

FY22 EBTJV Project Application Addendum

This addendum is not a stand-alone document; it is to be used along with the application submitted and on file with EBTJV for FY21

Cross Brothers Dam Removal

Project Location (State, County, Town): Vermont, Washington, Northfield

Congressional District of Project: Vermont at large

Congressional District of Applicant: Vermont at large

NFHP/EBTJV Funding Request: \$100,000.00

Total of Other Federal Funding Contributions: \$207,000.00

Total of Non-Federal Funding Contributions (see I.I below): \$257,000

Total Project Cost: \$564,000.00

Applicant

Project Officer: Karina Dailey
Organization: Vermont Natural Resources Council
Street: 9 Bailey Avenue
City, State, Zip: Montpelier, Vermont, 05602
Telephone Number: 802-881-3423
Email Address: kdailey@vnrc.org

Briefly describe the mission of your organization:

Through research, education, collaboration and advocacy, Vermont Natural Resources Council (VNRC) protects and enhances Vermont's natural environments, vibrant communities, productive working landscapes, rural character, and unique sense of place, and prepares the state for future challenges and opportunities. VNRC collaborates with river and fish biologists, anglers, community members, freshwater advocates and conservation organizations to restore and reconnect rivers to support a thriving fish population. To get there, we facilitate dam removals across the state.

I. PROJECT DESCRIPTION, SCOPE OF WORK, AND PARTNER INFORMATION

E. Updated Project Timeline:

Winter 2019/2020: Preliminary Assessment Complete

Winter 2020/2021: 30% Design Complete

Summer/Fall 2021: Final Design and Permitting

Spring 2022: Final Design and Permitting Complete

Spring 2022: Contractor Selection

Summer/Fall 2022: *Construction – Dam Removal

Spring 2023: Final Planting

Summer 2023-Summer 2027: Annual Monitoring and Reporting

*This proposal seeks funding for the dam removal construction phase.

I. Partner Information updated for non-federal contributions:

All NFHP requested funds are now required to have a 1:1 non-federal match. Non-federal match can include cash and/or in-kind labor, materials, equipment if there are no federal ties to those funds. State agency funds can be used for the non-federal match if labor and/or materials are not being charged to another federal grant. State agency funds that are used to match other federal grants would not be eligible as NFHP match. Once the NFHP grant funds are matched with non-federal cash or in-kind, an unlimited amount of other federal contributions to the project are allowed. Match dollars must be accrued during the project agreement period.

Partner Name	Non-Federal Contributions		Federal Contributions		Partner Category*
	In-Kind Contribution (In-hand or Requested)	Cash Contribution (In-hand or Requested)	In-Kind Contribution (In-hand or Requested)	Cash Contribution (In-hand or Requested)	
Friends of the Winooski	\$2,000 (In-hand)				Conservation Group (local)
USFWS				\$75,000 (In-hand)	Federal Agency
VT DEC/SWG		\$200,000 (requested)			State Agency
VNRC	\$25,000 (In-hand)				Conservation Group (local)
Town of Northfield	\$30,000 (In-hand)				Local Government
Natl. Fish Passage Program				\$64,000 (In-hand)	Federal Agency
Natl. Fish & Wildlife Found				\$68,000 (Requested)	Federal Agency
EBTJV				\$100,000 (Requested)	Federal Agency
Total	\$57,000	\$200,000		\$307,000	*\$564,000

*Partner Categories - Federal Agency, State Agency, Local Government, Conservation Group (Local), Conservation Group (National), Native American Tribe, Private Landowners, Corporations/Businesses

***Please note that the total budget has increased since the original application was submitted to EBTJV. This increase in budget is based on a revised engineering cost estimate that we received following our 30% design and is directly associated with extending the instream channel restoration work upstream to improve fish passage at the dam removal site and improve public access post dam removal.**

IV. UPDATED Project Budget Narrative and Table Please fill out one table for EACH deliverable. A deliverable is a direct and immediately measurable activity of the project. Each deliverable has an ecological, restoration, or outreach outcome associated with it. For example (not an exhaustive list):

Deliverable name	Dam Removed		
Outcome(s) of action (circle mile or acre)			
	24 miles of restored or re-opened fish habitat/ fish passage		

a. Budget category	b. Individual, Staff, or Contractor Organization name	c. Task or Item	d. EBTJV NFHAP Request	e. Non-federal contribution		f. Federal contribution		Total contribution (e + f)
				In-kind	cash	In-kind	cash	
Administration/technical services								
Design								
Contract management	VNRC	Dam Removal		\$10,000				\$10,000
Travel miles								
Travel meals								
Travel lodging								
Personnel Services								
Agency Labor	Town of Northfield	Dam Removal		\$10,000				\$10,000
Contractor Labor	VNRC	Dam Removal		\$15,000				\$15,000
Volunteer Labor	FWR	Dam Removal		\$2,000				\$2,000
Supplies/Equipment								
Materials								
Contractual								
A. Contractor Salaries	VT DEC	Dam Removal			\$200,000			\$200,000
A. Contractor Salaries	USFWS	Dam Removal					\$75,000	\$75,000

