
- See details on the *Checklist of Required Items* on page 6

UNALTERED STATE REQUIREMENT

CALCULATING THE AREA TO REMAIN IN AN UNALTERED STATE

Total area of the lot between 50 ft and 150 ft of the reference line within which the vegetation currently exists in an unaltered state ³ (see definition below). If this area is completely altered, place a zero on line (F) and (I) and proceed to (J).	(F) 0
Total area of the lot between 50 ft and 150 ft from the reference line	(G) _____
At least 25 percent of the vegetation within area (G) must remain in an unaltered state. [.25 x G]	(H) _____
Place the smaller of line (F) and calculation (H) on this line. In order to remain compliant with RSA 483-B:9, V(b), this is the minimum area that must remain in an unaltered state between 50 ft and 150 ft from the reference line. This area must be represented on all plans.	(I) 0
Name of person who prepared this worksheet:	(J) <u>Tracy Coolidge</u>

³ “Unaltered State” means native vegetation allowed to grow without cutting, limbing, trimming, pruning, mowing, or other similar activities except as needed for renewal or to maintain or improve plant health.

Name and date of the plan this worksheet is based upon:	(K) <u>NHDES Shoreland Application Plans Connecticut River. Pittsburg, NH</u>
SIGNATURE: 	DATE: 10/13/2015

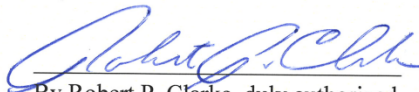
***Unaltered State-**

Vegetation in a public utility right-of-way must be maintained/ mowed regularly for safety and operational purposes. There will generally be little or no land in an unaltered state within an active transmission/road corridor, and therefore no calculations for this metric were performed. Furthermore, RSA 483-B:9 IV-b. states “Public utility lines and associated structures and facilities, public roads, and public water access facilities including boat ramps shall be permitted by the commissioner as necessary and consistent with the purposes of this chapter and other state law.” In addition, RSA 483-B:2 XVI provides for economic development in proximity to waters.

Block 12. Signatories for NH Department of Environmental Services Shoreland Permit Applications


Applicant

1. Eversource Energy Service Corporation, as duly authorized agent for
Northern Pass Transmission LLC
Robert P. Clarke
Director, Transmission Business Operations
780 North Commercial Street
Manchester, NH 03101
Tel: 781-441-8057
Robert.Clarke@eversource.com


By Robert P. Clarke, duly authorized

Owner and Applicant

2. Eversource Energy Service Corporation, as duly authorized agent for
Public Service Company of New Hampshire d/b/a Eversource Energy
Kevin F. McCune
Supervisor, Environmental Affairs Licensing and Permitting
780 North Commercial Street
Manchester, NH 03101
Phone: 339-987-7020
Kevin.mccune@eversource.com


By Kevin F. McCune, duly authorized

2.0 Copy of Check for Application Fee

N/A, per RSA 483-B:5-b-III. Construction of public roads, public utility lines and associated structures and facilities, and public water access facilities shall be exempt from the permitting fees of paragraph I and the abutter notification requirements of paragraph IV-a.

3.0 Project Specific Work within the Protected Shoreland

The Northern Pass project area extends from the international border of Canada and the United States in Pittsburg, New Hampshire to Londonderry, New Hampshire. The project will require work within the 250-foot protected shoreland of multiple waterbodies. The Connecticut River is located within the N1 underground line portion of the Project. This application includes information related to the work within an existing road ROW and improvements to a construction access route that intersect the protected shoreland of the Connecticut River in Pittsburg, NH at two locations.

The Project seeks to take advantage of existing transmission and road ROW in order to minimize environmental and other impacts of the Project. The underground transmission line will be located in the shoulder and/or roadbed of NH Route 3 and a small portion of an unimproved access road intersecting with Old Canaan Road.

Underground cables will be installed using a combination of construction techniques including direct bury of the cable, installation of the cable in a duct bank, or the use of trenchless technology (directional boring and jack and bore). These techniques result in cables being buried at different depths. Direct-buried cable is installed approximately four feet below grade. The depth of duct banks varies, but these will have at least 2.5 feet of cover. Cables installed via jack and bore will approximately 10 to 15 feet below grade. Directional boring sections will be installed at a maximum depth of approximately 65 feet below grade, and will be used primarily for crossing under large perennial streams and rivers. Exact depths may be adjusted during final design. Jack and bore and directional bore require installation pits for construction. Direct bury and duct bank installations require permanent splice boxes or vaults spaced approximately every 1,800 feet to allow for maintenance.

3.1 Connecticut River Site 1

At site 1, the Connecticut is classified as a fifth order stream (R3RB2) with a rubble bottom. The Connecticut River is a Designated River under the Rivers Management and Protection Act. The line will follow the Route 3 ROW corridor across the Connecticut River. The line will be directionally drilled under the river, but one sending/receiving pit and some trenching will be needed within the shoreland (Appendix A). Route 3 is largely surrounded by undeveloped, managed, mixed forest in Pittsburg, and several residences are present on Old Canaan Road. For all work within the shoreland buffer, shrub and herbaceous vegetation will be left undisturbed wherever possible.

No element occurrences have been identified by the New Hampshire Natural Heritage Bureau (NHB) within a half mile of Site 1.

Pittsburg Connecticut River Site 1	0'-50' Waterfront Buffer	50'-150' Natural Woodland Buffer	150'- 250' Shoreland Buffer	Total Impacts at Shoreland
Temporary Impacts	0 sq. ft.	155 sq. ft. trenching	4,073 sq. ft. trenching	4,228 sq. ft. trenching
Permanent Impacts	0 sq. ft.	1,745 sq. ft.	12,109 sq. ft.	13,854 sq. ft.
Pre-Construction Impervious Surface Area	2,268 sq. ft.	13,489 sq. ft.	9,994 sq. ft.	25,750 sq. ft.
Post-Construction Impervious Surface Area	2,268 sq. ft.	14,864 sq. ft.	16,642 sq. ft.	33,774 sq. ft.

3.2 Connecticut River Site 2

At site 2, the Connecticut River is classified as a fifth order stream (R3RB2) with a rubble bottom. Improvements will be made to an existing access road which intersects the protected shoreland buffer just at its terminus at Old Canaan Road. Work in the shoreland at Site 2 will include minor road improvements and potential widening of the access road, as well as possible tree clearing (Attachment A).

No element occurrences have been identified by NHB within a half mile of Site 2.

