


### Wood Addition Projects



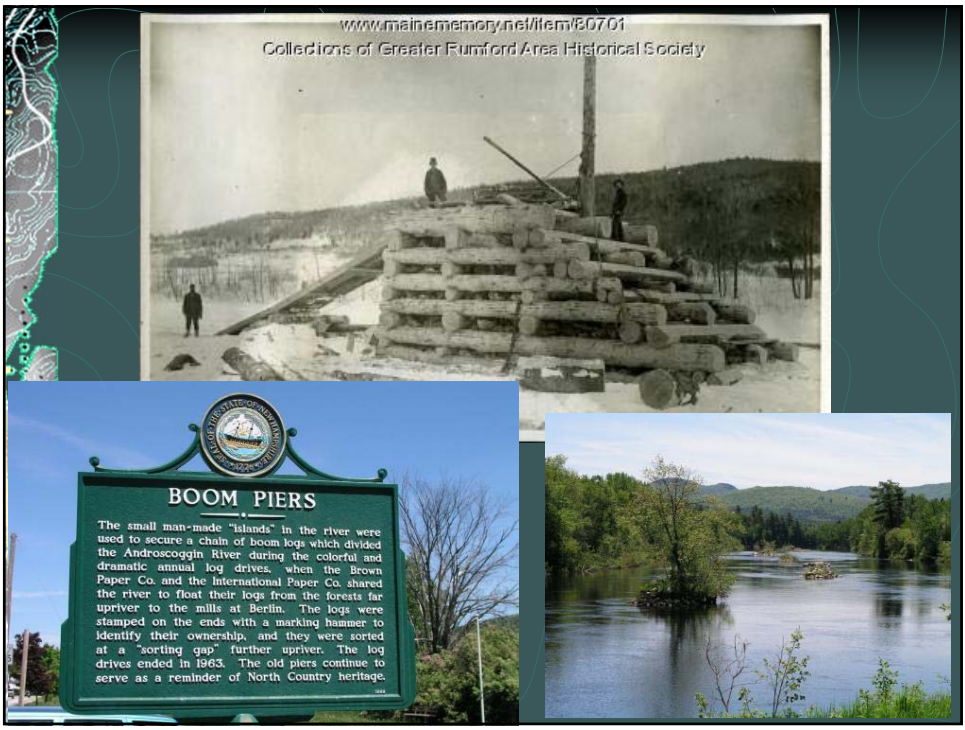
Photo by John Magee

This photograph shows a stream flowing through a lush green forest. Large, moss-covered boulders are scattered in the water, and several fallen logs are partially submerged, creating a natural structure that likely serves as habitat for aquatic life. The water is clear and reflects the surrounding trees.

History of extensive logging at the turn of the century and river log drives have contributed to a reduction in pool habitats



This photograph shows a large, organized stack of cut logs piled up on a riverbank. The logs are neatly stacked in rows, extending from the foreground into the background. The surrounding area appears to be a cleared or recently logged site, with some sparse vegetation and a dirt path leading to the logs.





West Branch of the Upper Ammonoosuc River Fish Habitat Restoration Project (2004)

Legend:

