

Winooski Basin Clean Water Service Provider: FY24 Round 4 Call for Proposals

The Central Vermont Regional Planning Commission, in its role as the Clean Water Service Provider for the Winooski Basin, is accepting applications for funding for non-regulatory, phosphorous reduction projects that improve water quality. Fiscal Year 2024 - Round 4 proposals are due by 4:00 PM on 9 May 2024. For more information, including submission details, see the Winooski Clean Water Service Provider webpage.

0. Project Eligibility

Please Review the following reference materials before completing your proposal:

- FY23 Clean Water Initiative Program Funding Policy
- Act 76, Clean Water Service Provider Rule and Guidance & explanatory materials

Is the portion of the project for which you seek funding both non-regulatory and voluntary? (i.e. not a required or compelled element of a regulatory permit or a legal settlement)? (answer must be Yes to proceed)

Does the project type meet the applicable definitions and minimum standards in the <u>FY23 Clean Water Initiative Funding Policy</u>? (answer must be Yes to proceed)

1. A	aa	lica	nt I	nfor	mation
	-P P				

Organization/Municipality Name:

Primary Contact:

Title:

Mailing Address: Phone Number: E-mail Address:

Has the proposing organization / municipality been pre-qualified to receive subcontracts / subgrants from the Central Vermont Regional Planning Commission serving in its capacity as the Winooski Basin Clean Water Service Provider?*

^{*} If you responded no to this question, please include Qualification Materials along with your funding proposal. See the <u>Winooski Clean Water Service</u> <u>Provider webpage</u> for more details.

2. Project Information

Project Title:

Watershed Projects Database ID*:

* Projects without a Watershed Projects Database ID will be evaluated. However, prior to receiving funding, a project must be entered into the Watershed Projects Database. See pages 11-13 of the FY23 Clean Water Initiative Funding Policy.

Select the most representative project type (according to <u>Appendix B Project Types</u> <u>Table</u> of the 2023 CWIP Funding Policy) from the dropdown list below.*

* If there is more than one project type associated with the proposal, enter additional project types in the Project Description section below.

Project Phase for which you are seeking funding:

Project GPS coordinates (e.g. 44.26278, -72.58054):

Project Sub-basin:

3. Project Description
Describe the proposed project. Include the following: project history; the phosphorus reduction practices that will be developed, designed or implemented with the requested funds; details of the project development activities, conceptual or final design plans and cost proposals (if available); and references to prior plans and studies that support the funding request. Propose a project schedule based on the milestones of the proposed project type. Assume a 7 May 2024 start date. (1000 words maximum)

4. Staff Capacity & Past Experience

A list of key staff and a (brief) description of their role in the project. If any of the staff
listed here were not included in your organization's pre-qualification materials, please
attach a one-page resume describing their qualifications to the project proposal.

Name	Project Role

Provide three examples of relevant past work. Include the Watershed Projects Database ID (if applicable), key staff and their role(s) in the project, a brief description of the project (phase, type, partners, etc.) and contact information for project references. Projects listed here should demonstrate the experience of the specific staff anticipated to work under this proposal.

Example Project 1:

Watershed Projects Database ID (if applicable):

Project staff & their project role(s):

Project staff & their project role(s):

Project description (250 words max):

Reference contact information:

Name: Affiliation: Phone: Email:

Example Project 2:

Watershed Projects Database ID (if applicable):

Project staff & their project role(s):

Project description (250 words max):

Reference contact information:

Name:

	Affiliation: Phone: Email:
Exar	mple Project 3: Watershed Projects Database ID (if applicable): Project staff & their project role(s):
	Project description (250 words max):
	Reference contact information: Name: Affiliation: Phone: Email:

5. Estimated annual total phosphorus load reduction (kg/yr)

Please review the Department of Environmental Conservation's <u>Standard Operating</u>
<u>Procedures (SOPs) for Tracking and Accounting of Phosphorous</u> prior to completing this section.

For Developed Lands projects, estimate the annual phosphorous load reduction using the Department of Environmental Conservation's <u>Stormwater Treatment Practice</u> <u>Calculator</u>. Export the results from the calculator and include that information in the proposal package. For Natural Resource Restoration projects, estimate the annual phosphorous load reduction using the Department of Environmental Conservation's <u>Interim Phosphorous Calculator Tool (v1.0)</u>. Save the results from the calculator and include them in the proposal package.

Enter the estimated annual total phosphorous load reduction (kg / yr):

If the proposed project consists of project identification / assessment or development-phase work, provide details regarding the types of projects you intend to investigate and the anticipated phosphorus reduction benefits you expect the project(s) might achieve.

6. Project Budget

Develop a detailed budget with a cost breakdown of all project and administrative expenses. The budget should be itemized by Task with anticipated costs for personnel, equipment, materials, subcontracted services and other costs as appropriate. Be sure to request sufficient funding to complete the required milestones and deliverables (including project reporting) for the type of project being proposed. See the FY23
Clean Water Initiative Program Funding Policy for more information on the milestones required for the project type you are proposing.

Notes:

Mileage: Use the FY24 federal rate (\$0.67 / mile)

Indirect: If you have a negotiated indirect rate, please use that. Otherwise, you may charge up to 10% on all APPLICANT costs and 10% on the first \$50,000 of

SUBCONTRACTORS costs.

Funding request

Amount of funding requested:

State matching funds:

Non-State matching funds:

Total project budget:

Future costs

If this proposal seeks funds for Preliminary (30%) or Final (100%) Design-phase work, please estimate anticipated future costs for subsequent project phases. <u>Do not</u> include this amount in the "Funding request" section above.

Anticipated future funding:

7. Co-benefits

- a) **ENVIRONMENTAL JUSTICE:** points are awarded when a project is located in a Census Block Group where one or more Environmental Justice Focus Population demographic conditions exist. *This value is calculated by the Clean Water Service Provider based on the project location.*
- b) **ECOLOGICAL BENEFITS:** points are awarded when a project reduces sediment and / or non-phosphorous nutrient loads to stressed, altered, impaired or priority waterways to which it is hydrologically connected. *This value is calculated by the Clean Water Service Provider based on the project location.*
- c) **ECOSYSTEM SERVICES:** points are awarded when a project moderates natural phenomena through carbon sequestration and flood resilience. *This value is calculated by the Clean Water Service Provider based on the type of project being proposed.*
- d) **COMMUNITY BUILDING:** points are awarded when a project involves the community in data collection and decision-making, enhances the working landscape and provides recreational benefits. Please answer the following:
 - Are there proposed efforts to meaningfully involve community members in planning, project development, decision-making and implementation?
 - If you answered Yes to the previous question, please describe the effort to involve community members:
 - ♦ Does the project involve data collection by community members (e.g. citizen science initiative)?
 - If you answered Yes to the previous question, please describe the effort to involve community members in data collection:
 - ♦ Is the project located on a parcel that is enrolled in the Use Value & Appraisal Program (aka the Current Use Program) (Contact the Clean Water Service Provider for assistance.)?
 - ♦ Does the project maintain / improve an existing recreational space?

If you answered Yes to the previous question, please describe the maintenance or improvement of existing recreational space(s):

♦ Will the project result in new / expanded recreational opportunities?

If you answered Yes to the previous question, please describe the effort to create new or expand existing recreational opportunities:

- e) **EDUCATION:** An Education Co-Benefit is realized when a project includes aspects of public outreach designed to educate community members about the importance of phosphorus reduction and watershed health
 - ♦ Will the project include an educational component?

