RIGHTS OF WAY, LAND USE, & GLYPHOSATE in LAKE CHAMPLAIN BASIN March 2014

This chart estimates distances where rights-of-way adjacent to water can contribute the herbicide glyphosate as a source of phosphorus to the Lake Champlain Basin. Parallel miles are approximated using DeLorme Vermont Atlas & Gazetteer 2000. Google ortho maps are used in comparison with VELCO's map to locate transmission lines and substations. See references () for VELCO's map and explanation of buffers for glyphosate buffers. (compiled by Sylvia Knight, www.earthcommunityadvocate.info)

LAND USE	Water Body	# Crossings	# of paralle	el miles Towns	DeLorme Atlas VT Page	Velco map	
MISSISOUOI	RIVER & BAY						
Highway Rt 78 (2		1	4.8	Swanton	50-51		
0 0	Missisquoi NWR		2.4	Swanton	50-51		
	Carman's WMA		1.0	West Swanton	50		
	L Champlain		1.0	West Swanton, E.Alburg	50		
NECR (1)	Missisquoi R & NWR	1	9.6	Swanton, W. Swanton	50-51		
	Missisquoi R	4		Swanton, W. Swanton	50-51		
VELCO Substation	n (5) Missisquoi R trib	(adjacei	nt)	Highgate at routes 78 & 207	Google	*	
VELCO Transm.	Missisquoi R & trib	` '	,	Highgate	G	*	
AGRICULTURE & Missisquoi R at oxbow -both shores HIGHWAY 78		s 4.8	Highgate	51; Google			
MISSISQUOI RIVER: TOTAL PARALLEL MILES 23.6							
ST. ALBANS E	RAV						
RESIDENTIAL	St. Albans Bay Shore	a	12.8	St. Albans, Georgia	50-51		
	ial landscape use of glyph				50 51		
NECR	Deer Brook		2.4	Georgia	51		
	Mill R wetland		1.6	Georgia	51		
	Mullens Creek & we		8.0	Milton	45		
ST. ALBANS BAY TOTAL PARALLEL MILES 17.6							

LAND USE	Water Body	# Crossings	# of parallel m	lles Towns	DeLorme Atlas VT Page
RT 127	FS BAY AL Malletts Bay Winooski R & we BAY TOTAL PARA		5.6 4.0 9.6	Colchester Burlington, Colchester	44 44
BROAD L	AKE				
NECR	Winooski R. (C	hitt.Co) 2	18.4	Williston, Richmond, Bo	olton 45-46
	•	/ash.Co to Mtplr)		Waterbury, Middlesex, M	
VT RR yard	Burlington Bay, LC		1.2	Burlington	60
VT RR tracks	Burlington Bay		1.6	Burlington	60
VT RR	Shelburne Bay, LC		1.6	Shelburne	44
	Potash Bk	1		So. Burlington	44
	Monroe Bk (1)	1 (6)		Shelburne	44
	LaPlatte R	1		Shelburne	44
	McCabes Bk	1		Shelburne	44
	Holmes Ck	1		Charlotte	38
	Pringle Bk	1		Charlotte	38
	Thorp Bk	1		Charlotte	38
	Kimball Bk	1		Ferrisburgh	38
	Lewis Ck	1		Ferrisburgh	38
	Little Otter Ck	1		Ferrisburgh	38
VELCO	Potash Bk	1		So. Burlington } A	ll empty to Shelburne Bay
	Munroe Bk	1		Shelburne } N	OTE same streams crossed by VT RR
	LaPlatte R	1		Shelburne }	
	McCabes Bk	1 (wetl	and) 1	Shelburne }	VELCO map (4)
	Holmes Ck	1		Charlotte	
	Pringle Bk	1		Charlotte	
	Thorp Bk	1		Charlotte	
	Kimball Bk	1		Ferrisburgh	
	Lewis Ck	1		Ferrisburgh	
	Little Otter Ck	1		Ferrisburgh	

LAND USE	Water Body	# Crossings # of parallel miles	Towns	DeLorme Atlas VT Page	Velco map
AGRICULTURE	Dead Creek	9.6	Ferrisburgh, Panton, A	ddison 38	

BROAD LAKE: TOTAL CROSSINGS: 20. (How many RR abutments are treated with glyphosate 2 ft from water?)
TOTAL PARALLEL MILES: 54.4

SOUTHERN WATERSHEDS

VELCO subs	station Whipple Hollow wetland 300 X 3 (Castleton R watershed)	300 ft approx.	West Rutland	29 *	
VT RR	Little Otter Ck trib	3.6	New Haven	38-39	
	Otter Creek, associated wetlands	16.0	Middlebury, Salisbury, Leicester, Brandon	32-33	
	Otter Creek	17.6	Pittsford, Rutland	29	
	Otter Creek	9.6	Clarendon, Wallingford	29	
	Otter Creek	8.0	Danby, Dorset	25	
US RT 7	Otter Creek (at guardrails)	9.6	Wallingford, Danby	29, 25	

SOUTHERN WATERSHEDS TOTAL PARALLEL MILES 64.4

REFERENCES

- (1) Railroads are permitted to use glyphosate products (Accord, Rodeo) up to **2 feet** from water at bridge abuttments, 15 visible feet from parallel waters, to tie end where water is less than 10 feet from railroad ties.
- (2) Vtrans permit for highway weed management allows glyphosate up to 10 feet from edge of parallel waters; up to 15 feet at bridge abutments; 30 feet from water at crossings.
- (3) VELCO is permitted to use glyphosate up to 10 feet from water.
- (4) * indicates map of VELCO Transmission System and Waters of the State. www.earthcommunityadvocate.info/VELCOwetlands7 13.jpg
- (5) Herbicide use at substations is currently unregulated even though their infrastructure makes them both point- and non-point sources of pollution and contamination. See www.earthcommunityadvocate.info for more information.
- (6) Munroe Brook TMDL <u>www.epa.gov/waters/tmdldocs/35084 Munroe%20Brook%20VT%20TMDL.pdf</u> Quote: "The TMDL establishes the allowable pollutant loading from all contributing sources at a level necessary to attain the applicable water quality standards."