- Root Wad
- Cover Top
- Boulder
- Island
- Access & Tree Harvest Sites

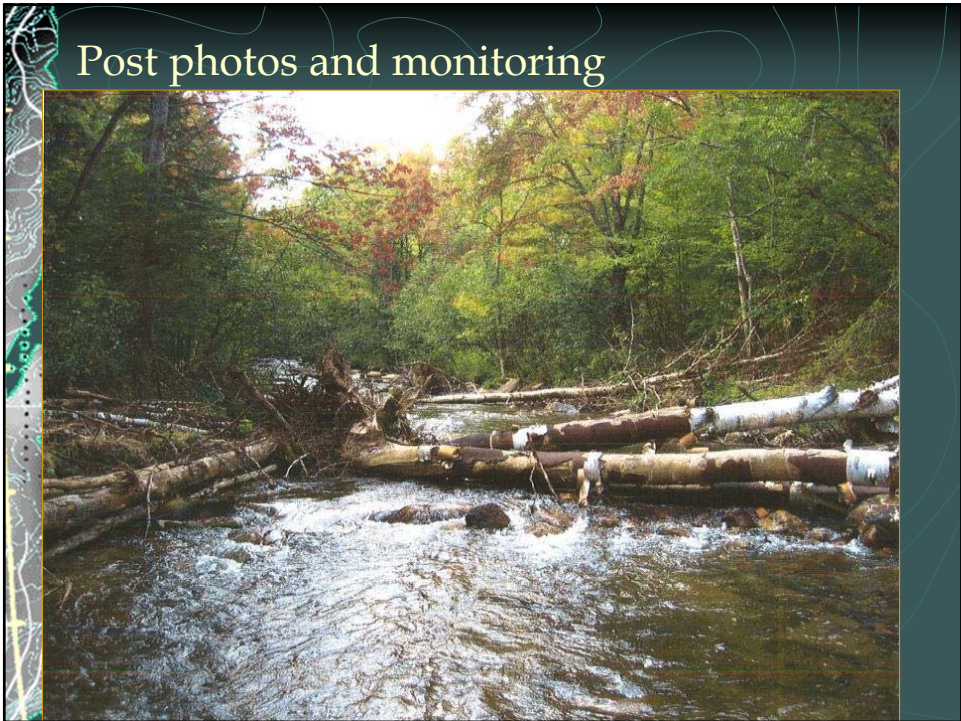
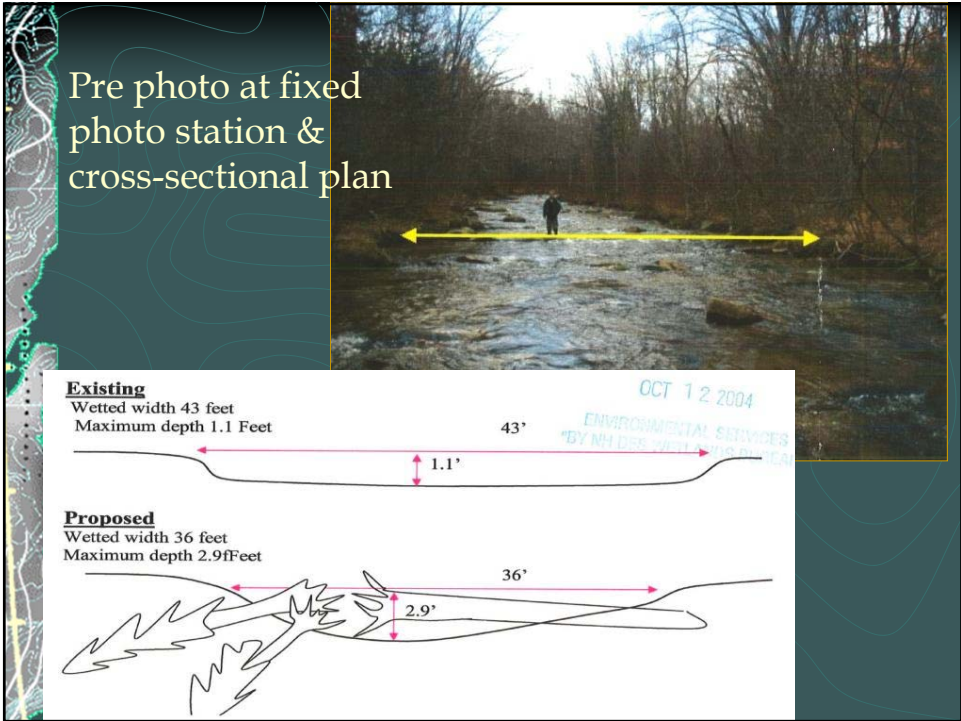
Example 1, Example 2, Example 3, Example 4

Forest Road 13, Forest Road 15

RECEIVED  
DEC 01 2004  
ENVIRONMENTAL SERVICE  
WETLANDS BUREAU

### Example Plan & Need

- USFS found that the West Branch had less large woody material per mile than undisturbed streams in the forest and had classified it as low productivity for wild brook trout with less than 5% pool areas
- The WMNF Forest Plan recommends that brook trout streams provide at least 20% pool areas to increase production and biomass