If you answered Yes to the previous question, please describe the educational component of the project below:

- ♦ Interpretive signage:
- ♦ Educational meetings / workshops:

8. Other Considerations

a) **DESIGN LIFE:** The design life of the proposed project is:

b) **LANDOWNER RELATIONS**

- ♦ PROPERTY OWNERSHIP: The project will be located on:
- ♦ LANDOWNER SUPPORT: Provide a list of landowner support letters below. Please submit any letters or email from the landowner indicating their support for the project and awareness of their required commitment. Note date of letter/email and sender below.
- ♦ OTHER: Include other information regarding landowner relations here.

c) **OPERATIONS & MAINTENANCE**

- COST ESTIMATE: Provide a quantitative estimate of operation & maintenance costs on an annual basis where available. If not available, please provide a qualitative estimate. The anticipated annual operations & maintenance expenses for this project are:
- ♦ O & M AGREEMENT: There is a signed operations & maintenance agreement for this project:
 - If you answered Yes to the previous question, please include a copy of the signed O & M Agreement in the proposal package.
- OTHER: Include any other information regarding the operations & maintenance agreement for this project.
- d) **PERMITTING:** This project will require a permit:

If you answered Yes to the previous question, please provide a list of the required permits, any issues anticipated in obtaining the permits and the status of the permit. If you have permit(s) for the project in hand, please include a copy of them in the proposal package.

e) **BARRIERS:** Describe any potential barriers to completing this project and how you plan to manage those challenges:

- f) **HISTORIC SITE REVIEW:** Consult the <u>Vermont Historic Sites spreadsheet</u> and accompanying guidance in the State Historic Preservation Review section of the <u>FY23 Clean Water Initiative Program Funding Policy</u> to determine whether the proposed project will require Preliminary and Final Project Review by the Vermont Division of Historic Preservation. Include a copy of the completed Vermont Historic Preservation Project Review Form in the proposal package.
 - ♦ The proposed project will require State Historic Preservation Review:

9. Proposal Submission

Assemble the following materials in the order listed into a single PDF and submit to Brian Voigt (voigt@cvregion.com) with the Subject line: "Winooski Basin Clean Water Service Provider Project Proposal – FY24, Round 4".

- 1. If your organization or municipality has not yet been pre-qualified as an eligible Basin 8 Clean Water Service Provider Clean Water Partner, please complete and submit a pre-qualification form along with your funding proposal.
- 2. Project proposal form (i.e. this document).
- 3. Include the following information in the order listed (please):
 - a) Natural Resources Screening Form (see the FY23 Clean Water Initiative Program Funding Policy Appendix A. Required for preliminary design, final design, or implementation phase projects.)
 - b) Project Locator Map applicants may use the <u>Vermont Agency of Natural Resources Atlas</u> to generate the Project Locator Map (Contact the Clean Water Service Provider for assistance.)
 - c) Project Timeline Propose a project schedule based on the milestones of the proposed project type. Assume a 2 July 2024 start date.
 - d) Staff capacity list key staff and their role(s) in the project. Attach onepage resumes for any staff listed in Section 4 of the Application Form who were not included in your pre-qualification materials.
 - e) Completed <u>DEC Interim Phosphorus Reduction Calculator Tool v1.0</u>, or, for Developed Land Projects, report from <u>DEC Stormwater Treatment Practice</u> Calculator. (Contact the Clean Water Service Provider for assistance.)
 - f) Detailed project budget with a cost breakdown of all project and administrative expenses. The project should be itemized by Task with anticipated costs for personnel, equipment, materials, subcontracted services and other costs as appropriate. Be sure to request sufficient funding to complete the required milestones and deliverables (including project reporting) for the type of project being proposed.
 - g) Letter(s) of support from landowner(s) indicating their support for and awareness of the commitment required to advance / implement the project
 - h) Signed Operations & Maintenance Agreement (if applicable)
 - i) Permits Attach approved project permits (if applicable).
 - j) Historic Site Review Use the <u>spreadsheet</u> and accompanying guidance in the State Historic Preservation Review section of the <u>FY23 Clean Water Initiative Program</u> Funding Policy to determine whether your clean water project will require Preliminary and Final Project Review by the Vermont Division of Historic Preservation. Attach a copy of the completed Vermont Historic Preservation Project Review Form.

APPENDIX A. CLEAN WATER INITIATIVE PROGRAM - PROJECT ELIGIBILITY SCREENING FORM

This fillable PDF form is designed to assist with project review by systematically walking through all eligibility criteria. It should be completed for all projects seeking funding for 30% + design or implementation work. It may be applied to projects seeking funding for assessment or development if helpful for determining their alignment with eligibility criteria 2, 3, 6, and 8.

Step 1: Conduct Eligibility Criteria #1 Screening: Project Purpose

Table 1A: Project Purpose	
From the drop-down list to the right, please select which of the four objectives of Vermont's Surface Water Management Strategy this project addresses. If multiple, please list below:	

Step 2: Conduct Eligibility Criteria #2 Screening: Project Types and Standards

Table 2A: Project Types and Standards		
Please select the most representative project type from the drop-down list		
to the right. ^{1,2} If multiple BMPs are included in the project, please list		
below:		
Is the project type an eligible project type for the funding program you are	Yes	No
applying to as listed in column B of the CWIP Project Types Table?		
(Answer must be YES to proceed)		
Does the project meet the project type definitions and minimum standards	Yes	No
as provided in column C of the CWIP Project Types Table ?		
(Answer must be YES to proceed)		
Will the project result in the standard performance measures, milestones,	Yes	No
and deliverables as defined by project type in columns D-F of the CWIP		
Project Types Table?		
(Answer must be YES to proceed)		
Is the project listed as an ineligible project or activity in the CWIP Funding	Yes	No
Policy? If Yes, please explain below how project meets the allowable		
exceptions within the CWIP Funding Policy.		
(Answer must be NO to proceed, unless reasonable justification is		
provided above)		

Step 3: Conduct Eligibility Criteria #3 Screening: Watershed Projects Database

Verify project has been recorded in the <u>Watershed Project Database</u> (WPD). Each project must have a Watershed Project Database number specific to the proposed project phase (for example,

¹ Note that Road/Stormwater Gully project-types must not otherwise be considered intermittent or perennial streams by the DEC Rivers Program and therefore project proponent must show documentation of this determination in order to select this project type.

² One project may include multiple best management practices (BMPs) that cross "project types." For example, a single project may include both stormwater and lake shoreland BMPs. Proponents should use their best judgement in selecting the most representative project type for the purposes of eligibility screening and reporting.

a final design will have a different WPD-ID from a preliminary design even if for the same project). If the project, or the specific phase, is not yet in the Watershed Project Database, follow directions provided in the CWIP Funding Policy to secure a WPD-ID. Please see CWIP Funding Policy for more information on the WPD-ID.

Table 3A. WPD-ID	
Watershed Project Database ID number assigned	
Watershed Project Database Project Name	

Step 4: Conduct Eligibility Criteria #4 Screening: Natural Resource Impacts³

Agency of Natural Resources (ANR) permit screening for natural resource impacts includes 1) an initial desktop review to identify which ANR permitting programs should be contacted, 2) a review by the relevant ANR permitting staff, and 3) a response summary from the project proponent addressing any permitting staff concerns. ⁴

- 1) Table 4. Natural Resource Impacts facilitates a high-level desktop review of the most likely ANR permits to apply to clean water projects. Project proponents should answer all the questions to identify likely permit needs. ⁵ Please note that "project site" may include both the active restoration location as well as any additional impact footprint related to staging, site access, or storage of waste or disposed materials.
- 2) If responses to the **Table 4. Natural Resource Impacts** desktop review trigger a permitting staff consultation, **Table 4** provides appropriate contact information.
 - a. Proponents should send the identified permitting staff the following:
 - i. The watersheds project database identification number (WPD-ID) (if available),
 - ii. Project location (GPS coordinates)
 - iii. Summary of proposed scope of work, and
 - iv. Any other relevant information they request that will be utilized in their review.
 - b. <u>Proponents should clarify they are seeking permitting staff input on potential permitting needs, permit-ability of proposed scope of work, and other design considerations but they are NOT seeking a formal permit determination.</u>
 - c. Project proponents must attempt to communicate with the permitting staff and provide them with at least thirty days to review the project and provide a

 $^{^3}$ Easements and Riparian Buffer Plantings are excluded from this eligibility requirement/step.

⁴ In cases where this screening may have already occurred in a prior project phase, project proponents may supply attachments or links to relevant permit needs assessment documents in place of completing Table 4.

⁵ Entities selected for funding are expected to perform due diligence to ensure all applicable permits (including non-ANR state, local, and federal permits) are discovered and secured prior to implementation. The <u>ANR Permit Navigator</u> and an Environmental Compliance Division Community Assistance Specialist can help confirm ANR permitting needs for any projects once selected for funding.

response. Project proponents are encouraged to perform this screening during a project development phase as opposed to during a project solicitation round to allow for more time for feedback. Permitting feedback may be up to one year old.

