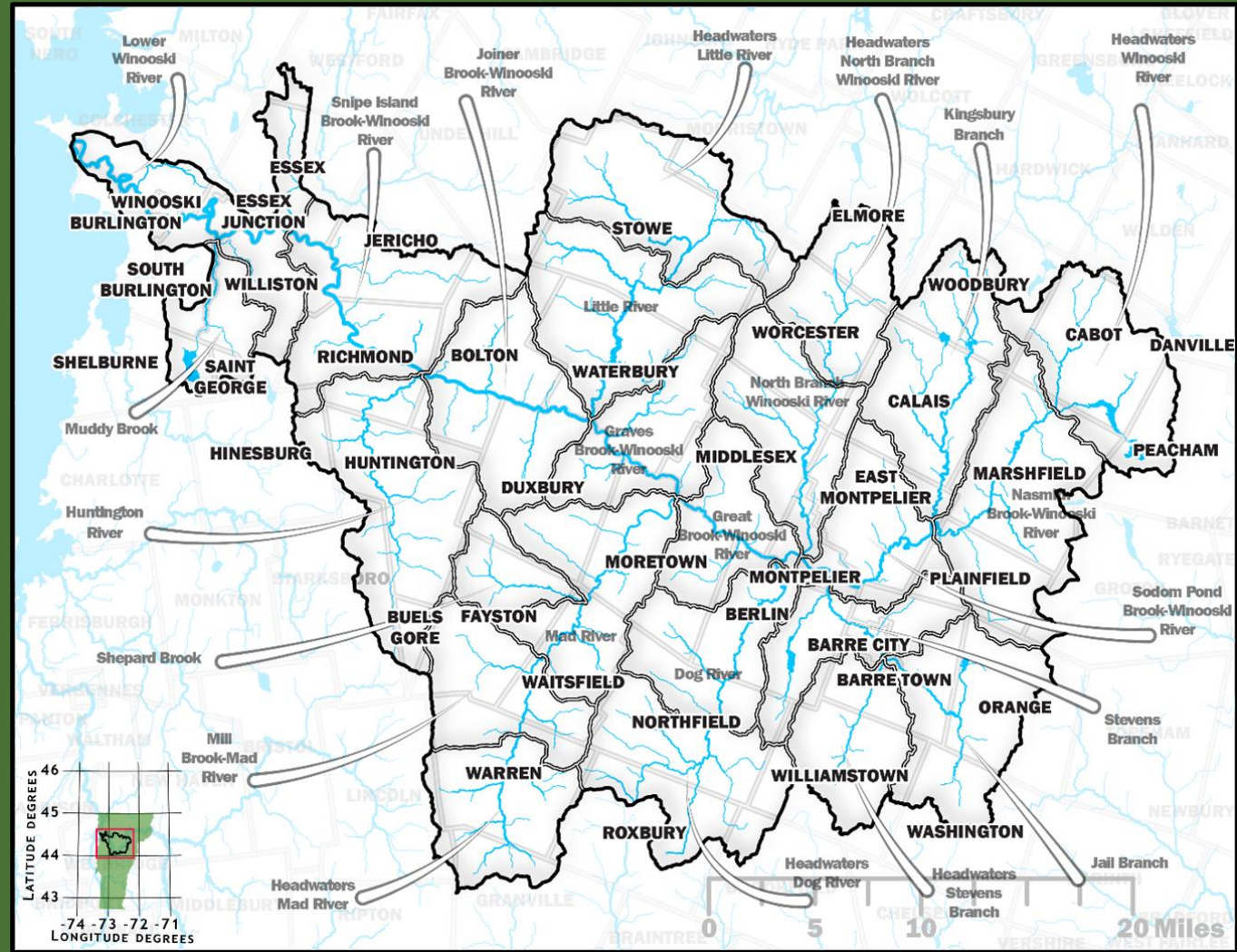


Winooski Tactical Basin Plan Reporting and CWAC Opportunities

CVRPC CWAC Meeting
July 9, 2026



Keith Fritschie, Watershed