

TRANSMITTAL MEMO

TO: LAMOILLE BASIN WATER QUALITY COUNCIL (BWQC)
FR: LAMOILLE BASIN CLEAN WATER SERVICE PROVIDER (CWSP) STAFF
RE: MATERIALS FOR MEETING ON 4/3/24
DA: 3/28/24

=====

The next meeting will take place on April 3, as a replacement for the meeting originally planned for March 28. Please let me know if you have any questions regarding the agenda or the meeting.

Conflict of interest disclosures, if any

This recurring agenda item provides BWQC members and others opportunity to note possible conflicts of interest regarding agenda items. Because applications will be reviewed and votes on funding are expected, one or more of you will be declaring a conflict of interest and recusing from voting later in the meeting.

Seating of any new representatives or alternates

Hyde Park Town Administrator Brent Sheets has been selected as the new municipal representative for the BWQC, replacing Bruce Wheeler. As indicated in the materials attached, he has extensive experience in water quality management and infrastructure.

Budget Adjustments

Peter Danforth recently submitted a budget adjustment request for his Strategic Wood Addition project in Elmore. The request was approved by staff, the Vice Chair, and Kent Henderson. Peter Danforth requested an increase of \$500 to the project budget, representing a 17.4% increase. As indicated in the materials attached, Staff reviewed the request and recommended approval, citing the modest change in cost effectiveness. Vice Chair Sarah Hadd approved the request. Kent Henderson, filling in as second member, also approved the request. The budget adjustment was approved in accordance with the BWQC's budget adjustment policy, which allows for the streamlined approval of certain budget changes. The agenda item is included to address the transparency requirements of the policy.

Application Review/Prioritization

The CWSP for the Lamoille Basin announced a fourth call for project applications on May 19. The filing deadline was July 7, and three applications were received. The applications consist of two implementation projects and one preliminary design project. Sponsors of the applications are: Lamoille County Conservation District (2 submittals) and Lamoille County Planning Commission. Staff have reviewed and prioritized the applications and recommend them for funding. The amount of funding requested ranges from \$12,574 to \$104,973. The estimated annual phosphorus reductions range from 5.82 KG per year to 11.19 KG per year, although the latter number has been the subject of considerable discussion by DEC staff. Please find additional information attached.

[continues]

Brainstorming Session Summit

As we approach the second anniversary of the BWQC's creation and have had time to form opinions about 'what works and what doesn't, CWSP staff (and others) felt that BWQC members might welcome the chance to take part in a brainstorming session focused on overcoming obstacles to project advancement. The format will be informal. Because time is limited, we will attempt to facilitate a rapid-fire, results-oriented session, one that encapsulates our collective experiences and insights. Please come to the meeting prepared to share your ideas.

DEC Clean Water Network Summit

To recap memos included in earlier packets, the Clean Water Network Summit will be held on April 5, 2024, at St. Leo's Hall in Waterbury, starting at 9:00 AM.

DEC will host the event to bring clean water practitioners together to discuss challenges and opportunities. It will include presentations, panel discussions, and project updates. In-person attendance is encouraged, and refreshments and lunch will be provided to the first 100 registrants. If needed, CWSP may assist with travel expenses.

One item on the agenda is the so-called Slam. During the "slam," CWSPs and BWQCs will present updates on their activities. Currently, CWSP staff for Basins 6 and 7 anticipate that the presentations will include "Snapshots" of the CWSP's progress as well as achievements of the Basin Councils. The slides might also include results of the Brainstorming session" on "overcoming obstacles" earlier on this agenda.

Updates and conclusion

This time will be available for discussion of future meeting topics and updates. If you would like to mention any of your own, please let us know.

Thanks to all who participate.

Agenda

AGENDA

Lamoille Basin Water Quality Council (BWQC)

RESCHEDULED*

Wednesday, April 3, 2024

9:00 -11:00 AM

Remote /Zoom meeting

(Zoom details below)

1. Welcome and introductions
2. Meeting protocols
3. Conflict of interest declarations, if any
4. Review/adjust and approve agenda
5. Approval of minutes
6. Public comment not related to items on agenda
7. Seating of any new reps or alternate(s)
8. Report on budget adjustments
9. Review of applications (filed in response to round 4 “Call for Projects”)
10. Brainstorming session on overcoming obstacles to project advancement
11. DEC clean water network summit (April 5)
12. Updates and conclusion

*for mis-announced March 28 meeting

Please Note: The schedule for the upcoming application round in Lamoille Basin is as follows:

Round	Open	Deadline
5	April 4, 2024	May 9, 2024

Join Zoom Meeting

<https://us02web.zoom.us/j/84702275818?pwd=ZTIjMXBKMURBU3d4L0V1K3Z5VnJoZz09>

Meeting ID: 847 0227 5818

Passcode: 888257

One tap mobile

+13092053325,,84702275818# US

Dial by your location

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

Staffing provided by Northwest Regional Planning Commission (NRPC), the Basin 6 Clean Water Service Provider. NRPC’s physical / mailing address is 75 Fairfield Street, St. Albans, Vermont 05482.

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Minutes

Lamoille Basin Water Quality Council (BWQC)
Thursday, January 25, 2025
9:00 -11:00 AM
Virtual Meeting/Held Via Zoom* (computer/smartphone/tablet etc.)

Meeting video posted at https://youtu.be/x_Tyo36X6Lk

Richard Goff (Q), Kent Henderson (Q), Brad Holden (Q), Peter Danforth (Q), Erin De Vries (Q), Katherine Sonnick (Q), Adelaide Dumm (Q), Jed Feffer (Q), Mel Auffredou, Ken Mink, Meghan Rodier
Q= towards quorum
Staff: Dean Pierce, Sara Gratz
Others present: Karen Bates

1. Welcome and Introductions

Peter Danforth opened the meeting as Chair at 9:02 a.m. Attendees introduced themselves.

2. Meeting protocols

Meeting protocols were reviewed.

3. Conflict of interest declarations, if any

No conflicts of interest were made.

4. Review/adjust and approve agenda

Erin De Vries motioned to approve the agenda. Jed Feffer seconded. Motion carried.

5. Approval of Minutes

Richard Goff motioned to approve the minutes. Kent Henderson seconded. Motion carried.
Brad Holden abstained.

6. Public comment not related to items on agenda

No public comments were made.

7. Seating of any new reps or alternate(s)

No new reps or alternates were seated.

8. Policy on Budget Adjustments

Dean Pierce presented a proposal for the creation of a policy on budget adjustments, which had been discussed at the previous meeting. He offered 3 different options for potential adjustments, and also shared an example of a policy that was recently adopted in Basin 6.

A discussion followed in support of the Alternative 3 option, but with capped amounts doubled, which was seen in the Basin 6 example.

Alternative 3 option was presented as follows:

Project Phase	Adjustment Amount	Approval Method
Assessment/ID/Project Development	<=10%, capped at \$5,000	CWSP staff may approve
	>10% and <=20%, capped at \$10,000	CWSP staff with concurrence of Chair and Vice Chair (or 2 BWQC members) may approve.
	20% +, or any request >\$20,000	Requires vote by BWQC
Design/Implementation project costing less than \$150k	<=10%, capped at \$10,000	CWSP staff may approve
	>10% and <=20%, capped at \$20,000	CWSP staff with concurrence of Chair and Vice Chair (or 2 BWQC members) may approve.
	20% +, or any request >\$20,000	Requires vote by BWQC
Design/Implementation project costing more than \$150k	<=10%, capped at \$15,000	CWSP staff may approve
	>10% and <=20%, capped at \$30,000	CWSP staff with concurrence of Chair and Vice Chair (or 2 BWQC members) may approve.
	20% +, or any request >\$30,000	Requires vote by BWQC

Jed cautioned that projects with a higher cost will have a lower phosphorus reduction ratio and asked if projects ever require a decrease in budget. Dean explained that project costs are reimbursed, not given up front, so any unused money would remain in the available funds.

Richard asked for clarification as to whether CWSP staff will be required to approve budget adjustments under this new policy. Dean responded by stating that CWSP staff will still have the option to decline a request for a budget adjustment because they still have to be mindful of phosphorus reduction ratios.

Brad Holden motioned to adopt the alternative 3 option with the capped amounts doubled and Erin De Vries seconded. Motion carried.

9. Input on Cost effectiveness

Dean initiated a conversation about project cost effectiveness, explaining that in DEC's Guidance document, it is stated that CWSPs and BWQCs were encouraged to adopt minimum

cost effectiveness ratios. He asked the Council whether a cost effectiveness threshold should be put in place.

Jed commented that since the CWSP has a target amount of phosphorus reduction that they aim to achieve, then there should be a minimum amount that each project treats. Dean responded by sharing that in the Lamoille Basin, they should be spending an average of \$15,000 per kilogram of phosphorus reduction, but that can include a combination of projects that have higher and lower cost ratios.

Dean also went on to explain that part of what is driving the question of whether a cost effectiveness threshold is needed, derives from the different funding sources. CWSP projects are funded through Formula Funds, which have a focus on maximizing phosphorus reduction. Enhancement Funds do not have a focus on phosphorus reductions, so projects that have a higher cost and lower phosphorus reduction could be funded through them instead of CWSP. Setting a threshold would help determine the best funding source.

Peter reiterated that CWSPs need to spend funds wisely and commented that it's a subject that can create tensions because some projects have too low of a phosphorus reduction rate. He made a recommendation of projects that are easy to get CWSP funding for, including riparian buffer plantings, strategic woody additions, and wetland restorations.

Ken asked how much phosphorus the CWSP is charged with reducing each year. Dean shared that in the Lamoille Basin, it amounts to 40 kilograms per year for 5 years.

Erin shared that she's heard from other Basin Councils that they are not ready to set a cost effectiveness threshold, and she thinks that they would need to see more projects happen before a threshold could reasonably be determined.

Karen Bates explained that Clean Water Funds are distributed through different funding channels, such as CWSP and Enhancement Grants, to help DEC spend the money more efficiently and effectively. She also shared that the intention behind the CWSP program is for them to be able to find more water quality projects that have a big impact on phosphorus reduction.

Kent Henderson motioned to table the topic for further discussion. Jed seconded. Motion carried.

10. Adoption of completed projects

Dean explained that CWSP funds should be used for project maintenance, and shared that the CWSP can adopt past projects where no one claimed the phosphorus credits.

Peter asked if the process of adopting a project would require submitting an application as if it were a new project. Dean responded by saying that the guidance is still being written, but that

he imagines that it is something that can be approved by the CWSP and BWQC without needing to submit an application.

A discussion followed regarding who would be able to act as the verifier to ensure that projects are still functioning as they should. Erin brought up concerns about landowners potentially not wanting a third-party entity to get involved, stating that the organization that implemented the project should be allowed to verify its maintenance.

Jed asked for clarification that the projects that could be adopted did not have to be initiated by the CWSP. Dean verified that the projects would not have to have been funded by the CWSP and shared the Watershed Project Database could be used to find projects that could be adopted.

Adelaide Dumm asked who would pay for the verification or maintenance of a project if it required an engineering approach. She also asked if maintenance funds could cover replanting of trees that are dying in a riparian buffer planting area. Dean responded by saying that at some point, it would probably make sense to call the project new and start over with a new application.

11. Farm Project refresher

Dean gave a brief overview of the process for determining whether a project on a farm setting can qualify for CWSP funds or if it needs to be funded through the Agency of Agriculture. He recommended to start the process early and that communication is key.

Karen shared that there will be a meeting soon to discuss how to better clarify what is eligible and what isn't.

12. DEC clean water network summit (April 5)

Dean gave an update on the DEC Clean Water Network summit that is happening on April 5th from 9-3 in Waterbury. He expects that there will be an opportunity to hear a quick overview from each Basin.

13. Updates and Conclusion

Dean reminded the Council about the dates for the next rounds of funding. The next round opens on February 7th with a deadline of March 14th. The round after that opens on April 4th and has a deadline of May 9th.

Richard motioned to adjourn the meeting and Jed seconded. Motion carried.

Seating of new rep

MEMO

TO: LAMOILLE BASIN WATER QUALITY COUNCIL
FR: CWSP STAFF
RE: NEW MEMBER APPOINTMENT
DA: 3/21/24

=====

A new representative has been selected for the Lamoille Basin Water Quality Council (BWQC).

- **Name:** Brent Sheets
- **Position:** new Town Administrator for the Town of Hyde Park

- **Relevant experience:**
 - Water Supervisor II for the City of Amarillo, Texas
 - Assistant City Manager / Dir. of Public Works for the City of Fritch, Texas
 - Water Maint. Worker II for the City of North Richland Hills, Texas
 - Public Works Tech for the City of Daingerfield, Texas
 - Water Maintenance Worker II for the City of Fritch, Texas

Brent will be able to provide valuable insights and expertise to the BWQC, particularly in the areas of water quality management and infrastructure. He is eager to learn more about the work of the BWQC and is committed to contributing to the Council's efforts to protect and improve water quality in the Lamoille Basin.

From: [Brent Sheets](#)
To: [Dean Pierce](#)
Subject: RE: Basin 7 Municipal rep
Date: Wednesday, March 20, 2024 10:02:20 AM
Attachments: [image001.png](#)
[image002.png](#)

Dean,

Was cleaning up this dang computer and saw this in my spam, so sorry for the delay getting back to you sir.

What time will the meeting take place on the 28th? The only reason is we are too close and sign my life away on the home that we are at since moving in from Texas.

I must be there but do not want to miss out on this meeting..

And yes would like to get with you..

Let me know.

Brent Sheets

From: Dean Pierce <dpierce@nrpcvt.com>
Sent: Friday, March 8, 2024 12:58 PM
To: Brent Sheets <brent@hydeparkvt.com>
Cc: 'Peter Danforth' <lcdddirector@gmail.com>; 'Meghan Rodier' <meghan@lcpvt.org>; cdimitruk <cdimitruk@nrpcvt.com>
Subject: FW: Basin 7 Municipal rep

Greetings, Brent.

NRPC is pleased to announce your selection as a municipal representative to the Lamoille Basin Water Quality Council (BWQC). Congratulations and welcome.

Thanks in advance for your interest and future participation. I look forward to working with you.

The next meeting of the Lamoille BWQC will take place on March 28th using the Zoom platform. You should have received a calendar invitation for that and future meetings of the BWQC. If not, please let me know.

In general, meeting materials are issued one week prior to meetings. A focus of the upcoming meeting is likely to be the latest round of applications for CWSP funding. I also will be providing you with copies of policy documents, etc, used by the Council.

Finally (for now) I would be happy to schedule a time for a chat where I can orient you to the work of the group. Please let me know if that is of interest.

Do not hesitate to ask if you have any questions.

Dean

Dean Pierce

Senior Planner (*he/his*)



Address: 75 Fairfield Street, St. Albans, VT 05478

Website: www.nrpcvt.com

Office: 802.524.5958 - ext. 14

<https://scheduler.zoom.us/dean-pierce>

From: Dean Pierce

Sent: Friday, February 23, 2024 3:21 PM

To: Brent Sheets <brent@hydeparkvt.com>

Subject: RE: Interested in the opening

Hi Brent. It is nice to meet you. Congratulations on your new position with the Town of Hyde Park. And don't consider yourself a longshot at all. You are the first person to reach out to me in response to the notice shared by LCPC. After a bit more time I will be discussing responses with my boss, Catherine Dimitruk. When she and I have a chance to catch up, we might have some questions for you. Hope you have a great weekend.

Regards,

Dean

Dean Pierce

Senior Planner (*he/his*)



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<https://scheduler.zoom.us/dean-pierce>

From: Brent Sheets <brent@hydeparkvt.com>

Sent: Friday, February 23, 2024 9:21 AM

To: Dean Pierce <dpierce@nrpcvt.com>

Subject: Interested in the opening

Mr. Pierce,

I am the new Town Administrator for the Town of Hyde Park and saw that there is an open seat on the Lamoille Clean Water Service Provider Basin Water Quality Council.

I know it's a long shot for me just coming from Texas but have a lot of years in this field. Please see my attached resume for your consideration.

Brent Sheets CPM

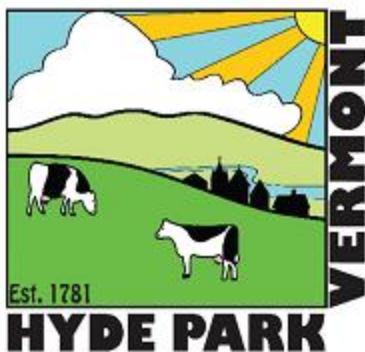
Town Administrator

(802)888-2300-Office

(903)946-2947-Cell

brent-sheets-cpm-b23b92209 - (LinkedIn)

<https://hydeparkvt.com/>



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Brent Sheets CPM

3609 S. Aldredge ST., Amarillo, Texas, United States

(903) 946-2947 / sheetsbrent@gmail.com
brent-sheets-cpm-b23b92209 (LinkedIn)

Experience

- City Manager** – City of Fritch, *Fritch Texas* 03/2023 – Present
Responsible for planning, directing, managing, and reviewing all activities and operations of the city, I work with the department heads and together coordinate programs, services, and activities among the city departments and outside agencies; I oversee and ensure the financial integrity of the municipal organization; I represent the city's interests in all matters allowed by the city council and mayor
- Assistant City Manager / Dir. of Public Works** – City of Fritch, *Fritch Texas* 04/2021 – 03/2023
Researched and provided a timely resolution to service discrepancies. / Completed the city's quarterly reports to PGCD, TCEQ DLQOR reporting, and annual reporting to the TWDB. Manage, developed, and executed departmental vision, goals, objectives, and priorities. Assess work performance, providing constructive criticism, and positive reinforcement, for employee work efforts. Researched and obtained grant funding.
Directed capital projects and oversaw the implementation of capital programs.
- Water Supervisor II** – City of Amarillo, *Amarillo, Texas* 11/2015 – 04/2021
Supervised new construction throughout the city, oversaw water utility repairs, fire hydrants and other water utility infrastructure. Created quotes for new construction. Trained staff, Maintained good work relationships with other departments within the city and contractors.
- Public Works Tech** – City of Daingerfield, *Daingerfield Texas* 05/2012 – 11/2015
Conducted routine preventative maintenance on all equipment. Responsible for water utility repairs, water sample collection, meter readings, as well as wastewater system duties. Operated a wide array of equipment.
- Water Maint. Worker II** – City of North Richland Hills, *North Richland Hills Texas* 05/1986 – 07/1994
Responsible for water utility repairs as well as wastewater system duties.
Equipment Operator, Operated a wide array of equipment.