- 3) Proponents should summarize permitting staff feedback and how the proposed scope of work will address this at the bottom of **Table 4**. Specifically, please include:
 - a. Which permits or permit amendment are needed or might be needed? 6
 - b. What type might be needed? (e.g., a general or individual permit⁷)?
 - c. What concerns were voiced by permitting staff?
 - d. How will the proposed scope of work address these concerns?8

Table 4A: Natural Resource Impacts		
I. Act 250 Permits		
1. Have any Act 250 (Vermont's Land Use and Development Control Law) Permits been issued in the project site's parcel location?9	Yes	No
If yes, please provide the permit number and list any water resource	e issues or natural re	esource issues found ¹⁰ :
PermitNumber:		
Resourcelssues:		_
If <i>yes,</i> use the <u>Water Quality Project Screening Tool</u> to identify the a 250 consultation.	appropriate regulator	y contact for an Act
Regulatory Point of Contact Name/Position:		
II. Lake and Shoreland		
1. Is the project site located within 250 feet of the mean water	Yes	No

⁶ Occasionally permit staff may indicate they need a field visit or to see more completed designs prior to making a permit need determination.

⁷ Design phase projects that require an individual wetlands permit must have the permit in hand at the close of the final design phase. Implementation phase projects must have the individual permit in hand to be eligible for funding.

⁸ Examples could include planned design changes or inviting permitting staff to stakeholder meetings.

⁹ An Act 250 Permit is required for certain categories of development, such as subdivisions of 10 lots or more, commercial projects on more than one acre or ten acres (depending on whether the town has permanent zoning and subdivision regulations), and any development above the elevation of 2,500 feet. The <u>ANR Atlas Clean Water Initiative Program Grant Screening tool</u> can help answer this yes/no question. Follow the instructions on the link above to identify whether your project is located on an Act 250 parcel. Note that the layer to activate in ANR Atlas is now named "Clean Water Initiative Program Grant Screening."

¹⁰Note that Act 250 permit amendments may require more extensive review of project impacts to natural resources including wildlife habitat, significant natural communities, and riparian zones. Please consult with the Act 250 District Coordinator regarding the nature and scope of that review and what bearing it may have on your project design.

level (shoreline) of a lake or pond?	level	(shoreline)	of a lake	or pond? 1:
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If *yes*, you might need either a Shoreland Protection Act Permit or a Lake Encroachment Permit. Use the <u>Water Quality Project Screening Tool</u> to find the Lakes and Ponds Program contact for your project's region.

Regulatory Point of Contact Name/Position:

III. Rivers, River Corridors, and Flood Hazard Areas

1. Is there any portion of the project site located within 100' of a river corridor and/or mapped Federal Emergency Management Agency (FEMA) flood hazard area¹²? (e.g. a stormwater pond's pipe draining into a river corridor area)? Any permanent excavation/filling or construction within a flood hazard area or river corridor may trigger regulatory requirements through municipal bylaws or through state authorities.

Yes No

If *yes*, you will need to speak with a <u>Floodplain Manager</u>. Use the <u>Water Quality Project Screening Tool</u> to find the Floodplain Manager for your project's region.

Regulatory Point of Contact Name/Position:

2. Is any portion of the project site within a perennial river or stream channel?

Yes

No

If *yes*, you will need to speak with a <u>Stream Alteration Engineer</u>. Use the <u>Water Quality Project Screening Tool</u> to find the Stream Alteration Engineer for your project's region.

Regulatory Point of Contact Name/Position:

IV. Wetland

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¹¹ The <u>ANR Atlas Clean Water Initiative Program Grant Screening tool</u> can help answer this yes/no question. Follow the instructions on the link above to identify whether your project is located in the jurisdictional zone to trigger a Lakeshore permit. Note that the layer to activate in ANR Atlas is now named "Clean Water Initiative Program Grant Screening."

¹² FEMA mapped Flood Hazard Areas are not available statewide on the ANR Natural Resources Atlas. For projects located in Grand Isle, Franklin, Lamoille, Addison, Essex, Orleans, Caledonia, and Orange Counties, maps are available via the FEMA Flood Map Service Center: https://msc.fema.gov/portal/home. ANR Floodplain Managers are available to provide technical assistance if needed.

¹³ Stream Alteration Permits regulate all activities that take place within perennial river and stream channels. Examples of regulated activities include streambank stabilization, dam removal, road improvements that encroach on streams, and bridge/culvert construction or repair. The <u>ANR Atlas Clean Water Initiative Program Grant Screening tool</u> can help answer this yes/no question. Follow the instructions on the link above to identify whether your project is located in the jurisdictional zone to trigger a Stream Alteration permit. Note that the layer to activate in ANR Atlas is now named "Clean Water Initiative Program Grant Screening."

1. Doos the Wetland Caroning Tool 14 provide a regult of wetlands likely your		
1. Does the Wetland Screening Tool 14 provide a result of wetlands likely, very likely, or present at the project site?	Yes	No
interity, or present at the project site:		
2. Does your project site involve land that is in or near an area that has <u>any</u> of the		
following characteristics:	Yes	
o Water is present – ponds, streams, springs, seeps, water filled depressions,		
soggy ground under foot, trees with shallow roots or water marks? o Wetland plants, such as cattails, ferns, sphagnum moss, willows, red maple,	NI.	
trees with roots growing along the ground surface, swollen trunk bases, or flat	No	
root bases when tipped over?		
o Wetland Soils – soil is dark over gray, gray/blue/green? Is there presence of	Not Sure	
rusty/red/dark streaks? Soil smells like rotten eggs, feels greasy, mushy or wet?		
Water fills holes within a few minutes of digging? (See <u>Landowners Guide to</u>		
Wetlands for additional information on identifying wetlands onsite.)		
, , ,		
If you answered yes or not sure to either of the above questions, you will need to co	ntact your <u>Dis</u>	trict Wetlands
Ecologist using the Wetland Inquiry Form. The District Wetlands Ecologist can help		
locations of wetlands and whether you need to hire a Wetland Consultant to condu		
Alternatively, if you answered <i>yes</i> or <i>not sure</i> to <u>either</u> of the above questions, you of		
Wetland Consultant in the proposed scope of work. Any activity within a Class I or II		
zone (minimum of 100 feet and 50 feet respectively) which is not exempt or consider		
under the Vermont Wetland Rules requires a permit. All permits must go through re		
process, which takes at minimum 6 weeks for a General Permit and 5 months for a	n individual P	ermit.
Regulatory Point of Contact Name/Position:		
Trogulatory 1 offic of contact Name of contact		
1. Is your project a Wetland Restoration project type?	Yes	No
	163	INO
If you answered yes, under the Vermont Wetland Rules, you will need an "allowed u	se" determina	ition from the
If you answered yes, under the <u>Vermont Wetland Rules</u> you will need an "allowed under the <u>Vermont Wetland Rules</u> " you will need an "allowed under the <u>Vermont Wetlands</u> " you will need an "allowed under the <u>Vermont Wetlands</u> " you will need an "allowed under the <u>Vermont Wetlands</u> " you will need an "allowed under the <u>Vermont Wetlands</u> " you will need an "allowed under the <u>Vermont Wetland Rules</u> " you will need an "allowed under the <u>Vermont Wetland Rules</u> " you will need an "allowed under the <u>Vermont Wetland Rules</u> " you will need an "allowed under the <u>Vermont Wetland Rules</u> " you will need an "allowed under the <u>Vermont Wetland Rules</u> " you will need an "allowed under the <u>Vermont Wetland Rules</u> " you will need an "allowed under the <u>Vermont Wetlands Rules</u> " you will need an "allowed under the <u>Vermont Wetlands Rules</u> " you will need an "allowed under the <u>Vermont Wetlands Rules</u> " you will need an "allowed under the <u>Vermont Wetlands Rules</u> " your will need an "allowed under the <u>Vermont Wetlands Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules</u> " you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under the <u>Vermont Rules" you will need an "allowed under</u></u></u></u></u></u></u></u></u>		tion from the
If you answered yes, under the <u>Vermont Wetland Rules</u> you will need an "allowed under the <u>Wetlands Ecologist</u> " using the <u>Wetlands</u> .		ition from the
		ition from the
DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands</u> Regulatory Point of Contact Name/Position:		ition from the
DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetland</u>		ition from the
DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands</u> Regulatory Point of Contact Name/Position: V. Fish and Wildlife		ition from the
DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands</u> Regulatory Point of Contact Name/Position:		ntion from the
DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands</u> Regulatory Point of Contact Name/Position: V. Fish and Wildlife State law protects endangered and threatened species. No person may take or	Inquiry Form.	
DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands</u> Regulatory Point of Contact Name/Position: V. Fish and Wildlife State law protects endangered and threatened species. No person may take or possess such species without a Threatened & Endangered Species Takings	Inquiry Form.	
 DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands</u> Regulatory Point of Contact Name/Position: V. Fish and Wildlife State law protects endangered and threatened species. No person may take or possess such species without a Threatened & Endangered Species Takings permit. Does your project involve cutting down trees larger than 5 inches in diameter in any of the following towns? Addison, Arlington, Benson, Brandon, Bridport, 	Inquiry Form.	
Picc Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands Ecologi</u>	Inquiry Form.	
Picc Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands Ecologi</u>	Inquiry Form.	
 DEC Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands Regulatory Point of Contact Name/Position:</u> V. Fish and Wildlife State law protects endangered and threatened species. No person may take or possess such species without a Threatened & Endangered Species Takings permit. Does your project involve cutting down trees larger than 5 inches in diameter in any of the following towns? Addison, Arlington, Benson, Brandon, Bridport, Bristol, Charlotte, Cornwall, Danby, Dorset, Fair Haven, Ferrisburgh, Hinesburg, Manchester, Middlebury, Monkton, New Haven, Orwell, Panton, Pawlet, Pittsford, Rupert, Salisbury, Sandgate, Shoreham, Starksboro, St. 	Inquiry Form.	
Picc Wetlands Program. Contact your <u>District Wetlands Ecologist</u> using the <u>Wetlands Ecologi</u>	Inquiry Form.	

