January 25, 2017

Ms. Darlene Forst
Shoreland Program
NH Department of Environmental Services
PO Box 95
Concord, NH 03302


Dear Ms. Forst:

On behalf of Northern Pass Transmission LLC, Normandeau Associates, Inc. is submitting a request to modify the impact area associated with NHDES Shoreland Permit Application 2015-02850 for the Connecticut River in Pittsburg. Transition Station #1 on the west side of the Connecticut River on Old Canaan Road overlaps slightly with the protected shoreland. During review by the Alteration of Terrain (AOT) program, some changes were made to the stormwater control system of Transition Station #1 to address agency comments. The proposed swale that runs parallel to the Old Canaan Road at the front of the property was extended and serves as a treatment swale. In order to remove the required amount of pollutants, the dimensions of this swale were extended to increase the residence time of water in the swale. The swale extension has also required an increase in clearing along the front of the property.

As a result of this design modification, there will be a slight increase in the temporary and permanent impacts within the protected shoreland, a small increase in clearing area, and a decrease in the impervious area due to the removal of riprap (impervious lining) from other swales in the property. The attached plan sheet includes the new impact quantities associated with this location. The design changes are most easily viewed on Plan C-104 and Detail Drawing C-506 in the AOT plan set.

The new total impact areas associated with this design modification (and change from original application) are summarized in the table below.
<table>
<thead>
<tr>
<th>Pittsburg Connecticut River Summary</th>
<th>0’-50” Waterfront Buffer</th>
<th>50’-150’ Natural Woodland Buffer</th>
<th>150’-250’ Shoreland Buffer</th>
<th>Total Impacts at Shoreland</th>
<th>Change from Original Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary Impacts</td>
<td>0 sq. ft.</td>
<td>155 sq. ft.</td>
<td>6,690 sq. ft.</td>
<td>6,845 sq. ft.</td>
<td>128 sq. ft.</td>
</tr>
<tr>
<td>Permanent Impacts</td>
<td>0 sq. ft.</td>
<td>1,745 sq. ft.</td>
<td>12,450 sq. ft.</td>
<td>14,195 sq. ft.</td>
<td>341 sq. ft.</td>
</tr>
<tr>
<td>Pre-Construction Impervious Surface Area</td>
<td>2,268 sq. ft.</td>
<td>14,157 sq. ft.</td>
<td>15,521 sq. ft.</td>
<td>31,945 sq. ft.</td>
<td>0 sq. ft.</td>
</tr>
<tr>
<td>Post-Construction Impervious Surface Area</td>
<td>2,268 sq. ft.</td>
<td>14,716 sq. ft.</td>
<td>18,805 sq. ft.</td>
<td>35,789 sq. ft.</td>
<td>(4,180) sq. ft.</td>
</tr>
</tbody>
</table>

We appreciate your review of this requested change to the Northern Pass Shoreland Application for the Connecticut River in Pittsburg. Please feel free to contact me if you have any questions or require additional information.

Sincerely,

Lee Carbonneau
As Agent for Northern Pass Transmission, LLC.
Senior Principal Scientist
Normandeau Associates, Inc.

Attach.
Cc. Clark Freise, Assistant Commissioner, NHDES (w/o enclosures)
Collis Adams, NHDES (w/o enclosures)
Craig Rennie, NHDES
Ridge Mauck, NHDES
Gregg Comstock, NHDES
Pamela G. Monroe, SEC Administrator
Kevin F. McCune, Eversource (w/o enclosures)
The diagram represents the evaluation of the NHDES Shoreland Permit Application Plans. The map includes several key features:

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

- **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
  - USGS 10' Contour
  - USGS 2' Contour

The map includes various scaled measurements and data points, such as:

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

The table below summarizes the SHORELAND PERMIT APPLICATION PLANS:

<table>
<thead>
<tr>
<th>Area</th>
<th>Extent of Clearing (sq. ft.)</th>
<th>Construction Impacts (sq. ft.)</th>
<th>Impervious Surface (sq. ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Waterfront Buffer (50')</strong></td>
<td>Clearing in Upland</td>
<td>Temporary</td>
<td>Permanent</td>
</tr>
<tr>
<td>Waterfront Buffer (50')</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Natural Woodland Buffer (150')</td>
<td>1,082</td>
<td>155</td>
<td>1,745</td>
</tr>
<tr>
<td>Protected Shoreland (250')</td>
<td>12,674</td>
<td>4,078</td>
<td>12,450</td>
</tr>
<tr>
<td>Total</td>
<td>14,756</td>
<td>4,234</td>
<td>14,195</td>
</tr>
</tbody>
</table>

The map indicates that the project area is within the Pittsburg and Clarksville regions, specifically along the Connecticut River. The map provides a detailed view of the land use, wetlands, and proposed infrastructure to ensure compliance with the NHDES Shoreland Permit Application Plans.