Skills

Understanding of Local Government, Field Related Experience, Operations Communication, Team Work, Team Building, Project Management, Problem-Solving, Customer Service, Environmental Awareness, Leadership.
Ability to prioritize and manage projects and work to make deadlines in a constant changing environment.

Education

- Texas Tech University** – Certified Public Manager 2023
- Texas Christian University** – Ranch Management 1986

Military Service

United States Marine Corps. 1988 - 1994
Arkansas National Guard 1994 - 1996

Technical Licenses

Texas Commission on Environmental Quality

Class (C) Water Distribution Operator License.

Class (D) Wastewater Treatment Operator License

Texas Class A CDL

Professional Affiliations

American Public Works Association - Texas Region

American Water works Association - Texas Chapter

Texas Water Utility Association - Panhandle Regional President

International City Manager Association

Texas City Management Association

American Academy of Certified Public Managers

Texas Municipal League

"It is amazing what you can accomplish if you do not care who gets the credit."

- Harry S Truman

Budget adjustment

MEMO

TO: LAMOILLE BASIN WATER QUALITY COUNCIL
FR: CWSP STAFF
RE: BUDGET ADJUSTMENT
DA: 3/21/24

=====

The Lamoille Basin BWQC has adopted a policy for approving budget adjustments.

- **Purpose:** To streamline the process for making modest adjustments to previously approved project budgets.
- **Eligibility:** Approved projects are eligible for adjustment according to this policy.
- **Approval Process:**
 - Adjustments up to 10% of the budget or \$10,000 can be approved by CWSP staff at their discretion.
 - Adjustments over 10% but less than 20% of the budget or \$20,000 can be approved by CWSP staff with concurrence from the BWQC Chair and Vice Chair or two BWQC members without conflicts of interest.
 - Adjustments over 20% of the budget or \$20,000 require approval by a vote of the BWQC.
- **Exceptions:** Projects with estimated total costs of \$150,000 or more have higher approval thresholds.
- **Transparency:** Budget changes approved by CWSP staff or the Chair and Vice Chair are to be listed as information items on the meeting agenda.

Recently **Peter Danforth** submitted a budget adjustment request for his **Strategic Wood Addition project in Elmore**. **The request was approved by staff, the Vice Chair, and Kent Henderson.**

- **Request:** Peter Danforth requested an increase of \$500 to the project budget, representing a 17.4% increase.
- **Approval Process:**
 - Staff reviewed the request and recommended approval, citing the modest change in cost effectiveness.
 - Kent Henderson, as Vice Chair, approved the request.
 - Sarah Hadd, as BWQC Chair, also approved the request.

The budget adjustment was approved in accordance with the BWQC's budget adjustment policy, which allows for the streamlined approval of certain budget changes. The agenda item is included to address the transparency requirements of the policy.

From: [Dean Pierce](#)
To: [Sarah Hadd](#); [Kent Henderson](#)
Cc: [Bethany Remmers](#)
Subject: request to amend budget filed by Peter Danforth
Date: Tuesday, March 12, 2024 4:53:00 PM
Attachments: [funding policy for Basin 7 as approved.pdf](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Hi Sarah and Kent,

I am reaching out to you because I've received a request from BWQC Chair Peter Danforth to amend the budget for a Strategic Wood Addition project in Elmore. The roughly \$500 increase requested represents 17.4 % of the original total.

In a situation like this one, for it to be approved using the budget adjustment policy (attached) requires concurrence of staff, the Vice Chair, and second person drawn from the BWQC membership. Owing to his experience as Vice Chair in Basin 6 in addition to his service in Basin 7, I have asked Kent Henderson to fill this role. And he has kindly agreed.

The new budget request is for \$3,373.86, while the original requested amount was \$2,874.41. Tentatively, the estimated cost of the project overall has also increased, and after communicating with Peter I am setting that figure at 100,000 for the purposes of this analysis. According to Peter, the principal driver behind the requested change is an error in the spreadsheet he used when building the original budget request.

			NEW-Request	Prior Request/ Approved	Absolute Difference	Percent difference
	Match / Leveraged	Amount				
	Total	Expenses	Requested			
	\$3,873.86	\$500.00	\$3,373.86	\$ 2,874.41	\$499.45	17.4%

The estimated cost effectiveness has changed very slightly, with the cost per kilogram growing by 2 percent from \$8,772 per kilogram to \$8,937 per kilogram.

	NEW-Request	Prior Request/ Approved	Absolute Difference	Percent difference
P Estimate KG	11.19	10.26	0.93	9%
Est total cost	\$ 100,000.00	\$ 90,000.00	\$ 10,000.00	11%
\$/P KG	\$ 8,936.55	\$ 8,771.93	164.62	2%

As staff, and in light of the relatively modest change in cost effectiveness, I would recommend approval of the requested change.

If you concur, please let me know. And, if you would like to schedule time for a discussion, also please let me know.

Thanks in advance for your time and consideration.

Dean

Dean Pierce

Senior Planner (*he/his*)



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<https://scheduler.zoom.us/dean-pierce>

From: [Dean Pierce](#)
To: [Sarah Hadd](#); [Kent Henderson](#)
Cc: [Bethany Remmers](#)
Subject: RE: request to amend budget filed by Peter Danforth
Date: Wednesday, March 13, 2024 9:44:31 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

The thanks go to you, Sarah.
Regards,
Dean

Dean Pierce

Senior Planner (*he/his*)



Address: 75 Fairfield Street, St. Albans, VT 05478

Website: www.nrpcvt.com

Office: 802.524.5958 - ext. 14

<https://scheduler.zoom.us/dean-pierce>

From: Sarah Hadd <townmanager@fairfax-vt.gov>
Sent: Wednesday, March 13, 2024 9:07 AM
To: Dean Pierce <dpierce@nrpcvt.com>; Kent Henderson <khenderson@friendsofnorthernlakechamplain.org>
Cc: Bethany Remmers <bethany@nrpcvt.com>
Subject: RE: request to amend budget filed by Peter Danforth

Dean,
I concur with Kent and also approve of the amendment. Thank you!
Sarah



Sarah Hadd, AICP, CFM
Town Manager

Town of Fairfax
12 Buck Hollow Road
Fairfax, VT 05454
P: 802.849.6111 ext. 16

<http://www.fairfax-vt.gov>



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From: Dean Pierce <dpierce@nrpcvt.com>
Sent: Wednesday, March 13, 2024 8:36 AM
To: Kent Henderson <khenderson@friendsofnorthernlakechamplain.org>; Sarah Hadd <townmanager@fairfax-vt.gov>
Cc: Bethany Remmers <bethany@nrpcvt.com>
Subject: RE: request to amend budget filed by Peter Danforth

Thank you, Kent. Dean

Dean Pierce

Senior Planner (*he/his*)



Address: 75 Fairfield Street, St. Albans, VT 05478

Website: www.nrpcvt.com

Office: 802.524.5958 - ext. 14

<https://scheduler.zoom.us/dean-pierce>

From: Kent Henderson <khenderson@friendsofnorthernlakechamplain.org>
Sent: Wednesday, March 13, 2024 8:19 AM
To: Dean Pierce <dpierce@nrpcvt.com>; Sarah Hadd <townmanager@fairfax-vt.gov>
Cc: Bethany Remmers <bethany@nrpcvt.com>
Subject: Re: request to amend budget filed by Peter Danforth

Hello Dean,

Thank you for the thorough explanation of the request to amend the Elmore Strategic Wood Addition project. I approve of this amendment.

Thanks,
Kent

From: Dean Pierce <dpierce@nrpcvt.com>
Sent: Tuesday, March 12, 2024 4:53 PM
To: Sarah Hadd <townmanager@fairfax-vt.gov>; Kent Henderson <khenderson@friendsofnorthernlakechamplain.org>
Cc: Bethany Remmers <bethany@nrpcvt.com>
Subject: request to amend budget filed by Peter Danforth

Lamoille Basin CWSP/BWQC Project Budget Adjustment Policy

Adopted by BWQC: 1/25/24 Adopted by CWSP:

Policy

It shall be the policy of the Lamoille basin CWSP and BWQC to allow for modest adjustments to previously approved project budgets using a simplified process as described below.

Previously approved project budgets (eg., those approved as part previous funding rounds) shall be eligible for adjustment retroactively. Project budgets approved as part of future funding rounds will be approved with the understanding they are modifiable according this policy.

When a project sponsor proposes an amendment to a project budget for a good and valid reasons, the budget amendment may be authorized on an expedited basis as follows:

For Assessment/Identification/Development Projects

- Changes of up to 10% of the project budget and with an absolute value of \$10,000 or less, may be approved at the discretion of CWSP staff;
- Changes of more than 10% but less than 20% of the project budget and with an absolute value of \$20,000 or less, may be approved at the discretion of CWSP staff with concurrence of the BWQC Chair and Vice Chair (or in the event the Chair and/or Vice Chair have a conflict, with the concurrence at least two BWQC members without conflicts of interest);
- Changes of more than 20% of the project budget or with an absolute value of more than \$20,000, may be approved only by a vote of the BWQC and will be scheduled as expeditiously as schedules allow.

For Design/Implementation Projects with estimated total project costs of less than \$150,000.

- Changes of up to 10% of the project budget and with an absolute value of \$20,000 or less, may be approved at the discretion of CWSP staff;
- Changes of more than 10% but less than 20% of the project budget and with an absolute value of \$40,000 or less, may be approved at the discretion of CWSP staff with concurrence of the BWQC Chair and Vice Chair (or in the event the Chair and/or Vice Chair have a conflict, with the concurrence at least two BWQC members without conflicts of interest);
- Changes of more than 20% of the project budget or with an absolute value of more than \$40,000, may be approved only by a vote of the BWQC and will be scheduled as expeditiously as schedules allow.

For Design/Implementation Projects with estimated total project costs of \$150,000 or more.

- Changes of up to 10% of the project budget and with an absolute value of \$30,000 or less, may be approved at the discretion of CWSP staff;
- Changes of more than 10% but less than 20% of the project budget and with an absolute value of \$60,000 or less, may be approved at the discretion of CWSP staff with concurrence of the BWQC Chair and Vice Chair (or in the event the Chair and/or Vice Chair have a conflict, with the concurrence at least two BWQC members without conflicts of interest);
- Changes of more than 20% of the project budget or with an absolute value of more than \$60,000, may be approved only by a vote of the BWQC and will be scheduled as expeditiously as schedules allow.

Any budget changes approved by CWSP staff and/or the Chair and Vice Chair shall be listed as information items on the meeting agenda subsequent to any approval.

Amendment

This policy may be amended by vote of the BWQC as deemed appropriate by the CWSP and BWQC.

Adoption

Adopted at _____ meeting of Lamoille Basin Water Quality Council

Review of applications

MEMO

TO: LAMOILLE BASIN WATER QUALITY COUNCIL
FR: CWSP STAFF
RE: APPLICATIONS /PRIORITIZATION
DA: 3/21/24

=====

As noted in the transmittal memo, the CWSP for the Lamoille Basin announced a fourth call for project applications on February 7. The filing deadline was March 21, and three applications were received. The applications consist of two implementation projects and one preliminary design project.

The sponsors of the applications are: Lamoille County Conservation District (2 submittals) and Lamoille County Planning Commission (working with Vermont Studio Center).

Staff have reviewed and prioritized the applications and **now recommend them for funding**. The amount of funding requested ranges from \$12,574 to \$104,973. The estimated annual phosphorus reductions range from 5.82 KG per year to 11.19 KG per year, although the latter number has been the subject of considerable discussion by DEC staff.

Attached please find a table providing an “At a Glance” overview of the projects, as well as the CWSP’s preliminary ranking/prioritization. Sponsors of the applications have been invited to make presentations regarding their applications before the BWQC considers voting on the requests.

APPLICATIONS "AT A GLANCE"

Basic Eligibility	Yes	Yes	Yes
Applicant Name	Peter Danforth	Alberto Della Torre	Peter Danforth
Applicant Organization	Lamoille County Conservation District	Lamoille County Planning Commission	Lamoille County Conservation District
Applicant Email	lccddirector@gmail.com	alberto@lccpcvt.org	lccddirector@gmail.com
Applicant telephone	+1 (631) 495-9093	+1 (586) 457-7270	+1 (631) 495-9093
Project ID from WPD	11774	11772	11771
Description of Project	Implement Strategic Wood Addition which will restore floodplain connectivity and phosphorus retention in 2.84 miles of upland stream. The targeted streams drain a total catchment area of 342 hectares and flow north and east to Little Elmore Pond and Elmore Pond Brook. Much of this land is state-listed Northern hardwood forest. Targeted streams are identified as having minimal accumulation of natural coarse wood material (4"x6' or larger pieces), and are of adequate channelization, slope, water depth, bank full width, and tree-cover to benefit from strategic wood addition. Manual installation of a minimum of 1,566 cubic ft of wood within the channel will restore these streams' vertical floodplain connectivity and retention of fine sediments. Through combined outcomes of floodplain storage, faster uptake by streambed organisms, and adsorption to retain fine inorganic matter, total phosphorus reduction is an estimated 11.19 kg/yr for a 100+ year lifespan.	The Vermont Studio Center (VSC) is removing a campus building and is looking to restore natural floodplain conditions along the banks of the Gihon River. This would entail removing existing fill and riprap as well as reducing the gradient of the current riverbank. This project would slow the velocity of the river and provide more water storage for future flooding. The programming on the site of the former building is planned to be a native pollinator plant garden and educational pathway.	Plant approximately 3.5 acres of trees along the Lamoille River south of the entrance bridge of The Lamoille Valley Property Owners Association (LVPOA) aka "10 Bends Association".
Project Latitude	44.51491	44.6364	44.59068
Project Longitude	-72.52682	-77.67876	-72.62868
Project Phase	Implementation	Preliminary Design	Implementation
Annual P Reduction KG	11.19 kg/yr	5.82	8.2 Kg/Yr
Any one time P reduction KG		24.2	
Total Cost of Proposed Phase	\$104,973.06	\$35,782.14	\$19,574.41
Amount of funding requested (Proposed Phase)	\$104,973.06	\$35,782.14	\$12,374.41
Matching Funds Available	NA	0, Implementation phase may require several sources of funding. Preliminary Design will only utilize DEC Funding.	\$7,200 in-kind volunteer match (tree planting)
Total Project Costs (All Phases)	108,145.66	less than \$200,000	\$19,574.41
Design Life	30	Perpetual	Perpetual
Adjusted Design Life			
Estimated Annual O&M cost total	\$2,000.00	\$2500-\$5500	\$3,600 first year then \$500-\$1000 second year, \$500 3rd year and after.
Conformance with Tactical Basin Plan TBP	5	5	5
Number of Co-benefit Areas	4	6	5
DEC Screening Form Uploaded	Yes	Yes	Yes
Map of Project Area Uploaded	Yes	Yes	Yes
Project Budget Uploaded	Yes	Yes	Yes
Project Schedule Uploaded	Yes	Yes	Yes
Landowner Support uploaded	Yes	Yes	Yes
Phosphorus Calculator Tool uploaded	Yes	Yes	Yes
Created	03/14/24 7:35 AM	03/14/24 7:28 AM	03/11/24 8:06 AM

Application for Project 11771

Basic Eligibility	Yes
Applicant Name	Peter Danforth
Applicant Organization	Lamoille County Conservation District
Applicant Email	lccddirector@gmail.com
Applicant telephone	+1 (631) 495-9093
Project ID from WPD	11771
Description of Project	Plant approximately 3.5 acres of trees along the Lamoille River south of the entrance bridge of The Lamoille Valley Property Owners Association (LVPOA) aka "10 Bends Association".
Project Latitude	44.59068
Project Longitude	-72.62868
Project Phase	Implementation
Annual P Reduction KG	8.2 Kg/Yr
Any one time P reduction KG	
Total Cost of Proposed Phase	\$19,574.41
Amount of funding requested (Proposed Phase)	\$12,374.41
Matching Funds Available	\$7,200 in-kind volunteer match (tree planting)
Total Project Costs (All Phases)	\$19,574.41
Design Life	Perpetual
Adjusted Design Life	
Estimated Annual O&M cost total	\$3,600 first year then \$500-\$1000 second year, \$500 3rd year and after.
Conformance with Tactical Basin Plan TBP	5
Number of Co-benefit Areas	5
DEC Screening Form Uploaded	Yes
Map of Project Area Uploaded	Yes
Project Budget Uploaded	Yes
Project Schedule Uploaded	Yes
Landowner Support uploaded	Yes
Phosphorus Calculator Tool uploaded	Yes
Created	03/11/24 8:06 AM

Riparian Buffer Planting Estimated Phosphorus Reduction Calculator

Total Phosphorus Reduction = buffer area land use change P reduction + drainage area overland flow P reduction

Buffer area land use change P reduction = (TMDL Drainage Area land use loading rate for prior land use (kg/acre)* acres of buffer restored) - (TMDL Drainage Area land use loading rate for forest land (kg/acre)* acres of buffer restored)

Drainage area overland flow P reduction = TMDL Drainage Area land use loading rate (kg/acre) * drainage area acres * 40% (P reduction efficiency)

Variable	Value	Unit	Land Use Definitions:	Notes:
Buffer drainage area	5	times the planted buffer area	Developed Pervious = lawn, turfgrass, unmowed meadow with no agricultural use Developed Impervious = paved and unpaved roads, driveways, parking lots Pasture = hayfield with manure application, livestock grazing area Cropland = cultivated land with corn, row crops, specialty crops Mixed Forest = deciduous, coniferous and mixed forest land	If any impervious land use is known to drain to a storm drain and not to the buffer, exclude it from the calculation of drainage area. Buffer area with developed impervious land use prior to restoration is accounted for in the buffer area land use change calculation.
Phosphorus reduction efficiency	40%	percent of load		For more detail on the accounting methods and metrics, please see Standard Operating Procedures for Tracking & Accounting of Natural Resources Restoration Projects, available on the VT DEC website.