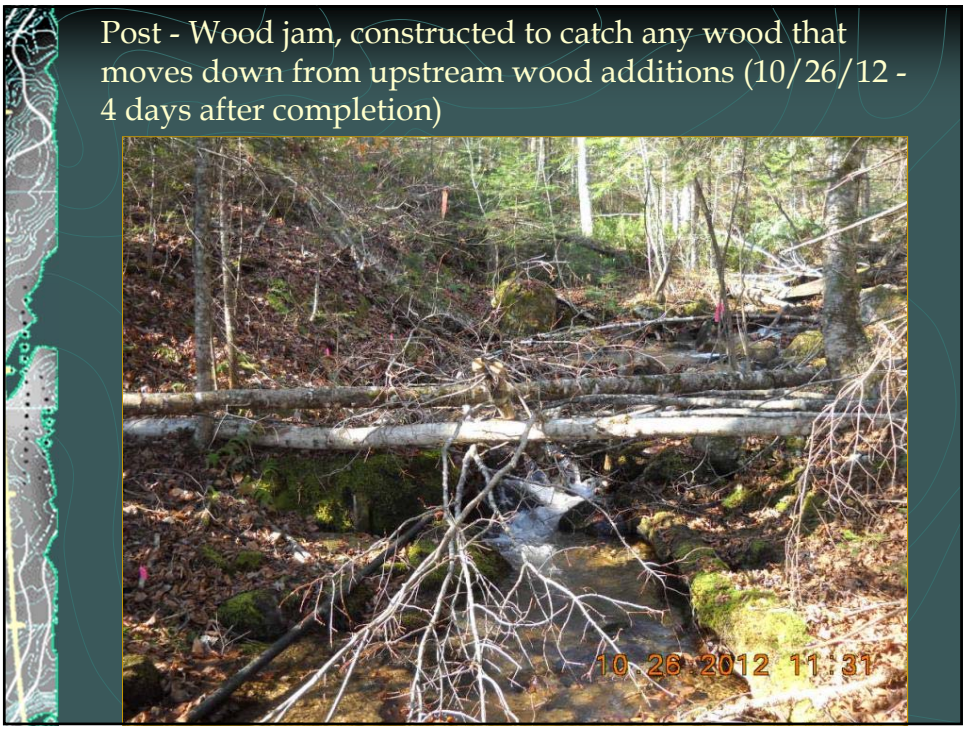
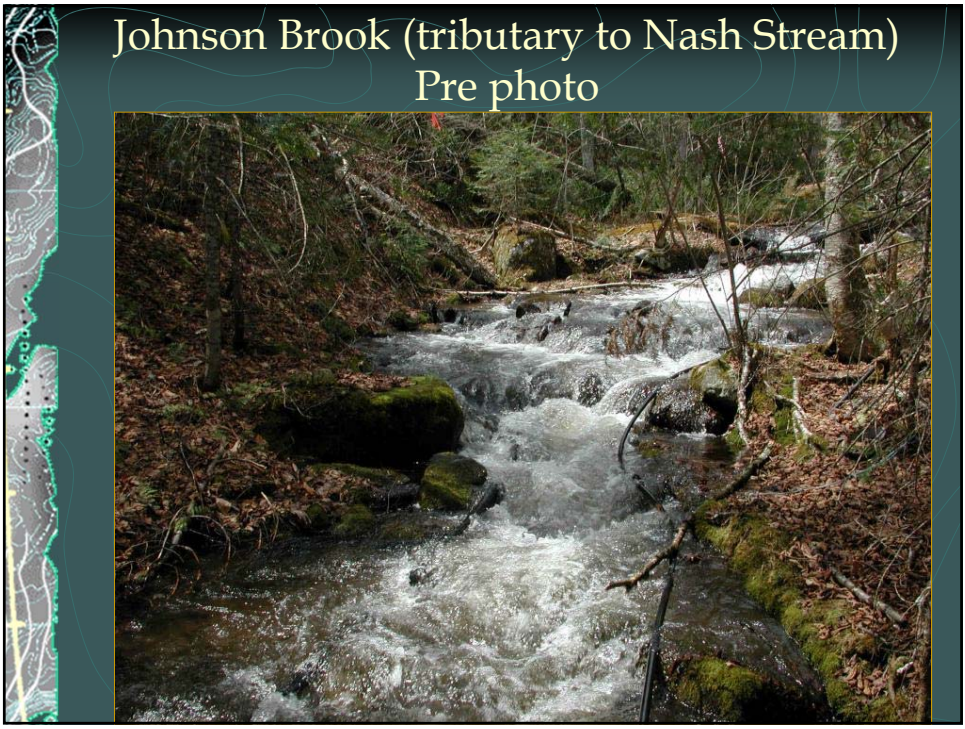


