

Vermont Department of Environmental Conservation

Watershed Management Division
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Agency of Natural Resources

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AUTHORIZATION TO CONDUCT STREAM ALTERATION ACTIVITIES

Pursuant to Section C.2.2.6 of the VT Stream Alteration General Permit (activities to restore floodplain connectivity)

Project Number: **SA-05-043-2015 Norwich Pool Dam Removal** FEMA # PA-01-VT-4022-PW-02334
Applicant Name: Selectboard, Town of Norwich, Vermont Contact: Neil Fulton or Andy Hodgdon
Mailing Address: Town of Norwich, PO Box 376, Norwich, Vermont 05055 Phone: (802) 649-1419 or (802) 649-2209
Project Location: Dam Removal/Stream Remediation Charles Brown Brook Email: manager@norwich.vt.us or ahodgdon@norwich.vt.us

The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that:


1. This project authorizes the removal of a dam damaged by T.S. Irene and the stream remediation of Charles Brown Brook to remove an imminent public safety hazard and improve flood storage upstream of the village of Norwich.
2. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit.
3. The proposed activity will meet the terms and conditions of the General Permit provided:
 - a) The project will be completed and approved as shown on the attached plans undated, prepared by the town of Norwich as reviewed and approved by the VT ANR herein.
 - b) The project will not adversely affect the public safety by increasing flood hazards.
 - c) The project will not significantly damage fish life or wildlife.
 - d) The project will not significantly damage the rights of riparian owners.
 - e) The project will not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
 - f) The project is conducted in a manner which minimizes or avoids any discharge of sediment or other pollutants to surface waters in violation of the VT Water Quality Standards.
 - g) The ANR River Management Engineer is notified by phone or email when construction begins and when the project is complete.
 - h) In-stream working dates for all GP activities are from June 1st through October 1st; any in-stream work outside these dates will require an Individual Stream Alteration Permit authorization by the River Management Engineer.
 - i) This authorization has been posted for three days public comment. This authorization constitutes final approval.

If there are any changes in the project plan or deviation in construction from the plan, the Permittee must notify the River Management Engineer immediately.

If the project is constructed as you have described, as shown on the above referenced approved plans and according to the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards.

Signed this 23rd day of December, 2015
Alyssa B. Schuren, Commissioner
Department of Environmental Conservation

This permit expires October 1, 2016.

by 

Todd Menees, P.E., P.H., River Management Engineer



Norwich Pool Dam Area Restoration Project

Phase I: Secure the area

- Meet with Wade Masure, Senior Loss Control Consultant for the Vermont League of Cities and Towns, to determine what needs to be done to make the area safe and secure.

Phase II: Debris Removal

- Remove rubble (pieces of concrete) and debris that is in the brook.

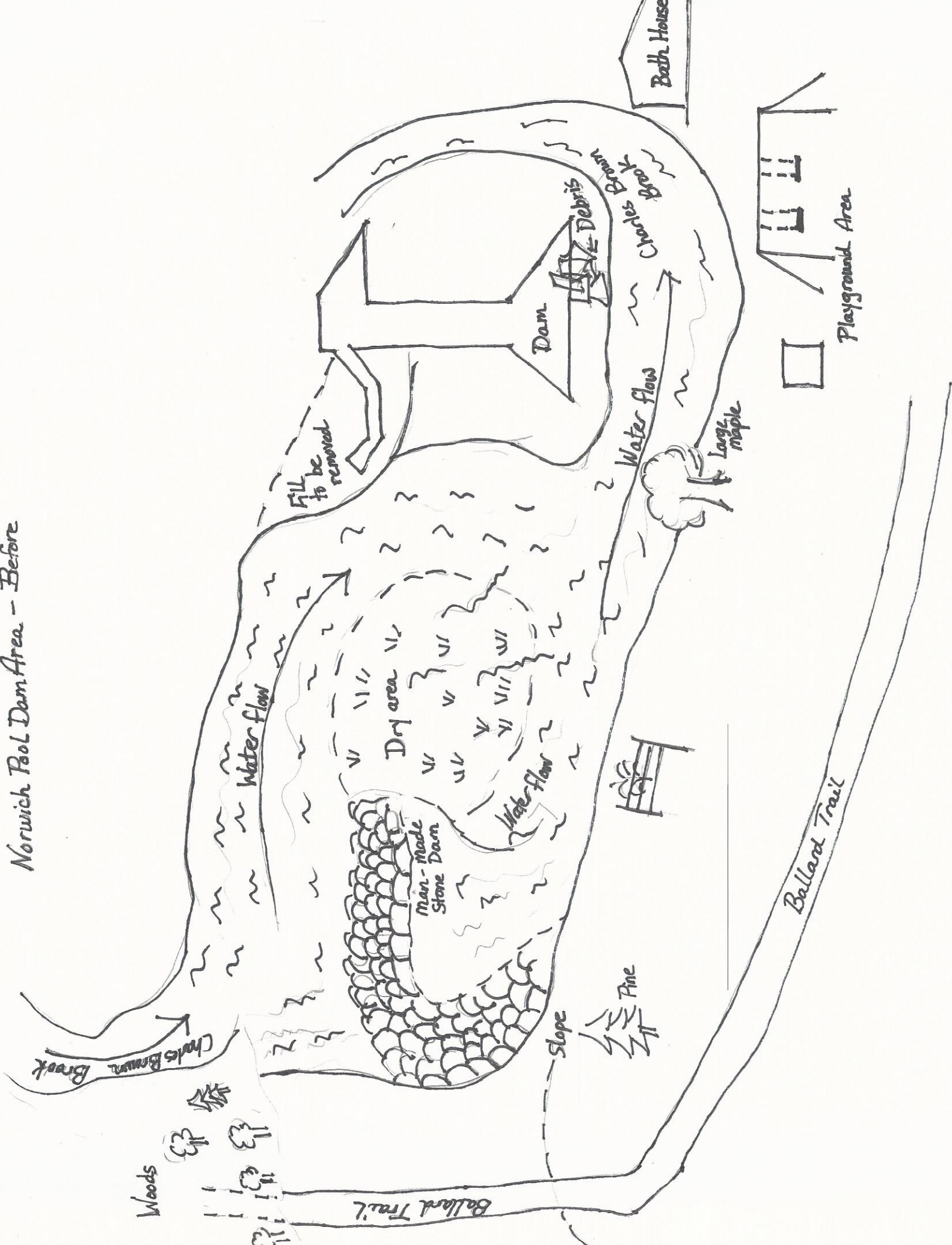
Phase III: Complete the restoration of the area

- Demolish the existing concrete pool dam.
- Remove hand-laid stone dam that is diverting the stream to the left side.
- Stabilize and armor the right bank, descending to a height of 4' with stone from the hand-laid stone dam.
- Finish stabilizing the bank with the material from the far side and slope the bank. This will utilize the old-growth maple and root system it provides for future bank stabilization, eliminating the disturbance of any archeological artifacts. Seed and mulch.
- Take remaining fill from the far side of the brook to create a level recreation area leading to the Ballard Trail.
- Place some of the larger stones from the hand-laid dam to make a set of natural stone steps from the Ballard Trail to the brook where people may want to access the brook for recreational purposes.
- Place a few large rocks in various places within the stream to create natural swirl-pools for fish and other aquatic life.
- Seed and mulch all disturbed areas.

Other considerations:

- Demolish the existing bath house which has partially caved in.
- Reestablish the gravel path from the parking lot to the woods.

Norwich Pool Dam Area - Before



Norwich Pool Dam Area - After