Input*	Dropdown*	Input Acres*	Dropdown*	Dropdown*	Input Percent*	Dropdown	Input Percent	Dropdown	Input Percent	Input Error Check	Output value	Output value	Output value	Output value
Project Identifier	Project Location TMDL Drainage Area	Riparian Buffer Area Planted (Acres)	Prior Land Use of Buffer Planting Area	Buffer Drainage Area Land Use 1	Land Use 1 Percent of Drainage Area	Buffer Drainage Area Land Use 2	Land Use 2 Percent of Drainage Area	Buffer Drainage Area Land Use 3	Land Use 3 Percent of Drainage Area	Total Percent Drainage Area (must equal 100%)	Total Buffer Drainage Area	Estimated P Reduction from Drainage Area (kg/yr)	Estimated P Reduction from Land Use Change (kg/yr)	Estimated Total P Reduction (kg/yr)
Example Riparian Buffer Project 1	Willoughby River	0.20	Cropland	Cropland	100%					100%	1	0.53	0.26	0.78
10 Bends Tree Planting By Entryway Bridge - Hyde Park	Lamoille River	3.50	Cropland	Cropland	100%					100%	17.5	5.52	2.67	8.20

CWSP Grant Budget Template

template updated 9/21/2022

		gray cells auto-calculate - do not edit	
Project Name:	10 Bends Tree Planting By Entryway Bridge - Hyde Park	Please ensure Total Cost = Match + Amount Requested	
# Project Steps in Proposal:	1		

Personnel Salaries/Wages (Name, Title)	Tasks/Responsibilities	Hours	Hourly Rate	Salary Expense	Match / Leveraged	Amount Requested
Peter Danforth	Meetings, communications, design oversight, minutes, final report	40.00	\$60.00	\$2,400.00	\$0.00	\$2,400.00
<i>Insert additional rows if needed</i>				\$0.00		\$0.00
Personnel Salaries/Wages Subtotal				\$2,400.00	\$0.00	\$2,400.00

Fringe Benefits (not used if included in personnel billable rate)	Fringe Benefits	Salary Expense	Fringe Benefits	Match / Leveraged	Amount Requested
Includes FICA, worker's comp, health insurance, retirement, etc.	0%	\$2,400.00	\$0.00	\$0.00	\$0.00
Fringe Benefits Subtotal			\$0.00	\$0.00	\$0.00

Anticipated Travel	Purpose	Miles	Mileage Rate	Travel Expense	Match / Leveraged	Amount Requested
Peter Danforth	Site Visits, Meetings	20.00	\$0.66	\$13.10	\$0.00	\$13.10
<i>Insert additional rows if needed</i>				\$0.00		\$0.00
Travel Subtotal				\$13.10	\$0.00	\$13.10

Equipment	Description/Use	# of Units	Unit Cost	Equipment Expense	Match / Leveraged	Amount Requested
		0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Insert additional rows if needed</i>				\$0.00		\$0.00
Equipment Subtotal				\$0.00	\$0.00	\$0.00

Supplies	Description/Use	# of Units	Unit Cost	Supplies Expense	Match / Leveraged	Amount Requested
trees	Bare Root Stock 2-4'	1,050.00	\$8.00	\$8,400.00	\$0.00	\$8,400.00
<i>Insert additional rows if needed</i>				\$0.00		\$0.00
Supplies Subtotal				\$8,400.00	\$0.00	\$8,400.00

Contractual	Description/Use	# of Units	Unit Cost	Contract. Expense	Match / Leveraged	Amount Requested
				\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	\$0.00
Contractual Subtotal				\$0.00	\$0.00	\$0.00

Construction	Description/Use	# of Units	Unit Cost	Construct. Expense	Match / Leveraged	Amount Requested
		1.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Insert additional rows if needed</i>				\$0.00		\$0.00
Construction Subtotal				\$0.00	\$0.00	\$0.00

Other Expenses	Description/Use	# of Units	Unit Cost	Other Expense	Match / Leveraged	Amount Requested
Volunteers	Tree Planting	40.00	\$180.00	\$7,200.00	\$7,200.00	\$0.00
<i>Insert additional rows if needed</i>				\$0.00		\$0.00
Other Expenses Subtotal				\$7,200.00	\$7,200.00	\$0.00

Total Direct Costs/Modified Total Direct Costs Calculation		Total
Total Direct Costs		\$18,013.10
Exclusions from Indirect Cost Base	auto-calculated - enter date on TMDC tab >	\$2,400.00
Total Modified Direct Costs (TMDC)		\$15,613.10

Indirect Costs (10% of Total Modified Direct Costs)	Total Indirect	Match / Leveraged	Amount Requested
auto calculated >	\$1,561.31	\$0.00	\$1,561.31
Total Indirect Costs	\$1,561.31	\$0.00	\$1,561.31

Total Project Cost, Match and Funding Requested:	\$19,574.41	\$7,200.00	\$12,374.41
Percent Match/Leveraged Expenses	37%		
Match + Amount requested = Total project cost	YES		

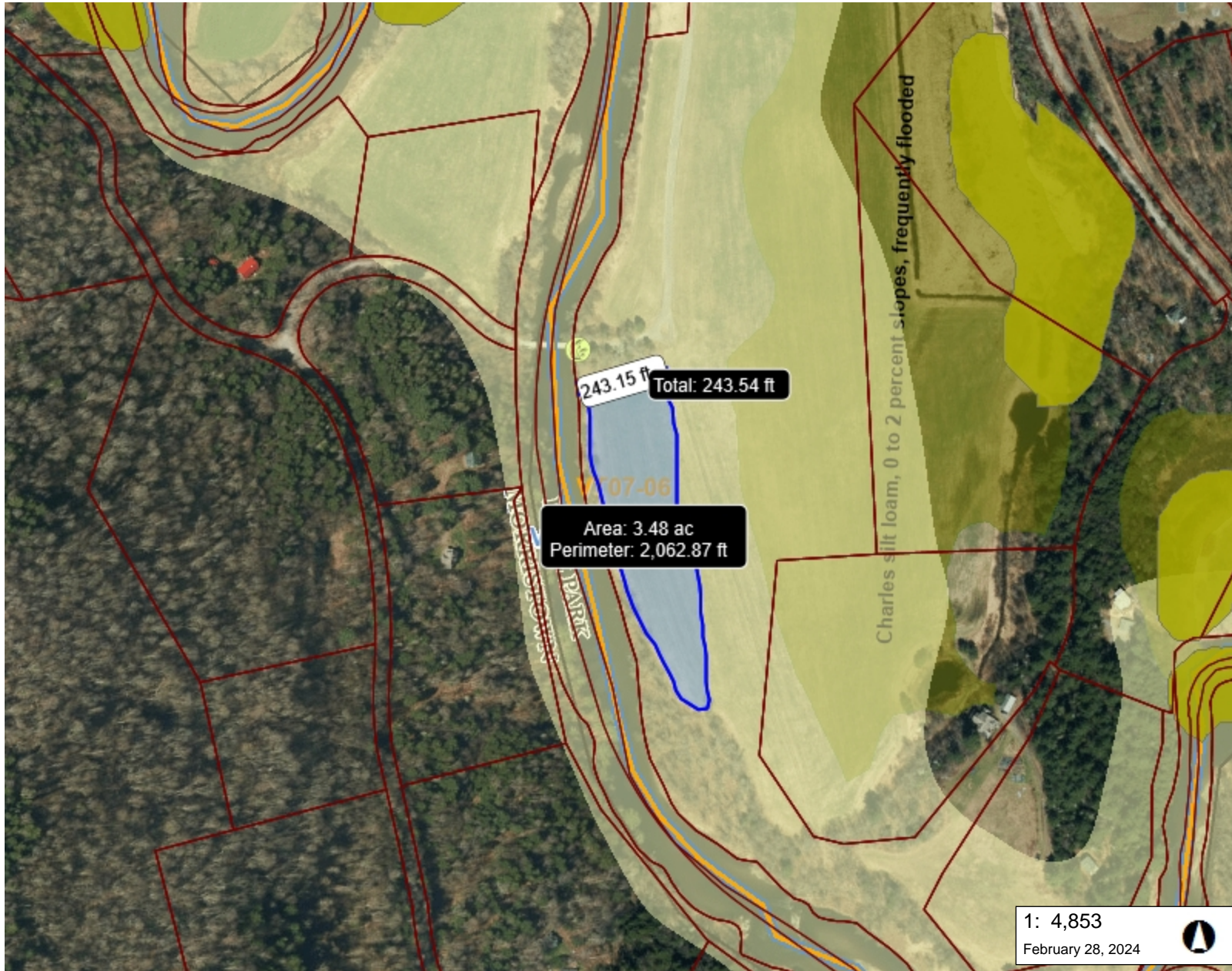
Notes: Volunteers based off 40 people X 6 hrs X \$30/hr

Check: \$19,574.41

Schedule for 10 Bends Tree Planting By Entryway Bridge - Hyde Park

A 3.5-acre buffer zone planting by entrance way bridge to 10 Bends Community in Hyde Park on the main stem of the Lamoille River. This planting will take part over two sessions in May 2024.

1. **Initial Stakeholder Meeting April 2023**
2. **Call For Volunteers April 2023**
3. **Plantings on May 11th and May 25th**
4. **Final Report June 2024**



LEGEND

- Wetland - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
 - Wetland Buffer
- Wetlands Advisory Layer
- River Main Stem Waterbodies
- WBID Watersheds
- Flood Hazard Areas (Only FEM)
 - AE (1-percent annual chance flood)
 - A (1-percent annual chance floodpl.)
 - AO (1-percent annual chance zone feet)
 - 0.2-percent annual chance flood ha
- River Corridors (Aug 27, 2019)
 - .5 - 2 sqmi.
 - .25-.5 sqmi.
- Soils - Hydric
- Parcels (standardized)
- ACT250 Permits
- Town Boundary

1: 4,853
February 28, 2024



NOTES

Map created using ANR's Natural Resources Atlas

247.0 0 124.00 247.0 Meters
 WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 404 Ft. 1cm = 49 Meters
 © Vermont Agency of Natural Resources THIS MAP IS NOT TO BE USED FOR NAVIGATION

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.

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	
<p>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:</p> <p>Minimize anthropogenic nutrient and organic pollution, Minimize flood and fluvial erosion hazards, Protect and restore aquatic and riparian habitats</p>	<p>Protect and restore aquatic and riparian habitats</p>

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:	Riparian Buffer Plantings				
Is the project type an eligible project type for the funding program you are applying to as listed in column B of the CWIP Project Types Table ? (Answer must be YES to proceed)	<table border="0"> <tr> <td style="padding-right: 40px;">Yes</td> <td>No</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </table>	Yes	No	<input checked="" type="radio"/>	<input type="radio"/>
Yes	No				
<input checked="" type="radio"/>	<input type="radio"/>				
Does the project meet the project type definitions and minimum standards as provided in column C of the CWIP Project Types Table ? (Answer must be YES to proceed)	<table border="0"> <tr> <td style="padding-right: 40px;">Yes</td> <td>No</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </table>	Yes	No	<input checked="" type="radio"/>	<input type="radio"/>
Yes	No				
<input checked="" type="radio"/>	<input type="radio"/>				
Will the project result in the standard performance measures, milestones, and deliverables as defined by project type in columns D-F of the CWIP Project Types Table ? (Answer must be YES to proceed)	<table border="0"> <tr> <td style="padding-right: 40px;">Yes</td> <td>No</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </table>	Yes	No	<input checked="" type="radio"/>	<input type="radio"/>
Yes	No				
<input checked="" type="radio"/>	<input type="radio"/>				
Is the project listed as an ineligible project or activity in the CWIP Funding 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)	<table border="0"> <tr> <td style="padding-right: 40px;">Yes</td> <td>No</td> </tr> <tr> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> </table>	Yes	No	<input type="radio"/>	<input checked="" type="radio"/>
Yes	No				
<input type="radio"/>	<input checked="" type="radio"/>				

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

Verify project has been recorded in the [Watershed Project Database](#) (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	11771
Watershed Project Database Project Name	10 Bends Tree Planting By Entryway Bridge - Hyde Park

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. **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.**
 - 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 [ANR Permit Navigator](#) 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 permit?)⁷
 - 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 <input type="radio"/>	No <input checked="" type="radio"/>
If <i>yes</i> , please provide the permit number and list any water resource issues or natural resource issues found ¹⁰ : PermitNumber: _____ ResourceIssues: _____ If <i>yes</i> , use the Water Quality Project Screening Tool to identify the appropriate regulatory contact for an Act 250 consultation. Regulatory Point of Contact Name/Position: _____		
II. Lake and Shoreland		
1. Is the project site located within 250 feet of the mean water	Yes <input type="radio"/>	No <input checked="" type="radio"/>

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 [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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? ¹¹	
<p>If yes, you might need either a Shoreland Protection Act Permit or a Lake Encroachment Permit. Use the Water Quality Project Screening Tool to find the Lakes and Ponds Program contact for your project's region.</p> <p>Regulatory Point of Contact Name/Position:</p>	
III. Rivers, River Corridors, and Flood Hazard Areas	
<p>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.</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>
<p>If yes, you will need to speak with a Floodplain Manager. Use the Water Quality Project Screening Tool to find the Floodplain Manager for your project's region.</p> <p>Regulatory Point of Contact Name/Position: Rebecca Pheiffer Floodplain Manager</p>	
<p>2. Is any portion of the project site within a perennial river or stream channel? ¹³</p>	<p>Yes <input type="radio"/> No <input checked="" type="radio"/></p>
<p>If yes, you will need to speak with a Stream Alteration Engineer. Use the Water Quality Project Screening Tool to find the Stream Alteration Engineer for your project's region.</p> <p>Regulatory Point of Contact Name/Position:</p>	
IV. Wetland	

¹¹ The [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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 [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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."

<p>1. Does the Wetland Screening Tool¹⁴ provide a result of wetlands likely, very likely, or present at the project site?</p>	<p>Yes <input type="radio"/> No <input checked="" type="radio"/></p>
<p>2. Does your project site involve land that is in or near an area that has <u>any</u> of the following characteristics:</p> <ul style="list-style-type: none"> 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, trees with roots growing along the ground surface, swollen trunk bases, or flat root bases when tipped over? o Wetland Soils – soil is dark over gray, gray/blue/green? Is there presence of rusty/red/dark streaks? Soil smells like rotten eggs, feels greasy, mushy or wet? Water fills holes within a few minutes of digging? (See Landowners Guide to Wetlands for additional information on identifying wetlands onsite.) 	<p>Yes <input type="radio"/></p> <p>No <input checked="" type="radio"/></p> <p>Not Sure <input type="radio"/></p>
<p>If you answered <i>yes</i> or <i>not sure</i> to <u>either</u> of the above questions, you will need to contact your District Wetlands Ecologist using the Wetland Inquiry Form. The District Wetlands Ecologist can help determine the approximate locations of wetlands and whether you need to hire a Wetland Consultant to conduct a wetland delineation. Alternatively, if you answered <i>yes</i> or <i>not sure</i> to <u>either</u> of the above questions, you can simply budget for a Wetland Consultant in the proposed scope of work. Any activity within a Class I or II wetland or wetland buffer zone (minimum of 100 feet and 50 feet respectively) which is not exempt or considered an “allowed use” under the Vermont Wetland Rules requires a permit. All permits must go through review and public notice process, which takes at minimum 6 weeks for a General Permit and 5 months for an Individual Permit.</p> <p>Regulatory Point of Contact Name/Position:</p>	
<p>1. Is your project a Wetland Restoration project type?</p>	<p>Yes <input type="radio"/> No <input checked="" type="radio"/></p>
<p>If you answered yes, under the Vermont Wetland Rules you will need an “allowed use” determination from the DEC Wetlands Program. Contact your District Wetlands Ecologist using the Wetland Inquiry Form.</p> <p>Regulatory Point of Contact Name/Position:</p>	
<p>V. Fish and Wildlife</p>	
<p>State law protects endangered and threatened species. No person may take or possess such species without a Threatened & Endangered Species Takings permit.</p> <p>1. 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. George, Sudbury, Sunderland, Vergennes, Waltham, West Haven, Weybridge, Whiting</p>	<p>Yes <input type="radio"/> No <input checked="" type="radio"/></p>

¹⁴ To view the Wetland Screening Tool introduction video, see <https://youtu.be/6lv5en0AB1o>

2. Is the project site within 1 mile of a mapped¹⁵ Significant Natural Community or Rare, Threatened, or Endangered Species?	Yes <input type="radio"/> No <input checked="" type="radio"/>
If yes to either of the above questions, connect with the VT Fish and Wildlife department (everett.marshall@vermont.gov 802-371-7333) to discuss your project and any necessary permitting. Regulatory Point of Contact Name/Position:	
VI. Stormwater	
1. 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 <input type="radio"/> No <input checked="" type="radio"/>
If yes , forward to the appropriate Stormwater specialist to ensure necessary permitting. Use the Water Quality Project Screening Tool to find the Stormwater specialist for your project's region. 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 <input type="radio"/> No <input checked="" type="radio"/>
If yes, connect with the Waste Management & Prevention Division (dennis.fekert@vermont.gov 802-522-0195) to discuss your project and any necessary permitting. Regulatory Point of Contact Name/Position:	
Provide below or attach a narrative summary of Table 4 findings. Please include: <ol style="list-style-type: none"> Which permits or permit amendment are needed or might be needed? What type might be needed? (e.g. a general or individual permit)? What concerns were voiced by permitting staff? How will the proposed scope of work address these concerns? 	
Is the project, as proposed, reasonably considered permit-able by all applicable	Yes <input checked="" type="radio"/> No <input type="radio"/>

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 [licensed solid waste hauler](#) and bring the material to a certified facility.

ANR permitting programs? (Answer must be Yes to continue)	
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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. (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Budget. Project budget includes ineligible expenses. (Answer must be NO to proceed)	Yes <input type="radio"/> No <input checked="" type="radio"/>
Leveraging. Proposed leveraging meets required leveraging levels (if applicable), meets the definition of leveraging, and comes from eligible sources (Answer must be YES or N/A to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/> N/A <input type="radio"/>
Funding Program Specific Eligibility. Project meets additional funding program eligibility requirements*. Please list applicable funding program below: (Answer must be YES to proceed) *If Water Quality Restoration Formula Grant, complete Step 6 below	Yes <input type="radio"/> No <input checked="" type="radio"/>

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	
1. Is the proposed project located on a jurisdictional farm operation ¹⁷ ? Complete a preliminary review to	<input type="radio"/> Yes - Proceed to next question below.

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

<p>determine if it is a jurisdictional farm operation, and any case that requires consultation with AAFM will occur via the farm determination process. Please note this form must be submitted by the farm operation/landowner seeking the determination.</p>	<p><input checked="" type="radio"/> No¹⁸ - There is no additional requirements related to agricultural review for these projects.</p>
<p>2. Is the proposed project an agricultural project?</p> <p>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.</p>	<p><input type="radio"/> Yes - Agricultural Projects on jurisdictional farms are not an eligible project type. You can provide a referral to an applicable state or federal agricultural assistance program, or a local organization.</p> <p><input checked="" type="radio"/> 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 (VAAFAM) to ensure a consistent approach on farms statewide that follows rules, regulations, and laws in place. Please follow Steps 1 & 2 below.</p> <p>Step 1- Please submit a detailed description of the project, project site, project details, landowner, farm operation, and any other relevant information to VAAFAM at AGR.WaterQuality@Vermont.gov .</p> <p>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.</p>
<p>Agricultural Project Review Status & Summary:</p>	
<p>Check as Applicable</p>	<p>Status</p>
<p><input type="checkbox"/></p>	<p>Submitted/ Pending</p>
<p><input type="checkbox"/></p>	<p>Approved</p>
<p><input type="checkbox"/></p>	<p>Denied</p>

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

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.



