Winooski Tactical Basin Planning Update





CCRPC CWAC Meeting 2/7/2023 DEC Water Investment Division Planners: Keith Fritschie (keith.fritschie@vermont.gov) and Karen Bates (karen.bates@vermont.gov)

Outline

- Tactical Basin Plan Background
- 2023 Tactical Basin Planning Timeline
- CWAC Assistance: Survey Distribution, Community Knowledge, and Plan Review



General Tactical Basin Plan Purpose and Approach

- Surface water management plan required by the VT Clean Water Act
- Identifies geographically explicit actions (strategies) to address water quality degradation and track implementation (WPD)
- 15 basins, 5-year planning cycle
- Major pollutants/stressors may include nutrients (N,P), toxins, pathogens, invasive species, altered flows, temperature...



Develop strategies for general land use/land cover sectors

Agriculture

 Conservation practices that reduce sources of pollution from farm production areas and farm fields.



AGRICULTURE

Developed Lands--Stormwater

 Practices that reduce or treat polluted stormwater runoff from developed lands, such as parking lots, sidewalks, and rooftops.



Developed Lands-Roads

 Stormwater and roadside erosion control practices that prevent erosion and treat road-related sources of pollution.



NATURAL RESOURCES

Wastewater

 Improvements to municipal wastewater infrastructure that decrease pollution from municipal wastewater systems through treatment upgrades, combined sewer overflow (CSO) abatement, and refurbishment of aging infrastructure.

Natural Resource Restoration

 Restoration of "natural infrastructure" functions that prevent and abate pollution. Natural infrastructure includes: floodplains, river channels, lakeshores, wetlands, and forest lands.





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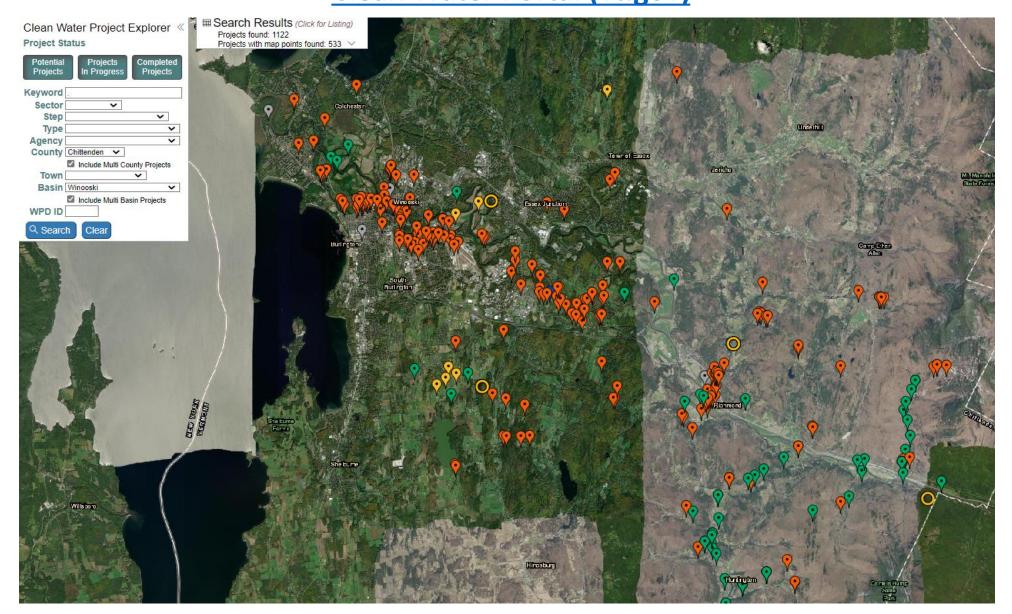


TBP and CC ECOS Plan Alignment: Improve the safety, water quality, and habitat of our rivers, streams, wetlands and lakes in each watershed