¹⁴ To view the Wetland Screening Tool introduction video, see https://youtu.be/6lv5en0AB10

2. Is the project site within 1 mile of a mapped 15 Significant Natural Community or Rare, Threatened, or Endangered Species?	Yes	No
If <i>yes</i> to either of the above questions, connect with the VT Fish and Wildlife departm (everett.marshall@vermont.gov 802-371-7333) to discuss your project and any necessary		ting.
Regulatory Point of Contact Name/Position:		
VI. Stormwater		
Will the project disturb more than an acre of land during construction, add or redevelop impervious surface, create new development or otherwise require a Stormwater permit?	Yes	No
If yes , forward to the appropriate <u>Stormwater specialist</u> to ensure necessary permitti <u>Project Screening Tool</u> to find the Stormwater specialist for your project's region.	ng. Use the <u>\</u>	<u>Nater Quality</u>
Regulatory Point of Contact Name/Position:		
VII. Solid Waste		
2. Will you be creating any debris (including construction and demolition waste, stumps, brush, untreated wood, concrete, masonry, and mortar) with your project that you intend to bury on site? ¹⁶	Yes	No
If yes, connect with the Waste Management & Prevention Division (dennis.fekert@ve to discuss your project and any necessary permitting.	ermont.gov 80)2-522-0195)
Regulatory Point of Contact Name/Position:		
Provide below or attach a narrative summary of Table 4 findings. Please include: a. Which permits or permit amendment are needed or might be needed b. What type might be needed? (e.g. a general or individual permit)? c. What concerns were voiced by permitting staff? d. How will the proposed scope of work address these concerns?	1?	
Is the project, as proposed, reasonably considered permit-able by all applicable	Yes	No

¹⁵ Find both of these layers on the ANR Atlas under Atlas Layers/Fish and Wildlife. Use the Measurement tool to 1) Plot Coordinates for your project 2) select the coordinates from the left panel 3) select the Radius Tool 4) click on your project location 5) Indicate 1 mile distance 6) look for overlap with either of these mapped layers.

¹⁶ If your project will result in the transfer and disposal of debris (including construction and demolition waste, stumps, brush, untreated wood, concrete, masonry and mortar), you do not need a permit from this office as long as you hire a <u>licensed solid waste hauler</u> and bring the material to a certified facility.

ANR permitting programs?	
(Answer must be Yes to continue)	

Step 5: Conduct Eligibility Criteria #5-8 Screenings

Table 5A. Eligibility Criteria 5-8				
Landowner and Operation and Maintenance Responsible Party Support. Project identifies and demonstrates commitment from a qualified and willing operation and maintenance responsible party. Project demonstrates landowner support for the proposed project phase.	Yes	No		
(Answer must be YES to proceed)				
Budget. Project budget includes ineligible expenses. (Answer must be NO to proceed)	Yes	No		
Leveraging. Proposed leveraging meets required leveraging levels (if applicable), meets the definition of leveraging, and comes from eligible sources	Yes	No N/A		
(Answer must be YES or N/A to proceed)				
Funding Program Specific Eligibility. Project meets additional funding program eligibility requirements*. Please list applicable funding program below:	Yes	No		
(Answer must be YES to proceed) *If Water Quality Restoration Formula Grant, complete Step 6 below				

Step 6: Screening Projects on Agricultural Lands (Water Quality Restoration Formula Grants Only)

For Water Quality Restoration Formula Grant projects, please complete the following information as part of your Funding Program Specific Eligibility Screening (Criteria 8). Please note this must be completed for all projects located on agricultural lands regardless of project type. See CWIP Project Types Table for eligible project types.

Table 6A. Screening Projects on Agricultural Lands									
Is the proposed project located on a jurisdictional farm operation 17?	Yes - Proceed to next question below.								
Complete a preliminary review to									

¹⁷ Jurisdictional farm operations are required to meet Vermont's Required Agricultural Practices (RAPs).

determine if it is a <u>jurisdictional farm</u> operation, and any case that requires consultation with AAFM will occur via the <u>farm determination</u> process. Please note this form must be submitted by the farm operation/landowner seeking the determination.

No¹⁸ - There is no additional requirements related to agricultural review for these projects.

2. Is the proposed project an agricultural project?

Examples of agricultural projects include but are not limited to Production Area Practices – (e.g. Waste Storage Facilities, Heavy Use Area, Diversion) Fence, Livestock Exclusion, Filter Strip, Cover Crop, Reduced Tillage, Manure Injection, Rotational Grazing. Please note this is not an exhaustive list of all agricultural practices.

Yes - Agricultural Projects on jurisdictional farms are not an eligible project type. You can provide a referral to an applicable state or federal agricultural <u>assistance program</u>, or a local organization.

No- The natural resource, innovative, or other project type will require an agricultural project review and approval from the Vermont Agency of Agriculture, Food and Markets

(VAAFM) to ensure a consistent approach on farms statewide that follows rules, regulations, and laws in place. Please follow Steps 1 & 2 below.

Step 1- Please submit a detailed description of the project, project site, project details, landowner, farm operation, and any other relevant information to VAAFM at AGR.WaterQuality@Vermont.gov .

Step 2- Once you complete this Agricultural Project Review, please allow 30 days for a response. Once that response has been received, please include a summary of the response in the next section.

Agricultural Project	et Review Status & Summary:
Check as	Status
Applicable	
	Submitted/ Pending
	Approved
	Denied

¹⁸ Note CWIP's Agricultural Pollution Prevention project type eligibility is limited to land where owner or operator is <u>not</u> a jurisdictional farm (i.e., <u>not</u> required to meet the Required Agricultural Practices (RAPs)). As such, projects that meet the definition of the Agricultural Pollution Prevention project type in the <u>Appendix B. Project Types Table</u> are <u>not</u> subject to review by VAAFM.

Please include a summary of the response here:	

Please note that it is expected that all projects with the status "submitted/pending" will be "approved" prior to a project approval for funding.

Natural Resource Screening Guidance



Samuel Puddicombe <samuel@winooskiriver.org>

#2025-0251, Long Meadow Brook SWA

Morrison, Shannon <Shannon.Morrison@vermont.gov> To: Samuel Puddicombe <samuel@winooskiriver.org>

Wed, Apr 9, 2025 at 9:52 AM

I have assigned a project number for this request – #2025-0251Please be sure to include this number in the subject heading for any future correspondence.