Lamoille Valley Property Owners Association at Ten Bends

PO Box 53
Hyde Park, VT 05655
board@lvpoatenbends.com

March 6, 2024

Northwest Regional Planning Commission
75 Fairfield Street,
St. Albans, VT 05478

Dear Dean Pierce,

I am writing to provide this letter of support for Lamoille County Conservation District (LCCD) to plant approximately 3.5 acres of trees along the Lamoille River on a section owned by the Lamoille Valley Property Owners Association (LVPOA).

By creating a buffer zone of trees along a river will significantly reduce Phosphorus and sediment runoff, control erosive factors, mitigate flooding damage, restore wildlife and pollinator habitat, and help sequester carbon from the atmosphere.

Sincerely,

Marlaina Hunter
LVPOA Clerk

Note for users: This is the DEC Clean Water Initiative Program (CWIP) Project List. You can zoom and filter.

Project Type	Funding Program	Definition	Performance Measures
Riparian Buffer Planting	Formula, Enhancement (WBBG)	Planting of native woody trees and shrubs within buffer area of rivers/streams, wetlands, and/or lakes. Planting results in a minimum average buffer width of 35-feet and a minimum density of 300 stems per acre. Buffer supports restoration of river corridor/floodplain, wetland and/or lakeshore, filters nutrient and sediment pollution from runoff, and provides habitat benefits. Includes riparian plantings on agricultural lands. Work includes site identification, planting plan development, materials sourcing, site preparation, and planting installation. Sites will be selected for their benefits to water quality and must meet approval of the State (local DEC River Scientist and Basin Planner). Sites will be stable, proximate to water, and high-priority. Permit(s), access license(s)/easement(s), and operation and maintenance plan(s) are in place prior to planting.	Acres of riparian corridor buffer planted/restored Linear feet of riparian corridor buffer planted/restored

Project Types Table. It is an associated appendix within the CWIP Funding Policy for features. The most current CWIP Funding Policy is available here: <https://www.dec.ny.gov/programs/cwip/>

Milestones
Project initiated; proposal/bid solicitations issued and contractor selected (if applicable)
Sites and constraints identified, DEC River Scientist and Basin Planner approval secured
Developed planting plan (including species type, number, and estimated cost) in accordance with SGA or River Corridor Planning recommendations (if available)
10-year (minimum) DEC Operation and Maintenance (O&M) Plan drafted and signed; refer to O&M manual for guidance
10-year (minimum) access license or easement (if applicable) drafted and signed by landowner; refer to DEC template for guidance
Clean Water Project Sign installed during construction if the project is considered publicly visible.
Site preparation activities (if applicable)
Buffer restoration planting completed
Return of Clean Water Project sign to host site (if applicable)
Project complete

Policy. Bolded items are further described within Appendix C of the Funding Policy. Cells are locked but you
://dec.vermont.gov/water-investment/cwi/grants/resources

Deliverables
<p>Photo(s) of site(s) pre-implementation</p> <p>Signed 10-year (minimum) DEC Operation and Maintenance Plan and Agreement, including map of location of planting and final planting plan (species list and counts).</p> <p>Signed 10-year (minimum) access license or easement</p> <p>Photo(s) of site(s) post-implementation, including photo of Clean Water Project Sign (if applicable)</p> <p>Media announcement</p> <p>Final Performance Report or ANR Online Clean Water Project - Project Closeout Form (once available)</p>

... can use the

Step/Phase
Implementation

Application for Project 11772

Basic Eligibility	Yes
Applicant Name	Alberto Della Torre
Applicant Organization	Lamoille County Planning Commission
Applicant Email	alberto@lpcvt.org
Applicant telephone	+1 (586) 457-7270
Project ID from WPD	11772
Description of Project	The Vermont Studio Center (VSC) is removing a campus building and is looking to restore natural floodplain conditions along the banks of the Gihon River. This would entail removing existing fill and riprap as well as reducing the gradient of the current riverbank. This project would slow the velocity of the river and provide more water storage for future flooding. The programming on the site of the former building is planned to be a native pollinator plant garden and educational pathway.
Project Latitude	44.6364
Project Longitude	-77.67876
Project Phase	Preliminary Design
Annual P Reduction KG	5.82
Any one time P reduction KG	24.2
Total Cost of Proposed Phase	\$35,782.14
Amount of funding requested (Proposed Phase)	\$35,782.14
Matching Funds Available	0, Implementation phase may require several sources of funding. Preliminary Design will only utilize DEC Funding.
Total Project Costs (All Phases)	less than \$200,000
Design Life	Perpetual
Adjusted Design Life	
Estimated Annual O&M cost total	\$2500-\$5500
Conformance with Tactical Basin Plan TBP	5
Number of Co-benefit Areas	6
DEC Screening Form Uploaded	Yes
Map of Project Area Uploaded	Yes
Project Budget Uploaded	Yes
Project Schedule Uploaded	Yes
Landowner Support uploaded	Yes
Phosphorus Calculator Tool uploaded	Yes
Created	03/14/24 7:28 AM

Floodplain and Stream Restoration Estimated Phosphorus Reduction Calculator

kg of TP = Stream Stability P Reduction + Storage P Reduction

Stream Stability P Reduction = project type and basin P reduction factor (lb/acre/yr) * acres * kg per lb

Storage P Reduction = pre- to post- restoration change in connectivity factor (lb/acre/yr) * acres * kg per lb * 50% after year 1

Variable	Value	Unit	Notes
Unit conversion	0.454	lb to kg	Not all floodplain and stream restoration projects receive a storage P reduction credit. If a project does not effectively change the ability of a stream or river to access a floodplain, select matching floodplain connectivity ranking for pre- and post- restoration (ex: floodplain connectivity pre-restoration = low, floodplain connectivity post-restoration = low). For more detail on phosphorus credit allocations by project type, please refer to the Standard Operating Procedures for Tracking & Accounting of Natural Resources Restoration Projects available on the VT DEC website.
Consecutive year storage p reduction	50%	of year 1	The Functioning Floodplains Initiative (FFI) web application (coming soon) is equipped to generate the most accurate estimation of phosphorus reduction achieved through a floodplain or stream restoration project based on more detailed project specifications, and will ultimately be used for phosphorus accounting purposes by VT DEC. This tool was developed as an interim solution to provide high level estimation of potential phosphorus reductions and can be used to help compare potential project outcomes to inform prioritization. Phosphorus reductions calculated in the interim tool are based on FFI project simulations by project type and watershed. This interim tool cannot be used to accurately account for stacked practices (i.e. multiple project types implemented in a single location) however, the FFI tool will allow for calculation of estimated phosphorus reduction resulting from implementation of multiple project components, such as a river corridor easement layered on a floodplain restoration and buffer planting.

When making a selection, please ensure that the project meets the definition and criteria for the selected project type as outlined in the Standard Operating Procedures for Tracking & Accounting of Natural Resource Restoration Projects.

Applies only to project type: replace culverts - undersized with shallow slope

Use the phosphorus reduction estimate *after year 1* for the cost effectiveness calculator.

Input*	Dropdown*	Dropdown*	Input Value*	Input Value	Dropdown*	Dropdown*	Output value	Output value	Output value	Output value	Output value
Project Identifier	Basin	Project Type	Acres Restored	Number of Culverts Replaced (if applicable)	Floodplain Connectivity Pre-Restoration	Floodplain Connectivity Post-Restoration	Stream Stability P reduction (lb/yr)	Year 1 Storage P Reduction (lb)	Consecutive Year Storage P Reduction (lb/yr)	Estimated Year 1 P Reduction (kg)	Estimated Annual P Reduction After Year 1 (kg/yr)
Test1	Winooski	Remove hard constraint	4.50		Low	High	9.45	90.00	45.00	45.11	24.70
VSC Floodplain Restoration	Lamoille	Floodplain Restoration with Buffer Revegetation and Easement	1.21	0.00	Low	High	0.73	24.20	12.10	11.31	5.82

Vermont Studio Center Floodplain Restoration
 Concept Design
 Gihon River, Johnson, Vermont
 3/7/2024



		Personnel	JL	DO				
		Project Role	Project Manager	Project Engineer	Total Hours	SLR Personnel	Subs/Travel	Fee
		VT Preferred Rates and others	\$190	\$170				
1.0	Data Collection and Mapping							
1.1	Site visit kickoff meeting with project team and landowners		3	3	6	\$1,080	\$35	\$1,115
1.2	Supplemental survey sections and profile		4	4	8	\$1,440	\$2,000	\$3,440
1.3	Review resource and utility constraints		2	2	4	\$720		\$720
1.4	Archeology ARA (if needed)		4		4	\$760	\$4,000	\$4,760
1.5	Update existing CAD basemapping		6	16	22	\$3,860		\$3,860
	Sub-Total >		19	25	44	\$ 7,860	\$ 6,035	\$13,895
2.0	Engineering Concept (30%) Design							
2.1	Hydraulic modeling, short section of Gihon with survey sections and LIDAR		2	8	10	\$1,740		\$1,740
2.2	Evaluate alternatives and preferred recommendation		2	6	8	\$1,400		\$1,400
2.3	Phosphorus reduction and water quality benefits		2	2	4	\$720		\$720
2.4	Permit evaluation		4	4	8	\$1,440		\$1,440
2.5	Site meeting with project team - confirm design and permit needs		2	2	4	\$720	\$35	\$755
2.6	Draft concept design plans		4	24	28	\$4,840		\$4,840
2.7	Cost opinion, long-term maintenance plan		2	4	6	\$1,060		\$1,060
2.8	Review plans with project team and 1 round of edits		4	6	10	\$1,780		\$1,780
	Sub-Total >		22	56	78	\$13,700	\$35	\$13,735
3.0	Project Completion							
3.1	Implementation plan / project memo		2	4	6	\$1,060		\$1,060
3.2	VSC Board meeting		4		4	\$760	\$35	\$795
3.3	Assist grant and project closeout		3		3	\$570		\$570
	Sub-Total >		9	4	13	\$ 2,390	\$ 35	\$2,425
	TOTAL		50	85	135	\$23,950	\$6,105	\$30,055

Project Schedule

Preliminary Design (30%)- Vermont Studio Center Floodplain Restoration

Please see below a proposed project schedule for the preliminary design phase based on anticipated milestones. This schedule is subject to change based on when this project receives funding.

Milestone	Milestone Completion Timeline
RFP issued and contractor selected	June 1 st , 2024
Identified site/design considerations and permitting needs; prepermitting meeting	October 1 st , 2024
30% design complete	January 1 st , 2025
Final reporting/Invoicing submitted and project complete	March 1 st , 2025



LEGEND

- Wetland - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
 - Wetland Buffer
- Wetlands Advisory Layer
- River Main Stem Waterbodies
- WBID Watersheds
- Flood Hazard Areas (Only FEM)
 - AE (1-percent annual chance flood)
 - A (1-percent annual chance floodpl.)
 - AO (1-percent annual chance zone feet)
 - 0.2-percent annual chance flood ha
- River Corridors (Aug 27, 2019)
 - .5 - 2 sqmi.
 - .25-.5 sqmi.
- Soils - Hydric
- Parcels (standardized)
- ACT250 Permits
- Town Boundary

1: 2,724
March 7, 2024

NOTES

Map created using ANR's Natural Resources Atlas

138.0 0 69.00 138.0 Meters
 WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 227 Ft. 1cm = 27 Meters
 © Vermont Agency of Natural Resources THIS MAP IS NOT TO BE USED FOR NAVIGATION

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.

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: Each Objective	Multiple <input type="button" value="v"/>

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:	None (not eligible for CWIP funding)
Is the project type an eligible project type for the funding program you are applying to as listed in column B of the CWIP Project Types Table ? (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Does the project meet the project type definitions and minimum standards as provided in column C of the CWIP Project Types Table ? (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Will the project result in the standard performance measures, milestones, and deliverables as defined by project type in columns D-F of the CWIP Project Types Table ? (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Is the project listed as an ineligible project or activity in the CWIP Funding 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)	Yes <input type="radio"/> No <input checked="" type="radio"/>

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

Verify project has been recorded in the [Watershed Project Database](#) (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	11772
Watershed Project Database Project Name	Vermont Studio Center Floodplain Restoration

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. **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.**
 - 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 [ANR Permit Navigator](#) 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 permit?)⁷
 - 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 <input checked="" type="radio"/>	No <input type="radio"/>
If yes , please provide the permit number and list any water resource issues or natural resource issues found ¹⁰ : PermitNumber: 5L0814-16 ResourceIssues: n/a		
If yes , use the Water Quality Project Screening Tool to identify the appropriate regulatory contact for an Act 250 consultation. Regulatory Point of Contact Name/Position: Susan Baird		
II. Lake and Shoreland		
1. Is the project site located within 250 feet of the mean water	Yes <input type="radio"/>	No <input checked="" type="radio"/>

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 [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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? ¹¹	
<p>If yes, you might need either a Shoreland Protection Act Permit or a Lake Encroachment Permit. Use the Water Quality Project Screening Tool to find the Lakes and Ponds Program contact for your project's region.</p> <p>Regulatory Point of Contact Name/Position:</p>	
III. Rivers, River Corridors, and Flood Hazard Areas	
<p>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.</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>
<p>If yes, you will need to speak with a Floodplain Manager. Use the Water Quality Project Screening Tool to find the Floodplain Manager for your project's region.</p> <p>Regulatory Point of Contact Name/Position: Rebecca Pfeiffer</p>	
<p>2. Is any portion of the project site within a perennial river or stream channel? ¹³</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>
<p>If yes, you will need to speak with a Stream Alteration Engineer. Use the Water Quality Project Screening Tool to find the Stream Alteration Engineer for your project's region.</p> <p>Regulatory Point of Contact Name/Position: Chris Brunelle</p>	
IV. Wetland	

¹¹ The [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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 [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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."

<p>1. Does the Wetland Screening Tool¹⁴ provide a result of wetlands likely, very likely, or present at the project site?</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>
<p>2. Does your project site involve land that is in or near an area that has <u>any</u> of the following characteristics:</p> <ul style="list-style-type: none"> 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, trees with roots growing along the ground surface, swollen trunk bases, or flat root bases when tipped over? o Wetland Soils – soil is dark over gray, gray/blue/green? Is there presence of rusty/red/dark streaks? Soil smells like rotten eggs, feels greasy, mushy or wet? Water fills holes within a few minutes of digging? (See Landowners Guide to Wetlands for additional information on identifying wetlands onsite.) 	<p>Yes <input type="radio"/></p> <p>No <input type="radio"/></p> <p>Not Sure <input checked="" type="radio"/></p>
<p>If you answered <i>yes</i> or <i>not sure</i> to <u>either</u> of the above questions, you will need to contact your District Wetlands Ecologist using the Wetland Inquiry Form. The District Wetlands Ecologist can help determine the approximate locations of wetlands and whether you need to hire a Wetland Consultant to conduct a wetland delineation. Alternatively, if you answered <i>yes</i> or <i>not sure</i> to <u>either</u> of the above questions, you can simply budget for a Wetland Consultant in the proposed scope of work. Any activity within a Class I or II wetland or wetland buffer zone (minimum of 100 feet and 50 feet respectively) which is not exempt or considered an “allowed use” under the Vermont Wetland Rules requires a permit. All permits must go through review and public notice process, which takes at minimum 6 weeks for a General Permit and 5 months for an Individual Permit.</p> <p>Regulatory Point of Contact Name/Position: Shannon Morrison</p>	
<p>1. Is your project a Wetland Restoration project type?</p>	<p>Yes <input type="radio"/> No <input checked="" type="radio"/></p>
<p>If you answered yes, under the Vermont Wetland Rules you will need an “allowed use” determination from the DEC Wetlands Program. Contact your District Wetlands Ecologist using the Wetland Inquiry Form.</p> <p>Regulatory Point of Contact Name/Position:</p>	
<p>V. Fish and Wildlife</p>	
<p>State law protects endangered and threatened species. No person may take or possess such species without a Threatened & Endangered Species Takings permit.</p> <p>1. 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. George, Sudbury, Sunderland, Vergennes, Waltham, West Haven, Weybridge, Whiting</p>	<p>Yes <input type="radio"/> No <input checked="" type="radio"/></p>

¹⁴ To view the Wetland Screening Tool introduction video, see <https://youtu.be/6lv5en0AB1o>

2. Is the project site within 1 mile of a mapped¹⁵ Significant Natural Community or Rare, Threatened, or Endangered Species?	Yes <input checked="" type="radio"/> No <input type="radio"/>
If yes to either of the above questions, connect with the VT Fish and Wildlife department (everett.marshall@vermont.gov 802-371-7333) to discuss your project and any necessary permitting. Regulatory Point of Contact Name/Position: Everett Marshall	
VI. Stormwater	
1. 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 <input type="radio"/> No <input checked="" type="radio"/>
If yes , forward to the appropriate Stormwater specialist to ensure necessary permitting. Use the Water Quality Project Screening Tool to find the Stormwater specialist for your project's region. 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 <input type="radio"/> No <input checked="" type="radio"/>
If yes, connect with the Waste Management & Prevention Division (dennis.fekert@vermont.gov 802-522-0195) to discuss your project and any necessary permitting. Regulatory Point of Contact Name/Position:	
Provide below or attach a narrative summary of Table 4 findings. Please include: <ol style="list-style-type: none"> Which permits or permit amendment are needed or might be needed? What type might be needed? (e.g. a general or individual permit)? What concerns were voiced by permitting staff? How will the proposed scope of work address these concerns? A wetland permit is the only permit possibly needed. The proposed scope of the plan will restore the project area to a more natural state that improves wetland conditions.	
Is the project, as proposed, reasonably considered permit-able by all applicable	Yes <input checked="" type="radio"/> No <input type="radio"/>

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 [licensed solid waste hauler](#) 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. (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Budget. Project budget includes ineligible expenses. (Answer must be NO to proceed)	Yes <input type="radio"/> No <input checked="" type="radio"/>
Leveraging. Proposed leveraging meets required leveraging levels (if applicable), meets the definition of leveraging, and comes from eligible sources (Answer must be YES or N/A to proceed)	Yes <input type="radio"/> No <input type="radio"/> N/A <input checked="" type="radio"/>
Funding Program Specific Eligibility. Project meets additional funding program eligibility requirements*. Please list applicable funding program below: (Answer must be YES to proceed) *If Water Quality Restoration Formula Grant, complete Step 6 below	Yes <input checked="" type="radio"/> No <input type="radio"/>

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	
1. Is the proposed project located on a jurisdictional farm operation ¹⁷ ? Complete a preliminary review to	<input type="radio"/> Yes - Proceed to next question below.