Pittsburg Connecticut River Site 2.	0'-50' Waterfront Buffer	50'-150' Natural Woodland Buffer	150'- 250' Shoreland Buffer	Total Impacts at Shoreland
Temporary Impacts	0 sq. ft.	0 sq. ft.	2,745 sq. ft.	2,745 sq. ft. t
Permanent Impacts	0 sq. ft.	0 sq. ft.	0 sq. ft.	0 sq. ft.
Pre-Construction Impervious Surface Area	0 sq. ft.	668 sq. ft.	5,527 sq. ft.	6,195 sq. ft.
Post-Construction Impervious Surface Area	0 sq. ft.	668 sq. ft.	5,527 sq. ft.	6,195 sq. ft.

3.3 Connecticut River Summary

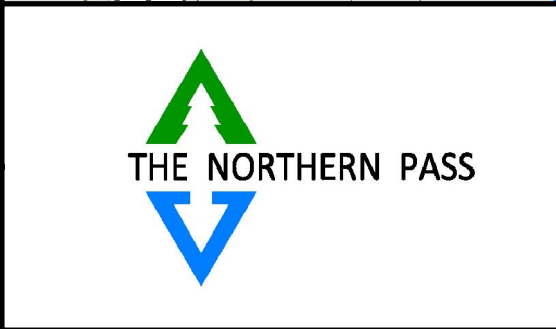
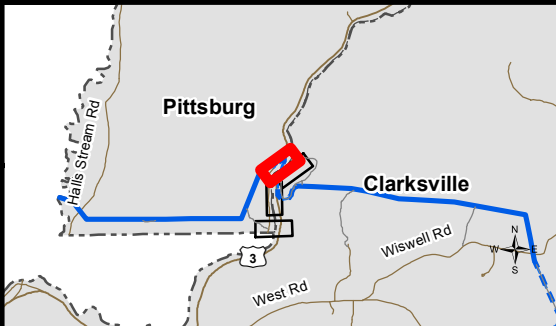
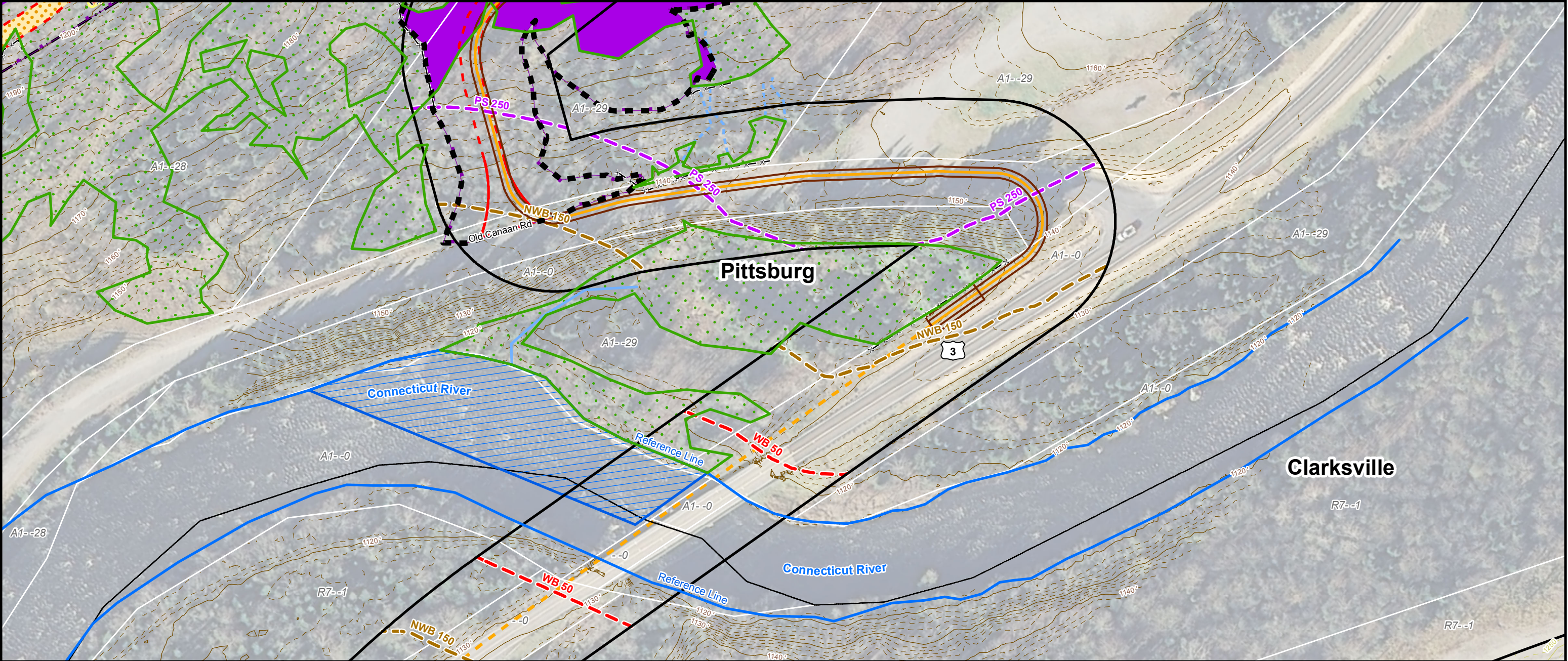
The Connecticut River in Pittsburg is part of the N1 Underground Line portion of the Project. At the 2 sites where work is proposed in the protected shoreland buffer, the Connecticut is classified as a fifth order stream (R3RB2) with a rubble bottom. The proposed underground transmission line will be installed in the Route 3 ROW, passing under the Connecticut River via directional drilling, with some trenches and pits needed within the protected shoreland buffer. Work at this site will include trenching for the placement of underground transmission lines (Attachment A). In addition, improvements will be made to an existing access road which intersects the shoreland buffer just at its terminus at Old Canaan Road. Work will include minor road improvements and potential widening and possible tree clearing (Attachment A).

Route 3 is largely surrounded by undeveloped, managed mixed forest in Pittsburg. For all work within the Shoreland Buffer, shrub and herbaceous vegetation will be left undisturbed wherever possible.

No element occurrences have been identified by NHB within a half mile of the two project sites in Pittsburg.

Pittsburg Connecticut River Summary	0'-50' Waterfront Buffer	50'-150' Natural Woodland Buffer	150'- 250' Shoreland Buffer	Total Impacts at Shoreland
Temporary Impacts	0 sq. ft.	155 sq. ft.	6,685 sq. ft.	6,973 sq. ft.
Permanent Impacts	0 sq. ft.	1,745 sq. ft.	12,109 sq. ft.	13,854 sq. ft.
Pre-Construction Impervious Surface Area	2,268 sq. ft.	14,157 sq. ft.	15,521 sq. ft.	31,945 sq. ft.
Post-Construction Impervious Surface Area	2,268 sq. ft.	15,532 sq. ft.	22,169 sq. ft.	39,969 sq. ft.