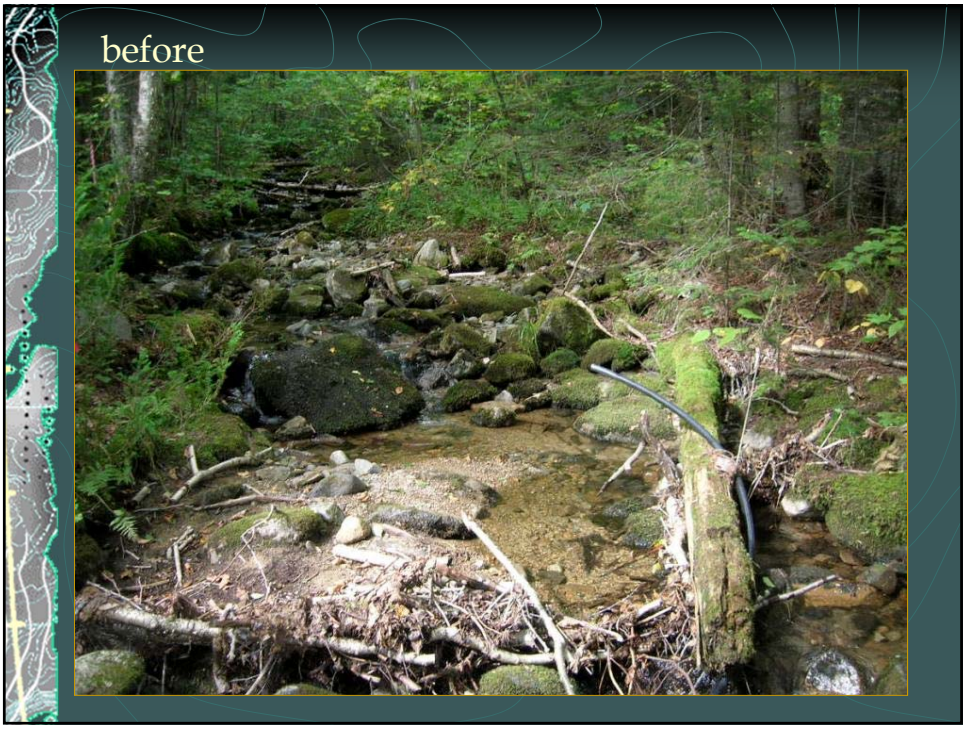




Nash Stream State Forest  
In-Stream Wood Addition Projects









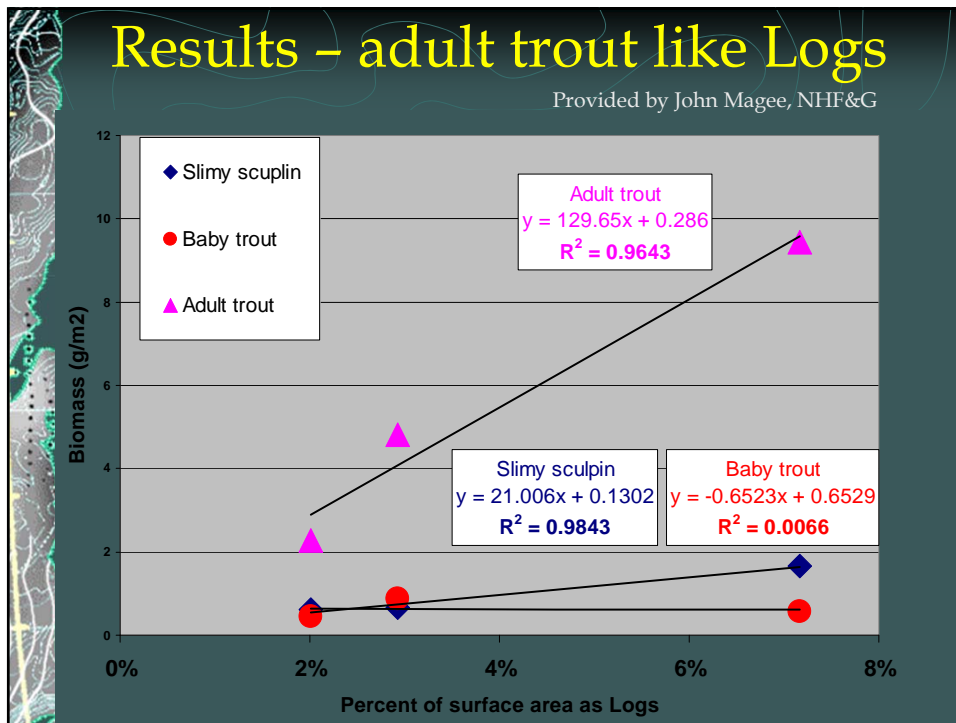
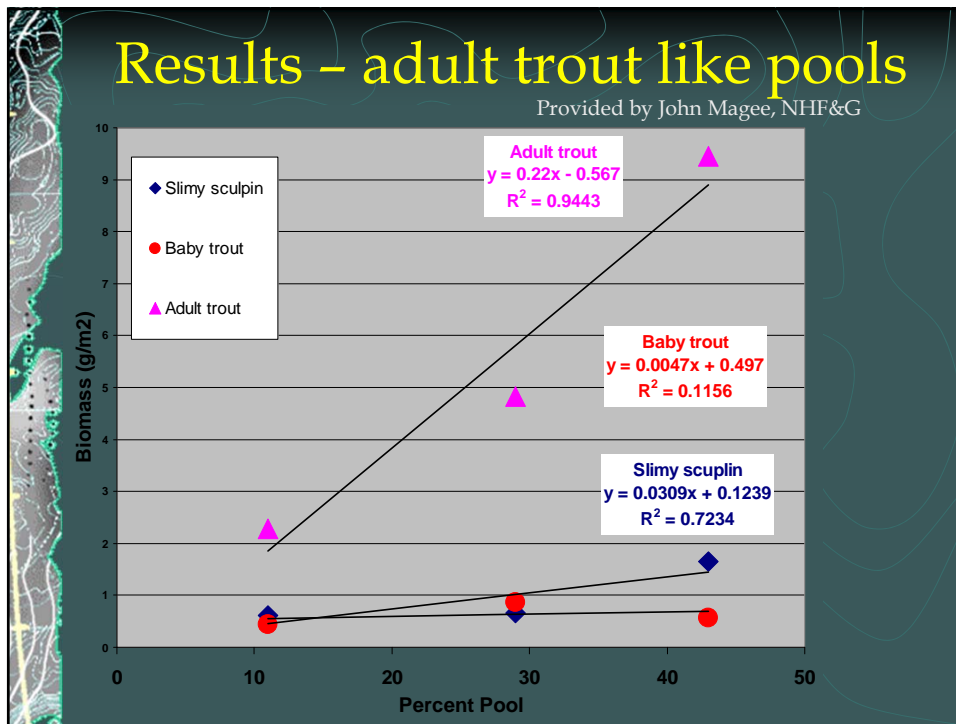
addition log jam photo (14 days after completion)



before - existing wood jam







## Why we like these enhancement projects...



The Eastern Brook Trout Joint Venture (EBTJV) is a unique partnership between state and federal agencies, regional and local governments, businesses, conservation organizations, academia, scientific societies, and private citizens working toward protecting, restoring and enhancing brook trout populations and their habitats across their native range.