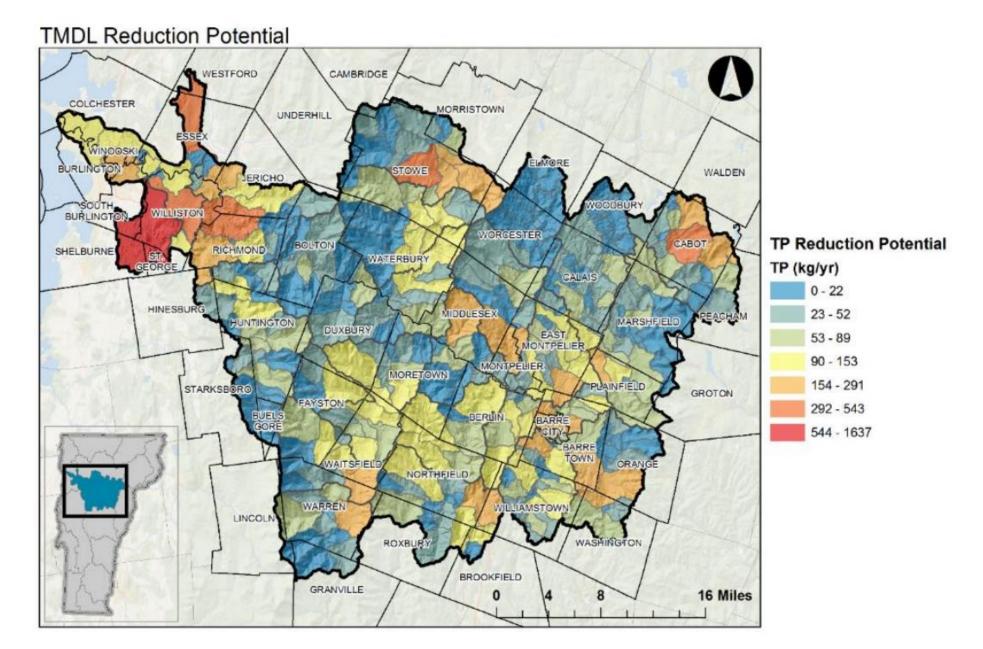
2018 Winooski TBP: 50+ strategies

Priority Subbasin	And/or	Priority Towns/catch ments ²⁹	Strategies	Source 30	Stressor addressed	Partners ³¹	Funding (see also VSWMS <u>Appendix D</u>)
Mad River			Develop and provide support for equine specific programing including support for installing horse manure compost bins and making pasture improvements		Land erosion, nutrients, pathogens	UVM extension, WNRCD,	ACAP, EQIP, VAAFM BMP
Upper Winooski		Phase II priority catchments for agricultural land Table 17	Provide technical and financial resources to farms below the threshold for VAAFM Small Farm Operations		Land erosion, nutrients, pathogens	WNRCD, watershed groups	
		Phase II priority catchments for agricultural land Table 17	Complete targeted water quality sampling on 3 farms to help identify source areas and evaluate nutrient reductions achieved through BMP implementation.		Land erosion, nutrients, pathogens	Watershed groups, WNRCD, VDEC	VDEC LaRosa Partnership
STORMWA	TER:	Reduce pollu	itants and volume				
Lower Winooski		MS4 entities	Support the development and implementation of Phosphorus Control Plans and implementation of the Flow Restoration Plans.	TMDL Phase I	Land erosion, nutrients, pathogens	VDEC, CCRPC	CWIP
		Waterbury,	Provide technical assistance to identify and prioritize stormwater management projects. Use stormwater plan template developed by VDEC	TMDL	Land Erosion, Channel erosion,	VDEC,	
See next column		Williamstown, Stowe		Phase I	pathogens	CVRPC,	CWIP
See next column	1	Stowe	Support implementation of high priority projects in stormwater master Plans and 2015 Smugglers' Notch Parking Feasibility Study	TMDL	pathogens Land Erosion, Channel erosion, pathogens	VDEC, CCRPC, CVRPC,	
See next column	1				Land Erosion, Channel	VDEC, CCRPC,	CWIP