Planner | keith.fritschie@vermont.gov

Water Investment Division | Vermont Department of Environmental Conservation

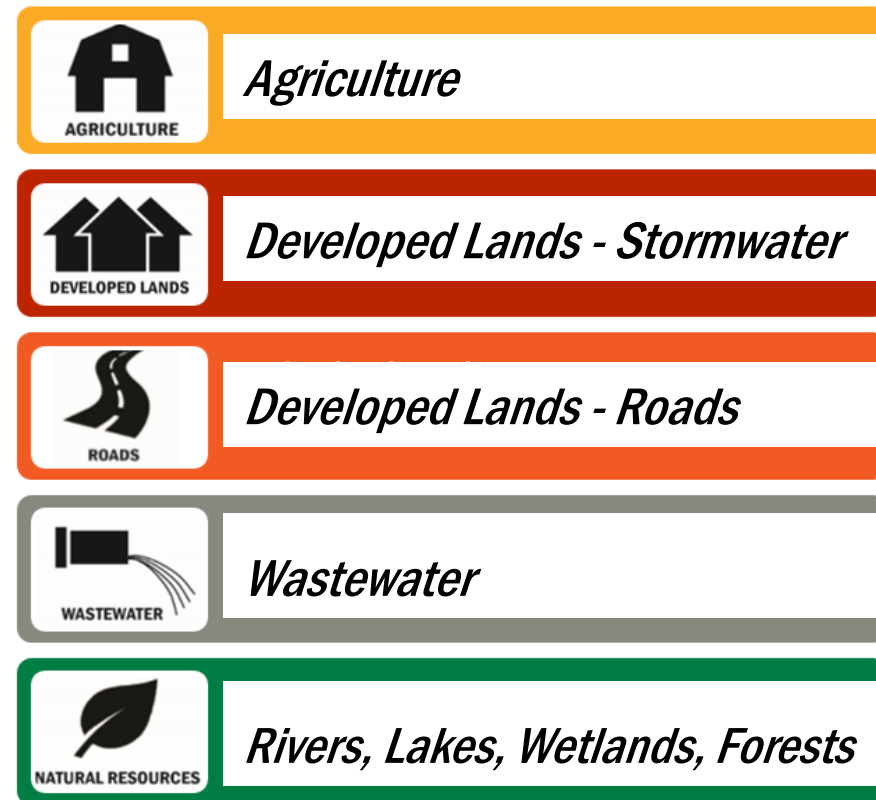