■ Appendix A Plans



Existing Conditions

- Existing Structure
- Existing Structure to be Removed
- Existing Transmission Line
- Existing Transmission Line to be Removed
- Delineated Wetlands
- Tax Parcels
- Existing Right of Way
- 10' Index Contour
- 2' Interval Contour

Stream Centerlines

- USGS 10' Contour
- USGS 2' Contour
- Perennial
- Intermittent
- Ephemeral

Delineated Waterbodies

- Perennial
- Intermittent
- Ephemeral
- Local Setbacks

Proposed Conditions

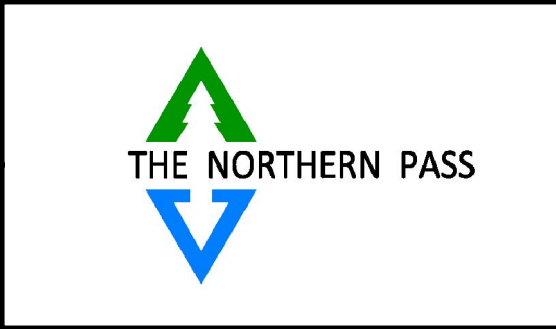
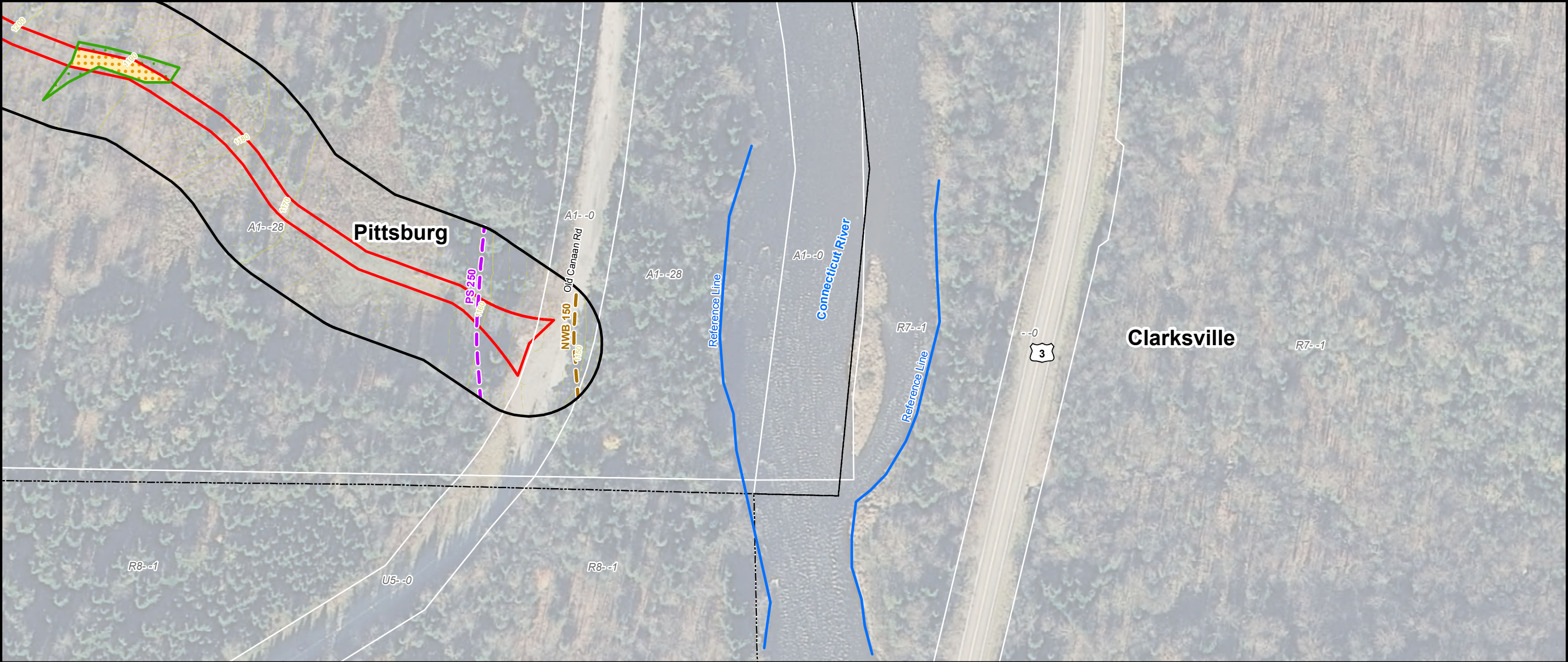
- Proposed Structure - No Shoreland Impact
- Proposed Structure - Shoreland Impact
- Proposed Transmission Line
- Proposed New Right of Way
- Off ROW and UG Reporting Extents
- Temporary Construction Pad
- Station LODs
- Existing Access Route
- New Access Route

- Temporary Wetlands Matting (16'x 16')
- Erosion and Sedimentation Control BMPs
- Erosion and Sedimentation Control BMPs (Steep Slope)
- Temporary Limit of Disturbance - Construction Pad
- Limits of Permanent Vegetation Clearing
- UG Splice Vaults
- Trenched UG
- Trenchless UG

NHDES Shoreland Permit Application Plans

SWQPA Areas	Extent of Clearing (sq. ft.)	Construction Impacts (sq. ft.)		Impervious Surface (sq. ft.)	
	Clearing in Upland	Temporary	Permanent	Pre-Construction	Post - Construction
Waterfront Buffer (50')	0	0	0	2,268	2,268
Natural Woodland Buffer (150')	2,082	155	1,745	13,489	14,864
Protected Shoreland (250')	12,333	4,073	12,109	9,994	16,642
Total	14,415	4,228	13,854	25,750	33,774
May not sum to total due to rounding					
THE NORTHERN PASS PROPOSED ROUTE			Connecticut River, Pittsburg		
Date: 9/8/2015	DRAWN: LD				Page 01

Source: NHDOT 2010 and 2011 Aerials; New Hampshire GRANIT GIS Data; Coler & Colantonio; Normandeau; Burns & McDonnell.