## How do we classify wood addition projects?

### NHDES Administrative Rules

#### Env-Wt 303.04(t) Minimum Impact Project

Restoration of altered or degraded wetlands provided the project:

- (1) Receives financial support and direct supervision of a New Hampshire state agency, the US EPA, the US ACOE, the US NRCS, or the US FWS;
- (2) Shall not be used to perform restoration in cases where the applicant is subject to a removal or restoration order;
- (3) Is not located in or adjacent to prime wetlands; and
- (4) Does not meet the criteria of Env-Wt 303.02(k) - NHB hit.

**WETLANDS PERMIT APPLICATION**  
 Water Division/ Wetlands Bureau  
 Land Resources Management

Check the status of your application: [www.nhdes.nh.gov/2018/09/](http://www.nhdes.nh.gov/2018/09/)

RSA Rule: RSA 482-A:1-2 Enc 9(100-892)

1. REVIEW TIME: Indicate your Review Time below. To determine review time, refer to **Attachment Document A for this review**.  
 Standard Review (Minimum, Minor or Major Impact)  Expedited Review (Minimum Impact only)

2. MITIGATION REQUIREMENT:  
 Mitigation is required. Pre-Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the **Criteria of Mitigation Is Required Frequently Asked Question**.  
 Mitigation Pre-application Meeting Date: Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_  
 NA - Mitigation is not required

3. PROJECT LOCATION:  
 Separate wetland permit applications must be submitted for each municipality that wetland impacts occur within.  
 ADDRESS: \_\_\_\_\_ TOWN/CITY: \_\_\_\_\_  
 TAX MAP: \_\_\_\_\_ BLOCK: \_\_\_\_\_ LOT: \_\_\_\_\_ UNIT: \_\_\_\_\_  
 USGS TOPO MAP WATERBODY NAME: \_\_\_\_\_ STREAM WATERBODIES:  NA  NA  
 LOCATION COORDINATES (if known): \_\_\_\_\_ UTM \_\_\_\_\_ State Plane \_\_\_\_\_

4. 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 Attachments" in the space provided below.

5. SHORELINE FRONTAGE:  
 NA This does not have shoreline frontage. SHORELINE FRONTAGE: \_\_\_\_\_  
 Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straightline drawn between the property lines, both of which are measured at the normal high water line.

6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:  
 Please indicate if any of the following permit applications are required and, if required, the status of the application.  
 To determine if other Land Resources Management Permits are required, refer to the **Local Resource Management Plan Page**.

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 482-A:17	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Stream Channel per RSA 482-A:2	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 482-A	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 482-B	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED

7. 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 \_\_\_\_\_  
 b. Designate/Sign the project in 1/4 miles of \_\_\_\_\_ and \_\_\_\_\_  
 Check a copy of the application was sent to the **Local Resource Management Advisory Committee** Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_  
 NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095  
[nhdes@nh.gov](mailto:nhdes@nh.gov) or (603) 271-2147  
[www.nhdes.nh.gov](http://www.nhdes.nh.gov)

8. APPLICANT INFORMATION (Designated permit holder)  
 LAST NAME, FIRST NAME, MI: \_\_\_\_\_ MAILING ADDRESS: \_\_\_\_\_  
 TRUST / COMPANY NAME: \_\_\_\_\_ TOWN/CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
 EMAIL or FAX: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 ELECTRONIC COMMUNICATION: By initiating new \_\_\_\_\_, I hereby authorize NHDES to communicate all matters relative to this application electronically.

9. PROPERTY OWNER INFORMATION (if different than applicant)  
 LAST NAME, FIRST NAME, MI: \_\_\_\_\_ MAILING ADDRESS: \_\_\_\_\_  
 TRUST / COMPANY NAME: \_\_\_\_\_ TOWN/CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
 EMAIL or FAX: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 ELECTRONIC COMMUNICATION: By initiating new \_\_\_\_\_, I hereby authorize NHDES to communicate all matters relative to this application electronically.

10. AUTHORIZED AGENT INFORMATION  
 LAST NAME, FIRST NAME, MI: \_\_\_\_\_ COMPANY NAME: \_\_\_\_\_  
 MAILING ADDRESS: \_\_\_\_\_ TOWN/CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
 EMAIL or FAX: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 ELECTRONIC COMMUNICATION: By initiating new \_\_\_\_\_, I hereby authorize NHDES to communicate all matters relative to this application electronically.

11. PROPERTY OWNER SIGNATURE:  
 See the Instructions & Required Attachments document for clarification of the below statements.  
 By signing this 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, notified the Instructions and Required Attachment document.  
 3. All abutters have been identified in accordance with RSA 482-A:3 and Env-WI 100-900.  
 4. I have read and provided the required information outlined in Env-WI 302.04 for the applicable project type.  
 5. I have read and understand Env-WI 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-WI 101.47.  
 7. I have submitted a Request for Project Review (RPR) Form ([www.nhdes.nh.gov/2018/09/](http://www.nhdes.nh.gov/2018/09/)) to the NH State Historic Preservation Office (SHPO) at the NH Division of Historical Resources to identify the presence of historical/archaeological resources while coordinating with the local federal agency for NHPA-100 compliance.  
 8. I authorize NHDES and the municipal conservation commissions 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 mis-represented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.  
 11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.  
 12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not forward returned mail.  
 Property Owner Signature: \_\_\_\_\_ Print name legibly: \_\_\_\_\_ Date: \_\_\_\_\_  
 NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095  
[nhdes@nh.gov](mailto:nhdes@nh.gov) or (603) 271-2147  
[www.nhdes.nh.gov](http://www.nhdes.nh.gov)

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NHDES-W-06-012

**MUNICIPAL SIGNATURES**

**12. CONSERVATION COMMISSION SIGNATURE**

The signature below certifies that the municipal conservation commission has reviewed this application, and:  
 1. Waives its right to intervene per RSA 482-A:11;  
 2. Believes that the application and submitted plans accurately represent the proposed project, and  
 3. Has no objection to permitting the proposed work.