15 Watersheds



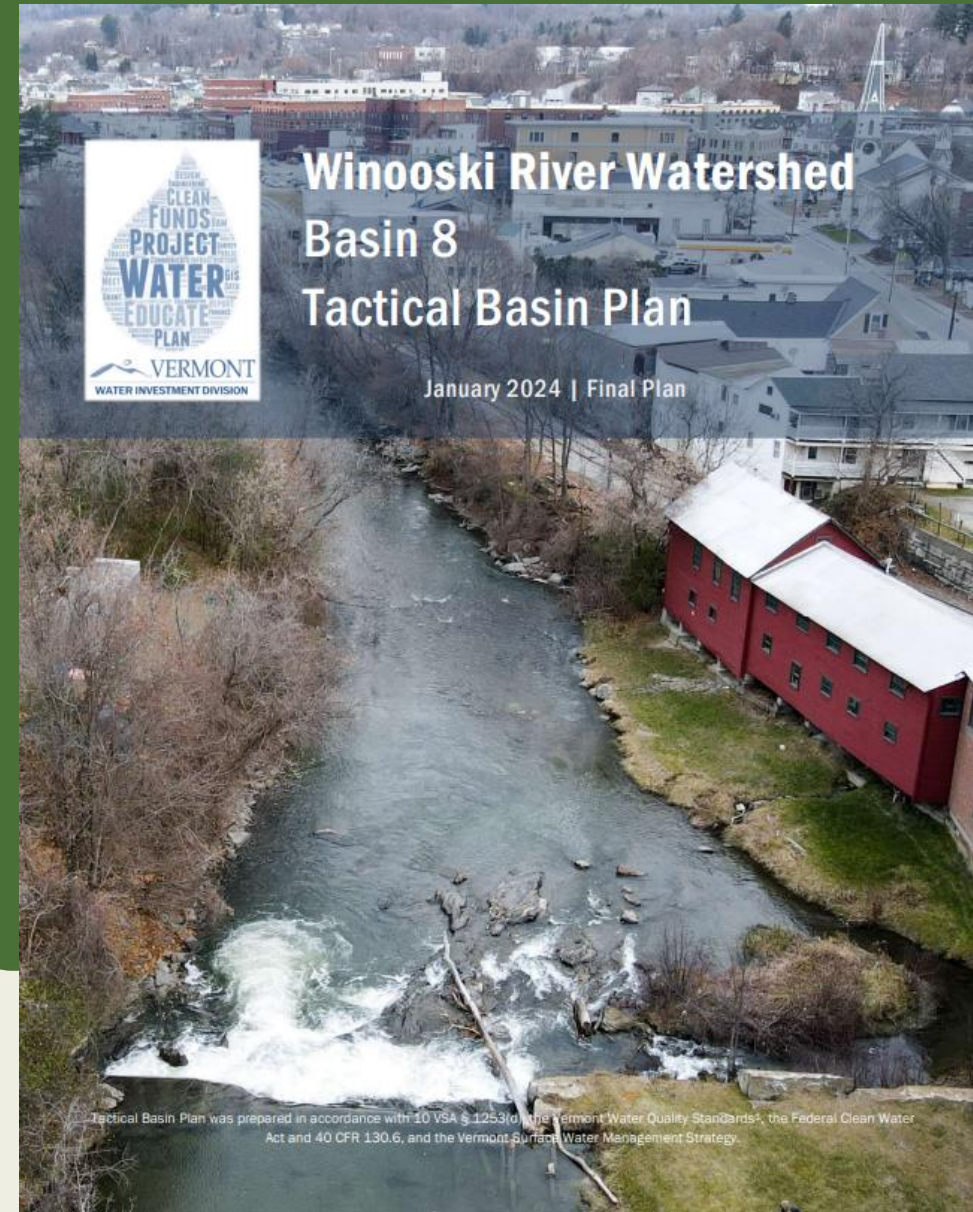
5-Year Planning Cycle



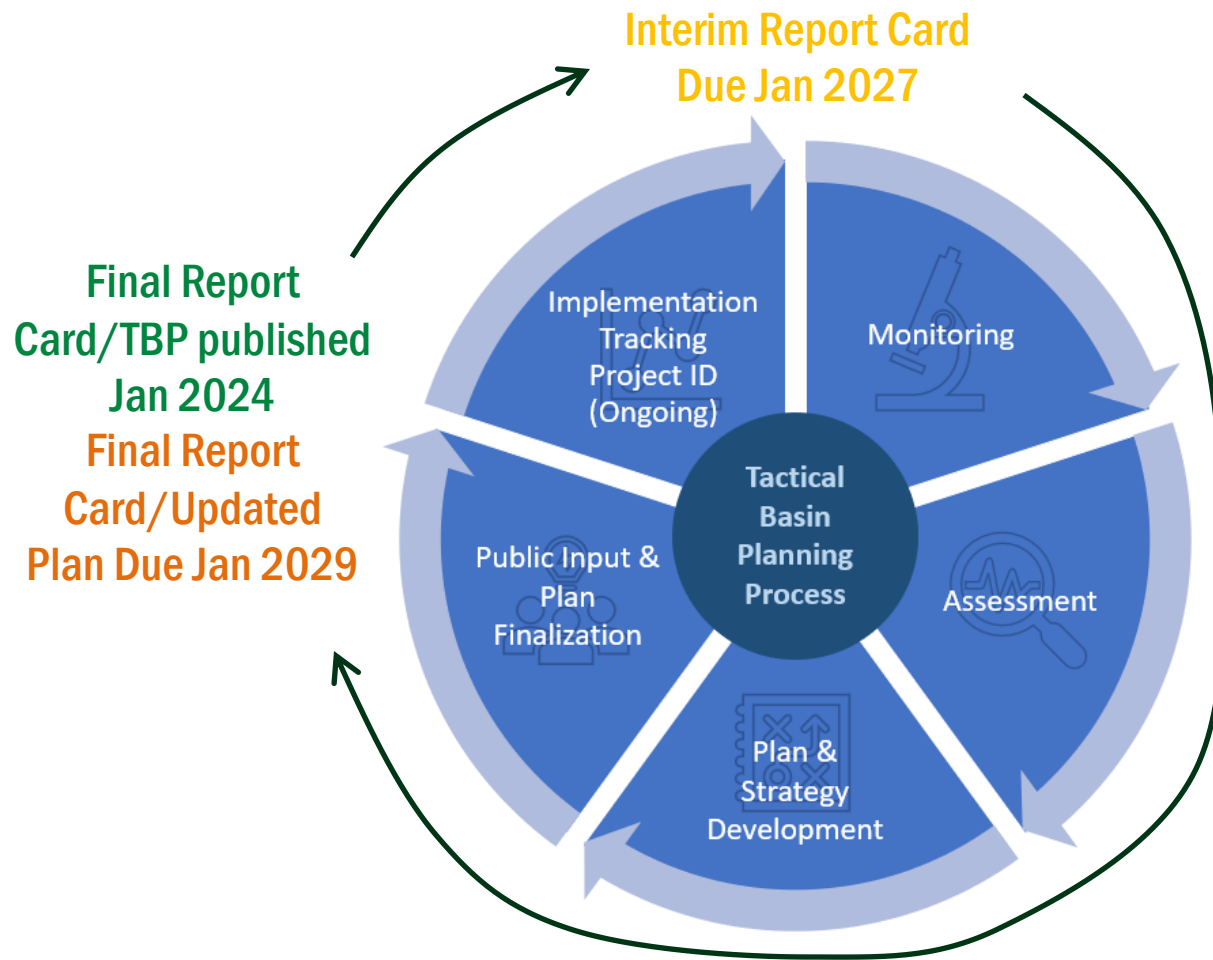
**5 General Sectors for
Water Quality Planning**

