

Winooski River Basin Water Quality Council Meeting

19 December 2024

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

- ◇ Friends of the Winooski River
 - ◇ Riparian Buffer Planting – Fecteau
 - ◇ Riparian Buffer Planting – Fowler Road
 - ◇ Riparian Buffer Planting – Huntington Acres
 - ◇ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

- ◇ Friends of the Winooski River
 - ◇ Riparian Buffer Planting – Fecteau
 - ◇ Riparian Buffer Planting – Fowler Road
 - ◇ Riparian Buffer Planting – Huntington Acres
 - ◇ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

- ◇ Friends of the Winooski River
 - ◇ Riparian Buffer Planting – Fecteau
 - ◇ Riparian Buffer Planting – Fowler Road
 - ◇ Riparian Buffer Planting – Huntington Acres
 - ◇ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

- ◇ Friends of the Winooski River
 - ◇ Riparian Buffer Planting – Fecteau
 - ◇ Riparian Buffer Planting – Fowler Road
 - ◇ Riparian Buffer Planting – Huntington Acres
 - ◇ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

◆ **Friends of the Winooski River**

◆ **Riparian Buffer Planting – Fecteau**

◆ Riparian Buffer Planting – Fowler Road

◆ Riparian Buffer Planting – Huntington Acres

◆ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Final Proposal Review:

Riparian Buffer Planting - Huntington

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Name: Fecteau Riparian Buffer Planting
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' – 150' buffer with trees & shrubs on a 1.25-acre floodplain along the Huntington River to better trap sediment, slow bank erosion and filter agricultural runoff. The landowner supports this effort.
- ◆ Project Deliverables:
 - ◆ Acres of riparian buffer planted / restored: 1.25
 - ◆ P-reduction: 2.73 kg / yr
- ◆ Project Budget:
 - ◆ Formula Grant: ~~\$23,293.12~~ \$14,379
 - ◆ Non-State Matching Funds: \$3,080.00
 - ◆ Total Project Budget: ~~\$26,373.12~~ \$17,459

Final Proposal Review: Riparian Buffer Planting - Huntington

Table 1- 1: Cost-Effectiveness Score

Criteria	Value
Funding Request	\$14,379
Future Funding Request	\$0
Total Cost	\$14,379
P-Reduction (kg / yr)	2.73
Design Life	15
Cost Effectiveness* (\$ / kg)	\$5,267
Cost-Effectiveness Score	75

Maximum Implementation-phase
Cost-Effectiveness Score = 75 points

*Cost Effectiveness

$$(\$ / \text{kg} / \text{yr}) = ((15 \text{ years} / \text{project design life}) * (\text{Total Cost})) / (\text{Phosphorous Reduction (kg / yr)})$$

Table 1-2: Project Risk Score

Risk Category	Points
Landowner Relations	2.5
Organizational Capacity	2.5
Operations & Maintenance	1.25
Permitting	2.5
Total Score	8.75

Maximum Total Score = 10 points

Final Proposal Review: Riparian Buffer Planting - Huntington

Table 1-3: Co-Benefits Score

Co-benefit	Score	Weight	Weighted Score
Environmental Justice	0	17.78%	0
Income	0		
Race	0		
Language	0		
Ecological Benefits	3	30.44%	0.9132
Listed / Impaired Water Resource	0		
Priority Water Resource	3		
Habitat & Species Enhancement	0		
Ecosystem Services	10	23.78%	2.378
Flood Regulation	5		
Carbon Sequestration	5		
Community Building	2	15.78%	0.3156
Community Involvement	2		
Working Landscape	0		
Recreation	0		
Education	0	12.22%	0
Interpretive Signage	0		
Meetings & Workshops	0		
Total Co-benefits Score			3.6068

Table 1-4: Total Project Score

Criteria	Score
Cost-Effectiveness Score	75
Project Risk Score	8.75
Design Life Score	5
Co-benefits Score	3.6068
Total Project Score	92.36

Maximum Total Score = 100 points

**CWSP Staff Recommendation:
prioritize this funding request.**

Maximum Weighted Co-
Benefits Score = 75 points



LEGEND

- Parcels (standardized)
- Roads**
 - Interstate
 - US Highway, 1
 - State Highway
 - Town Highway (Class 1)
 - Town Highway (Class 2,3)
 - Town Highway (Class 4)
 - State Forest Trail
 - National Forest Trail
 - Legal Trail
 - Private Road/Driveway
 - Proposed Roads
- Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas

124.0 0 62.00 124.0 Meters
 WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 203 Ft. 1cm = 24 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.