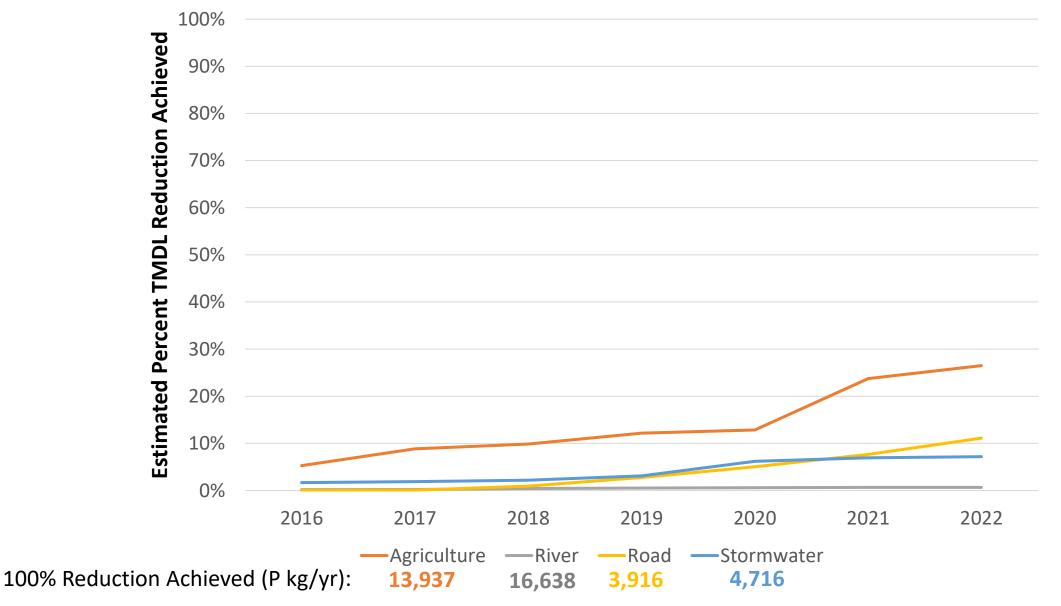
1100+ projects in Watershed Projects Database within CC portion of Winooski <u>Clean Water Portal (vt.gov)</u>



Major goal of the Winooski TBP is to address the Lake Champlain P TMDL

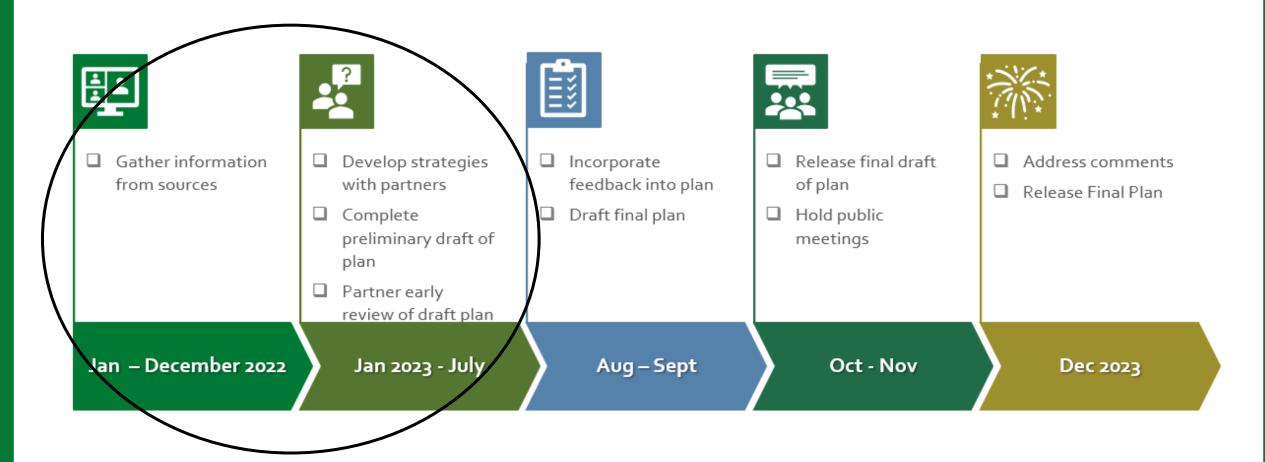


DRAFT TMDL FY 2022 Progress in Winooski Basin



Thursday, Feb 9 12-12:45: VT Clean Water Initiative 2022 Performance Report – VTDEC's Claire Madden

2023 Winooski Tactical Basin Planning Timeline



Near Term Timeline

- Gather Information (mainly complete)
 - P TMDL-related implementation data
 - Monitoring and Assessment Program water quality, listing, classification updates
 - Other internal program updates: e.g., AAFM, Lakes and Ponds, Rivers, Fisheries, Wetlands, FPR, Wastewater and Water Supply
 - Partner organization progress/barriers to progress (Report Card)
 - Community input: public survey (~60 respondents to date) distributed with partner assistance



Near Term Timeline



- Strategy Development (Nov-March)
 - How have we done addressing pollutants from a specific sector/source over the past 5 years?
 - Pollution reduction
 - Effectiveness of State and partner programs
 - How can we/partners increase adoption of practices relevant to pollutant/sector/source?
 - Identify specific funding, technical assistance, community outreach needs
 - What partners can take on steps to alleviate barriers and leverage incentives, and where?
- Complete Preliminary Draft TBP (Jan-April)
 - CH1: Basin Description and WQ Conditions Overview
 - CH2: Protection Priorities
 - CH3: Restoration Priorities, including TMDL Update
 - CH4: Strategies for Addressing Priorities
 - CH5: Implementation Table and Monitoring Table
- Partner Early Review and Revisions (April-June)