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

<p>determine if it is a jurisdictional farm operation, and any case that requires consultation with AAFM will occur via the farm determination process. Please note this form must be submitted by the farm operation/landowner seeking the determination.</p>	<p><input checked="" type="radio"/> No¹⁸ - There is no additional requirements related to agricultural review for these projects.</p>
<p>2. Is the proposed project an agricultural project?</p> <p>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.</p>	<p><input type="radio"/> Yes - Agricultural Projects on jurisdictional farms are not an eligible project type. You can provide a referral to an applicable state or federal agricultural assistance program, or a local organization.</p> <p><input checked="" type="radio"/> 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 (VAAFAM) to ensure a consistent approach on farms statewide that follows rules, regulations, and laws in place. Please follow Steps 1 & 2 below.</p> <p>Step 1- Please submit a detailed description of the project, project site, project details, landowner, farm operation, and any other relevant information to VAAFAM at AGR.WaterQuality@Vermont.gov .</p> <p>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.</p>
<p>Agricultural Project Review Status & Summary:</p>	
<p>Check as Applicable</p>	<p>Status</p>
<p><input type="checkbox"/></p>	<p>Submitted/ Pending</p>
<p><input type="checkbox"/></p>	<p>Approved</p>
<p><input type="checkbox"/></p>	<p>Denied</p>

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

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.



March 6, 2024

Clean Water Service Provider Network
Agency of Natural Resources
Dept of Environmental Conservation- Water Investment Division
Davis Building - 3rd Floor
One National Life Drive
Montpelier, VT 05620-3510

Board of Trustees

Kate Rebernak, *Interim Chair*
Sarah Lutz, *Interim Vice Chair*
Susan Newbold, *Interim Secretary*
Leslie Fishman, *Treasurer*
Willard Boepple
Deborah Clearman
Howard el-Yasin
Melinda Hackett
Musa Mayer
Laura Watt
Jo Weiss

Executive Director
Hope Sullivan

To Whom It May Concern:

The Vermont Studio Center is pleased to partner with the Lamoille County Planning Commission on a flood plan restoration project on our property at 113 Pearl Street along the Gihon River in the historic village of Johnson.

Following the Flooding of July 2023, the restoration plan includes a pathway from the Pearl Street Bridge along the Gihon River to the town arboretum which then feeds into the Lamoille Rail Trail. This pathway would be open to the public upon completion and a public garden full of pollinator-friendly indigenous Vermont plants will be planted along the pathway and river.

With gratitude,

Hope Sullivan
Executive Director

Contact Us

80 Pearl Street
PO Box 613
Johnson, VT 05656
802-635-2727 x234
development@vermont
studiocenter.org

The Vermont Studio Center (EIN# 22-2478074) is a non-profit corporation and is recognized as a tax-exempt organization under Section 501(c)3 of the Internal Revenue Code.

Note for users: This is the DEC Clean Water Initiative Program (CWIP) Project List. You can zoom and filter.

Project Type	Funding Program	Definition	Performance Measures
Floodplain/Stream Restoration - Preliminary Engineering Design	Formula, Enhancement (EDDIBG), DIBG (old)	Preliminary design of high priority stream/river and floodplain restoration projects to restore the stream/river to least erosive condition (i.e., equilibrium condition) and improve habitat. Restoration work includes channel/floodplain modification to improve equilibrium dimensions/connections OR removal/retrofit of river corridor/floodplain encroachments or instream structures. Work must result in at least 30% design of project.	Number of preliminary (30%) designs completed

Project Types Table. It is an associated appendix within the CWIP Funding Policy for features. The most current CWIP Funding Policy is available here: <https://www.dec.ny.gov/finance/13547>

Milestones
Project initiated; proposal/bid solicitations issued and contractor selected (if applicable)
Conceptual site plan drafted
Stakeholder meetings
DEC Programmatic Staff Engagement
Other permit-required assessments or plans completed (if applicable)
Preliminary (30%) design complete
Preliminary VDHP Project Review
Project complete

Policy. Bolded items are further described within Appendix C of the Funding Policy. Cells are locked but you
://dec.vermont.gov/water-investment/cwi/grants/resources

Deliverables
DEC programmatic staff comments on design Signed VDHP Project Review Form Preliminary Design Report Media announcement Final Performance Report or ANR Online Clean Water Project - Project Closeout Form (once available) Batch Import File or ANR Online Clean Water Project - New Project Form (once available)

can use the

Step/Phase
Preliminary Design

Application for Project 11774

Basic Eligibility	Yes
Applicant Name	Peter Danforth
Applicant Organization	Lamoille County Conservation District
Applicant Email	lccddirector@gmail.com
Applicant telephone	+1 (631) 495-9093
Project ID from WPD	11774
Description of Project	Implement Strategic Wood Addition which will restore floodplain connectivity and phosphorus retention in 2.84 miles of upland stream. The targeted streams drain a total catchment area of 342 hectares and flow north and east to Little Elmore Pond and Elmore Pond Brook. Much of this land is state-listed Northern hardwood forest. Targeted streams are identified as having minimal accumulation of natural coarse wood material (4"x6' or larger pieces), and are of adequate channelization, slope, water depth, bank full width, and tree-cover to benefit from strategic wood addition. Manual installation of a minimum of 1,566 cubic ft of wood within the channel will restore these streams' vertical floodplain connectivity and retention of fine sediments. Through combined outcomes of floodplain storage, faster uptake by streambed organisms, and adsorption to retain fine inorganic matter, total phosphorus reduction is an estimated 11.19 kg/yr for a 100+ year lifespan.
Project Latitude	44.51491
Project Longitude	-72.52682
Project Phase	Implementation
Annual P Reduction KG	11.19 kg/yr
Any one time P reduction KG	
Total Cost of Proposed Phase	\$104,973.06
Amount of funding requested (Proposed Phase)	\$104,973.06
Matching Funds Available	NA
Total Project Costs (All Phases)	108,145.66
Design Life	30
Adjusted Design Life	
Estimated Annual O&M cost total	\$2,000.00
Conformance with Tactical Basin Plan TBP	5
Number of Co-benefit Areas	4
DEC Screening Form Uploaded	Yes
Map of Project Area Uploaded	Yes
Project Budget Uploaded	Yes
Project Schedule Uploaded	Yes
Landowner Support uploaded	Yes
Phosphorus Calculator Tool uploaded	Yes
Created	03/14/24 7:35 AM

Functioning Floodplain Initiative Calculations for Rocky Woods Strategic Wood Additions Implementation

Overview: Field work to inform this Final Design stage data on planned phosphorous reductions from the project titled “Rocky Woods Strategic Wood Additions, Implementation” was conducted on March 4, 2024. The data presented here builds off of Preliminary Design stage data collected in February 2023, which focused on overall reach suitability for wood additions with assessments of bank full width, start and end points along each stream, riparian forest cover, and existing quantities of wood in the streams.

Final Design field work was focused on precise determination of adjacent and feasibly accessible floodplain along each targeted stream. Adjacent floodplain was considered for re-connection if it was at a greater than 5-year flood stage elevation, but was low enough to be re-captured by wood structures that are feasible to construct with the riparian trees in the immediate area.

Data collection plots for these Final Design Phase calculations were taken at consistent ~100 ft intervals along each stream, similarly to how implementation is carried out. Georeferenced measurements at each point were taken using Avenza maps and Arc FieldMaps, and consisted of the following:

Stream Name:

Floodplain connection feasible: (No, Yes, or adjacent floodplain already connected)

Morphological Class: (“low-gradient floodplain <5%”, “high gradient floodplain >5%”, “steep-sided gully”, or “rock outcrops dominant”)

Bank-full depth: Measured with metal tape measured at multiple points within immediate area

Floodplain elevation: Measured with metal tape to lowest immediate downstream abandoned floodplain terrace.

Predicted structure height: Estimated from adjacent tree cover

Predicted strainer: (“yes”/“no”) Estimated from implementation experience and perceived need for additional structure height.

Area of feasible floodplain reconnection: Measured using Avenza

Measurements were averaged by reach or by group of reaches and applied to the nearest downstream river sub-corridor unit on the FFI-Tool.

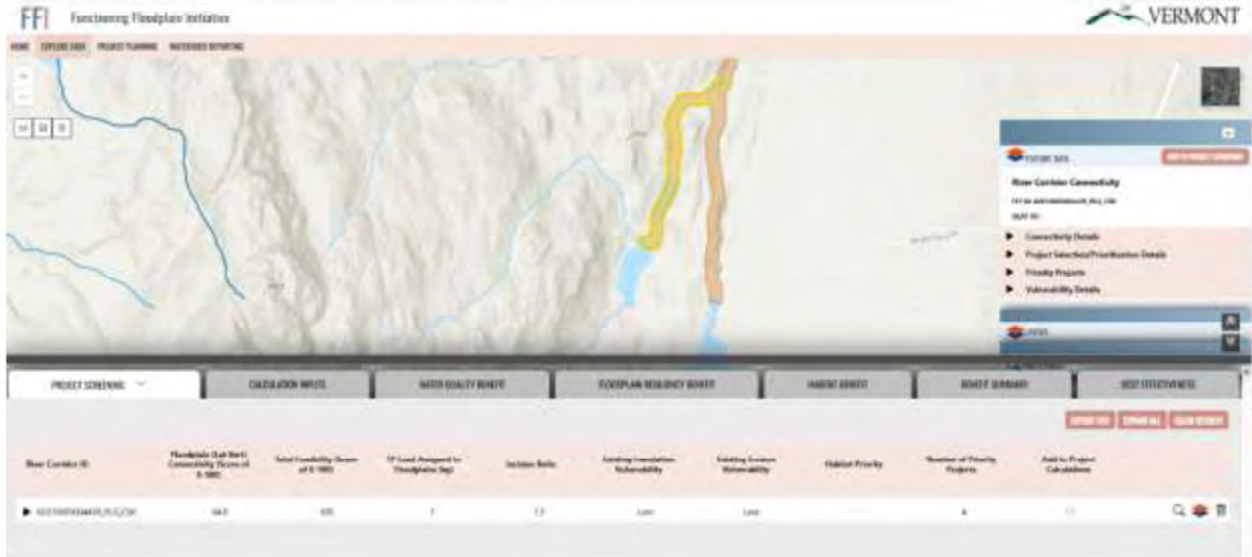
Project Totals:

- Total length of streams planned for SWA Restoration: **2.75 miles**
- Average distance per Final Design data point: **87 ft**
- Planned area of floodplain connectivity: **2.31 acres**
- Total p-reduction (15-yr lifespan): **167.8 kg**
- Total annual p-reduction: **11.19 kg**

Little Elmore Pond Tribs 1 and 2 , Elmore Pond Brook Trib 7 → **135_R1951.10_PHG_C00**

Total area of planned floodplain connectivity: 0.43 acres

Total p-reduction (15 yr lifespan): 31.2 kg



FFI Functioning Floodplain Initiative

VERMONT

Map Details: 01000 02000 03000 04000 05000 06000 07000

Map Coordinates: 44° 18' 00" N 73° 00' 00" W

Map Layers:

- Community Boundary
- Project Subarea/Project/Project Details
- Priority Projects
- Stream/Channel Network

Only Proposed Information for Potential Stream Stability Projects Below

Proposed Community Subarea Work and Storage Credit

Proposed Stream Condition and Storage Projects:

- Stream Channel Stone
- Bank Protection
- Bank Top Control
- Streambed Stone/Log
- WGL Natural Bank
- Stream Channel Program and Bank

- Stream Bank Condition
- Stream Bank Control System
- Stream Bank Control
- Stream Bank Control
- Stream Bank Control
- Stream Bank Control
- Stream Bank Control
- Stream Bank Control
- Stream Bank Control

- Stream Bank
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- Stream Bank

Stream Condition ID	Stream Category	US F Register Area (sq-ft)	Existing Project Area	Proposed Stream Condition	Proposed Storage Area (sq-ft)	Proposed Storage Volume (cu-ft)	Proposed Project Score	Proposed Project Rating	Proposed Project Status
44700000417_PUL_C20	Storage	327	327	14	327	0	12	12	12

FFI Functioning Floodplain Initiative

VERMONT

Map Details: 01000 02000 03000 04000 05000 06000 07000

Map Coordinates: 44° 18' 00" N 73° 00' 00" W

Map Layers:

- Community Boundary
- Project Subarea/Project/Project Details
- Priority Projects
- Stream/Channel Network

Only Proposed Information for Potential Stream Stability Projects Below

Proposed Community Subarea Work and Storage Credit

Proposed Stream Condition and Storage Projects:

- Stream Channel Stone
- Bank Protection
- Bank Top Control
- Streambed Stone/Log
- WGL Natural Bank
- Stream Channel Program and Bank

- Stream Bank Condition
- Stream Bank Control System
- Stream Bank Control
- Stream Bank Control
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Stream Condition ID	Stream Category	US F Register Area (sq-ft)	Existing Project Area	Proposed Stream Condition	Proposed Storage Area (sq-ft)	Proposed Storage Volume (cu-ft)	Proposed Project Score
44700000417_PUL_C20	Storage	14	14	0	14	0	12

FFI Functioning Floodplain Initiative

VERMONT

Map Details: 01000 02000 03000 04000 05000 06000 07000

Map Coordinates: 44° 18' 00" N 73° 00' 00" W

Map Layers:

- Community Boundary
- Project Subarea/Project/Project Details
- Priority Projects
- Stream/Channel Network

Estimated Physiological Credit for Stream Stability and Storage

Subarea ID: 44700000417_PUL_C20
 Town: LAMOILLE
 Project Subarea: Stream Channel Storage and Wood
 Stream Name:
 Project Area Score: 0.22

Stream Stability and Stream Credit Summary

	Year 1 Credit (sq-ft)	Year 2+ Credit (sq-ft)	Adjusted 15 to 10-Year Credit (sq-ft)
Physiologic Community Subarea - Vertical			
Stream Stability	14	14	14
Storage	24	24	14
Stream Community Longitudinal - Storage			
Stream Stability	14	14	14
Storage	24	24	14

Stream Stability Credit and Community Details

Stream Condition ID	Project Community Credit Score	Existing Stream Segment Community Score	Proposed Longitudinal Credit Score	Proposed Vertical Credit Score	Proposed Subarea Physiologic Community Credit (sq-ft)	Adjusted P Reduction Credit (sq-ft)	Total P Reduction Credit (sq-ft)	Total Stream Community P Credit (sq-ft)
44700000417_PUL_C20	0.1	0	0	0	38.1	0	0	0

Stream Community Subarea/Project Details

Stream ID	Project Community Credit Score	Existing Stream Segment Community Score	Proposed Longitudinal Credit Score	Proposed Vertical Credit Score	Proposed Subarea Physiologic Community Credit (sq-ft)	Adjusted P Reduction Credit (sq-ft)	Total Stream Community P Credit (sq-ft)
-----------	--------------------------------	---	------------------------------------	--------------------------------	---	-------------------------------------	---

FFI Finalizing Floodplain Initiative

VERMONT

Project Overview | LOCATION MAP | WORK QUALITY MAP | SUBMITTING PROJECT MAP | MAPS MAP | MAPS SUMMARY | GET SUPPORT

View Program Information for Floodplain Stream Stability Projects

Floodplain Connectivity Control Method and Storage Credit

Proposed Stream Control and Floodplain Projects

- Stream Channel Deepening
- Bank Stabilization
- Streambank Erosion Control
- Artificial Floodplain
- Artificial Flood Channel
- Artificial Flood Storage
- Stream Channel Deepening and Bank Stabilization

Stream Channel Deepening

Stream Bank Stabilization

Artificial Flood Channel

Artificial Flood Storage

Stream Channel Deepening and Bank Stabilization

Stream Channel Deepening

Stream Bank Stabilization

Artificial Flood Channel

Artificial Flood Storage

Stream Channel Deepening and Bank Stabilization

FFI Finalizing Floodplain Initiative

VERMONT

Project Overview | LOCATION MAP | WORK QUALITY MAP | SUBMITTING PROJECT MAP | MAPS MAP | MAPS SUMMARY | GET SUPPORT

Estimated Phosphorus Credit for Stream Stability and Storage

Submitted On: 10/2/2021 11:49:00 AM
 Name: 014078
 Projects Included: Stream Channel Deepening and Bank Stabilization
 Stream Status: /
 Project Area (Acres): 2.2

Stream Stability and Storage Credit Estimate

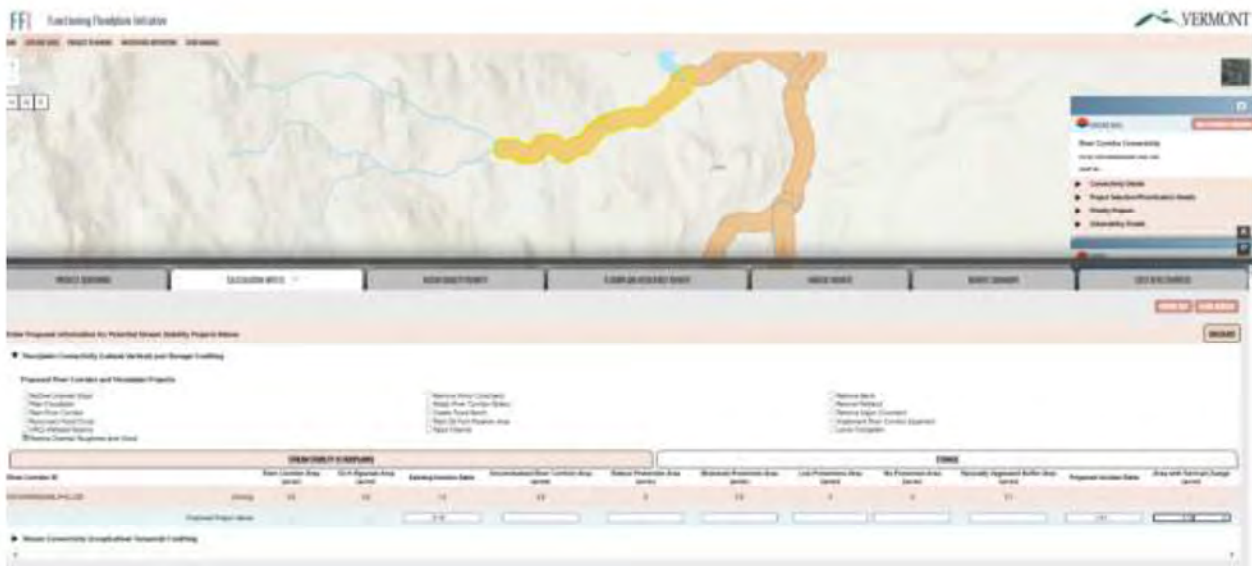
	Year 1 Credit (kg)	Year 2+ Credit (kg/yr)	Estimated 15 Yr Phosphorus Credit (kg)
Floodplain Connectivity Control - Nonpoint			
Stream Stability	0.0	0.0	0.0
Storage	4.0	2.0	10.0
Stream Connectivity Strengthened - Point			
Stream Stability	0.0	0.0	0.0
Storage	4.0	2.0	10.0