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

◆ **Friends of the Winooski River**

◆ Riparian Buffer Planting – Fecteau

◆ **Riparian Buffer Planting – Fowler Road**

◆ Riparian Buffer Planting – Huntington Acres

◆ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Initial Proposal Review: Riparian Buffer Planting - Marshfield

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Name: John Fowler Road Riparian Buffer Planting
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' buffer on a 0.75-acre floodplain along the Winooski River to better trap sediment, slow flood waters and filter agricultural runoff. This project will follow the completion of the berm removal (by Vermont Land Trust, also supported with Formula Grant funding). The landowner supports this effort.
- ◆ Project Deliverables:
 - ◆ Acres of riparian buffer planted / restored: 0.75
 - ◆ P-reduction: 2.0 kg / yr
- ◆ Project Budget:
 - ◆ Formula Grant: ~~\$18,530.00~~ \$14,288
 - ◆ Total Project Budget: ~~\$18,530.00~~ \$14,288

Final Proposal Review: Riparian Buffer Planting - Marshfield

Table 2- 1: Cost-Effectiveness Score

Criteria	Value
Funding Request	\$14,288
Future Funding Request	\$0
Total Cost	\$14,288
P-Reduction (kg / yr)	2
Design Life	15
Cost Effectiveness* (\$ / kg)	\$7,144
Cost-Effectiveness Score	75

Maximum Implementation-phase
Cost-Effectiveness Score = 75 points

*Cost Effectiveness

$$(\$ / \text{kg} / \text{yr}) = ((15 \text{ years} / \text{project design life}) * (\text{Total Cost})) / (\text{Phosphorous Reduction (kg / yr)})$$

Table 2-2: Project Risk Score

Risk Category	Points
Landowner Relations	2.5
Organizational Capacity	2.5
Operations & Maintenance	1.25
Permitting	2.5
Total Score	8.75

Maximum Total Score = 10 points

Final Proposal Review: Riparian Buffer Planting - Marshfield

Table 2-3: Co-Benefits Score

Co-benefit	Score	Weight	Weighted Score
Environmental Justice	0	17.78%	0
Income	0		
Race	0		
Language	0		
Ecological Benefits	5	30.44%	1.522
Listed / Impaired Water Resource	3		
Priority Water Resource	0		
Habitat & Species Enhancement	2		
Ecosystem Services	10	23.78%	2.378
Flood Regulation	5		
Carbon Sequestration	5		
Community Building	8	15.78%	1.2624
Community Involvement	2		
Working Landscape	2		
Recreation	4		
Education	0	12.22%	0
Interpretive Signage	0		
Meetings & Workshops	0		
Total Co-benefits Score			5.1624

Table 2-4: Total Project Score

Criteria	Score
Cost-Effectiveness Score	75
Project Risk Score	8.75
Design Life Score	5
Co-benefits Score	5.1624
Total Project Score	93.91

Maximum Total Score = 100 points

**CWSP Staff Recommendation:
prioritize this funding request.**

Maximum Weighted Co-
Benefits Score = 75 points



LEGEND

- Parcels (standardized)
- Roads**
 - Interstate
 - US Highway, 1
 - State Highway
 - Town Highway (Class 1)
 - Town Highway (Class 2,3)
 - Town Highway (Class 4)
 - State Forest Trail
 - National Forest Trail
 - Legal Trail
 - Private Road/Driveway
 - Proposed Roads
- Town Boundary

NOTES

Map created using ANR's Natural Resources Atlas

165.0 0 82.00 165.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 271 Ft. 1cm = 33 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.

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

◆ **Friends of the Winooski River**

◆ Riparian Buffer Planting – Fecteau

◆ Riparian Buffer Planting – Fowler Road

◆ **Riparian Buffer Planting – Huntington Acres**

◆ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Initial Proposal Review:

Riparian Buffer Planting - Huntington

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Name: Huntington Acres Riparian Buffer Planting
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' – 150' buffer on privately owned land along the Huntington River with trees & shrubs on a 1.25-acre floodplain to better trap sediment, slow bank erosion and filter agricultural runoff. The landowner supports this effort.
- ◆ Project Deliverables:
 - ◆ Acres of riparian buffer planted / restored: 1.25
 - ◆ P-reduction: 1.58 kg / yr
- ◆ Project Budget:
 - ◆ Formula Grant: ~~\$17,955.00~~ \$10,501.00
 - ◆ Total Project Budget: ~~\$17,955.00~~ \$10,501.00