Existing Conditions

Existing Structure

Existing Structure to be Removed

Existing Transmission Line

Existing Transmission Line to be Removed

Delineated Wetlands

Tax Parcels

Existing Right of Way

10' Index Contour

2' Interval Contour

USGS 10' Contour

USGS 2' Contour

Stream Centerlines

Perennial

Intermittent

Ephemeral

Delineated Waterbodies

Perennial

Intermittent

Ephemeral

Local Setbacks

Proposed Conditions

Proposed Structure - No Shoreland Impact

Proposed Structure - Shoreland Impact

Proposed Transmission Line

Proposed New Right of Way

Off ROW and UG Reporting Extents

Temporary Construction Pad

Station LODs

Existing Access Route

New Access Route

Temporary Wetlands Matting (16'x 16')

Erosion and Sedimentation Control BMPs

Erosion and Sedimentation Control BMPs (Steep Slope)

Temporary Limit of Disturbance - Construction Pad

Limits of Permanent Vegetation Clearing

UG Splice Vaults

Trenched UG

Trenchless UG

1 inch equals 100 feet
when printed at 11" x 17"

02550100
Feet

NHDES Shoreland Permit Application Plans					
SWQPA Areas	Extent of Clearing (sq. ft.)	Construction Impacts (sq. ft.)		Impervious Surface (sq. ft.)	
	Clearing in Upland	Temporary	Permanent	Pre-Construction	Post - Construction
Waterfront Buffer (50')	0	0	0	0	0
Natural Woodland Buffer (150')	0	0	0	668	668
Protected Shoreland (250')	0	2,745	0	5,527	5,527
Total	0	2,745	0	6,195	6,195
May not sum to total due to rounding					
THE NORTHERN PASS PROPOSED ROUTE			Connecticut River, Pittsburg		
Date: 9/8/2015	DRAWN: LD				Page 02

Source: NHDOT 2010 and 2011 Aerials; New Hampshire GRANIT GIS Data; Coler & Colantonio; Normandeau; Burns & McDonnell.

■ Appendix B

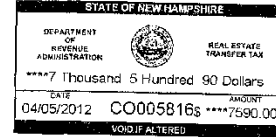
Property Deeds

Per recommendation of the NH Department of Environmental Services Shoreland Bureau, legal documents associated with easements and other property rights, including deeds, are being submitted separately via CD to NHDES. NPT will install underground transmission facilities pursuant to authority provided under RSA 231:160, et seq. for use of public highways for various utility purposes.

Doc # 0001369 Apr 5, 2012 2:08 PM
Coos County Registry of Deeds
Carole A. Lamirande
Carole A. Lamirande, Registrar



Return To:
Gallagher, Callahan & Gartrell, P.A.
P.O. Box 1415
Concord, New Hampshire 03302-1415
Attn: MDR



QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS, that **BRENT W. WASHBURN** and **MARY BETH WASHBURN**, husband and wife, of 64 Hooksett Turnpike, Concord, NH 03301, for consideration paid, grant to **RENEWABLE PROPERTIES, INC.**, a New Hampshire business corporation with an address of Energy Park, 780 North Commercial Street, Manchester, New Hampshire 03101 with **QUITCLAIM COVENANTS**, the following described real estate:

A certain tract or parcel of land, with improvements thereon, if any, situate in the **Town of Pittsburg, County of Coos and State of New Hampshire**, being the premises formerly occupied by Edward P. Kane as a homestead, and bounded as follows:

Bounded northeasterly by a line between the within-conveyed premises and premises formerly known as the Addison Chase Farm, said line depicted in an agreement between Addison Chase and Charles H. Johnson dated August 1, 1912 and recorded at Volume 158, Page 325 in the Coos County Registry of Deeds; bounded by a line known as the Old Hereford Line; and bounded easterly by the Connecticut River, containing One Hundred Acres, more or less.

EXCEPTING and reserving from the above described parcel the following conveyances of real estate:

- (a) That portion of the premises lying within the bounds of Route 3 taken by the State of New Hampshire by Commissioners' Return of Highway Layout dated April 27, 1971 and recorded at Book 544, Page 7 in the Coos County Registry of Deeds;
- (b) The premises conveyed by Arlene Shields to Melvin O. French and Linda A. French by deed dated July 29, 1977 and recorded at Book 599, Page 408 in said Registry;
- (c) The premises described as being 5.00+/- acre tract located on the west side of U.S. Route 3 described in deed of Arlene Shields to John Shields and

BK 347P60448

Arlene Shields dated July 18, 1979 and recorded at Book 621, Page 220 in said Registry;

- (d) The premises described as being a 5.11 acre parcel which was conveyed by Brent W. Washburn to Larry E. Shields by way of a Warranty Deed dated October 7, 1998 and recorded at Book 903, Page 595 in said Registry;

TOGETHER WITH the right-of-way reserved by Arlene Washburn Shields in her deed to Larry Shields, Kent G. Washburn and Brent W. Washburn dated January 25, 1996 and recorded at Book 854, Page 47 in said Registry.

RESERVING two (2) of the remaining four points of access on the westerly/northwesterly sideline of Route 3 as described in NH DOT Permit #01-369-4910, dated 02/13/2012, reference to which is made and incorporated herein. The Grantors, Brent & Mary Washburn, reserve one of these access points for Brent Alley, which is further described in the paragraph immediately below, and the location of the other point of access to be determined by the Grantors, Brent & Mary Washburn, in the future. The point of access to be determined by Brent and Mary Washburn, their heirs, successors and assigns shall be located northerly of the above described parcel herein conveyed, and on other land, not on the property conveyed herein. Renewable Properties, Inc., their successors and assigns, can apply for any new driveway access points on the frontage of the subject property at its discretion.

The Grantors, Brent & Mary Washburn, reserve one access point from U.S. Route 3 past the southwest corner of the so-called French property to said Old Town Road a.k.a. Ed Brown Road, the approximate location of which is shown as "Brent Alley (proposed)" and "Proposed Access Easement" on a plan entitled "Subdivision Plan of Land, Pittsburg NH Land of Renewable Properties, Inc." prepared by Coler & Colantonio, Inc., last revision date of March 5, 2012 and recorded herewith as Plan #3642 ("Plan") in the Coos County Registry of Deeds, and for access to Grantors, their heirs and assigns, to property of Kent G. Washburn as described in a Warranty Deed dated January 17, 1997 and recorded at Book 876, Page 370 in said Registry.