Thank you for submitting your plan for stream restoration using Strategic Woody Additions. The Vermont Wetlands program approves of this activity under Section 6.23 of the Vermont Wetland Rules as long as

- 1. There are no proposed fill roads, or tree cutting for access of machinery in Class II wetland or buffer zones.
- 2. Ther is no cutting of S1, S2 or S3 plants, which would be: Black Maple, Butternut, Chestnut, Pignut Hickory, Black Gum, Tulip Tree, Jack Pine, Scarlet Oak, Dwarf Chestnut Oak, Yellow Oak, Wild Plum, American Hazelnut, or the Hawthorns and Willows listed by Vermont Fish and Wildlife: https://vtfishandwildlife.com/sites/fishandwildlife/files/documents/Learn%20More/Library/REPORTS%20AND%20AND%20NATURAL%20HERITAGE/ENDANGERED%2C%20THREATENED%20AND%20RARE%20SPECIES%20LISTS/Rare-and-Uncommon-Native-Vascular-Plants-of-Vermont.pdf



Shannon Morrison | District Wetlands Ecologist

Vermont Agency of Natural Resources

Watershed Management Division, Wetlands Program

Davis 3, 1 National Life Dr | Montpelier, VT 05620-3901

802-490-6178 (office)

https://dec.vermont.gov/watershed/wetlands

Flood Recovery Resources: https://anr.vermont.gov/flood#wwtf

From: Samuel Puddicombe <samuel@winooskiriver.org>

Sent: Tuesday, April 8, 2025 11:05 AM

To: Morrison, Shannon < Shannon.Morrison@vermont.gov> **Subject:** Re: East Montpelier Wetland Inquiry Form Submittal

EXTERNAL SENDER: Do not open attachments or click on links unless you recognize and trust the sender.

Hi Shannon,

Yes, I did. I believe Redstart was under the impression that SWA projects were exempt from wetland permits based upon this conversation. I thought it would be good to show you this email chain to see if you agreed with Rebecca's guidance.

I sent you another Redstart SWA project to review the other week for a tributary of Mollys Brook. We have two more SWA projects that we will be applying for implementation funding over the next year. It would be good to know your opinions on this practice as we begin to move more of these projects forward.

Best,

Sam

On Tue, Apr 8, 2025 at 10:53 AM Morrison, Shannon <Shannon.Morrison@vermont.gov> wrote:

Did you mean to send me a correspondence with Rebecca Chalmers?

From: Samuel Puddicombe <samuel@winooskiriver.org>

Sent: Tuesday, April 8, 2025 10:35 AM **To:** samuel@winooskiriver.org

Cc: Morrison, Shannon < Shannon. Morrison@vermont.gov>
Subject: Re: East Montpelier Wetland Inquiry Form Submittal

EXTERNAL SENDER: Do not open attachments or click on links unless you recognize and trust the sender.

Hi Shannon,

Attached are the supplemental documents referenced in the form above.

Thank you!

Sam

LMB Final Design Report (merged and compressed).pdf

On Tue, Apr 8, 2025 at 10:31 AM Lapierre, Laura < Laura. Lapierre@vermont.gov > wrote:

Request

Request: 4. Pre-Application Project Review (you know your project involves a wetland and have a project design planned.)

Request Detail: Pre-application project review for implenting a strategic woody addition project along long meadow brook.

Basic Project Purpose (if any): This is a stream restoration project that will utilize strategic woody additions to reduce incision of long meadow brook, allowing it to regain access to its floodplain and reduce phosphorus loading into the Winooski river.

Inquiry Type: Project/parcel review (desktop)

Additional Notes: In a followup email I will send the final design report for the SWA along with previous wetland guidance for SWA projects.

Are there Site Plans to submit?: Yes (if yes, the submitter will send you a seperate email with attachments)

Location

Project Town: East Montpelier

Location (address, SPAN, x,y): 44.33039, -72.54759

Description of Area to Review: Along long meadow brook and its tributaries that fall on the property

Project Number: Site Visit Logistics

Best Place to Meet:

Potential Site Hazards: Time for Visit:

Additional Details

Does Inquirer Know if there is a Wetland on the Property:

Additional Site Info: ["The wetland is over a half acre in size.", "The wetland is adjacent to a stream, river or open body of water."]

The requestor understands that by requesting pre-application review they are only providing the Wetlands Program with a subset of information necessary to decide on permitting outcomes. Any additional information provided in a permit application or changes to the project design may lead to a different outcome:

I understand

Contact Information

Inquirer: Samuel Puddicombe **Role:** Consultant/Representative

Inquirer Email on Form: samuel@winooskiriver.org; samuel@winooskiriver.org

Samuel Puddicombe Phone Number: 8026969949

Samuel Puddicombe Mailing Address: PO Box 777, Montpelier

Landowner Name (if inquirer is not landowner): KOSS RONALD & CLAGHORN CARLY

Landowner Email:

Landowner Phone Number:

Landowner Mailing Address: 201 TAYLOR RD, Montpelier VT, 05602

MLS#:

Is this an ARPA project? No

END FORM

Samuel Puddicombe (he/him)

Project Manager

802-696-9949

Friends of the Winooski River

PO Box 777, Montpelier, VT 05601

--

Samuel Puddicombe (he/him)

Project Manager

802-696-9949



Friends of the Winooski River

PO Box 777, Montpelier, VT 05601



Samuel Puddicombe <samuel@winooskiriver.org>

SWA Stream Alt Guidance

 Tue, Apr 8, 2025 at 11:55 AM

Samuel,

This is generally inline with the General Permit, C.2.1.5. Please note work on stream segments with a bankfull width of greater than 20-ft remain jurisdictional regardless of meeting the remaining criteria.

https://dec.vermont.gov/sites/dec/files/wsm/rivers/docs/StreamAlterationGeneralPermit_2022-04-19.pdf

Sincerely,

Jaron Borg | River Management Engineer

Vermont Agency of Natural Resources | Watershed Management Division

1 National Life Drive, Davis 3, Montpelier VT 05620-3901

(802) 371-8342 | Jaron.Borg@vermont.gov

From: Samuel Puddicombe <samuel@winooskiriver.org>

Sent: Tuesday, April 8, 2025 11:22 AM

To: Borg, Jaron < Jaron.Borg@vermont.gov> **Subject:** SWA Stream Alt Guidance

EXTERNAL SENDER: Do not open attachments or click on links unless you recognize and trust the sender.

Hi Jaron,

FWR is looking to implement several SWA projects around the Winooski Basin

We are working with Redstart who has been working off the following guidance from Ben Mathews.

- "SWA projects with less than 10 cubic yards of fill per 200 linear ft of fill are eligible for non-reporting category of Stream Alt General permit.
 - Work must follow guidelines of VT SWA Handbook. Work must be approved by F&W.
 - This permit specifies no cutting outside of July 1st October 1st. This requirement can be waived with written approval from F&W.
 - All work must occur 300 ft or more upstream from infrastructure.
 - If qualification for non-reporting permit is certain, do not ask river engineers for approval. Notify them of non-reporting/exempt work once committed as a courtesy."

Does this guidance seem correct to you? If so we will notify you of non-reporting/exempt work once committed.

Thank you,
Sam
Samuel Puddicombe (he/him)
Project Manager
802-696-9949

[Quoted text hidden]



322.0

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Vermont Agency of Natural Resources

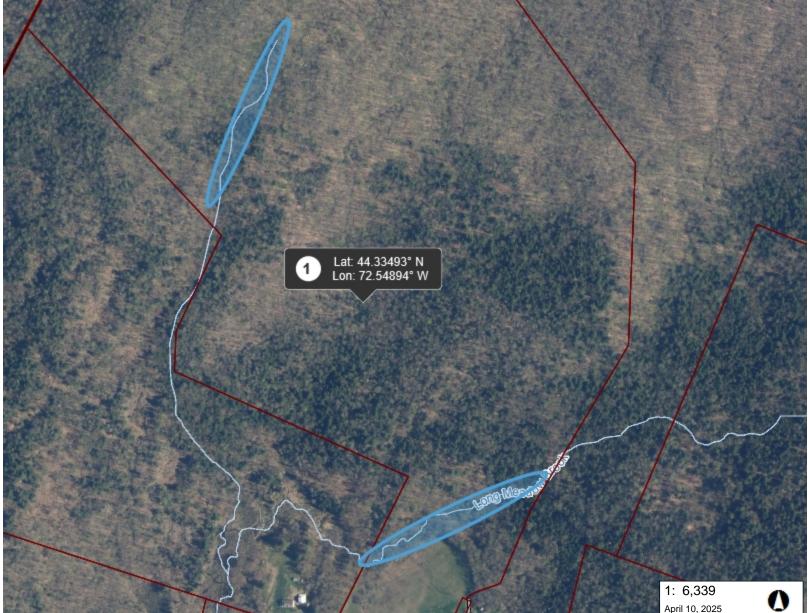


Long Meadow Brook SWA_Locator Map

Vermont Agency of Natural Resources

vermont.gov





LEGEND

Parcels (standardized) Stream

Stream

Intermittent Stream

Roads

Interstate

US Highway; 1

State Highway

Town Highway (Class 1)

