Town of Chatham Road Stream Crossing Planning

Green Brook Culvert Removal Project

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Trout Unlimited
Our Conservation Approach

Protect
Reconnect
Restore
Sustain

TU believes that to achieve our conservation goals true partnerships between landowners, agencies, non-profits, municipalities and other stakeholders is essential.
Reconnecting Habitat For Community and Ecosystem Resiliency

Communities need safe and resilient road infrastructure.

Trout and other aquatic organisms need connected stream to thrive and to complete their life cycle.

Focus on Road Stream Crossing Management and Improvement meets both goals!
Culvert Replacement Projects in New York
Focusing on Local Infrastructure

Private Ownership
8% of Total Crossings

County Ownership
13% of Total Crossings

State Ownership
18% of Total Crossings

Town Ownership
61% of Total Crossings
Green Brook Culvert Removal Project

Project Partners

Town of Chatham
NYS DEC Region 4
NYS Hudson River Estuary Program
Cornell Cooperative Extension
Greene and Columbia County
Housatonic Valley Assoc
Woidt Engineering
Mitchison and Sons
Private Landowners
Green Brook Culvert Removal Project

- Initial Meeting - Late winter 2015
- Conceptual Design Development
- Fundraising – Secured WQIP Funding!
- Final Design and Town Approval
- Permitting
- Bid Process and Contractor Hire
- Project Construction – August 2018
- Revegetation – October 2018
- Monitoring
Green Brook Culvert Removal Project

Before

After
## Working with Local Towns

<table>
<thead>
<tr>
<th>The Town Reality</th>
<th>How we can Help</th>
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<tbody>
<tr>
<td>Lots of Road Miles</td>
<td>Collect and Digest the Data</td>
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<tr>
<td>Lots of Road Stream Crossings</td>
<td>Help Identify Priorities</td>
</tr>
<tr>
<td>Not a Lot of Budget for Replacements</td>
<td>Develop Road Stream Crossing Plans to help for Future Planning</td>
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<tr>
<td>Every Town is different!</td>
<td>Work Closely with the Towns to determine how we can help</td>
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<td></td>
<td>Design Structures that are suitable to Town Budgets and Resources</td>
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<td>Find Money to Help Implement</td>
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*GET THE BEST PROJECTS DONE ON THE GROUND TO ACHIEVE MANY OBJECTIVES*
Road Stream Crossing Management Planning

- Survey
- Model
- Prioritize
- Implement
<table>
<thead>
<tr>
<th>Survey Road Stream Crossings</th>
<th>Model Flood Capacity</th>
<th>Prioritize Structures and Determine Highest Priorities</th>
<th>Planning Deliverables</th>
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<tbody>
<tr>
<td>Hudson River Estuary Program (HREP)</td>
<td>Cornell Water Resources Institute</td>
<td>Project Funding</td>
<td>Highest priority crossings designed with cost estimates</td>
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<tr>
<td>Housatonic Valley Association</td>
<td>Model Aquatic Passage</td>
<td>NYS DEC – Water Quality Improvement Program</td>
<td>Road Stream Crossing Management Plan</td>
</tr>
<tr>
<td>Cornell Cooperative Extension of Greene/Columbia County</td>
<td>North Atlantic Aquatic Connectivity Collaborative</td>
<td>HREP</td>
<td>Inventory Document</td>
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<td></td>
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<td>New England Interstate Water Pollution Control Commission</td>
<td>• Housatonic Valley Assoc</td>
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<td>• Cornell Cooperative Ext</td>
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<td>Online Map</td>
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Prioritizing Road Stream Crossings

- Freshwater Type
- Aquatic Passage Barrier Severity
- Quality of Habitat
- Miles of Connected Habitat

- Hydraulic Capacity
- Structure/Stream Alignment
- Structure Condition

- Maintenance Issues
- Road Condition
- Age of Structure
- Budget Priority/Feasibility

Priority Structures Selected

3-4 Shovel Ready Projects Per Town
Hudson River Watershed

1 Town – 365 Xings

- Road Stream Crossing Inventory and Prioritization Project Complete

4 Towns – 650 Xings

- Road Stream Crossing Inventory and Prioritization Projects Underway

7 Towns – 590+ Xings

- Town priorities for future funding opportunities

14 Priorities Identified

2 Projects Complete

- Project Implementation
Road Stream Crossing Management Planning

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