The foregoing rights of access known as "Brent Alley" shall be at least fifty (50) feet wide and sufficient to accommodate a Class VI road, the development and maintenance of which shall be at the option of the Grantors, Brent & Mary Washburn, their heirs and assigns, or Grantee, Renewable Properties, Inc., its successors and assigns, and at the expense and liability of the developing party or Grantors, their heir and assigns. Grantee makes no representation or warranties about the Grantors' ability to obtain the necessary authorizations and approvals for such a road, and it is agreed that Grantors', their heirs and assigns may undertake efforts to have said right-of-way be designated as a town road at their sole expense and the Grantee, its successors and assigns, shall not oppose and will assist such effort. Grantee shall install a locked gate at the intersection of Brent Alley and U.S. Route 3 in the location shown on the Plan, accessible by Grantee, its successors and agents, and Grantors and their agents, guests, invitees, heirs and assigns but intended to limit access to Brent Alley by the general public. The Grantor, their heirs and assigns

BK 1347P60449

shall have at least one (1) key to the locked gate at all times. If Grantors are able to obtain Town approval and acceptance by the Town of "Brent Alley" as a Town road the locked gate shall be removed at Grantors sole expense.

Brent and Mary Beth Washburn, their heirs, successors and assigns, reserve the sole rights to grant access to "Brent Alley" as shown on the aforesaid subdivision plan to be recorded, and relating to that property on the westerly side of the Old Hereford Line. Renewable Properties, Inc., its successors and assigns, shall obtain sole rights to grant access to "Brent Alley" when no family members of Brent and Mary Beth Washburn and their heirs own property benefited by "Brent Alley". Family members of Brent and Mary Beth Washburn include Brent and Mary Beth Washburn, their direct descendants, their brothers and sisters and the direct descendants of their brothers and sisters. The ownership of the property benefited by "Brent Alley" may be by direct ownership of the described individuals or ownership in the name of a business entity controlled by said described individuals.

This conveyance is made "As Is" and "Where Is". The Grantors, Brent & Mary Washburn, are responsible for all timber taxes due on the subject property for the timber cutting that was performed during 2011 and was completed by February 29, 2012.

In the event Renewable Properties, Inc. (hereinafter "Renewable"), its successors and assigns, decide to resell the subject property for a period of ten (10) years from the date below, Renewable, its successors and assigns shall give written notice of such proposed sale and the terms of such sale to Brent and Mary Beth Washburn, their heirs and assigns at their current residence address which is 64 Hooksett Turnpike, Concord, NH 03301 or other noticed residence address. Such notice must be within thirty (30) days of the listing to sell the subject property.

Meaning and intending to describe a portion of the premises conveyed to Brent W. Washburn by deed of Arlene Shields formerly Arlene Washburn by Warranty Deed dated January 7, 1997 and recorded at Book 870, Page 887 in said Registry. See also the deed from Brent W. Washburn to Brent W. and Mary Beth Washburn dated September 3, 2002 and recorded at Book 1006, Page 147 in said Registry.

In the event there is a legal proceeding brought by either party, their heirs, successors or assigns as to any provision of this deed, the party that does not prevail shall be responsible for the reasonable legal fees and costs of the party that prevails in said legal proceeding.

BN1347P60450

THIS IS NOT HOMESTEAD PROPERTY

Witness our hands this 5 day of April, 2012.

S. David S. P.
Witness

Brent W. Washburn
Brent W. Washburn

S. David S. P.
Witness

Mary Beth Washburn
Mary Beth Washburn

STATE OF NEW HAMPSHIRE
COUNTY OF MERRIMACK, SS

On this the 5th day of April, 2012, before me, the undersigned officer, personally appeared Brent W. Washburn and Mary Beth Washburn, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument and acknowledged that they executed the same for the purposes therein contained.

Before me,

[Signature]
Notary Public/Justice of the Peace
Printed Name:
My Commission Expires:

MICHAEL D. RUEDIG, Notary Public
My Commission Expires May 11, 2016

BK1367PG0451

Return to:
Michael D. Ruedig, Esq.
Gallagher, Callahan & Gartrell, PC
PO Box 1415
Concord, NH 03302-1415

Doc # 0004539 Oct 12, 2012 11:42 AM
Coos County Registry of Deeds
Carole A. Lamirande
Carole A. Lamirande, Registrar



WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS, that **J. DANE STARLING and ELAINE STARLING**, husband and wife, of 5320 Big Canyon Road, Shingle Springs, CA 95682, for consideration paid, grant to **RENEWABLE PROPERTIES, INC.**, a New Hampshire business corporation with an address of Energy Park, 780 North Commercial Street, Manchester, New Hampshire 03101 with **WARRANTY COVENANTS**, the following described real estate located in the Town of Pittsburg, Coos County and State of New Hampshire:

Certain parcels of land, with any and all buildings thereon, situated in the Town of Pittsburg, County of Coos and State of New Hampshire, designated as Lot AI-28 on the Town of Pittsburg; Tax Map, described as follows:

TRACT 1:

A certain piece of land in Pittsburg, New Hampshire, in the County of Coos, described as follows, viz: Being all and the same land and premises conveyed by deed of Isidore Martineau dated November 23, 1959 and recorded in the Coos County Registry of Deeds, and conveyed to Holman J. Arney by Albert Martineau, December 1, 1959, recorded in the Coos County Registry of Deeds at Book 446, Page 398.

Said land and premises are all and the same land and premises conveyed to Isidore Martineau by warranty deed of Burton Owen dated May 8, 1943 and recorded in Book 326, Page 203 of Coos County Registry of Deeds.

BK 1361 PG 0463

Meaning and intending to describe and convey all and the same premises as described in Warranty Deed from Holman J. Amey to John E. Maxfield and Margaret Maxfield, dated July 23, 1963 and recorded in the Coos County Registry of Deeds in Book 473, Page 359.

TRACT 2:

A certain piece or parcel of land situated in the Town of Pittsburg, in the County of Coos and State of New Hampshire, bounded and described as follows:

Being Lot numbered One (1) in the First (1st) Division of lots in said town, containing two hundred (200) acres, more or less, excepting and reserving a small field of cleared land situated on the West side of the highway leading from Beecher Falls to Pittsburg, New Hampshire, containing about five (5) acres, more or less, and the same reservation made in a deed from Seneca Hardy and wife to Ernest Tillotson dated November 18, 1905, and recorded in Book 123, Page 308 of the Coos County Registry of Deeds, also excepting all pole line rights on the same.

Meaning and intending to describe and convey all and the same premises conveyed by Ernest E. Tillotson to A.M. Stahl, August 20, 1907, recorded in the Coos County Registry of Deeds in Book 131, Page 227, it being understood and agreed that in the event of its being established that one Isidore Martineau, or his heirs and assigns, own more land in said lot than is reserved herein, either by being cleared or otherwise, then and in such event, the warranties of title herein made shall not apply thereto.