\_\_\_\_\_  
 Print name legibly: \_\_\_\_\_ Date: \_\_\_\_\_

**DIRECTIONS FOR CONSERVATION COMMISSION**

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

**13. 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  
 1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.  
 2. IMMEDIATELY sign the original application form and four copies in the signature space provided above.  
 3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.  
 4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board, and  
 5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

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

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

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NHDES 19-06-012

**14. IMPACT AREA:**  
For each jurisdictional area that will be impacted, provide square feet and, if applicable, linear feet of impact  
**Permanent:** impacts that will remain after the project is complete.  
**Temporary:** impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	ATF	TEMPORARY Sq. Ft. / Lin. Ft.	ATF
Forested wetland		<input type="checkbox"/>		<input type="checkbox"/>
Scrub-shrub wetland		<input type="checkbox"/>		<input type="checkbox"/>
Emergent wetland		<input type="checkbox"/>		<input type="checkbox"/>
Wet meadow		<input type="checkbox"/>		<input type="checkbox"/>
Intermittent stream		<input type="checkbox"/>		<input type="checkbox"/>
Perennial Stream / River		<input type="checkbox"/>		<input type="checkbox"/>
Lake / Pond		<input type="checkbox"/>		<input type="checkbox"/>
Bank - Intermittent stream		<input type="checkbox"/>		<input type="checkbox"/>
Bank - Perennial stream / River		<input type="checkbox"/>		<input type="checkbox"/>
Bank - Lake / Pond		<input type="checkbox"/>		<input type="checkbox"/>
Tidal water		<input type="checkbox"/>		<input type="checkbox"/>
Salt marsh		<input type="checkbox"/>		<input type="checkbox"/>
Sand dune		<input type="checkbox"/>		<input type="checkbox"/>
Prime wetland		<input type="checkbox"/>		<input type="checkbox"/>
Prime wetland buffer		<input type="checkbox"/>		<input type="checkbox"/>
Undeveloped Tidal Buffer Zone (TBZ)		<input type="checkbox"/>		<input type="checkbox"/>
Previously-developed upland in TBZ		<input type="checkbox"/>		<input type="checkbox"/>
Docking - Lake / Pond		<input type="checkbox"/>		<input type="checkbox"/>
Docking - River		<input type="checkbox"/>		<input type="checkbox"/>
Docking - Tidal Water		<input type="checkbox"/>		<input type="checkbox"/>
Vernal Pool		<input type="checkbox"/>		<input type="checkbox"/>
<b>TOTAL</b>				


**15. APPLICATION FEE:** See the Instructions & Required Attachments document for further instruction.  
 Minimum Impact Fee: Flat fee of \$25,000.  
 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 =		\$ _____
<b>Total =</b>		\$ _____

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


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

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### WETLANDS PERMIT APPLICATION REQUIRED INFORMATION

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




- Application Fee
- Project description
- Required Signatures (applicant, town clerk, con com)
- Statement of Need, Minimization & Avoidance
- NHB Review
- NH PGP Requirements (Appendix B)
- Designated River Check
- USGS Map
- Photographs
- Tax Map with abutter notifications
- Plans