CWAC Assistance

- Re-distribute (and take) survey
 - Information-gathering and sharing process to identify specific waterbodies/issues where locals may identify concerns overlooked by available data/models
 - Distribute through your list-servs, FPF, social media, etc.
 - (@thevermontdec Instagram/Facebook posting soon)
 - Tell Keith or Karen how you distributed the survey
- Review 2018 strategies table and email Keith/Karen:
 - Are there strategies that your town has input on?
 - Are there gaps relevant to your town that are unaddressed by the last plan?
- Review draft plan
 - Preliminary draft strategies review opportunity: Spring
 - Formal CCRPC presentation and review: schedule for September

Survey

- Survey Link: <u>https://forms.office.com/g/TWqva2TjSL</u>
- Possible Language for survey distribution:

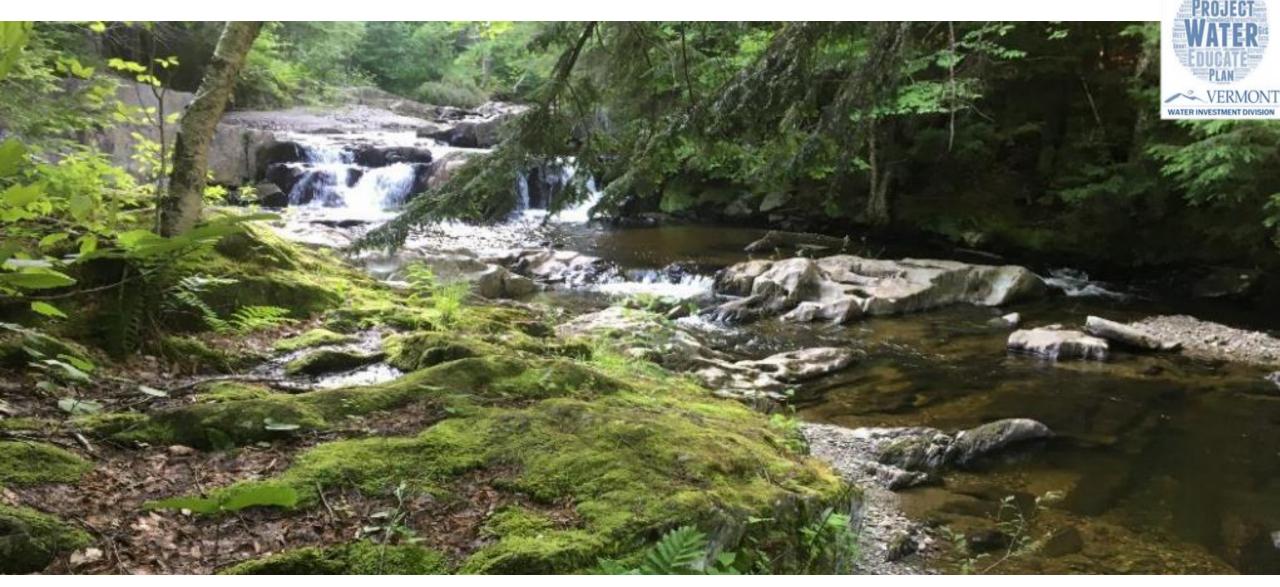
Contribute to the Protection and Restoration of the Winooski River Basin

The Vermont Agency of Natural Resources is developing the 5-year update of the Winooski River Tactical Basin Plan, a water quality and habitat management plan. The plan identifies surface waters in need of restoration and protection, outlines a list of actions to achieve water quality goals, and identifies partners and funding critical to implementing the actions.

Please share your knowledge and opinions relating to the basin's health of rivers, ponds and wetlands. Through your survey responses, the planning process benefits from a more complete picture of the condition of the watershed and helps ensure strategies will lead to successful restoration and protection through the work of the Agency, its partners and the community.

For additional information, please see the Winooski River Basin Story Map: <u>https://vtanr.maps.arcgis.com/apps/Cascade/index.html?appid=1a4a061782ee4fa6b17253da4d77eb7a</u> or the 2018 Winooski River Tactical Basin Plan: https://dec.vermont.gov/sites/dec/files/documents/2018%20Winooski%20River%20TBP.pdf

Questions/Comments?



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