Meaning and intending to describe and convey all and the same premises as described in Warranty Deed from Albert Biron to John E. Maxfield and Margaret W. Maxfield, dated August 1, 1963 and recorded in the Coos County Registry of Deeds in Book 476, Page 343.

TRACT 3:

A certain tract or parcel of land in the Town of Pittsburg, County of Coos and State of New Hampshire, being three-fourths (3/4) of Lot numbered Two (2) in Range number One (1) of lots in said Town of Pittsburg, being the north half and the southwest quarter of said Lot, containing approximately one hundred fifty-six (156) acres; also approximately six (6) acres off from the south side of Lot Number One (1) in Range Two (2) of lots in said Pittsburg.

Meaning and intending to describe and convey all and the same premises as described in Warranty Deed from Leon Chaloux to John E. Maxfield and Margaret W. Maxfield, dated July 19, 1965 and recorded in the Coos County Registry of Deeds in Book 492, Page 18.

The foregoing Tracts 1, 2 and 3 are the same premises conveyed to Elaine Starling and J. Dane Starling by Warranty Deed of John E. Maxfield and Margaret W. Maxfield dated November 4, 2010, and recorded at Book 1315, Page 763, said Registry of Deeds.

The premises are conveyed SUBJECT TO the following:

1. Easement fifty feet in width granted by John E. Maxfield and Margaret W. Maxfield to

New England Telephone and Telegraph Company and New Hampshire Electric Co-operative Inc. dated May 25, 1965, and recorded at Book 494, Page 383.

2. Current use land taxation liens as set forth in the Notices of Current Use recorded with said Registry at Book 781, Pages 635, 636 and 637, and any land use change tax together with any interest and penalties thereon, which may become due pursuant to New Hampshire RSA 79-A.

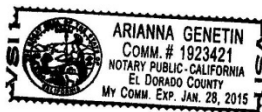
THIS IS NOT HOMESTEAD PROPERTY.

EXECUTED this 28 day of September, 2012.

J. Dane Starling
J. Dane Starling
Elaine Starling
Elaine Starling

STATE OF California
COUNTY OF El Dorado

On this the 28th day of September, 2012, before me, the undersigned officer, personally appeared the above-named J. Dane Starling known to me or satisfactorily proven to be the person whose name is subscribed to the foregoing instrument and acknowledged that he executed the same for the purpose therein contained.



Arianna Genetin
Justice of the Peace/Notary Public
My Commission Expires 01-28-2015
Print name Arianna Genetin

SEE ATTACHED
NOTARY CERTIFICATE

BK 1361 PG 0465

ACKNOWLEDGMENT

State of California
County of El Dorado

On 9/28/2012 before me, Arianna Genetin, Notary Public
(insert name and title of the officer)

personally appeared J. Dane Starling
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature Arianna Genetin (Seal)



BK 1361 PG 0466

STATE OF California
COUNTY OF El Dorado

On this the 28th day of September, 2012, before me, the undersigned officer, personally appeared the above-named Elaine Starling known to me or satisfactorily proven to be the person whose name is subscribed to the foregoing instrument and acknowledged that she executed the same for the purpose therein contained.



Arianna Genetin
Justice of the Peace/Notary Public
My Commission Expires 1-28-2015
Print name Arianna Genetin

SEE ATTACHED
NOTARY CERTIFICATE

BK1361PG0467

ACKNOWLEDGMENT

State of California
County of El Dorado)

On 9/28/2012 before me, Arianna Genetin, Notary Public
(insert name and title of the officer)

personally appeared Elaine Starling
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

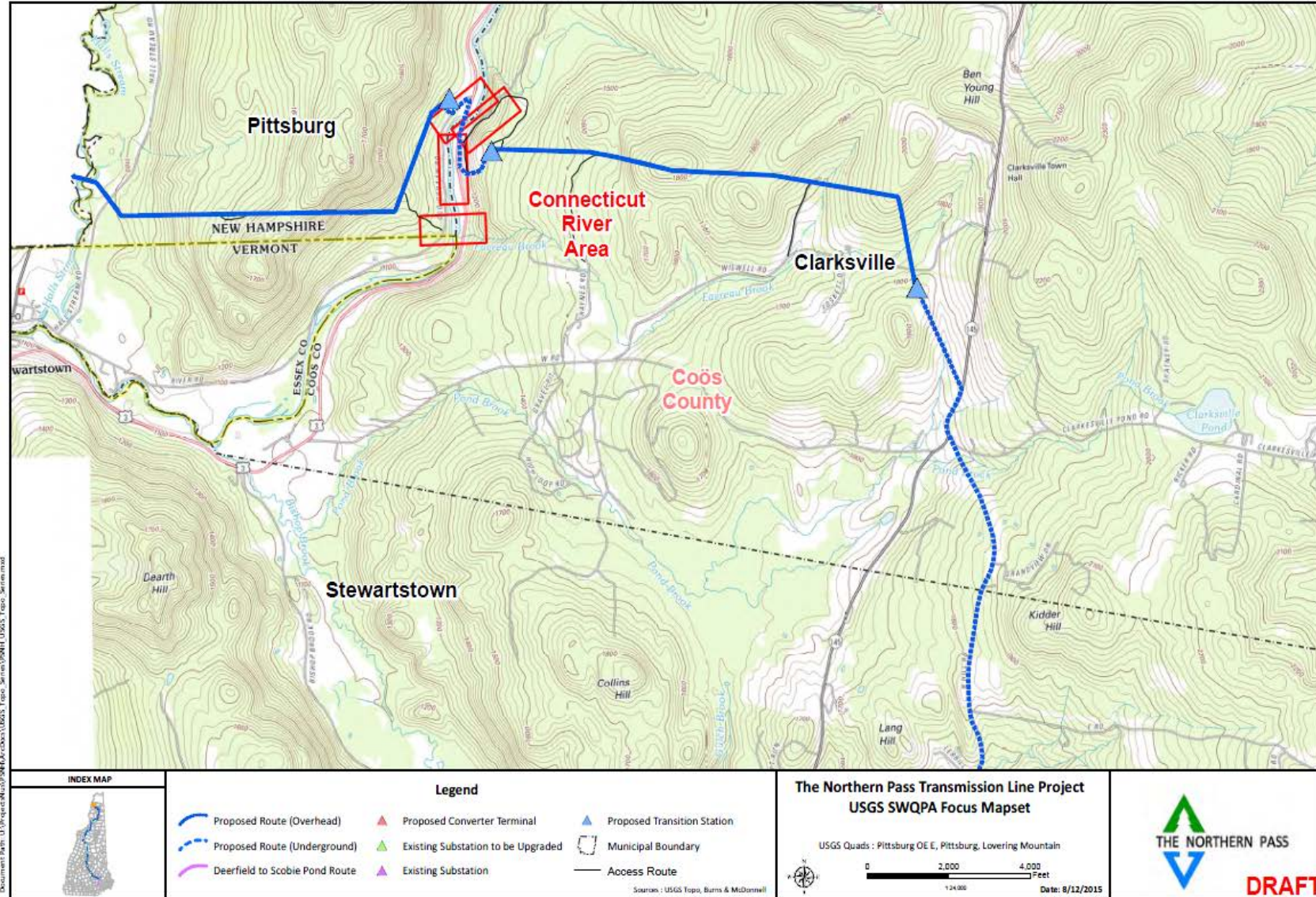
WITNESS my hand and official seal.