## WETLANDS PERMIT APPLICATION REQUIRED INFORMATION


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



### NH PGP Requirements (Appendix B)

<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>US Army Corps of Engineers</b> New England District</p> <p style="text-align: center;">New Hampshire General Permits (GP) Appendix B - Corps Secondary Impacts Checklist (for inland wetland/waterway fill projects in New Hampshire)</p> <p>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 GC-5, regarding single and complete projects. 4. Contact the Corps at (978) 318-8832 with any questions.</p> </div> <div style="width: 5%;"></div> <div style="width: 45%;"> <p><b>1. Impaired Waters</b></p> <p>1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See <a href="http://des.nh.gov/organization/divisions/water/wab/section401/impaired_waters.htm">http://des.nh.gov/organization/divisions/water/wab/section401/impaired_waters.htm</a> to determine if there is an impaired water in the vicinity of your work area.*</p> <p>1.2 Are there streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?</p> <p>2.1 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a>. The book <i>Natural Community Systems of New Hampshire</i> also contains specific information about the natural communities found in NH.</p> <p>2.2 Are there wetland crossings as proposed, are they adequately designed to maintain hydrology, sediment transport &amp; wildlife passage?</p> <p>2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport &amp; wildlife passage?</p> <p>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.)</p> <p>2.5 The overall project site is more than 40 acres?</p> <p>2.6 What is the area of the previously filled wetlands?</p> <p>2.7 What is the area of the proposed fill in wetlands?</p> <p>2.8 What is the % of previously and proposed fill in wetlands to the overall project site?</p> <p><b>3. Wildlife</b></p> <p>3.1 Has the NHB &amp; USFWS 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 an NHB ID number &amp; a USFWS IPAC determination.) NHB DataCheck Tool: <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a>; USFWS IPAC website: <a href="https://ecos.fws.gov/ipac/location/index">https://ecos.fws.gov/ipac/location/index</a></p> </div> </div>				
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 Wetlands Habitat by Ecological Condition.") Map information can be found at: • PDF: <a href="http://www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm">www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm</a> • Data Mapper: <a href="http://www.grant.nhb.edu">www.grant.nhb.edu</a> • GIS: <a href="http://www.grant.nhb.edu/data/download/freedata/category/dashbycategory.html">www.grant.nhb.edu/data/download/freedata/category/dashbycategory.html</a>				
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)?				
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?				
3.5 Are stream crossings designed in accordance with the GC 21?				
<b>4. Flooding Floodplain Values</b>			Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?				
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?				
<b>5. Historic/Archaeological Resources</b>				
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form ( <a href="http://www.nh.gov/nhbda/review">www.nh.gov/nhbda/review</a> ) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 (GC 8(d)) of the GP document**				
*Although this checklist utilizes state information, its submission to the Corps is a Federal requirement				
** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.				

## Wetland Permit received - now what?




The State of New Hampshire  
**Department of Environmental Services**

Clark B. Freise, Assistant Commissioner



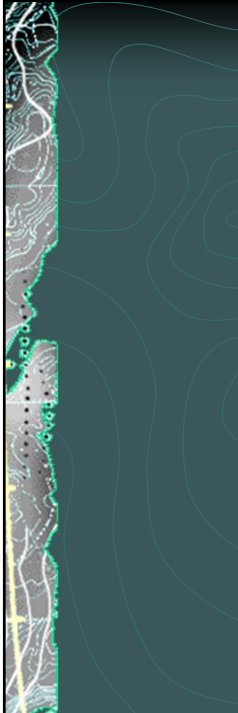
WETLANDS AND NON-SITE SPECIFIC PERMIT 2017-01332


<p><b>Permittee:</b> ROBERT E JOLLEY 33 COLMAN RD TOPSFIELD, MA 01088</p> <p><b>Project Location:</b> 394 GREAT HILL ROAD, TAWMORTH TAX MAP/LOT NO: 411 / 41</p> <p><b>Waterbody:</b> UNNAMED PERENNIAL STREAM</p> <p><b>APPROVAL DATE:</b> JUNE 27, 2017    <b>EXPIRATION DATE:</b> JUNE 27, 2022</p> <p>Based upon review of the above referenced application, in accordance with RSA 482-A and RSA 485-A:17, a Wetlands Permit and Non-Site Specific Permit was issued. This permit shall not be considered valid unless signed as specified below.</p> <p><b>PERMIT DESCRIPTION:</b> Improve aquatic habitat for native brook trout by filling approximately 9,500 square feet within the bed and banks of an unnamed perennial stream by incorporating trees/wood into the brook by hand (no equipment). Wood addition treatments will occur along 1,200 linear feet of the unnamed stream.</p> <p><b>THIS APPROVAL IS SUBJECT TO THE FOLLOWING PROJECT SPECIFIC CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>All work shall be in accordance with the approved plans by Tin Mountain Conservation Center, as received by DES on May 11, 2017 and June 16, 2017.</li> <li>Not less than 5 business days prior to starting work authorized by this permit, the permittee shall notify the DES Wetlands Program and the local conservation commission in writing of the date on which work under this permit is expected to start.</li> <li>Any further alteration of areas on this property that are within the jurisdiction of the DES Wetlands Bureau will require a new application and further permitting by the Bureau.</li> <li>No person undertaking any activity shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards in RSA 485-A and Env-Wo 1700.</li> <li>Work shall be done during low flow conditions.</li> <li>Trees that are stabilizing slopes and banks shall be left intact.</li> <li>A post-construction report with photographs documenting the status of the completed project shall be submitted to the Wetlands Bureau within 60 days of the completion of each phase of wood additions.</li> </ol> <p><b>GENERAL CONDITIONS THAT APPLY TO ALL NHDES WETLANDS PERMITS:</b></p> <ol style="list-style-type: none"> <li>A copy of this permit shall be posted on site during construction in a prominent location visible to inspecting personnel.</li> <li>This permit does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others.</li> <li>The Wetlands Bureau shall be notified upon completion of work.</li> <li>This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits, and/or consult with other agencies as may be required (including US EPA, US Army Corps of Engineers, NH Department of Transportation, NH Division of Historical Resources (NH Department of Cultural Resources), NHDES-Alteration of Terrain, etc.).</li> </ol>	<p>File Number: 2017-01332 June 27, 2017 Page 2 of 2</p> <ol style="list-style-type: none"> <li>Transfer of this permit to a new owner shall require notification to and approval by NHDES.</li> <li>This project has been screened for potential impacts to known occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or have only received cursory inventories, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species.</li> <li>Review enclosed sheet for status of the US Army Corps of Engineers' federal wetlands permit.</li> </ol> <p><b>APPROVED:</b>  Craig Rehnie NHDES Wetlands Bureau</p> <hr/> <p><b>BY SIGNING BELOW I HEREBY CERTIFY THAT I HAVE FULLY READ THIS PERMIT AND AGREE TO ABIDE BY ALL PERMIT CONDITIONS.</b></p> <p>OWNER'S SIGNATURE (required) _____ CONTRACTOR'S SIGNATURE (required) _____</p>
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www.des.nh.gov  
29 Hazen Drive • P.O. Box 93 • Concord, NH 03302-0093  
(603) 271-5503 • TDD Access: Relay NH 1-800-735-2644