2023 Winooski TBP Published Jan 2024

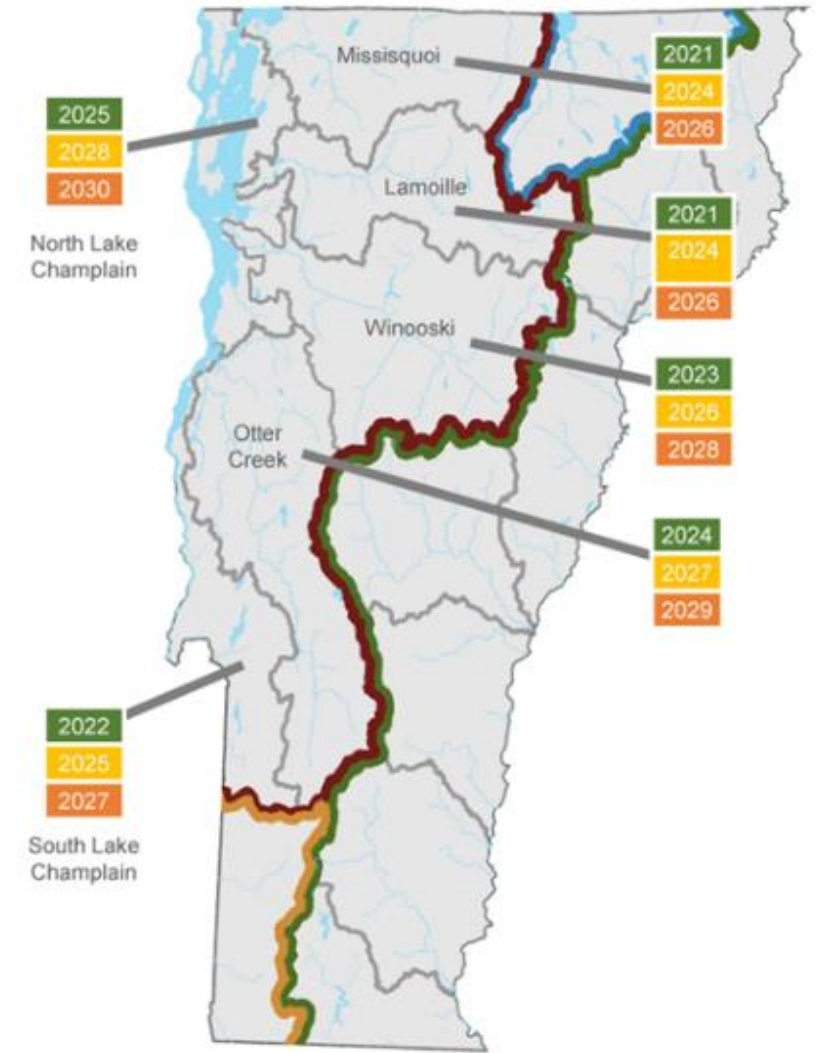
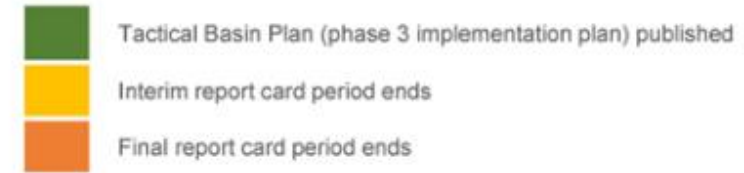
- Largest VT watershed by area/50 Towns
- 55 Lake, Stream, and Wetland Protection Priorities
- 28 Lake and Stream Restoration Priorities
- 50 Water Quality Strategies to Implement
- 71 Monitoring Priorities