Stream Stability Credit and Connectivity Details

Elmore Pond Brook Tribs 3, 4, and 5 → 02010005004408_PHG_C00

Total area of planned floodplain connectivity: 1.14 acres

Total p-reduction (15 yr lifespan): 82.8 kg





Home | Settings | My Account | My Projects | My Alerts | My Favorites | My Lists | My Maps | My Reports

Enter Project Information for Potential Stream Stability Project below

Potential Community & Local Wetland and Storage Feasibility

Potential Stream
 Potential Wetland
 Potential Storage
 Potential Floodplain
 Potential Riparian
 Potential Wetland
 Potential Storage
 Potential Floodplain
 Potential Riparian

Stream Bank
 Stream Channel
 Stream Floodplain
 Stream Riparian
 Stream Wetland
 Stream Storage
 Stream Floodplain
 Stream Riparian

Stream Name: Stream ID: Stream Type: Stream Length:

Potential Community & Local Wetland and Storage Feasibility



Home | Settings | My Account | My Projects | My Alerts | My Favorites | My Lists | My Reports

Estimated Phosphorus Credit for Stream Stability and Storage

Stream ID: Stream Name: Stream Length: Stream Type: Stream Status:

	Year 1 Credit (kg)	Year 2 Credit (kg)	Estimated P _T (kg/yr) Credit (kg)
Potential Community & Local Wetland			
Stream Stability	0.0	0.0	0.0
Storage	0.0	0.0	0.0
Stream Community & Local Wetland - Response			
Stream Stability	0.0	0.0	0.0
Storage	0.0	0.0	0.0

Stream Stability and Storage Feasibility

Stream ID	Project Community Credit Score	Stream Stability Credit Score	Stream Storage Credit Score	Stream Projected Wetland Credit Score	Stream Projected Floodplain Credit Score	Stream Projected Riparian Credit Score	Stream Projected Wetland Credit Score	Stream Projected Floodplain Credit Score	Stream Projected Riparian Credit Score	Stream Projected Wetland Credit Score	Stream Projected Floodplain Credit Score	Stream Projected Riparian Credit Score
00000000000000000000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Stream Community & Local Wetland Feasibility

Elmore Pond Brook Trib 6 → 02010005004373_PLG_C00

Total area of planned floodplain connectivity: 0.25 acres

Total p-reduction (15 yr lifespan): 18.2 kg

FFI Functioning Floodplain Initiative

VERMONT

HOME EXPLORE DATA PROJECT PLANNING MONITORING REPORTING USER MANUAL

PROJECT SKETCHING CALCULATION INPUTS WATER QUALITY MONITOR RESILIENCE RESILIENCY MONITOR NATURAL BENEFIT SCENARIOS SUMMARY COST ESTIMATES

PROJECT ID: 02010005004373_PLG_C00

River Corridor ID	Floodplain Sub-Vert Connectivity Score of 0-100	Total Feasibility Score of 0-100	TP Load Assigned to Floodplain (kg)	Incision Rate	Existing Incision Vulnerability	Existing Erosion Vulnerability	Habitat Priority	Number of Priority Projects	Add to Project Calculations
02010005004373_PLG_C00	66	100	0.4	1.0	Low	Low	-	4	

FFI Functioning Floodplain Initiative

VERMONT

HOME EXPLORE DATA PROJECT PLANNING MONITORING REPORTING USER MANUAL

Export Proposed Information for Potential Stream Stability Projects Below

Floodplain Connectivity (Lateral Vertical) and Storage Crediting

Proposed River Corridor and Floodplain Projects

- Medium Channel Slope
- Bank Protection
- Bank River Corridor
- Reconnected Floodplain
- WALC Wetland Areas
- Wetland Channel Roughness and Wood
- Wetland/Blue Corridor
- Artificial River Corridor Buffer
- Channel Flood Control
- High 30-foot Riparian Area
- Bank Channel
- Wetland Area
- Artificial Buffer
- Natural Buffer Corridor
- Highland River Corridor Assessment
- Lower Threshold

River Corridor ID	STREAM QUALITY FUNDING		USDA							
	50 ft River Corridor Area (acres)	Building Incision Rate	Decommissioned River Corridor Area (acres)	Robust Protection Area (acres)	Moderate Protection Area (acres)	Low Protection Area (acres)	No Protection Area (acres)	Naturally Vegetated Buffer Area (acres)	Proposed Incision Rate	Area with Vertical Change (acres)
02010005004373_PLG_C00	0.25	0.4	0.2	0	0.0	0	0	0.0	0.01	0.01

Proposed Project Value: 0.01

Stream Connectivity (Longitudinal Temporal) Crediting



PROJECT OVERVIEW | CALCULATION INPUTS | WASH QUALITY SCORE | FLOODPLAIN CONNECTIVITY SCORE | PROJECT REPORT | REPORT GENERATED | GET PROJECT INFO

Enter Proposed Information for Potential Stream Stability Projects Below. [CLEAR] [SAVE]

Proposed River Corridor and Floodplain Projects

Floodplain Connectivity (Lateral-Vertical) and Storage Crediting

Restore Channel Scour
 Bank Stabilization
 Riparian Planting
 Bank Erosion Control
 Bank Stabilization
 Bank Stabilization
 Bottom Channel Roughness and Wood

Riparian Wood Compost
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization

Riparian Wood
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization
 Bank Stabilization

River Corridor ID:
 Existing Reach Connectivity:
 Proposed Project Values:

Stream Connectivity (Longitudinal-Temporal) Crediting



PROJECT OVERVIEW | CALCULATION INPUTS | WASH QUALITY SCORE | FLOODPLAIN CONNECTIVITY SCORE | PROJECT REPORT | REPORT GENERATED | GET PROJECT INFO

Estimated Phosphorus Credit for Stream Stability and Storage

Submitted On: 02/10/2024 11:14 AM
 Times: 1:40:00
 Project Subtotal: Restore Channel Roughness and Wood
 Stream Reach: 0.02
 Stream ID: 021000004171_PUL_C20

	Year 1 Credit (kg)	Year 2+ Credit (kg/yr)	Estimated 15-yr Stream Credit (kg)
Floodplain Connectivity (Lateral-Vertical)			
Stream Stability	0.0	0.0	0.0
Storage	0.0	0.0	0.0
Stream Connectivity (Longitudinal-Temporal)			
Stream Stability	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0

Stream Stability Credit and Connectivity Details

Stream Corridor ID	Project Connectivity Credit Score	Existing Reach Floodplain/Channel Connectivity Score	Proposed Lateral Credit Score	Proposed Vertical Credit Score	Proposed Subtotal Floodplain/Channel Connectivity Score	Estimated P Reduction Credit (kg/yr)	Maximum P Reduction Credit (kg/yr)	Bank P Reduction Credit (kg/yr)	Total P Reduction Credit (kg/yr)
021000004171_PUL_C20	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Stream Connectivity (Longitudinal-Temporal) Details

Stream ID	Project Connectivity Credit Score	Existing Reach Stream Connectivity Score	Proposed Longitudinal Credit Score	Proposed Temporal Credit Score	Proposed Stream Connectivity Score	Longitudinal P Reduction Credit (kg/yr)	Temporal P Reduction Credit (kg/yr)	Total Stream Connectivity P Credit (kg/yr)	Total Stream Connectivity P Credit (kg/yr)
021000004171_PUL_C20	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

CWSP Clean Water Grant

		gray cells auto-calculate - do not edit
Project Name:	Rocky Woods SWA Project -Elmore	Please ensure Total Cost = Match + Amount Requested
# Project Steps in Proposal:	1	

Personnel Salaries/Wages (Name, Title)	Tasks/Responsibilities	Hours	Hourly Rate	Salary Expense	Match / Leveraged	Amount Requested
Peter Danforth	Implementation Oversight and Involvement, Design Oversight, Meeting coordination	80.00	\$60.00	\$4,800.00	\$0.00	\$4,800.00
<i>Insert additional rows if needed</i>				\$0.00		\$0.00
Personnel Salaries/Wages Subtotal				\$4,800.00	\$0.00	\$4,800.00

Fringe Benefits (not used if included in personnel billable rate)	Fringe Benefits	Salary Expense	Fringe Benefits	Match / Leveraged	Amount Requested
Includes FICA, worker's comp, health insurance, retirement, etc.			\$0.00	\$0.00	\$0.00
Fringe Benefits Subtotal			\$0.00	\$0.00	\$0.00

Anticipated Travel	Purpose	Miles	Mileage Rate	Travel Expense	Match / Leveraged	Amount Requested
Peter Danforth	Site visits and implemetation	32.00	\$0.66	\$20.96	\$0.00	\$20.96
<i>Insert additional rows if needed</i>				\$0.00	\$0.00	\$0.00
Travel Subtotal				\$20.96	\$0.00	\$20.96

Equipment	Description/Use	# of Units	Unit Cost	Equipment Expense	Match / Leveraged	Amount Requested
		0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Insert additional rows if needed</i>				\$0.00	\$0.00	\$0.00
Equipment Subtotal				\$0.00	\$0.00	\$0.00

Supplies	Description/Use	# of Units	Unit Cost	Supplies Expense	Match / Leveraged	Amount Requested
		0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Insert additional rows if needed</i>				\$0.00	\$0.00	\$0.00
Supplies Subtotal				\$0.00	\$0.00	\$0.00

Contractual	Description/Use	# of Units	Unit Cost	Contract. Expense	Match / Leveraged	Amount Requested
Redstart		2.79	\$35,000.00	\$97,650.00	\$0.00	\$97,650.00
				\$0.00	\$0.00	\$0.00
Contractual Subtotal				\$97,650.00	\$0.00	\$97,650.00

Construction	Description/Use	# of Units	Unit Cost	Construct. Expense	Match / Leveraged	Amount Requested
		0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Insert additional rows if needed</i>				\$0.00	\$0.00	\$0.00
Construction Subtotal				\$0.00	\$0.00	\$0.00

Other Expenses	Description/Use	# of Units	Unit Cost	Other Expense	Match / Leveraged	Amount Requested
		0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Insert additional rows if needed</i>				\$0.00	\$0.00	\$0.00
Other Expenses Subtotal				\$0.00	\$0.00	\$0.00

Total Direct Costs/Modified Total Direct Costs Calculation		Total
Total Direct Costs		\$102,470.96
Exclusions from Indirect Cost Base	auto-calculated - enter date on TMDC tab >	\$77,450.00
Total Modified Direct Costs (TMDC)		\$25,020.96

Indirect Costs (10% of Total Modified Direct Costs)	Total Indirect	Match / Leveraged	Amount Requested
auto calculated >	\$2,502.10	\$0.00	\$2,502.10
Total Indirect Costs	\$2,502.10	\$0.00	\$2,502.10

Total Project Cost, Match and Funding Requested:	\$104,973.06	\$0.00	\$104,973.06
Percent Match/Leveraged Expenses	0%		
Match + Amount requested = Total project cost	YES		

Notes:

Check: \$104,973.06

From: [Peter Danforth](#)
To: [Dean Pierce](#)
Cc: [Sara Gratz](#)
Subject: Re: question about project
Date: Wednesday, March 20, 2024 1:12:50 PM
Attachments: [image001.png](#)
[Rockywoods_SWA_MAP_2023_Lamoille_CWIP.pdf](#)

The cost is based on the Redstart estimate just for the Lamoille Section. I forgot to put that in but here is explanation

"Dana worked up a map and started on the budget sheet for you, to make life easier. Please see attached. The labeled streams are the ones that will be a part of this application with you. After getting feedback from the new DEC river engineer Ben Matthews, the stream linear distance was reduced to 2.79 miles and Redstart's cost was reduced to \$97,300. The other streams on the property are all being handled separately as you mentioned when we spoke earlier. It's a huge property as you know, and we will plan to be there with crews of staff almost all year in 2024. We will make the work a focus and it will take a large effort (which we are excited about - we love SWA!)."

I will see if they can be with me for further explanation next week. Also, I will reach out to two other groups for quotes and or interest on this project

Map being referred to attached.

On Wed, Mar 20, 2024 at 11:58 AM Dean Pierce <dpierce@nrpcvt.com> wrote:

Hi Peter, Another quick follow up about one of your applications. (11774, SWA)

Can you confirm the amount for the estimated future cost of the work?

And can you elaborate on what is the number based on?

I just want to be sure that the numbers are correct, given how much concern has been raised by people like Karen Bates.

Since the project sits on a property that spans two watersheds, I want to make sure that any total estimate for the Lamoille portion did not accidentally include costs from the Winooski portion.

Also, at the meeting you (or Redstart) might want to be prepared to address the whole P estimate saga.

Thanks.

Dean

Dean Pierce

Senior Planner *(he/his)*



**Northwest
Regional Planning
Commission**

Address: 75 Fairfield Street, St. Albans, VT 05478

Website: www.nrpcvt.com

Office: 802.524.5958 - ext. 14

<https://scheduler.zoom.us/dean-pierce>

--

Peter Danforth
Director, Lamoille County Conservation District
109 Professional Dr., Suite 2
Morrisville, VT 05661
Tel: 802-888-9218 ex 3004
Cell: 631-495-9093

CWSP Lamoille Basin Grant Proposal and Schedule March 2024

Project Name: Strategic Wood Addition – Floodplain/Stream Restoration – Implementation – Elmore

Project Phase: Implementation

Project Description:

Implement Strategic Wood Addition which will restore floodplain connectivity and phosphorus retention in 2.84 miles of upland stream. The targeted streams drain a total catchment area of 342 hectares and flow north and east to Little Elmore Pond and Elmore Pond Brook. Much of this land is state-listed Northern hardwood forest.

Targeted streams are identified as having minimal accumulation of natural coarse wood material (4"x6' or larger pieces), and are of adequate channelization, slope, water depth, bank full width, and tree-cover to benefit from strategic wood addition. Manual installation of a minimum of 1,566 cubic ft of wood within the channel will restore these streams' vertical floodplain connectivity and retainment of fine sediments. Through combined outcomes of floodplain storage, faster uptake by streambed organisms, and adsorption to retain fine inorganic matter, total phosphorus reduction is an estimated 11.19 kg/yr for a 100+ year lifespan.

Conformance with Tactical Basin Plan: 5/10. The Tactical Basin Plan describes the importance of well-functioning forested headwater streams.

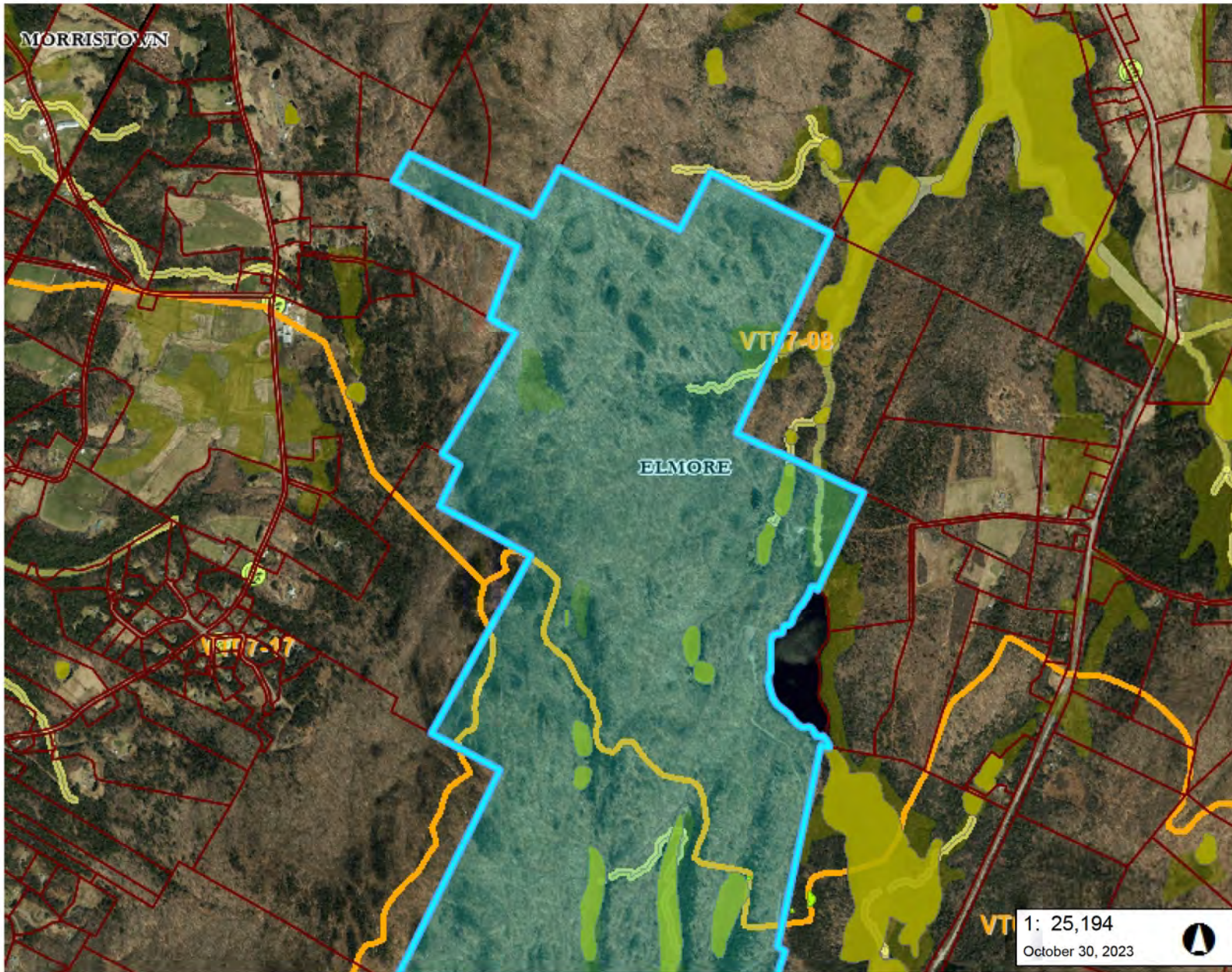
Co-benefits: Clean-water and Sanitation, Ecosystem Services and Climate Resiliency, Education