Final Proposal Review: Riparian Buffer Planting - Huntington

Table 3- 1: Cost-Effectiveness Score

Criteria	Value
Funding Request	\$10,501
Future Funding Request	\$0
Total Cost	\$10,501
P-Reduction (kg / yr)	1.58
Design Life	15
Cost Effectiveness* (\$ / kg)	\$6,646
Cost-Effectiveness Score	75

Maximum Implementation-phase
Cost-Effectiveness Score = 75 points

*Cost Effectiveness

$$(\$ / \text{kg} / \text{yr}) = ((15 \text{ years} / \text{project design life}) * (\text{Total Cost})) / (\text{Phosphorous Reduction (kg / yr)})$$

Table 3-2: Project Risk Score

Risk Category	Points
Landowner Relations	2.5
Organizational Capacity	2.5
Operations & Maintenance	1.25
Permitting	2.5
Total Score	8.75

Maximum Total Score = 10 points

Final Proposal Review: Riparian Buffer Planting - Huntington

Table 3-3: Co-Benefits Score

Co-benefit	Score	Weight	Weighted Score
Environmental Justice	0	17.78%	0
Income	0		
Race	0		
Language	0		
Ecological Benefits	3	30.44%	0.9132
Listed / Impaired Water Resource	0		
Priority Water Resource	3		
Habitat & Species Enhancement	0		
Ecosystem Services	10	23.78%	2.378
Flood Regulation	5		
Carbon Sequestration	5		
Community Building	4	15.78%	0.6312
Community Involvement	2		
Working Landscape	0		
Recreation	2		
Education	0	12.22%	0
Interpretive Signage	0		
Meetings & Workshops	0		
Total Co-benefits Score			3.9224

Table 3-4: Total Project Score

Criteria	Score
Cost-Effectiveness Score	75
Project Risk Score	8.75
Design Life Score	5
Co-benefits Score	3.9224
Total Project Score	92.67

Maximum Total Score = 100 points

**CWSP Staff Recommendation:
prioritize this funding request.**

Maximum Weighted Co-
Benefits Score = 75 points



LEGEND

- Parcels (standardized)
- Roads**
 - Interstate
 - US Highway, 1
 - State Highway
 - Town Highway (Class 1)
 - Town Highway (Class 2,3)
 - Town Highway (Class 4)
 - State Forest Trail
 - National Forest Trail
 - Legal Trail
 - Private Road/Driveway
 - Proposed Roads
- Town Boundary

1: 4,870

November 11, 2024



247.0 0 124.00 247.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 408 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.

NOTES

Map created using ANR's Natural Resources Atlas

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

◆ **Friends of the Winooski River**

◆ Riparian Buffer Planting – Fecteau

◆ Riparian Buffer Planting – Fowler Road

◆ Riparian Buffer Planting – Huntington Acres

◆ **Riparian Buffer Planting – Tyler Place**

1:50 Announcements (discussion)

2:00 Adjourn

Initial Proposal Review: Riparian Buffer Planting - Jericho

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Name: Tyler Place Riparian Buffer Planting
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' buffer on privately owned land along an unnamed tributary (?) to better trap sediment and slow flood waters. This effort will extend previously completed work (USFWS) upstream of the project site. The landowner supports this effort.
- ◆ Project Deliverables:
 - ◆ Acres of riparian buffer planted / restored: 1.5
 - ◆ P-reduction: 2.21 kg / yr
- ◆ Project Budget:
 - ◆ Formula Grant: ~~\$26,208.47~~ \$17,534.00
 - ◆ Non-State Matching Funds: ~~\$4,317.50~~ \$4,235.00
 - ◆ Total Project Budget: ~~\$30,525.97~~ \$21,769.00

Final Proposal Review: Riparian Buffer Planting - Jericho

Table 4- 1: Cost-Effectiveness Score

Criteria	Value
Funding Request	\$17,534
Future Funding Request	\$0
Total Cost	\$17,534
P-Reduction (kg / yr)	2.21
Design Life	15
Cost Effectiveness* (\$ / kg)	\$7,934
Cost-Effectiveness Score	65

Maximum Implementation-phase
Cost-Effectiveness Score = 75 points

*Cost Effectiveness

$$(\$ / \text{kg} / \text{yr}) = ((15 \text{ years} / \text{project design life}) * (\text{Total Cost})) / (\text{Phosphorous Reduction (kg / yr)})$$