EPA Reporting for Lake Champlain Phosphorus TMDL

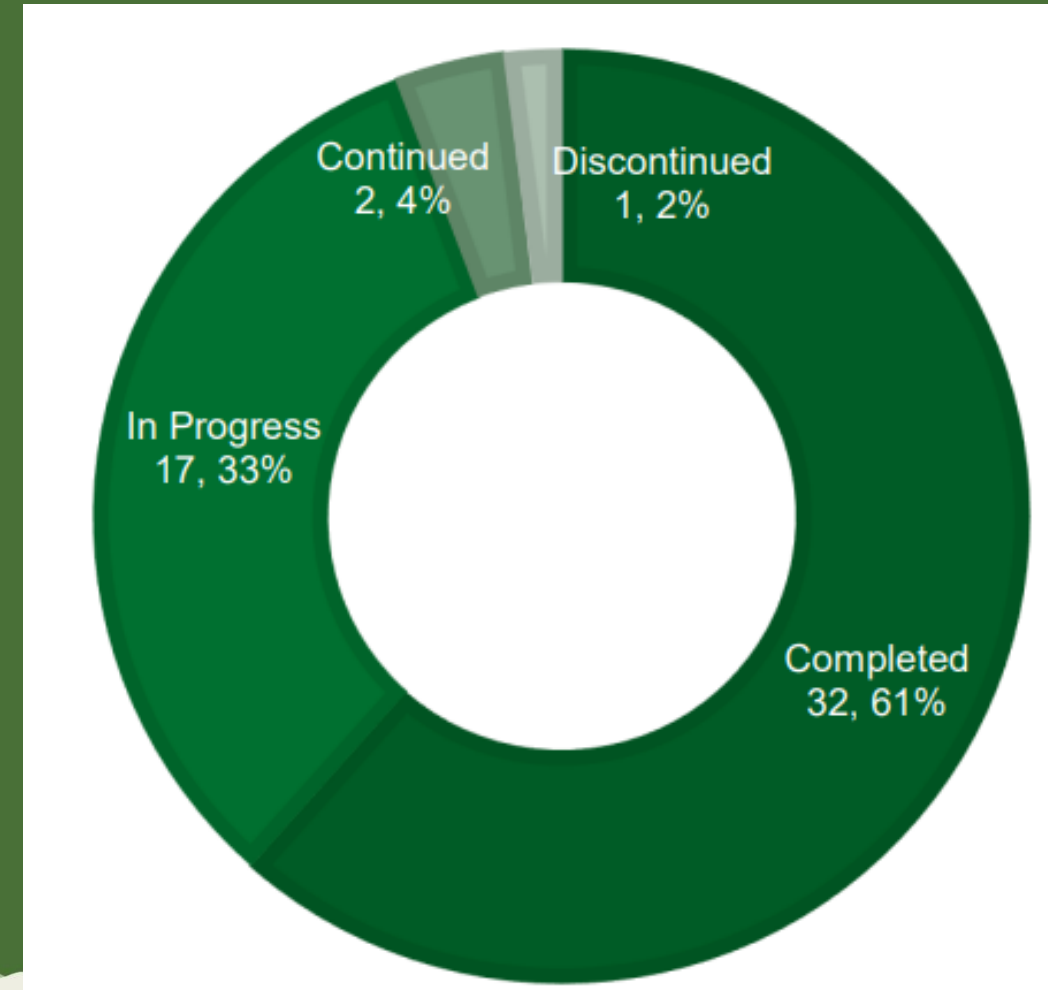


Lake Champlain TMDL accountability framework schedule by Tactical Basin Plan watershed (phase 3 implementation)



2018-2023 Winooski TBP Final Report Card

- Report Card on pp. 98-127 of 2023 Performance Report:
<https://dec.vermont.gov/water-investment/cwi/reports>
- 17,000 acres of ag practices; 335 acres of impervious surface treated; 32 riparian acres planted; 82 acres of riparian corridors and 92 acres of wetlands protected; 26 miles of road improvements
- 11% of overall [2036 Phosphorus TMDL goal](#) achieved