Schedule: April-May 2024 Stakeholder Meetings- Scoping

May-June 2024 Bring 90% Design to 100%

June – October 2024 Implement

December 2024- Final Report



LEGEND

- Wetland - VSWI**
 - Class 1 Wetland
 - Class 2 Wetland
 - Wetland Buffer
- Wetlands Advisory Layer
- River Main Stem Waterbodies
- WBID Watersheds
- Flood Hazard Areas (Only FEM)**
 - AE (1-percent annual chance flood)
 - A (1-percent annual chance floodpl.)
 - AO (1-percent annual chance zone feet)
 - 0.2-percent annual chance flood ha
- River Corridors (Aug 27, 2019)**
 - .5 - 2 sqmi.
 - .25-.5 sqmi.
- Soils - Hydric
- Parcels (standardized)
- ACT250 Permits
- Town Boundary

VT 1: 25,194
October 30, 2023



1,280.0 0 640.00 1,280.0 Meters
 WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 2100 Ft. 1cm = 252 Meters
 © Vermont Agency of Natural Resources THIS MAP IS NOT TO BE USED FOR NAVIGATION

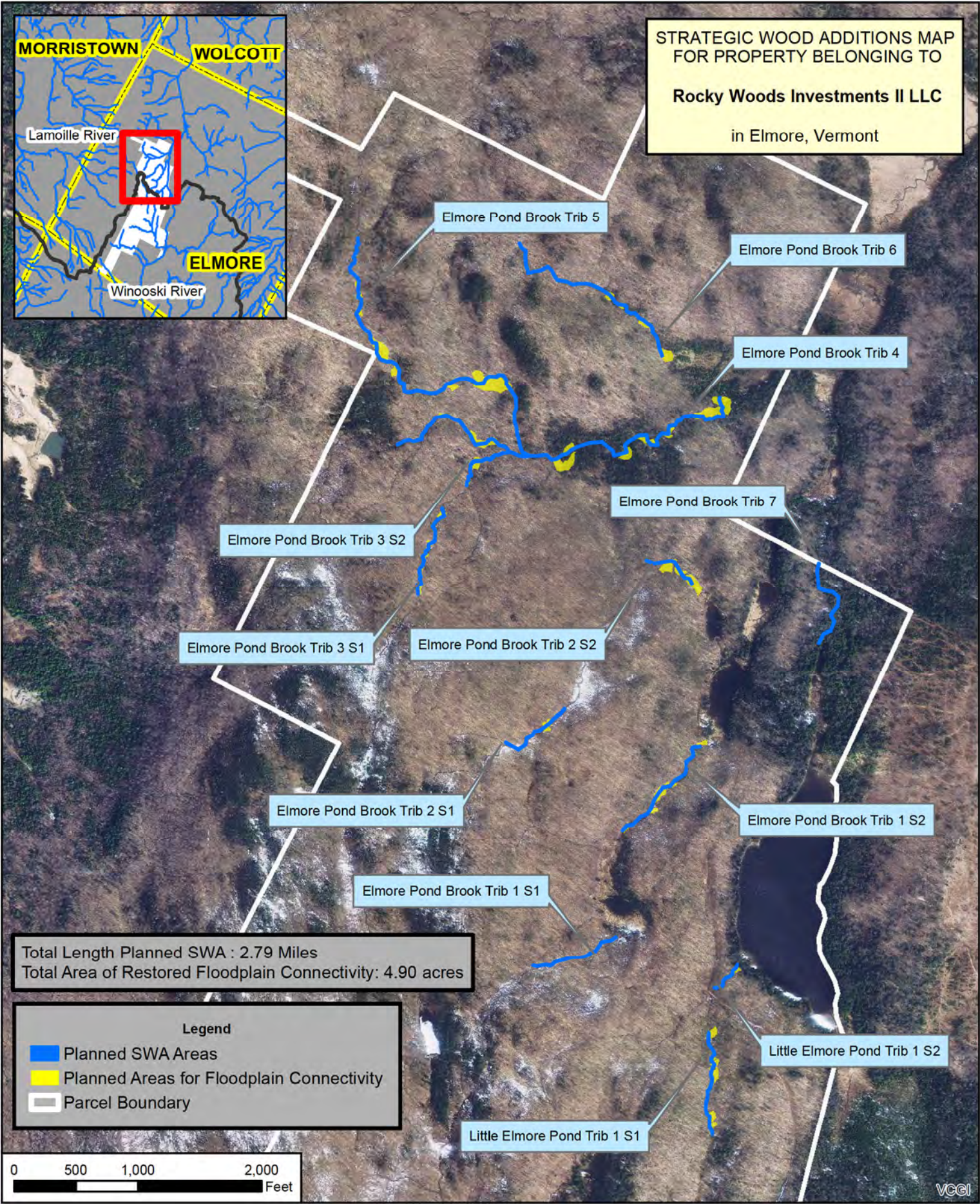
DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular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

NOTES

Map created for CWIP project screening using ANR's Natural Resources Atlas



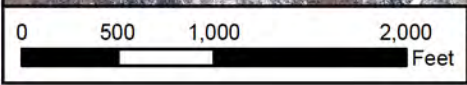
STRATEGIC WOOD ADDITIONS MAP
FOR PROPERTY BELONGING TO
Rocky Woods Investments II LLC
in Elmore, Vermont



Total Length Planned SWA : 2.79 Miles
Total Area of Restored Floodplain Connectivity: 4.90 acres

Legend

- █ Planned SWA Areas
- █ Planned Areas for Floodplain Connectivity
- Parcel Boundary



Coordinate System: NAD 1983 StatePlane Vermont FIPS 4400
This map was created from the Town tax maps,
handheld GPS points, and on the ground observations.
*****THIS IS NOT A SURVEY*****

1:12,000

1 inch = 1,000 feet

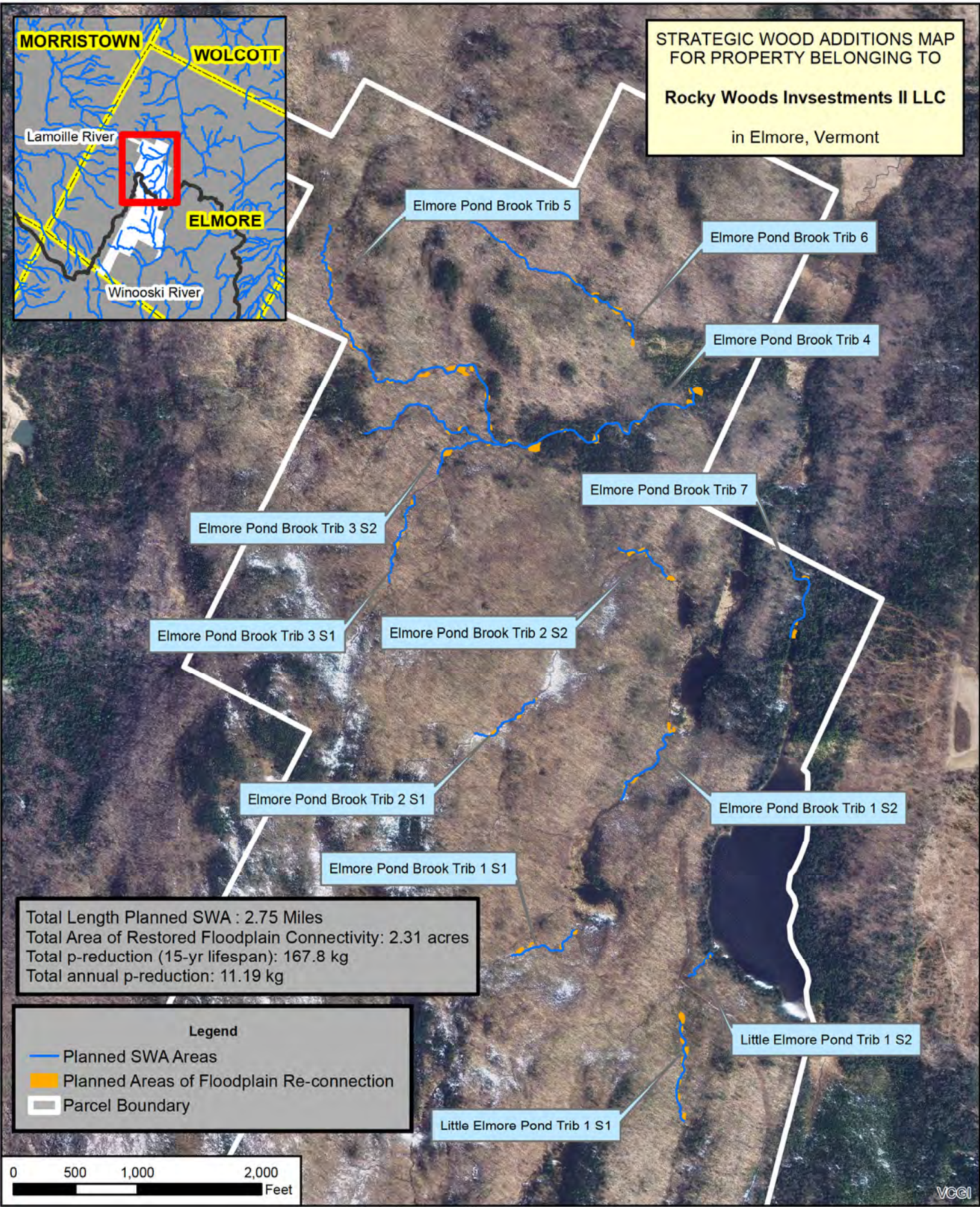
Map Created By: C. Dana Hazen
March 2023



VCCI



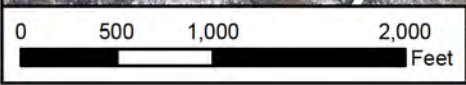
STRATEGIC WOOD ADDITIONS MAP
FOR PROPERTY BELONGING TO
Rocky Woods Investments II LLC
in Elmore, Vermont



Total Length Planned SWA : 2.75 Miles
Total Area of Restored Floodplain Connectivity: 2.31 acres
Total p-reduction (15-yr lifespan): 167.8 kg
Total annual p-reduction: 11.19 kg

Legend

- Planned SWA Areas
- Planned Areas of Floodplain Re-connection
- Parcel Boundary



Coordinate System: NAD 1983 StatePlane Vermont FIPS 4400
This map was created from the Town tax maps,
handheld GPS points, and on the ground observations.
THIS IS NOT A SURVEY

1:12,000

1 inch = 1,000 feet

Map Created By: Redstart (JK)
March 2024



VCGI

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: Minimize anthropogenic nutrient and organic pollution Minimize flood and fluvial erosion hazards Protect and restore aquatic and riparian habitats	Multiple

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:	None (not eligible for funding)
Is the project type an eligible project type for the funding program you are applying to as listed in column B of the CWIP Project Types Table ? (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Does the project meet the project type definitions and minimum standards as provided in column C of the CWIP Project Types Table ? (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Will the project result in the standard performance measures, milestones, and deliverables as defined by project type in columns D-F of the CWIP Project Types Table ? (Answer must be YES to proceed)	Yes <input checked="" type="radio"/> No <input type="radio"/>
Is the project listed as an ineligible project or activity in the CWIP Funding 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)	Yes <input type="radio"/> No <input type="radio"/>

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

Verify project has been recorded in the [Watershed Project Database](#) (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	11774
Watershed Project Database Project Name	Rocky Woods Strategic Wood Additions I

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. **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.**
 - 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 [ANR Permit Navigator](#) 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	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">Yes <input type="radio"/></td> <td style="text-align: center; width: 50%;">No <input type="radio"/></td> </tr> </table>	Yes <input type="radio"/>	No <input type="radio"/>
Yes <input type="radio"/>	No <input type="radio"/>		
If yes , please provide the permit number and list any water resource issues or natural resource issues found ¹⁰ : PermitNumber: _____ ResourceIssues: _____			
If yes , use the Water Quality Project Screening Tool to identify the appropriate regulatory contact for an Act 250 consultation. Regulatory Point of Contact Name/Position: _____			
II. Lake and Shoreland			
1. Is the project site located within 250 feet of the mean water	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">Yes <input type="radio"/></td> <td style="text-align: center; width: 50%;">No <input type="radio"/></td> </tr> </table>	Yes <input type="radio"/>	No <input type="radio"/>
Yes <input type="radio"/>	No <input type="radio"/>		

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 [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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.”

¹⁰ Note 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? ¹¹	
<p>If yes, you might need either a Shoreland Protection Act Permit or a Lake Encroachment Permit. Use the Water Quality Project Screening Tool to find the Lakes and Ponds Program contact for your project's region.</p> <p>Regulatory Point of Contact Name/Position:</p>	
III. Rivers, River Corridors, and Flood Hazard Areas	
<p>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.</p>	<p>Yes <input type="radio"/> No <input type="radio"/></p>
<p>If yes, you will need to speak with a Floodplain Manager. Use the Water Quality Project Screening Tool to find the Floodplain Manager for your project's region.</p> <p>Regulatory Point of Contact Name/Position:</p>	
<p>2. Is any portion of the project site within a perennial river or stream channel? <small>¹³</small></p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>
<p>If yes, you will need to speak with a Stream Alteration Engineer. Use the Water Quality Project Screening Tool to find the Stream Alteration Engineer for your project's region.</p> <p>Regulatory Point of Contact Name/Position: Chris Brunelle</p>	
IV. Wetland	

¹¹ The [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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 [ANR Atlas Clean Water Initiative Program Grant Screening tool](#) 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."

<p>1. Does the Wetland Screening Tool¹⁴ provide a result of wetlands likely, very likely, or present at the project site?</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>
<p>2. Does your project site involve land that is in or near an area that has <u>any</u> of the following characteristics:</p> <ul style="list-style-type: none"> 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, trees with roots growing along the ground surface, swollen trunk bases, or flat root bases when tipped over? o Wetland Soils – soil is dark over gray, gray/blue/green? Is there presence of rusty/red/dark streaks? Soil smells like rotten eggs, feels greasy, mushy or wet? Water fills holes within a few minutes of digging? (See Landowners Guide to Wetlands for additional information on identifying wetlands onsite.) 	<p>Yes <input type="radio"/></p> <p>No <input type="radio"/></p> <p>Not Sure <input type="radio"/></p>
<p>If you answered <i>yes</i> or <i>not sure</i> to <u>either</u> of the above questions, you will need to contact your District Wetlands Ecologist using the Wetland Inquiry Form. The District Wetlands Ecologist can help determine the approximate locations of wetlands and whether you need to hire a Wetland Consultant to conduct a wetland delineation. Alternatively, if you answered <i>yes</i> or <i>not sure</i> to <u>either</u> of the above questions, you can simply budget for a Wetland Consultant in the proposed scope of work. Any activity within a Class I or II wetland or wetland buffer zone (minimum of 100 feet and 50 feet respectively) which is not exempt or considered an “allowed use” under the Vermont Wetland Rules requires a permit. All permits must go through review and public notice process, which takes at minimum 6 weeks for a General Permit and 5 months for an Individual Permit.</p> <p>Regulatory Point of Contact Name/Position:</p>	
<p>1. Is your project a Wetland Restoration project type?</p>	<p>Yes <input type="radio"/> No <input type="radio"/></p>
<p>If you answered yes, under the Vermont Wetland Rules you will need an “allowed use” determination from the DEC Wetlands Program. Contact your District Wetlands Ecologist using the Wetland Inquiry Form.</p> <p>Regulatory Point of Contact Name/Position:</p>	
<p>V. Fish and Wildlife</p>	
<p>State law protects endangered and threatened species. No person may take or possess such species without a Threatened & Endangered Species Takings permit.</p> <p>1. 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. George, Sudbury, Sunderland, Vergennes, Waltham, West Haven, Weybridge, Whiting</p>	<p>Yes <input type="radio"/> No <input type="radio"/></p>

¹⁴ To view the Wetland Screening Tool introduction video, see <https://youtu.be/6lv5en0AB1o>

2. Is the project site within 1 mile of a mapped¹⁵ Significant Natural Community or Rare, Threatened, or Endangered Species?	Yes <input checked="" type="radio"/> No <input type="radio"/>
If yes to either of the above questions, connect with the VT Fish and Wildlife department (everett.marshall@vermont.gov 802-371-7333) to discuss your project and any necessary permitting. Regulatory Point of Contact Name/Position:	
VI. Stormwater	
1. 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 <input type="radio"/> No <input type="radio"/>
If yes , forward to the appropriate Stormwater specialist to ensure necessary permitting. Use the Water Quality Project Screening Tool to find the Stormwater specialist for your project's region. 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 <input type="radio"/> No <input type="radio"/>
If yes, connect with the Waste Management & Prevention Division (dennis.fekert@vermont.gov 802-522-0195) to discuss your project and any necessary permitting. Regulatory Point of Contact Name/Position:	
Provide below or attach a narrative summary of Table 4 findings. Please include: <ol style="list-style-type: none"> Which permits or permit amendment are needed or might be needed? What type might be needed? (e.g. a general or individual permit)? What concerns were voiced by permitting staff? How will the proposed scope of work address these concerns? a. Stream alt permit	
Is the project, as proposed, reasonably considered permit-able by all applicable	Yes <input checked="" type="radio"/> No <input type="radio"/>

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 [licensed solid waste hauler](#) 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	
<p>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.</p> <p>(Answer must be YES to proceed)</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>
<p>Budget. Project budget includes ineligible expenses.</p> <p>(Answer must be NO to proceed)</p>	<p>Yes <input type="radio"/> No <input type="radio"/></p>
<p>Leveraging. Proposed leveraging meets required leveraging levels (if applicable), meets the definition of leveraging, and comes from eligible sources</p> <p>(Answer must be YES or N/A to proceed)</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/> N/A <input type="radio"/></p>
<p>Funding Program Specific Eligibility. Project meets additional funding program eligibility requirements*. Please list applicable funding program below: CWSP, DEC Enhancement Grants</p> <p>(Answer must be YES to proceed) *If Water Quality Restoration Formula Grant, complete Step 6 below</p>	<p>Yes <input checked="" type="radio"/> No <input type="radio"/></p>

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	
<p>1. Is the proposed project located on a jurisdictional farm operation¹⁷?</p> <p>Complete a preliminary review to</p>	<p><input type="radio"/> Yes - Proceed to next question below.</p>

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

<p>determine if it is a jurisdictional farm operation, and any case that requires consultation with AAFM will occur via the farm determination process. Please note this form must be submitted by the farm operation/landowner seeking the determination.</p>	<p><input type="radio"/> No¹⁸ - There is no additional requirements related to agricultural review for these projects.</p>
<p>2. Is the proposed project an agricultural project?</p> <p>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.</p>	<p><input type="radio"/> Yes - Agricultural Projects on jurisdictional farms are not an eligible project type. You can provide a referral to an applicable state or federal agricultural assistance program, or a local organization.</p> <p><input type="radio"/> 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 (VAAFAM) to ensure a consistent approach on farms statewide that follows rules, regulations, and laws in place. Please follow Steps 1 & 2 below.</p> <p>Step 1- Please submit a detailed description of the project, project site, project details, landowner, farm operation, and any other relevant information to VAAFAM at AGR.WaterQuality@Vermont.gov .</p> <p>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.</p>

Agricultural Project Review Status & Summary:	
Check as Applicable	Status
<input type="checkbox"/>	Submitted/ Pending
<input type="checkbox"/>	Approved
<input type="checkbox"/>	Denied

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

Updated: 12/2/2022 2:44:00 PM

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.