Town Highway (Class 2,3)

Town Highway (Class 4)

State Forest Trail

National Forest Trail

Legal Trail

Private Road/Driveway

Proposed Roads

Town Boundary

322.0 Meters 1cm = 63 THIS MAP IS NOT TO BE USED FOR NAVIGATION

161.00

528

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

NOTES

Map created using ANR's Natural Resources Atlas

Project Timeline

	Milestone	Deliverable(s)	Completion Date	Cost
1	Project initiated; proposal / bid solicitation issued, and contractor selected (if applicable)	Copy of proposal solicitation & contractor selected (if applicable)	7/1/25	<mark>500</mark>
2	10-year minimum DEC Operation & Maintenance Plan drafted and signed	Signed 10-year (minimum) DEC Operation & Maintenance Plan	10/1/25	1000
3	10-year minimum access license or easement drafted and signed	Signed 10-year (minimum) access license or agreement	10/1/25	1000
4	Required Permits Secured	Permit documentation (if applicable)	10/1/25	1000
5	Pre-construction kick-off meeting, walk through of the site with plans, evaluate and needs/issues/considerations for plan adjustments		11/1/25	1000
6	Clean Water Project sign installed during construction if the project is considered publicly visible	Photo(s) of site(s) post-implementation; Photo of Clean Water Sign (if applicable)	11/25/25	0
7	Floodplain/Stream restoration projects(s) implemented, final construction walkthrough	As-built drawings or red-lined 100%	1/15/26	10999
8	Other Permit-required activities completed or elements installed (if applicable, VDHP Treatment Plan implementation (if applicable)		1/15/26	0
9	Return of Clean Water Project Sign to host site (if applicable)		1/15/26	0
10	Project closeout	Media announcement; Return of Clean Water Project sign to host site (if applicable); Final Performance Report / ANR Project Closeout Form	1/15/26	1000
			Total Cost	\$16,499

DEC Interim Phosphorus Reduction Calculator Tool v.10

		DLC 1			Spiloi	us itee	actioi	i Caicu	iacoi	. 00.	V. T. O				
Strategic Wood Addition on Perennial Streams															
															Esti
Please consult SWA Crediting Guidance	types. Final design and as-built project phase calculations should be completed for each distinct floodplain pocket as a unique row below, and these rows can be summed to a project total using the summary table with green headers (right). For preliminary designs row information can be completed at the reach level, with total floodplain acreage and representative bankfull and floodplain height information summarized within continuous reaches with similar geomorphic characteristics (e.g., width, slope, bed material). Not all sites are suitable for SWA or eligible for phosphorus reduction calculations, see the linked SWA crediting guidance (left) for more information.						calculat e project total here ->		Projec t Identi fier Long Mead ow Brook Ceiling		Project Total Reconn ected Floodpl ain Acres	Annu al Strea m Stabil ity P Redu ction (kg/y r)	ual Stor age P Red ucti on (kg/ yr)	Year 1 Additi onal Storag e P reduc tion (kg)	mat ed Proj ect Total Ann ual P
To add a new project calculation, enter new a project identifier in the row directly below the last row of data. The preset functions will automatically populate in the new row. If calculating for more than one floodplain pocket (final/as-built designs) or stream reach (preliminary design) within a single project, use one row for each	To determine HUC12 - visit the ANR Atlas (click here), turn on 'ANR Basemap Data', 'Watershed Boundary, Dataset (WBD)', and 'Subwatershed (HUC12)' layers, enter the project lat/lon in the search bar, and click on the search result to zoom	Desktop-b ased or field-base d floodplain acreage estimate, restricting extent of estimated floodplain to the river corridor as described in the SWA	Floodplain storage credit can include reconnect ed floodplain area outside of the mapped river corridor, if applicable . This area is credited at 50%.	See SWA Crediting Guidance	See SWA Crediting Guidance	Calculated based on bankfull height and floodplain height	Potential Achievable IR assuming 0.5ft aggradatio n in channel behind structure. With additional data this 0.5ft assumptio n may be subject to change in	hide?	Credit multiplie r is determin ed based on HUC12 project location	hide?	Universal storage credit for 'Moderate' to 'High' vertical reconnecti on, used for all projects and taken from the 2023 FFI Manual Table 5-2 Page 53	Stream stability credit is depend ent on achievin g an adequat e change in incision ratio, which is not possible in all context		Addition al storage in year one is credited towards the project but not recomm ended for use in assessin g cost effective ness	1

pocket and use a single project identifier for all rows, then enter the same project identifier in cell J5 to calculate the estimated phosphorus reduction for the full project.	to the project location, HUC12 name and number will display in green outlined text.	Crediting Guidance (Step 1)					future iterations of this guidance. See SWA Crediting Guidance for more informatio n.					s. See SWA creditin g guidanc e for more informa tion.	Outp		Out
Input*	Dropdown*	Input Value*		Input Value*	Input Value*	Output value	Output value	Output value	Outpu t value		Output value	Outp ut value	ut valu e	Outpu t value	put valu e
Project Identifier	Project Location HUC12	ected Floodpl ain Area within the River Corrido r	ed Reconn ecte Floodpl ain Area outside the River Corrido r	Estimat ed Bankful I Height (ft)	Floodpl ain	Existing Incision Ratio		stability credit yes/no	lier (kg/ac	Stabili ty Credit Prorat	Credit Multipli	Annu al Strea m Stabil ity P Redu ction (kg/yr	Ann ual Stor age P Red uctio n (kg/ yr)	Year 1 Additi onal Storag e P reduct ion (kg)	uctio
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0304	0.000	0.5	0.5	1.000	1.000	1.000	2.052	0.000	2.300	0.000	0.07	0.070	0.07
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0327	0.000	0.8	1.5	1.900	1.200	1.000	2.052	0.778	2.300	0.052	0.07 5	0.075	0.12 7
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0147	0.000	1.0	1.3	1.300	1.000	1.000	2.052	1.000	2.300	0.030	0.03		0.06

Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0342	0.000	1.3	1.6	1.200	1.000	1.000	2.052	1.000	2.300	0.070	0.07	0.079	0.14
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0091	0.000	1.5	2.6	1.700	1.300	1.000	2.052			0.011	0.02	0.021	0.03
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0298	0.000	1.6	2.5	1.600	1.200	1.000				0.041	0.06		0.10
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0374	0.000	2.0	3.0	1.500	1.200	1.000				0.046	0.08	0.086	0.13
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0085	0.000	1.0	1.2	1.200	1.000	1.000				0.017	0.02		0.03
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0106	0.000	0.8	1.2	1.500	1.000	1.000				0.022	0.02		0.04
Long Meadow Brook Floor	043001030 302 - North Branch Winooski River	0.0049	0.000	0.8	1.2		1.000					0.010	0.01		0.02
Long Meadow Brook Floor	043001030 302 - North Branch	0.0319	0.000	0.8	0.8	1.000	1.000	1.000	2.052	0.000	2.300	0.000	0.07	0.073	0.07