2018-2023 Winooski Report Card: Example

Strategy Description	Priority Subbasin(s)	Priority Towns	Sector	Final Status	Explanation
Develop and provide support for equine specific programing including support for installing horse manure compost bins and making pasture improvements	Mad River		Agriculture	Complete	WNRCD hosted an equine manure management on-farm tour and spoke at the annual Vermont horse council meeting to promote manure management and knowledge of the RAPs. Moving forward, WNRCD and LCCD could borrow from the Poultney-Mettowee NRCD who has developed a RAP packet for Horse Owners that it distributes to town offices, horse owners, stables, and at RAP workshops.
Provide technical and financial resources to farms below the threshold for VAAFM Small Farm Operations			Agriculture	In Progress	As of 2023 WNRCD has started reaching out to farms not regulated by the Required Agricultural Practices for potential riparian buffer planting sites. At these farms, WNRCD is sharing information on erosion control on streams that flow through their property as well as discussing temporary fencing for animals during more critical times of the year.
Complete targeted water quality sampling on 3 farms to help identify source areas			Agriculture	In Progress	WNRCD is working with the basin planner and the Lakes and Ponds Management and Protection Program to evaluate up to 12 tributary sites draining to Shelburne Pond for phosphorus and nitrogen water quality sampling under the 2024 LaRosa Partnership program. Depending on the finalized sites, up to 3 farms would be evaluated to identify watershed nutrient sources to the phosphorus-impaired lake. This sub-watershed (Muddy Brook) has the highest remaining agricultural phosphorus target in the Winooski basin.
Support the development and implementation of Phosphorus Control Plans and implementation of the Flow Restoration Plans.	Lower Winooski	MS4 entities	Developed Land - Other	Complete	CCRPC, DEC, and VTrans support the 7 MS4 communities in developing and implementing projects from Phosphorus Control Plans and Flow Restoration Plans. Phosphorus Control Plans were completed and submitted on April 1, 2021 to DEC for all MS4 municipalities with significant land area within Basin 8: Burlington, Winooski, Essex Junction, Essex, Shelburne, South Burlington and Williston. Numerous projects identified in PCPs and FRPs have been constructed. See Annual Reports filed by MS4s towns for details on constructed FRP projects.

Many sources for updating Clean Water progress

- Project databases
- ANR, AAFM, VTrans staff
- Basin planning partners:
 - Chittenden County RPC
 - Central Vermont RPC
 - Lamoille County PC
 - Winooski NRCD
 - Lamoille CCD
 - Friends of the Mad River
 - Friends of the Winooski River
- Other watershed or statewide groups (e.g., TNC, VLT)
- Towns

Prepping for Jan 2027 Report Card

Aug-Oct: Prepare draft

Sep-Nov: Partner feedback –
CWAC Presentation?

Nov-Jan: Finalize report,
ANR/EPA review

	A	B	C	D	E	F	G	H	I
1		Strategy	Priority Area or Watershed	Town(s)	Partner(s)	Funding	Progress for Interim EPA Report Card		
2		Strategies to address runoff from Developed Lands - Stormwater					2024_Q2	2024_Q3	2024_Q4
3	11	Develop stormwater mapping reports, stormwater master plans (SWMPs), and illicit discharge and detection studies to identify priority stormwater projects.	Basin wide	Waterbury, Bolton, Brookfield, Orange, Duxbury, or other DEC-identified regions	DEC, CCRPC, CVRPC, FWR, Municipalities, LCPC, WNRCD	CWI, Formula		CVRPC - submitted BRIC application for Waterbury SWMPing	Any project development/implementation of projects from the Stowe SWMP that should be noted here? Ask Peter Danforth.
4	12	Support the prioritization, design, and implementation of stormwater projects.	Basin wide	Towns with existing stormwater master plans, phosphorus control plans, or other stormwater-related planning. See Table 16.	DEC, CCRPC, CVRPC, FWR, FMR, Municipalities, LCPC, WNRCD	CWI, TBPSG, Formula	LCPC- Stowe SWMP 30% designs potentially stalled at town level FWR- Discussed older Plainfield rain garden needing maintenance (other opportunities for old SW maintenance?) FWR - note that it is going to be nearly impossible to fund SW D&I in the current funding structure; we will not develop new SW projects until this changes CCRPC - MS4 towns working separately to implement projects related to their Phosphorus Control Plans and Flow Restoration Plans. <i>(Kjf note: received WPD ID requests on PCP or FRP projects from Williston and Essex Jct)</i>	CVRPC - advancing Calais stormwater projects	FMR - Multiple meetings with municipal partners to discuss existing SWMPs & barriers to implementation. Ongoing efforts around Irasville Master Planning (focus on protecting existing wetland and mitigating future stormwater impacts) CCRPC - Using Federal transportation funds, assist Essex, Essex Junction and Colchester with video assessment of conditions of stormwater infrastructure (pipes, catch basins, etc.) LCPC-Implementation of Phase I of the Smugglers Notch Stormwater/Drainage Study projects took place this spring/summer of 2024 including the restoration of former bootleg parking areas in the riparian zone in the Notch along VT Route 108.
	13	Provide outreach and technical assistance to landowners with 3-acre parcels.	Basin wide with emphasis on watersheds with high proportion of developed lands, including Stevens Branch, Tail Branch	Basin wide, especially Barre, Barre City, Berlin, Burlington, Montpelier, Williamstown, Northfield, Stowe, Shelburne, Williston	DEC, CVRPC, LCPC, WNRCD	LCBP, Green Schools Initiative, ARPA 3-acre funds	FWR nearly finished Richmond schools 3-acre design; waiting for final SW permit and Act 250 permit. FWR participated in WUV Green Schools call. We will not pursue PM role at any of our schools, but may reach out to teachers re potential education projects w/LCBP \$ for 25-26 school year that could be leveraged funds for GSP	FWR - attended webinar on Green Schools initiative	