A. Contractor Salaries	NFPP	Dam Removal					\$64,000	\$64,000
A. Contractor Salaries	NFWF	Dam Removal					\$68,000	\$68,000
A. Contractor Salaries	EBTJV	Dam Removal	\$100,000					\$100,000
B. Other Contractual	Town of Northfield	Dam Removal - Sediment		\$20,000				\$20,000
Other								
TOTAL			\$50,000	\$57,000	\$200,000		\$207,000	\$564,000

Complete this table for each deliverable and estimate acreage or mileage of any and all planned habitat improvements that will result from the deliverable. Add rows as needed. Indicate if project partner contributions are in-kind or cash along with which funds are in-hand (committed) and which have been requested but are still pending. Estimated Value of Volunteers In-Kind contributions is \$27.20 per hour (**Source**). For each of the project partner funds or in-kind contributions, please specify whether the funds/contributions are from a federal source or non-federal source. To meet the 1:1 non-federal match requirement, non-federal contributions must not be tied to a federal source (see I.I above).

V. UPDATED PROJECT EVALUATION QUESTIONS (Many evaluation questions will remain the same in FY22, and since we have your application from FY21, repeat questions are omitted from this addendum. FY21 questions that carry over with edits/amendments are italicized)

- **New question 2: List the main deliverables of the project and the conservation benefits expected (e.g. Deliverable 1) 2 culverts replaced; 10 miles of stream opened to fish passage. Deliverable 2) addition of large woody material; 1 mile of in-stream habitat); 3) Brook Trout restored to 3.8 km of stream). Note that each deliverable must have its own budget sheet and have its corresponding conservation benefits listed.**

Deliverable 1 – Cross Brothers Dam removed; 24 miles of river opened to fish passage.

- **New question 8: List which of the National Fish Habitat Partnership’s National Conservation Strategies the Project addresses (Appendix C)**

The removal of the Cross Brothers Dam addresses the following Conservation Strategies:

- Protect intact and healthy waters- The Dog River is already a healthy, intact river this project seeks to protect that.
- Restore hydrologic conditions for fish – The dam removal will restore natural stream flow (velocity, temperature and dissolved oxygen) to this reach of the dog river.
- Reconnect fragmented fish habitats – The dam removal will reconnect 24 miles of fish habitat.
- Restore water quality – Removal of the dam impoundment will lower in-stream temperature, increase dissolved oxygen and velocity as well as restore natural sediment transport. All of these factors contribute to restored water quality.

- **FY21 question 20, edited as New question 19: Does the public have access to the Project site? *Will the Project increase or maintain public access to land or water for fish or wildlife-dependent recreational opportunities? If so, describe.***

The project land is owned by the Town of Northfield, public access to the river and existing dam currently exist on this land but the access is currently a safety liability (trip and fall hazard). The dam removal will increase public access as it will provide a safe access to the river to improve water-based recreation in downtown Northfield. Recreational activities that currently occur on this public land include fishing, swimming, wildlife viewing, and river walking.

- **FY21 question 22, edited as new question 21: Describe the outreach or educational components associated with the Project; *do these target the local and/or regional community?***

This project will be featured in multiple social media platforms and our e-newsletter, and will reach thousands of people. Press releases will be sent to traditional media outlets, as well as print, radio, and television news in Vermont. There will be educational signage on site during and after the project. Because this is a town owned dam, the Town has contributed some of there

administration time managing some of the funding for this project and contributed their public works technical support for dam removal. Presentations as to the education benefit of the project have already been made to the local Conservation Commission and Selectboard who fully support this project. We plan to offer dam removal tours post construction, as well as work with the community to provide improved signage and access.

- **FY21 question 24, edited as new question 23: Explain how this Project is a good investment of funds, particularly in terms of its recreational *and economic benefits for the local community?***

This project seeks \$100,000 from EBTJV which is a fraction of the overall project cost (\$564,000). The removal of the Cross Brothers Dam which is located on town owned land, will benefit Brook Trout in a downtown location, with improved public recreation access on one of the most popular Trout rivers in Vermont. The combined benefits of the improved public access and restored fish habitat will directly benefit the Town of Northfield as people will seek out this location for fishing and other water-based recreation.

- **FY21 question 15, edited as new question 24: Describe the plans for *evaluating 1) the Project's success in meeting its objectives (functionality), and 2) the effectiveness of the project's conservation actions, including improvements to fish population and recreational fishing opportunities, and economic benefits. Mention how the Project will be amended if its objectives are not being met. Note: EBTJV will require a post-project report of these findings.***

The success of the project will be evaluated by annual monitoring which will occur consecutively for five years. The restoration of the river's natural planform will be qualitatively measured through photo documentation at fixed points for five years. The restoration of the riparian area surrounding the dam will be included in the photo documentation. VT Department of Fish and Wildlife will continue to include this reach into their routine monitoring.

- **Do your answers to the FY21 questions, not including the above list, remain the same? Please list any major changes to your answers to the FY21 questions.**

Yes, with the exception of the timeline and budget revisions (see Section E and Section IV Budget), all other answered to the FY21 remain the same.

VI. NEW SUPPORTING DOCUMENTATION:

Appendix C

National Fish Habitat Partnership Conservation Strategies

- Protect intact and healthy waters
- Restore hydrologic conditions for fish

Reconnect fragmented fish habitats
Restore water quality