



Friends of the Winooski River

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Stormwater Management

- The Friends wrote a grant application to complete a site-level stormwater master plan for the Town of Huntington's garage. We managed the process including hiring the engineer and doing the grant administration. We anticipate working with the Town to pursue funding for construction next year.
- In Barre City, the Friends completed a neighborhood based hydrologic study that identified high priority stormwater mitigation opportunities. We worked with the City and two private landowners to fully design three stormwater practices. Two of the three rely on changes to both the public infrastructure and the private property. We are assisting the City in writing the grant application (for this round of CWI) for construction funds and will play a role in the implementation.
- In Barre Town, we are currently working on similar hydrologic study and report for two critical drainages. One of the drainages crosses from Barre Town to Barre City and then back. We are also developing one in Richmond that focus' on the drainages that encompass the elementary and middle school.
- In Williston, the Friends obtained funding to construct a stormwater mitigation practice in the Town ROW in one of the older unpermitted developments. The project was completed in 2015.
- In Plainfield, the Friends have worked with the Town on a project to understand a complex hillside erosion situation that is causing considerable damage to a town road as well as a major sediment load to the Winooski River. The Friends are writing a grant application for the town that will complete a hydrologic study of the hillside to understand flow patterns and how to reduce runoff as well as design a stormwater practice to manage sediment at the base of the hill, before it damages the road and river. If awarded the Friends will manage the project for the Town.

Road Erosion

- We have partnered with the CVRPC to do a number of town road inventories.
- The Friends have focused on private road/driveway education and technical assistance.
- We have integrated road runoff issues into the hydrologic studies and stormwater master plans described above.

Riparian Buffer Restoration

- The Friends have partnered with Williston and the US FWS to complete riparian buffer restoration projects that were identified in the Town's buffer restoration report.
- We have worked with other municipalities on other public lands—Martin Bridge in Marshfield, the town wellfield in Northfield, along Alder Brook in Essex.

- Currently working with the CVRPC to develop a riparian restoration priority report similar to the Williston report. Eventually, we would like to see this be Winooski basin wide but are initially going to focus on a few watersheds.

Water Quality Monitoring

- The Friends have done a number of IDDE studies throughout Washington County. The only town in Chittenden that we have worked on is Richmond.
- We have developed and managed instream monitoring programs. The municipalities have not formally been partners but we share the data.

Floodplain Restoration

- The Friends have been a partner with Northfield on the floodplain restoration projects for the properties that were bought out post-Irene. We secured and managed the grants for the alternatives analysis and design of selected practices. We will be submitting an application for construction funds to match the town's other funding, primarily CDBG.
- Several years ago, the Friends partnered with Williston to do some floodplain restoration work in combination with a substantial riparian planting in lower Allen Brook.

Fish Passage

- The Friends have done a number of culvert retrofits in partnership with US FWS and VT FWD to improve fish passage.
- We also did one culvert replacement that in addition to providing fish passage, relieved the town of a major geomorphic liability.

Education

- The Friends have recently purchased a stream table and are developing a loaner program for schools, municipalities and other entities.
- We are starting up a stormdrain stenciling program.
- Talks on a range of topics such as stream geomorphology (primary partner on the Living in Harmony with Stream guide), stormwater management (build your own rain barrels), and how to conduct a residential runoff assessment,