Signature Arianna Genetin (Seal)



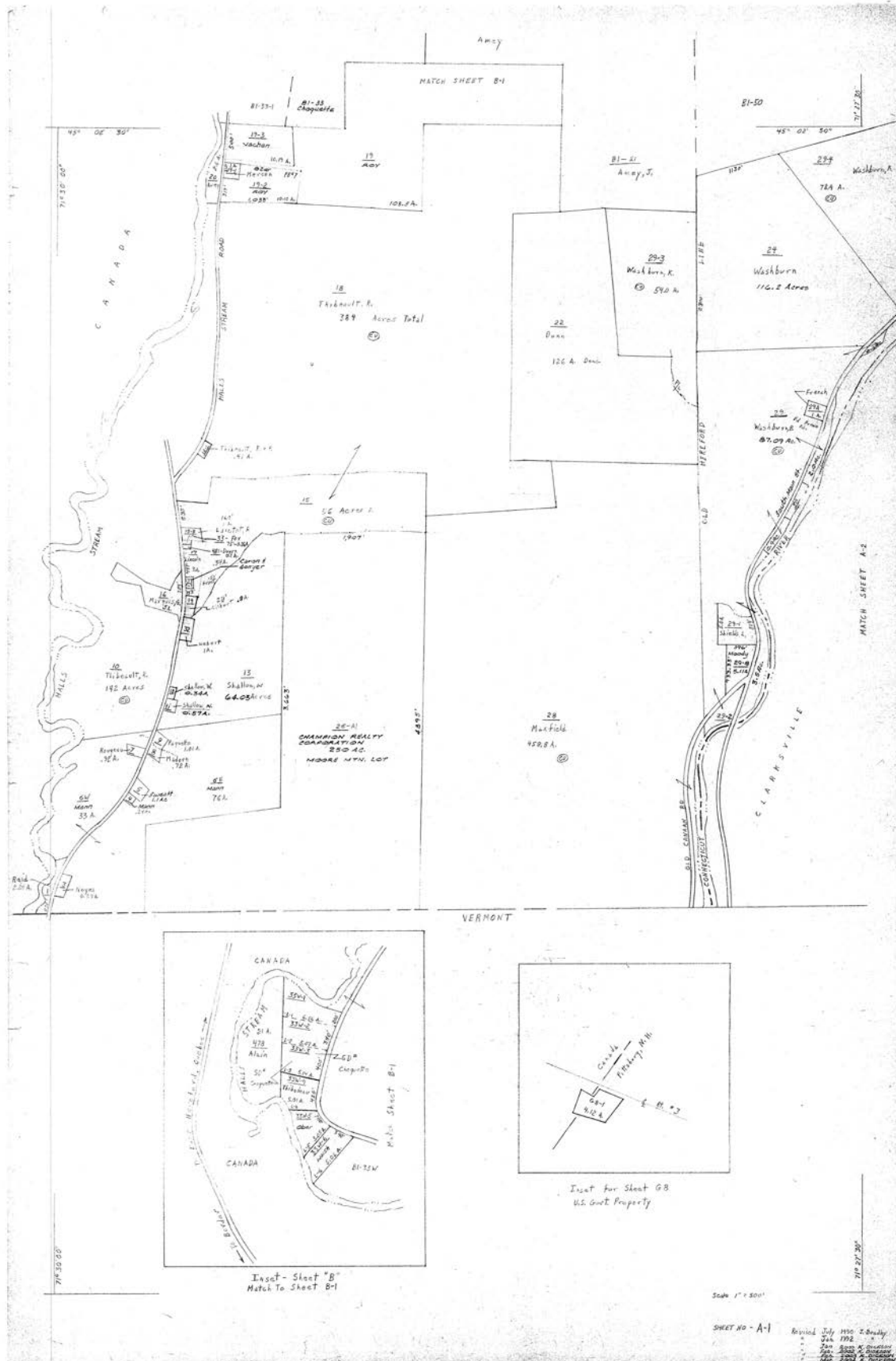
BK 1361 PG 0468

■ Appendix C USGS Locus Maps



■ Appendix D

NH Tax Maps



■ Appendix E Representative Photos



Photo 1. The NPT line will be directionally drilled under the Connecticut River in Pittsburg, NH at the Route 3 Bridge crossing. This view is southwest, and the Route 3 bridge is just left of the photo.



Photo 2. The Southeast quadrant of the CT River/Route 3 crossing, looking southwest, where the directionally-drilled cable will be located within the Protected Shoreland, and a narrow clearing will be needed. The cable will emerge into a trench upslope (in the background).



Photo 3. The Northwest quadrant of the Connecticut River/Route 3 Crossing, looking southwest. The underground cable will be directionally drilled under the river bed, river bank, and this portion of the Protected Shoreland.



Photo 4. The Northwest quadrant of the Connecticut River/Route 3 Crossing, looking northeast towards the intersection of Route 3 and Old Canaan Road. The underground cable will be trenched in this portion of the Protected Shoreland within the Road ROW.



Photo 5. Access Road along Old Canaan Road. Facing Northwest.

■ Appendix F NHB Report and Correspondence



NEW HAMPSHIRE NATURAL HERITAGE BUREAU

DRED - DIVISION OF FORESTS & LANDS

PO Box 1 856 -- 1 72 PEMBROKE ROAD, CONCORD, NH 03302-1 856

(603) 271 -221 4

To: William McCloy, Normandeau Associates, Inc.