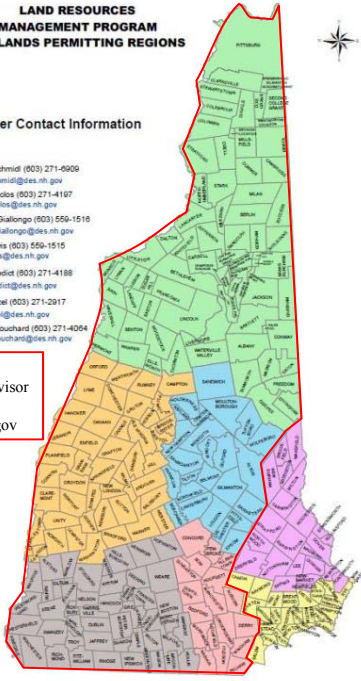
## Standard Permit Conditions

1. All work shall be in accordance with the approved plans by Tin Mountain Conservation Center, as received by DES on May 16, 2017 and June 16, 2017.
2. Not less than 5 business days prior to starting work authorized by this permit, the permittee shall notify the DES Wetlands Program and the local conservation commission in writing of the date on which work under this permit is expected to start.
3. Any further alteration of areas on this property that are within the jurisdiction of the DES Wetlands Bureau will require a new application and further permitting by the Bureau.
4. No person undertaking any activity shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards in RSA 485-A and Env-Wq 1700.
5. Work shall be done during low flow conditions.
6. Trees that are stabilizing slopes and banks shall be left intact.
7. A post-construction report with photographs documenting the status of the completed project shall be submitted to the Wetlands Bureau within 60 days of the completion of each phase of wood additions.





**LAND RESOURCES  
MANAGEMENT PROGRAM  
WETLANDS PERMITTING REGIONS**



**Regional Permit Reviewer Contact Information**

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Revision date 5/2/2016



# Resources

**USDA Natural Resources Conservation Service**  
**New Hampshire**  
 United States Department of Agriculture

**Guidelines for Wood Additions to First and Second Order Streams**

**Introduction**

A lack of woody biomass in Northeast streams is due primarily to the lack of old trees in riparian areas which die and fall into streams naturally. Slash laws prohibit loggers from leaving woody biomass in streams or on floodplains within 50 feet of perennial streams. Additionally, culverts and other infrastructure collect wood and are cleaned-out seasonally further reducing the amount of wood in streams and on floodplains. Woody biomass in streams creates several key ecological feedbacks, which are important for the

Above: a section of stream which lacks woody material

**pennsylvania**  
 DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

**Improving Stream Habitat on State Forest Land by Adding Large Woody Debris**

**Introduction**

Many of the streams on state forest land lack the large woody debris (LWD) component normally found within mature, forested landscapes due to previous timber harvesting practices. This woody debris can be a beneficial habitat component for the aquatic community, including brook trout. In fact, woody debris has been correlated with brook trout abundance (Fiebbe and Dolloff 1995, Neumann and Wildman 2002). Large woody debris can increase habitat diversity in a homogenous stream reach by creating scour and plunge pools, providing escape cover for trout, and providing substrate and food for aquatic invertebrates on which the trout feed. Large woody debris will naturally fall into streams, given time for the trees in riparian buffers to mature, die or blow-over, and eventually fall into the stream. ~~Large woody debris can be added to streams where habitat diversity is~~ stream channel. This document provides an option for improving

are lacking, and habitat diversity is low. A Pennsylvania Fish and Game (Lutz 2007) should be done to determine if adding woody debris (WOD) most from woody debris have low assessment scores in Category 1 (Pool Variability), and Category 3 (Pool Variability). These streams should also have excessive erosion issues. Often, rocky substrate may provide order streams. Adding woody debris won't harm high gradient streams as adding woody debris to streams lacking habitat diversity.

be done with caution. Debris should not be added in close proximity to, or developed areas that are not on state forest land. Woody debris for anglers resulting in more challenging fishing. Therefore, selecting sites for woody debris. Adding woody debris may also result in water courses adjust to the new structure. This technique is not a PFBC Area Fisheries Manager or Habitat Manager must be in habitat improvement projects. All instream alterations on state forest land, which also serves as a waiver. A DEP General Permit (GP-1) is required and the GP-1 requires pre-approval from the PFBC Division of Fisheries and Wildlife to provide assistance with this process.

# Questions?