Table 4-2: Project Risk Score

Risk Category	Points
Landowner Relations	2.5
Organizational Capacity	2.5
Operations & Maintenance	1.25
Permitting	2.5
Total Score	8.75

Maximum Total Score = 10 points

Final Proposal Review: Riparian Buffer Planting - Jericho

Table 4-3: Co-Benefits Score

Co-benefit	Score	Weight	Weighted Score
Environmental Justice	0	17.78%	0
Income	0		
Race	0		
Language	0		
Ecological Benefits	0	30.44%	0
Listed / Impaired Water Resource	0		
Priority Water Resource	0		
Habitat & Species Enhancement	0		
Ecosystem Services	10	23.78%	2.378
Flood Regulation	5		
Carbon Sequestration	5		
Community Building	6	15.78%	0.9468
Community Involvement	2		
Working Landscape	2		
Recreation	2		
Education	0	12.22%	0
Interpretive Signage	0		
Meetings & Workshops	0		
Total Co-benefits Score			3.3248

Table 4-4: Total Project Score

Criteria	Score
Cost-Effectiveness Score	65
Project Risk Score	8.75
Design Life Score	5
Co-benefits Score	3.3248
Total Project Score	82.07

Maximum Total Score = 100 points

**CWSP Staff Recommendation:
prioritize this funding request.**

Maximum Weighted Co-
Benefits Score = 75 points



Tyler Place Locator Map

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Parcels (standardized)
- Roads**
 - Interstate
 - US Highway, 1
 - State Highway
 - Town Highway (Class 1)
 - Town Highway (Class 2,3)
 - Town Highway (Class 4)
 - State Forest Trail
 - National Forest Trail
 - Legal Trail
 - Private Road/Driveway
 - Proposed Roads
- Town Boundary

1: 4,870

November 11, 2024



247.0 0 124.00 247.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 406 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.

NOTES

Map created using ANR's Natural Resources Atlas

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

- ◇ Friends of the Winooski River

- ◇ Riparian Buffer Planting – Fecteau

- ◇ Riparian Buffer Planting – Fowler Road

- ◇ Riparian Buffer Planting – Huntington Acres

- ◇ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn

Announcements

- ◆ Clean Water Advisory Committee Meeting
 - ◆ 9 January 2025, 4:00 PM – 6:00 PM
 - ◆ Municipal Wastewater Assistance
 - ◆ Cristin Ashmankas: Compliance, Outreach, Operations, and Logistics Program Manager
 - ◆ Ashley Hellman: Environmental Analyst and ARPA Pretreatment Initiative Lead
 - ◆ Lynnette Claudon: PE, Chief Pollution Control Design Engineer & Planning Advance Program Lead
 - ◆ Agenda & Zoom link available on the [CVRPC website](#)
- ◆ Mad River Valley Wastewater Workshop
 - ◆ Date & Time TBD
 - ◆ Cristin Ashmankas: Compliance, Outreach, Operations, and Logistics Program Manager
 - ◆ Discover how onsite wastewater treatment systems work and the various kinds of systems installed in Vermont. Learn why newer systems are no longer the septic systems of the past. Understand the regulatory framework for on-site wastewater systems and potable water supplies. Develop the understanding of how to maintain your onsite wastewater system to keep it functional for years to come.

Announcements

- ◆ DEC O&M Trainings and Verifier Certification
 - ◆ Still time to complete training & receive reimbursement (14 January 2025)
 - ◆ Certified verifiers in our basin
 - ◆ CCRPC, CVRPC, Watershed Consulting, WNRCD, Winooski Valley Park District
 - ◆ [Check the DEC website for more information](#)
- ◆ Clean Water Initiative Program SFY2025 Funding Policy Update
 - ◆ Update of the 2023 Funding Policy
 - ◆ Share your thoughts on priority improvements to the funding policy by completing this [quick survey](#) (deadline: 17 January 2025)
- ◆ Partner announcements

Next meeting scheduled 16 January 2025

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 21 November 2024 meeting (action)

1:20 Project Proposal Final Review (action)

- ◇ Friends of the Winooski River

- ◇ Riparian Buffer Planting – Fecteau

- ◇ Riparian Buffer Planting – Fowler Road

- ◇ Riparian Buffer Planting – Huntington Acres

- ◇ Riparian Buffer Planting – Tyler Place

1:50 Announcements (discussion)

2:00 Adjourn