Ways for CWAC to Contribute to TBP Strategies

- Contribute knowledge of surface water management efforts in your towns
 - keith.fritschie@vermont.gov
 - [Google doc to report strategy outcomes by town](#)
- Steer CWAC meeting topics that draw in technical staff, partners, and town members from across the basin to popularize new programs/resources
- Provide local perspectives and/or connect towns and partners
- Other ideas? Provide feedback on this google doc: [Google doc to report strategy outcomes by town](#)

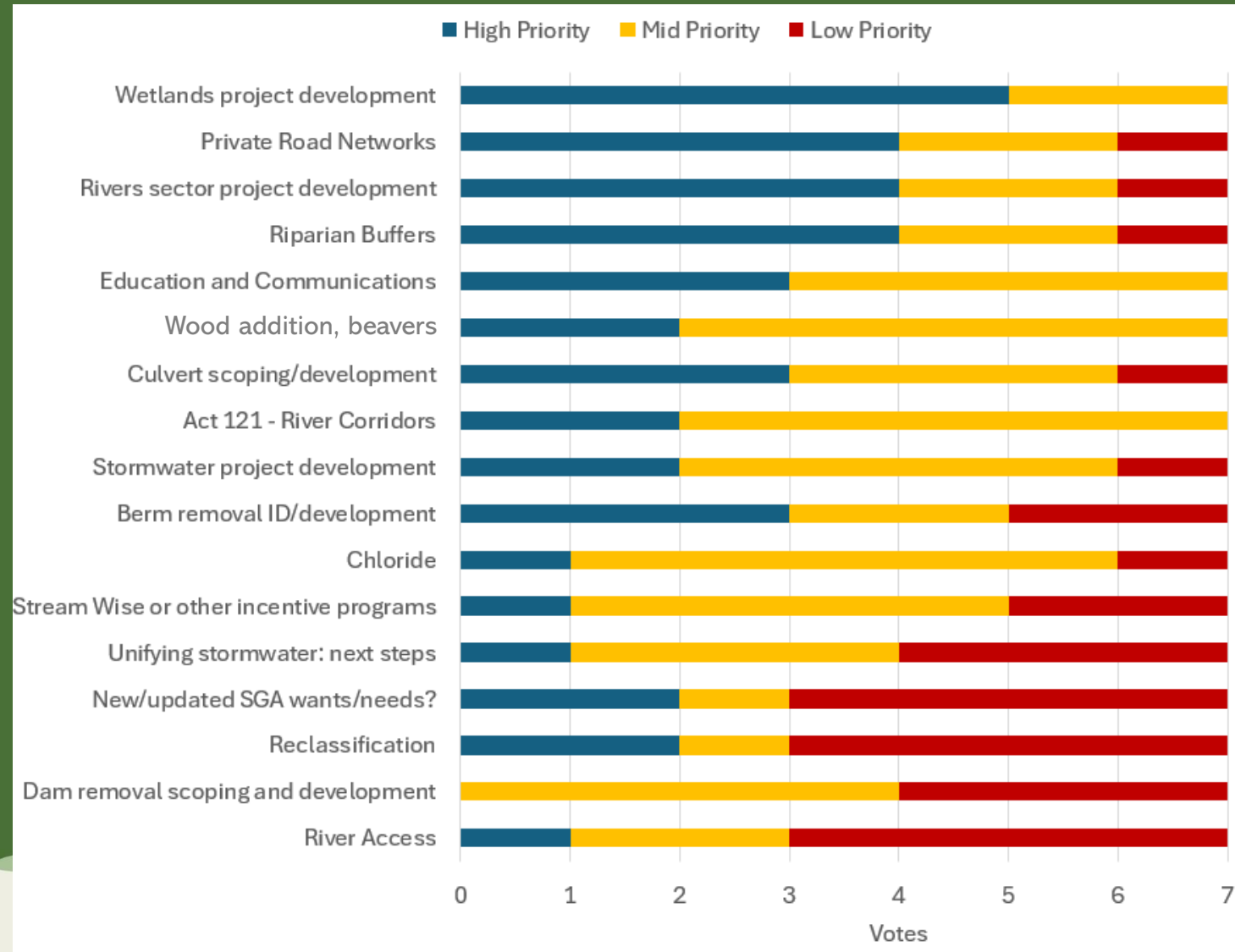
Contribute knowledge of surface water management