	Winooski														
	River 043001030														
	302 - North														
	Branch												0.40		0.40
Long Meadow Brook Floor	Winooski River	0.017	0.0600	0.8	0.8	1.000	1.000	1.000	2.052	0.000	2.300	0.000	0.10	0.108	0.10
D. CORTION	043001030	0.017	0.0000	0.0	0.0	1.000	1,000	1.000	2.032	0.000	2.500	0.000	J	0.100	
	302 - North														
Long Meadow	Branch Winooski												0.02		0.02
Brook Floor	River	0.0110	0.000	0.6	1.7	2.800	1.500	0.000	2.052	0.722	2.300	0.000		0.025	5
	043001030														
	302 - North Branch														
Long Meadow	Winooski												0.01		0.01
Brook Floor	River	0.0045	0.000	0.6	1.7	2.800	1.500	0.000	2.052	0.722	2.300	0.000	0	0.010	0
	043001030 302 - North														
	Branch														
Long Meadow	Winooski					• • • • •		4 000		o - 00	• • • •		0.00		0.00
Brook Floor	River 043001030	0.0021	0.000	1.0	2.0	2.000	1.300	1.000	2.052	0.700	2.300	0.003	5	0.005	8
	302 - North														
	Branch														
Long Meadow Brook Floor	Winooski River	0.0348	0.000	0.8	1.3	1.600	1.000	1.000	2.052	1.000	2 300	0.071	0.08	0.080	0.15
DI COR I ICOI	043001030	0.0340	0.000	0.0	1.5	1.000	1.000	1.000	2.032	1.000	2.300	0.071		0.000	
	302 - North														
Long Meadow	Branch Winooski												0.02		0.04
Brook Floor	River	0.0111	0.000	0.7	1.2	1.700	1.000	1.000	2.052	1.000	2.300	0.023		0.026	8
	043001030														
Long Meadow	302 - North												0.07		0.07
Brook Ceiling	Branch	0.0304	0.000	0.5	0.5	1.000	1.000	1.000	2.052	0.000	2.300	0.000	0	0.070	0

	Winooski River														
	043001030														
	302 - North														
Long Mondow	Branch Winooski												0.07		0.12
Long Meadow Brook Ceiling	River	0.0327	0.000	0.8	1.5	1.900	1.200	1.000	2.052	0.778	2.300	0.052		0.075	7
Drook cening	043001030	0.0327	0.000	0.0	1.5	1.500	1.200	1,000	2.032	0.770	2.300	0.032		0.073	,
	302 - North														
	Branch														
Long Meadow Brook Ceiling	Winooski River	0.0147	0.000	1.0	1.3	1.300	1.000	1.000	2.052	1.000	2 200	0.030	0.03	0.034	0.06
Brook Celling	043001030	0.0147	0.000	1.0	1.5	1.300	1.000	1.000	2.032	1.000	2.300	0.030	4	0.034	4
	302 - North														
	Branch														
Long Meadow	Winooski	0.0242	0.000	1.2	1.6	1 200	1 000	1 000	2.052	1 000	2 200	0.070	0.07	0.070	0.14
Brook Ceiling	River 043001030	0.0342	0.000	1.3	1.6	1.200	1.000	1.000	2.052	1.000	2.300	0.070	9	0.079	9
	302 - North														
	Branch														
Long Meadow	Winooski												0.19		0.37
Brook Ceiling	River	0.0862	0.000	0.9	1.2	1.400	1.000	1.000	2.052	1.000	2.300	0.177	8	0.198	5
	043001030 302 - North														
	Branch														
Long Meadow	Winooski												0.02		0.03
Brook Ceiling	River	0.0091	0.000	1.5	2.6	1.700	1.300	1.000	2.052	0.571	2.300	0.011	1	0.021	2
	043001030 302 - North														
	Branch														
Long Meadow	Winooski												0.06		0.10
Brook Ceiling	River	0.0298	0.000	1.6	2.5	1.600	1.200	1.000	2.052	0.667	2.300	0.041	9	0.069	9
	043001030														
	302 - North Branch														
Long Meadow	Winooski												0.08		0.13
Brook Ceiling	River	0.0374	0.000	2.0	3.0	1.500	1.200	1.000	2.052	0.600	2.300	0.046		0.086	

Long Meadow Brook Ceiling	043001030 302 - North Branch Winooski River	0.0044	0.000	1.3	1.8	1.400	1.000	1.000	2.052	1.000	2.300	0.009	0.01	0.010	0.01
Long Meadow Brook Ceiling	043001030 302 - North Branch Winooski River	0.0383	0.000	0.9	1.1	1.200	1.000	1.000	2.052	1.000	2.300	0.079	0.08	0.088	0.16 7
Long Meadow Brook Ceiling	043001030 302 - North Branch Winooski River	0.0160	0.000	1.2	1.9	1.600	1.100	1.000			2.300	0.027	0.03	0.037	0.06
Long Meadow Brook Ceiling	043001030 302 - North Branch Winooski River	0.0085	0.000	1.0	1.2	1.200	1.000	1.000				0.017	0.02		0.03
Long Meadow Brook Ceiling	043001030 302 - North Branch Winooski River	0.0106	0.000	0.8	1.2	1.500	1.000	1.000				0.022	0.02	0.024	0.04
Long Meadow Brook Ceiling	043001030 302 - North Branch Winooski River	0.0049	0.000	0.8	1.2	1.500	1.000	1.000	2.052	1.000	2.300	0.010	0.01	0.011	0.02
Long Meadow Brook Ceiling	043001030 302 - North Branch Winooski River	0.0319	0.000	0.8	0.8	1.000	1.000	1.000	2.052	0.000	2.300	0.000	0.07	0.073	0.07
Long Meadow Brook Ceiling	043001030 302 - North Branch	0.017	0.0600	0.8	0.8	1.000	1.000	1.000	2.052	0.000	2.300	0.000	0.10 8		0.10

	Winooski														
	River														
	043001030														
	302 - North														
	Branch														
Long Meadow	Winooski												0.02		0.02
Brook Ceiling	River	0.0110	0.000	0.6	1.7	2.800	1.500	0.000	2.052	0.722	2.300	0.000	5	0.025	5
	043001030														
	302 - North														
Long Moodow	Branch												0.01		0.01
Long Meadow Brook Ceiling	Winooski River	0.0045	0.000	0.6	1.7	2.800	1.500	0.000	2.052	0.722	2 200	0.000		0.010	0.01
Brook Celling	043001030	0.0043	0.000	0.0	1./	2.800	1.500	0.000	2.032	0.722	2.300	0.000	0	0.010	U
	302 - North														
	Branch														
Long Meadow	Winooski												0.15		0.29
Brook Ceiling	River	0.0680	0.000	0.8	1.2	1.600	1.000	1.000	2.052	1.000	2.300	0.140		0.157	6
	043001030														
	302 - North														
	Branch														
Long Meadow	Winooski												0.00		0.00
Brook Ceiling	River	0.0021	0.000	1.000	2.000	2.000	1.300	1.000	2.052	0.700	2.300	0.003	5	0.005	8
	043001030														
	302 - North														
	Branch														
Long Meadow	Winooski	0.0240	0.000	0.000	1 200	1.000	1 000	1 000	2.052	1 000	2 200	0.074	0.08	0.000	0.15
Brook Ceiling	River	0.0348	0.000	0.800	1.300	1.600	1.000	1.000	2.052	1.000	2.300	0.071	0	0.080	1
	043001030 302 - North														
	Branch														
Long Meadow	Winooski												0.06		0.10
Brook Ceiling	River	0.0284	0.000	0.900	1.650	1.800	1.200	1.000	2.052	0.750	2 300	0.044		0.065	9
Drook cening	043001030	0.0201	0.000	0.500	1.050	1.000	1.200	1.000	2.032	0.750	2.500	0.011		0.003	
	302 - North														
	Branch														
Long Meadow	Winooski												0.02		0.04
Brook Ceiling	River	0.011	0.000	0.700	1.200	1.700	1.000	1.000	2.052	1.000	2.300	0.023	6	0.026	
Long Meadow	043001030												0.02		0.03
Brook Ceiling	302 - North	0.009	0.000	0.700	1.200	1.700	1.000	1.000	2.052	1.000	2.300	0.018	0	0.020	7