8 Bailey Ave,
Montpelier, VT 05602

P (802) 223-5234

info@vlt.org
vlt.org

November 7, 2022

Lake Champlain Basin Program
54 W Shore Rd
Grand Isle, VT 05458

Re: Letter of Support for Stream restoration work Grant.

To Whom It May Concern,

On behalf of the Vermont Land trust (VLT), I am writing this letter in full support of the Lamoille County NRC Stream Restoration Grant in partnership with the US Fish and Wildlife Service Partners for the Fish and Wildlife Programs and land manager Redstart. The Vermont Land Trust (VLT) holds a Conservation for the Rocky Woods LLC's property and is supportive of stream restoration work.

The Vermont Land Trust has been supporting efforts to restore large woody material to streams for many years. This type of work meshes very well with our Conservation Easement as most of the streams on the property fall into VLT's Surface Water Protection Zones which require establishment and maintenance of a high quality 100' naturally vegetated buffer. Most of our managed forests lack large coarse woody material and this is a great opportunity to start reversing that trend and leading to an ecologically healthier riparian buffer. In addition, some of this work is visible from the main access road offering a good site for educational opportunities to promote future projects.

Thank you for the opportunity to provide support to this project,

Sincerely,

David C. McMath

David McMath

VLT Stewardship Forester, Lic. #148.0122279

Regional Offices:

226 Bridge Street
P.O. Box 850
Richmond, VT 05477
P (802) 434-3079

Bluffside Farm
171 Scott Farm Road
Newport, VT 05855
P (802) 748-6089

The King Farm
128 King Farm Road
Woodstock, VT 05091
P (802) 457-2369



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Lake Champlain Fish and Wildlife Resources Office
11 Lincoln Street
Essex Junction, Vermont 05452

In Reply Refer To:
FWS/Region 5/LCFWCO

November 9, 2022

Lake Champlain Basin Program
54 West Shore Road
Grand Isle, VT 05458

Re: Lamoille County Natural Resources Conservation District (LCCD) Funding Request

Review Committee,

The U.S. Fish and Wildlife Service (USFWS) is pleased to support the LCCD proposal to improve in-stream habitat through strategic wood addition (SWA) in the headwaters of the Lamoille River watershed. The project would improve habitat diversity and structure for aquatic organisms, provide re-engagement of floodplains, and improve water quality in the system by providing sediment and nutrient retention. The USFWS Lake Champlain Fish and Wildlife Conservation Office has worked with the LCCD, Redstart and other Vermont partners to improve in-stream and riparian habitat within the Lamoille River basin. The USFWS considers habitat and stream restoration as priorities in addressing species resiliency, climate change, flood resiliency, and water quality. SWA has been utilized in the Connecticut River basin and has been successful in improving in-stream conditions for brook trout. The LCCD project proposal supports USFWS priorities by improving cold-water habitat diversity and availability for brook trout in headwater streams. The USFWS and LCCD have been collaborating on restoration projects for over 15 years.

Habitat restoration and improvement projects in Vermont require engagement at the federal, state, and local level to be successful. The USFWS, LCCD, Redstart, Vermont Land Trust, and the Vermont Department of Environmental Conservation (VTDEC) worked together to identify this project within the Lamoille River watershed. This project would be the first SWA work to take place in the Lake Champlain basin. By funding LCCD's request for support, we will build capacity for SWA at the local level, which is important to the future of river restoration in Vermont and the Lake Champlain Basin.

LCCD's current proposal will provide funds to enhance brook trout resiliency by improving habitat and restoring natural stream function within the Lamoille River Basin. An infusion of LCBP funds will help leverage funds from other sources, including local, state, and federal partners to support the work.

The USFWS looks forward to continuing to partner with LCCD, Redstart, VLT, VDEC and the Lake Champlain Basin Program.

If you need additional information, please contact me at the above address or Julie Butler by phone at 802-233-1630.

Sincerely

Christopher E. Smith
Vermont State Coordinator – Partners for Fish and Wildlife Program

Note for users: This is the DEC Clean Water Initiative Program (CWIP) Project List. You can zoom and filter.

Project Type	Funding Program	Definition	Performance Measures
Floodplain/Stream Restoration – Final Engineering Design	Formula, Enhancement (EDDIBG), DIBG (old)	Final design of high priority stream/river and floodplain restoration projects to restore the stream/river to least erosive condition (i.e., equilibrium condition) and improve habitat. Restoration work includes channel/ floodplain modification to improve equilibrium dimensions/ connections OR removal/ retrofit of river corridor/ floodplain encroachments or instream structures. Work includes preparing permit application(s) and documentation of operation and maintenance plan(s).	Number of final (100%) designs completed

Project Types Table. It is an associated appendix within the CWIP Funding Policy for features. The most current CWIP Funding Policy is available here: <https://www.dec.ny.gov/programs/cwip/>

Milestones
Project initiated; proposal/bid solicitations issued and contractor selected (if applicable)
Stakeholder meetings
DEC Programmatic Staff Engagement
60% design complete (if applicable)
10-year (minimum) DEC Operation and Maintenance (O&M) Plan drafted; refer to O&M manual for guidance
10-year (minimum) access license or easement (if applicable) drafted; refer to DEC template for guidance
Other permit-required assessments or plans completed (if applicable)
Final (100%) design complete
Required permit applications drafted** (Projects requiring a Wetlands Individual Permit must have this secured prior to the close of final design)
Final VDHP Project Review

Policy. **Bolded items** are further described within Appendix C of the Funding Policy. Cells are locked but you can view the details at <https://dec.vermont.gov/water-investment/cwi/grants/resources>

Deliverables
Draft 10-year (minimum) DEC Operation and Maintenance (O&M) Plan and documentation of support/commitment from O&M responsible party and landowner
Draft 10-year (minimum) access license or easement and documentation of project support/commitment from landowner
Draft permit application materials (including associated assessment reports or plans if applicable), wetlands individual permit (if applicable)
DEC programmatic staff comments on design
Signed VDHP Project Review Form
Final Design Report
Media announcement
Final Performance Report or ANR Online Clean Water Project - Project Closeout Form (once available)
Batch Import File or ANR Online Clean Water Project - New Project Form (once available)

... can use the

Step/Phase
Final Design

SCORING/
PRIORITIZATION

DRAFT Data Entry / Preliminary Results/ Lamoille Basin / Funding Round #4 CORRECTED 3/25/24

*

WPD ID	Project type	Annual p reduction kg	Any one time P reduction kg	A Annual plus (onetime / design life) P reduction kg	Funding request (next project stage)	Proposed cost (next project stage)	Estimated Total cost (all project stages) using midpoint of ranges	Estimated Total cost minus other funding sources	cost per kg life P reduction	cost per kg annual P reduction	D Cost of Operations and maintenance \$/kg (lower is better)	E Conformance with the Basin plan (Imp. Table, elsewhere in TBP, or not)	F Cobenefits (How many of six CoBenefit elements)
11774	Implement Strategic Wood Addition which will restore floodplain connectivity and phosphorus retention in 2.84 miles of upland stream. The targeted streams drain a total catchment area of 342 hectares and flow north and east to Little Elmore Pond and Elmore Pond Brook. Much of this land is state-listed Northern hardwood forest. Targeted streams are identified as having minimal accumulation of natural coarse wood material (4"x6" or larger pieces), and are of adequate channelization, slope, water depth, bank full width, and tree-cover to benefit from strategic wood addition. Manual installation of a minimum of 1,566 cubic ft of wood within the channel will restore these streams' vertical floodplain connectivity and retention of fine sediments. Through combined outcomes of floodplain storage, faster uptake by streambed organisms, and adsorption to retain fine inorganic matter, total phosphorus reduction is an estimated 11.19 kg/yr for a 100+ year lifespan.	11.19		11.19	\$104,973.06	\$104,973.06	\$ 108,145.66	\$ 108,145.66	\$ 9,664	\$9,664	\$179	5	4
11772	The Vermont Studio Center (VSC) is removing a campus building and is looking to restore natural floodplain conditions along the banks of the Gihon River. This would entail removing existing fill and riprap as well as reducing the gradient of the current riverbank. This project would slow the velocity of the river and provide more water storage for future flooding. The programming on the site of the former building is planned to be a native pollinator plant garden and educational pathway.	5.82	24.2	6.43	\$35,782.14	\$35,782.14	\$115,000.00	\$ 75,000.00	\$ 11,673	\$12,887	\$687	5	6
11771	Plant approximately 3.5 acres of trees along the Lamoille River south of the entrance bridge of The Lamoille Valley Property Owners Association (LVPOA) aka "10 Bends Association".	8.2		82.00	\$12,374.41	\$19,574.41	\$ 19,574.41	\$ 19,574.41	\$ 2387	\$2387	\$75	5	5
Total/Average		25.21			\$153,130			\$202,720					

DRAFT Prioritization/Ranking / Lamoille Basin / Funding Round #4

Rank	ID	Description	Annual p reduction kg	cost per kg
2	11774	Implement Strategic Wood Addition which will restore floodplain connectivity and phosphorus retention in 2.84 miles of upland stream. The targeted streams drain a total catchment area of 342 hectares and flow north and east to Little Elmore Pond and Elmore Pond Brook. Much of this land is state-listed Northern hardwood forest. Targeted streams are identified as having minimal accumulation of natural coarse wood material (4"x6' or larger pieces), and are of adequate channelization, slope, water depth, bank full width, and tree-cover to benefit from strategic wood addition. Manual installation of a minimum of 1,566 cubic ft of wood within the channel will restore these streams' vertical floodplain connectivity and retainment of fine sediments. Through combined outcomes of floodplain storage, faster uptake by streambed organisms, and adsorption to retain fine inorganic matter, total phosphorus reduction is an estimated 11.19 kg/yr for a 100+ year lifespan.	11.19	\$9,664
3	11772	The Vermont Studio Center (VSC) is removing a campus building and is looking to restore natural floodplain conditions along the banks of the Gihon River. This would entail removing existing fill and riprap as well as reducing the gradient of the current riverbank. This project would slow the velocity of the river and provide more water storage for future flooding. The programming on the site of the former building is planned to be a native pollinator plant garden and educational pathway.	5.82	\$12,887
1	11771	Plant approximately 3.5 acres of trees along the Lamoille River south of the entrance bridge of The Lamoille Valley Property Owners Association (LVPOA) aka "10 Bends Association".	8.2	\$2387

Brainstorming session

MEMO

TO: LAMOILLE BASIN WATER QUALITY COUNCIL
FR: CWSP STAFF
RE: BRAINSTORMING SESSION
DA: 3/21/24

=====

The agenda for the upcoming “Clean Water Network Summit” has multiple items relating to the ability of CWSPs and their partner organizations to complete projects to fulfill the goals of Act 76. See box below. (The complete agenda is presented later in this packet.)

As we approach the second anniversary of the BWQC’s creation and have had time to form opinions about ‘what works and what doesn’t, CWSP staff (and others) felt that BWQC members might welcome the chance to take part in a brainstorming session focused on overcoming obstacles to project advancement.

The format will be informal. Because time is limited, we will attempt to facilitate a rapid-fire, results-oriented session, one that encapsulates our collective experiences and insights. Please come to the meeting prepared to share your ideas.

Agenda Items related to Project Completion:

- 5. Progress Towards Targets (11:15-Noon) and Capacity
 - a. DEC presentation of system wide progress in relation to targets through 2023 (p reductions by project stage and type, and number of projects and funding allocated across the full CWSP system.)
 - b. Capacity Discussion (11:30-12:00) Discussion: Capacity challenges and opportunities Moderator: Lyn Munno - Lunch 12:00-1:00pm
- 7. Problem solving panel discussions- 2:00pm-3pm a. ID and Developing Projects panel discussion (60min) Panelists: Dan Albrecht, Allaire Diamond, Patrick Hurley, Lauren Weston Moderator: Chris Rottler

MEMO

TO: LAMOILLE BASIN WATER QUALITY COUNCIL
FR: CWSP STAFF
RE: BRAINSTORMING SESSION
DA: 3/21/24

=====

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Agenda Items related to Project Completion:

5. Progress Towards Targets (11:15-Noon) and Capacity

a. DEC presentation of system wide progress in relation to targets through 2023 (p reductions by project stage and type, and number of projects and funding allocated across the full CWSP system.)

b. Capacity Discussion (11:30-12:00) Discussion: Capacity challenges and opportunities

Moderator: Lyn Munno - Lunch 12:00-1:00pm

7. Problem solving panel discussions- 2:00pm-3pm a. ID and Developing Projects panel discussion (60min) Panelists: Dan Albrecht, Allaire Diamond, Patrick Hurley, Lauren Weston

Moderator: Chris Rottler

DEC summit

MEMO

TO: LAMOILLE BASIN WATER QUALITY COUNCIL
FR: CWSP STAFF
RE: CLEAN WATER NETWORK SUMMIT
DA: 3/21/24

=====

To recap previous memos, the Clean Water Network Summit will be held on April 5, 2024, at St. Leo's Hall in Waterbury, starting at 9:00 AM. DEC will host the event to bring clean water practitioners together to discuss challenges and opportunities. It will include presentations, panel discussions, and project updates. In-person attendance is encouraged, and refreshments and lunch will be provided to the first 100 registrants. If needed, CWSP may assist with travel expenses.

One important item on the agenda (despite its potentially confusing name) is the Basin Slam. During the "slam," CWSPs and BWQCs will present updates on their activities. Currently, CWSP staff for Basins 6 and 7 anticipate that the presentations will include Snapshots of the CWSP's progress as well as achievements of the Basin Councils. The slides might also include results of the "Brainstorming session" on "overcoming obstacles" to be conducted by the Lamoille Council on 3/28 and expected to be conducted by the Missisquoi Council on April 3.

Clean Water Service Network Summit – April 5, 2024

Draft Agenda

Meeting purpose: To bring together clean water practitioners who work closely with Formula Grants, to share experiences and discuss challenges and opportunities going forward

Intended audience: People who are actively engaged as CWSPs, BWQCs or project implementers or other parties actively involved in the implementation of formula grants.

1. Arrive, refreshments, mingle 8:30am – 9:00am
2. Welcome and Keynote – Sec. Moore (15 minutes) 9:00-9:15am
3. Panel Discussion: The vision of Act 76 of 2019 and where are we now? 9:15-10:00am

Panelists: Charlie Baker, Jared Carpenter, and Sec. Julie Moore.
Moderator: Ethan Swift, WPP Program Manager.
4. Basin Slam: 7-10 minutes from each basin (60 minutes) 10:00 to 11:00am
(CWSPs & BWQC chairs will be encouraged to identify themes for a shared presentation)
 - Coffee Break
5. Progress Towards Targets (11:15-Noon) and Capacity
 - a. DEC presentation of system wide progress in relation to targets through 2023
(p reductions by project stage and type, and number of projects and funding allocated across the full CWSP system.)
 - b. Capacity Discussion (11:30-12:00)
Discussion: Capacity challenges and opportunities
Moderator: Lyn Munno
 - Lunch 12:00-1:00pm
6. Project Topic Updates (1:00-2:00) - “Slam style”

Topics include: Forests, Wetlands, Rivers, O&M/V&M, Lakes, Private Roads
7. Problem solving panel discussions- 2:00pm-3pm
 - a. ID and Developing Projects panel discussion (60min)

Panelists: Dan Albrecht, Allaire Diamond, Patrick Hurley, Lauren Weston
Moderator: Chris Rottler

From: [Rottler, Chris](#)
To: mwinslow@acrpc.org; [Barbara Noyes-Pulling](#); [Hilary Solomon](#); [Brian Voigt](#); [Dan Albrecht](#); [Dean Pierce](#); [n.johns](#)
Subject: CWSP Summit slam details
Date: Monday, March 18, 2024 2:06:44 PM
Attachments: [image001.png](#)

Hey folks –

I am writing with some info on the CWSP Summit, and the CWSP slam in particular. We have an hour booked for this, from 10-11am at our event on April 5. (FYI, I'll be sending out a final agenda soon – end of this week or early next week).

I wanted to write with some info about a few details. First, I am going to be your timekeeper. We have 7 CWSPs over 60 minutes, so about 8 minutes per CWSP. If NWRPC takes the time of one CWSP, then that would allow for 10 minutes per entity.

The time is yours to manage, but I will need to be strict in order to make sure everyone has their allotted time. So, if you want to reserve time for questions, please plan accordingly and work within your time budget as we will not have any extra time outside of your allotment for questions.

We will have a TV screen and a projector, so if you want to plug in a computer for slides, we can do that. Slides are not necessary and they may slow things down, so please also keep that in mind. We will not have a microphone, either.

For a run of show, and to know when you are up, I prepared the following list for how this slam will run – going from North to South:

Memphremagog (VHCB); Lamoille and Missisquoi (NWRPC); Northern Lake Champlain (CCRPC); Winooski (CVRPC); Otter Creek (ACRPC); Southern Lake Champlain (RRPC/PMNRCD)

And that's it! I am excited to hear the reports from your basin! Right now, we have 72 people registered, and I am guessing will get (at least!) into the 80s by the time we get to April, so will have a very nice gathering. I am looking forward to the conversations and opportunities presented by this gathering, and appreciate the effort you are putting into the event, as well as into the day to day work you are doing.

Let me know if you have any follow up questions about the day, or this section of the agenda in particular. Thanks!

Chris



Chris Rottler, J.D., Water Investment Coordinator (he/him)

Vermont Agency of Natural Resources | Department of Environmental Conservation

Water Investment Division

1 National Life, Davis 3 | Montpelier, Vermont 05620-3510

802-461-6051 office/cell

"Note: Written communications to and from state officials regarding state business are considered public records and will be available to the public for review."

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