[Google doc to report strategy outcomes by town](#)

1	Strategy		Priority Area or	Town(s)	Partner(s)	Funding	Basin-Wide	Barre City	Barre Town	Berlin	Bolton
17	13	Provide outreach and technical assistance to landowners with 3-acre parcels.	Basin wide with emphasis on watersheds with high proportion of developed lands, including Stevens Branch, Jail Branch, Lower Winooski, Muddy Brook	Basin wide, especially Barre, Barre City, Berlin, Burlington, Montpelier, Williamstown, Northfield, Stowe, Shelburne, Williston, Essex Junction, Winooski, Burlington	DEC, CVRPC, LCCD, LCPC, WNRCD	LCBP, Green Schools Initiative, ARPA 3-acre funds					
18	14	Promote and, where appropriate, coordinate existing campaigns to raise awareness of residential stormwater management approaches (e.g., Rethink Runoff, Storm Smart, Lawn to Lake, Blue BTV).	Basin wide	All towns	DEC, FMR, FWR, LCBP, LCCD, LCPC, WNRCD	LCBP, TBSPG					
19	15	Educate towns, businesses and contractors on winter maintenance strategies that reduce use of chlorides.	Catchments of chloride-impaired waters (Centennial Brook, Sunnyside Brook) and watersheds with high proportion of developed lands,	Barre, Barre City, Berlin, Burlington, Montpelier, Williamstown, Northfield, Stowe, Shelburne,	CCPRC, CVRPC, FMR, FWR, LCPC, WNRCD, UVM Sea Grant	LCBP					

Steer CWAC meeting topics

- Partner org conservation priorities
- Lower priority partner topics may:
 - may already be addressed through other regional planning conversations
 - may not be partner of partners' core missions
 - may already be getting implemented smoothly
- Okay (and expected?) if partner and CWAC topic priorities aren't exactly aligned



Provide local perspectives and connect towns and partners

- Knowledge of stormwater, flood resilience, wastewater, wetlands or other water resource conversations happening at the town level?
- Perspectives on local interest or need for voluntary programs: restoration practices, protection programs for high quality habitats, local river condition or residential stormwater assessment needs?
- Connecting partners to towns: are there DEC or partner priorities for certain towns that CWAC members could connect the parties on

Ways for CWAC to Contribute to TBP Strategies

[Google doc to report strategy outcomes by town](#)

	A	B	C	D	E	F	G	H	I	J
1		Strategy	Priority Area or Watershed	Town(s)	Partner(s)	Funding	Planner thoughts on CWAC Role	CVRPC Comments on CWAC Role	Calais Comments on CWAC Role	Middlesex Comments on CWAC Role
		maintenance strategies that reduce use of chlorides.	high proportion of developed lands, including: Stevens Branch, Jail Branch, Lower Winooski, Muddy Brook	Stowe, Shelburne, Williston, Essex Junction, Winooski, Burlington	LCPC, WNRCD, UVM Sea Grant		Help host/advertise trainings/info sessions on chloride management			
20	16	Support evaluating and improving town salt and sand storage facilities to improve stormwater management on these sites.	Basin wide	All towns	CCRPC, CVRPC, FWR, LCCD, LCPC, WNRCD, Municipalities	SWMG, GIA	assist partner outreach to town as needed			
21	Strategies to address runoff from Developed Lands - Roads									
22	17	Assist municipalities in updating REI and prioritizing and implementing roads projects to meet the Municipal Roads General Permit (MRGP).	Basin wide	All towns with focus on Barre City, Stowe, Northfield, Montpelier, Barre Town, Calais, Plainfield, Moretown, Berlin, Cabot, Duxbury, and Middlesex	CCRPC, CVRPC, LCPC, Municipalities	AOT Municipal Assistance Grants	Host/advertise info sessions on using new DIRT mapper to further prioritize among many non-compliant MRGP segments			

Clean Water Project Explorer: 1187 potential projects, 244 in progress, ~6000 completed