Branch						
Winooski						
River						

	1						
Cost Effectiveness							
Calculator for							
Formula Grant							
Project							
Prioritization			Notes				
Cost effectiveness of a project Cost effectiveness (\$/kg/yr) = construction / annual average Cost effectiveness for a proje	total capital project cost (d phosphorus load reduction ct with less than 15-year d	ollars) for design and n (kg/yr) esign life:	for projects propose considers the projec utilizes the cost effe equation used in th 6 of the Act 76 Guid	ost effectiveness used in ed to be funded under F ct lifespan in the contex ectiveness formula prese is tool is subject to revis lance Document. Cost e er Initiative Performanc	ormula Grants. The cost t of the 15-year Formu ented in Chapter 6 of A sion following conclusion ffectiveness metrics pr	st effectiveness calcula la Grant implemneta ct 76 Guidance. The connection of the public notice esented elsewhere, s	lation in this tool tion timeframe and cost effectiveness e period for Chapter uch as in the
Cost effectiveness (\$/kg/yr) =		*(Total Project Cost \$)		on on Act 76 and Guidar	•		
/Average annual P load reduct	tion i	i	https://dec.vermon	t.gov/water-investment	·	/act-76	
Enter the project ID exactly entered in the phosphorus calculator tab to autofill calculated estimated P load reduction.			It is recommended that cost effectiveness is calculated with and without inclusion of any anticipated match or leveraged funds, if applicable.	Optional if different than total project costs. Consider Chapter 6 Guidance on co-funded projects and proportional credit for co-funders that are reporting partners.	Value will autofill based on project ID. If project type is a stormwater treatment practice, calculated estimated P load reduction should be copied and pasted from the STP calculator output.		
Input	Input	Output	Input	Input	Input	Output Value	Output Value
Project ID	Project Type	Estimated Project Type Design Life	Total Estimated Project Cost (design and construction)	Estimated Project Cost to be Covered by Formula Grant Funds (design and construction)	Calculated Estimated P Load Reduction (kg/yr)	Total Project Estimated Cost Effectiveness (\$/kg/yr)	Formula Grant Estimated Cost Effectiveness (\$/kg/yr)
Long Meadow Brook Floor	Strategic Wood Addtion	10		·		\$29,316.83	\$20,419.55
11001	Addition	10	J2J,000.00	Ş10, 4 33.00	1.21	₹2,310.63	72U,413.33

Long Meadow Brook	Strategic Wood						
Ceiling	Addtion	10	\$23,688.00	\$16,499.00	2.28	\$15,577.38	\$10,849.85
Long Meadow Brook	Strategic Wood						
Avg	Addtion	10	\$23,688.00	\$16,499.00	1.75	\$20,304.00	\$14,142.00

Detailed Project Budget

Budget

		Leveraged Funds/	
Expense/Item	CWSP Grant Request	Match	TOTAL
Project Management/Completion: all			
direct staff expenses including salary and			
fringe benefits (all deliverables			
documentation and reporting tasks should			
also be included)	\$2,682	\$0.00	\$2,682
Mileage	\$53	\$0.00	\$53
Contractual (can include up to 15%			
contingency)	\$12,265	\$6,535.00	\$18,800
Other eligible direct costs (see 2023 CWIP			
Funding Policy)	\$0	\$0.00	\$0
Project Completion SUBTOTAL	\$14,999	\$0.00	\$21,534
Indirect:			
Up to 10% on indirect for up to \$50,000 of			
contractual costs and up to 10% on all			
other eligible expenses (project			
management, mileage, etc).	\$1,500	\$0.00	\$2,153
Project Completion TOTAL			
(Project Completion SUBTOTAL + Indirect	\$16,499	<i>\$0</i>	<i>\$23,688</i>

	Budget Explanation			
Category	Item	Cost / Item	Quantity	Total
Project Management/Completion: all direct staff expenses including salary and fringe benefits (all deliverables documentation and reporting tasks should also be included)	2025 Project Manager Rate per Hour	\$38.30	48	\$1,838.40
Project Management/Completion: all direct staff expenses including salary and fringe benefits (all deliverables documentation and reporting tasks should also be included)	2025 Executive Director Rate per Hour	\$46.85	18	\$843.30
Mileage	Round Trip Cost. Current IRS Rate (\$0.7/mil) x 15 miles	\$10.50	5	\$52.50
Contractual (can include up to 15% contingency)	0.47 Miles of SWA Implementation	\$16,925.00	1	\$16,925.00
Contractual (can include up to 15% contingency)	Reporting	\$1,875.00	1	\$1,875.00

Landowner Communication



James King <james@redstartconsulting.com>

potential stream visit next week

James King <james@redstartconsulting.com> To: Carley <carley.claghorn@gmail.com>

Thu, Mar 27, 2025 at 10:06 AM

Hi Carley,

I hope you found our message on NRCS funding to be reassuring that the work will not incur any costs to you. If there are any further questions or doubt, let me know and I will look into it.

My colleague Finley and I would be interested to visit your stream for about an hour or two next week. Would either Monday or Tuesday be possible for that?

Thank you, **James**

Carley <carley.claghorn@gmail.com>

To: James King <james@redstartconsulting.com>

Sun, Mar 30, 2025 at 8:51 AM

Yes, either of those days would be fine. And yes, your reassurance around funding was helpful.

Best. Carley

James King <james@redstartconsulting.com>

Sun, Mar 30, 2025 at 2:55 PM

To: Carley <carley.claghorn@gmail.com>

Sounds good. Finley and I will be there around 8:30 or 9 tomorrow. Thank you.

Best, **James**

James King <james@redstartconsulting.com>

Mon, Mar 31, 2025 at 6:10 AM

To: Carley <carley.claghorn@gmail.com>

Hi Carley,

Unfortunately Finley is out sick today and we have to reschedule for Wednesday morning, if that is possible.

Best, James

Carley <carley.claghorn@gmail.com>
To: James King <james@redstartconsulting.com>

Mon, Mar 31, 2025 at 6:40 AM

Hi James,

Sure, Wednesday is fine. It would have been pretty wet walking in the woods today!

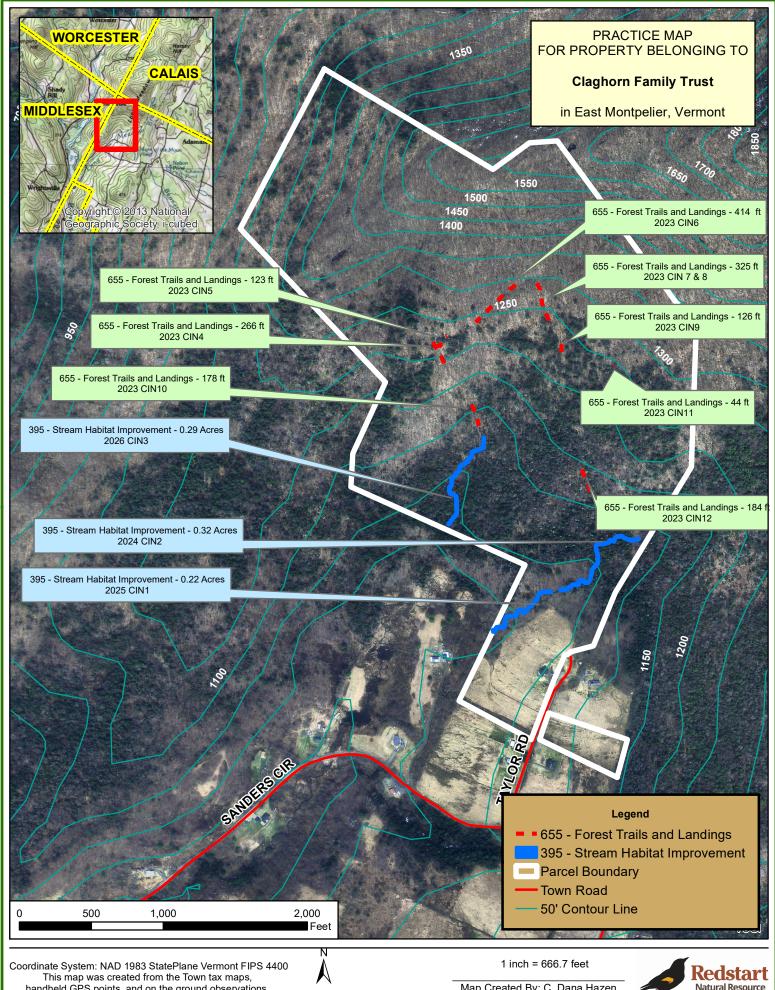
Carley

James King <james@redstartconsulting.com>
To: Carley <carley.claghorn@gmail.com>

Mon, Mar 31, 2025 at 4:31 PM

Thank you!

[Quoted text hidden]



handheld GPS points, and on the ground observations. ***THIS IS NOT A SURVEY***



Map Created By: C. Dana Hazen March 2023