From: Melissa Coppola, Environmental Information Specialist

Date: March 30, 2015

Subject: Northern Pass Database Request (NHB15-0611)

This memo is to confirm that Normandeau Associates have coordinated with the NH Natural Heritage Bureau (NHB) regarding information on known locations of rare species and exemplary natural communities for the Northern Pass project.

Due to the size and scope of the project, NHB is not providing a typical NHB review memo for permitting. Instead, this memo summarizes information provided by NHB to date, and notes that specific recommendations should be developed after project plans are close to being finalized:

- Normandeau was provided with digital data for the project under a data-sharing agreement dated 1/16/15 (397 digital NHB records). This is the sixth data-sharing agreement Normandeau has requested for this project: others were provided in 2010, 2011, 2012, 2013, and 2014 for project planning and ecological impact studies. NHB has also reviewed work plans associated with plant and community survey methodology on several occasions, including a meeting on 6/18/10.
- At the request of NHB, Normandeau consultants have conducted rare plant and natural community surveys within the proposed project area. If the project area extends to new locations, or new concerns are identified, additional surveys may be requested.
- As the project progresses and impacts areas are further clarified, Normandeau should set up a meeting with NHB staff to discuss avoiding and minimizing impacts to rare plant species and exemplary natural communities.



New Hampshire Natural Heritage Bureau

DRED - Division of Forests & Lands
172 Pembroke Road, Concord, NH 03301
(603) 271-2214

To: Lee Carbonneau, Normandeau Associates, Inc.
From: Amy Lamb, Ecological Information Specialist
Date: October 5, 2015
Subject: Northern Pass Pre-Application Meeting Summary (NHB15-0611)

On March 30, 2015, Melissa Coppola issued a NH Natural Heritage Bureau (NHB) memo (NHB15-0611) to Normandeau Associates, Inc. that listed Threatened and Endangered species populations that will potentially be impacted by the proposed Northern Pass project. Since that date, NHB and Normandeau have met on several occasions to discuss project impacts, avoidance and minimization measures, route changes, and the remaining survey work to be completed.

This memo summarizes the most recent pre-application meeting, which took place on October 1, 2015. This meeting was held in order to review current rare plant and natural community information, refine avoidance and minimization measures, and determine additional steps to be taken in preparation for permit application submittal at the end of October, 2015.

The meeting resulted in the following determinations regarding data and documentation:

- NHB last provided digital data to Normandeau in February of 2015, and will continue to provide any new data (i.e., new plant surveys within the project area) as they become available.
- Normandeau will provide the final reports on Vegetation and Threatened and Endangered species to NHB upon completion.
- Normandeau will provide NHB a table summarizing the anticipated impacts to all rare plants and exemplary natural communities within the selected corridor. This table will distinguish between the different types of impacts and their resulting (long-term) effects on rare plants and exemplary natural communities.

- Any reports that are filed as publicly available information will not contain specific locations of rare plants; this information will be restricted to an appendix and treated as confidential, and will be removed from publicly available reports.
- The rare plant avoidance and minimization measures that the applicant has proposed were developed in consultation with NHB. NHB will provide additional species-specific avoidance and minimization guidance during the permit review period. This will consist of a table with prioritized actions for each species.
- As any new areas for access, staging, etc. become known, Normandeau (or any subsequent contractor) will conduct rare plant surveys in the areas and provide the results to NHB.
- Normandeau identified Lee Carbonneau as the point person for future Natural Heritage communications, and the NHB point person will be Amy Lamb.

The meeting also resulted in the determination of several measures to avoid and minimize impacts to Natural Heritage resources during construction:

- Meetings will be held among contractors, environmental monitors, and inspectors, prior to contractors working in or near areas where listed plants are located, that will include making contractors aware of sensitive areas and the appropriate best management practices for each area.
- Plans that are provided to contractors will contain a color-coded bar indicating the extent of a sensitive area; no further information will be revealed on such plans.
- Normandeau (or any subsequent contractor) will have "Sensitive Area" signs installed around rare plant populations and exemplary natural communities to alert work crews to their presence.
- It was agreed that it is critical that environmental monitors have the power and authority to stop work immediately if they become aware that any action will violate agreed-upon BMPs.
- NHB will make a recommendation to NHDES regarding qualifications of Environmental Monitors, to be included as a permit condition.

NHB and Normandeau will continue to communicate as the project progresses, in particular as any route changes or new impacts to rare plants become known.

Normandeau Associates has coordinated with the NH Natural Heritage Bureau (NHB) since 2010 to obtain information on known locations of rare species and exemplary natural communities within a half mile of the Northern Pass Project. Normandeau was provided with a digital data set for known locations and, per the request of NHB, Normandeau consultants conducted rare plant and natural community surveys within the proposed project area. No known or surveyed locations of rare species and natural communities were identified within a half mile of the protected shoreland of the Connecticut River in Pittsburg, NH.

■ Appendix G

Certified Mail Notifications and Receipts

VIA CERTIFIED MAIL

LRAC NOTIFICATION

Mr. Edwin Mellet, Chair
1165 Lost Nation Road
Groveton, NH 03582

RE: Shoreland Permit Application # Northern Pass Project, LLC

Dear Mr. Mellett,

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water and/or Designated River in your regulatory area.

Sincerely,

A handwritten signature in blue ink that reads "Lee E. Carbonneau". The signature is fluid and cursive, with a long horizontal stroke at the end.

Lee Carbonneau, PWS, CWS
As Agent for the Applicant
Normandeau Associate, Inc.
25 Nashua Rd
Bedford, NH 03110

Via Certified Mail

October 15, 2015

Town of Pittsburg New Hampshire
1526 Main Street
Pittsburg, NH 03592

Re: Shoreland Permit Application – The Northern Pass Project

Dear Sir or Madam:

Enclosed please find a copy of the Shoreland Permit Application package that will be filed with the NH Department of Environmental Services (DES) and New Hampshire Site Evaluation Committee for the Northern Pass Project. The project includes work in or around rivers, lakes, streams ponds, etc. Under state law, it is a requirement to provide the municipalities and Local River Advisory Committees having jurisdiction over these waterbodies with a copy of the shoreland application by Certified mail, for review and comment. Please find attached a copy of the application, which proposes work within the protected shoreland of a public water or Designated River in your regulatory area.

Sincerely,

A handwritten signature in purple ink that reads "Lee E. Carbonneau". The signature is fluid and cursive, with the first name "Lee" and last name "Carbonneau" clearly legible.

Lee Carbonneau
Normandeau Associates, Inc.
As agent for Northern Pass Transmission, LLC.