

STATE OF VERMONT

2014

303(d) LIST OF IMPAIRED WATERS

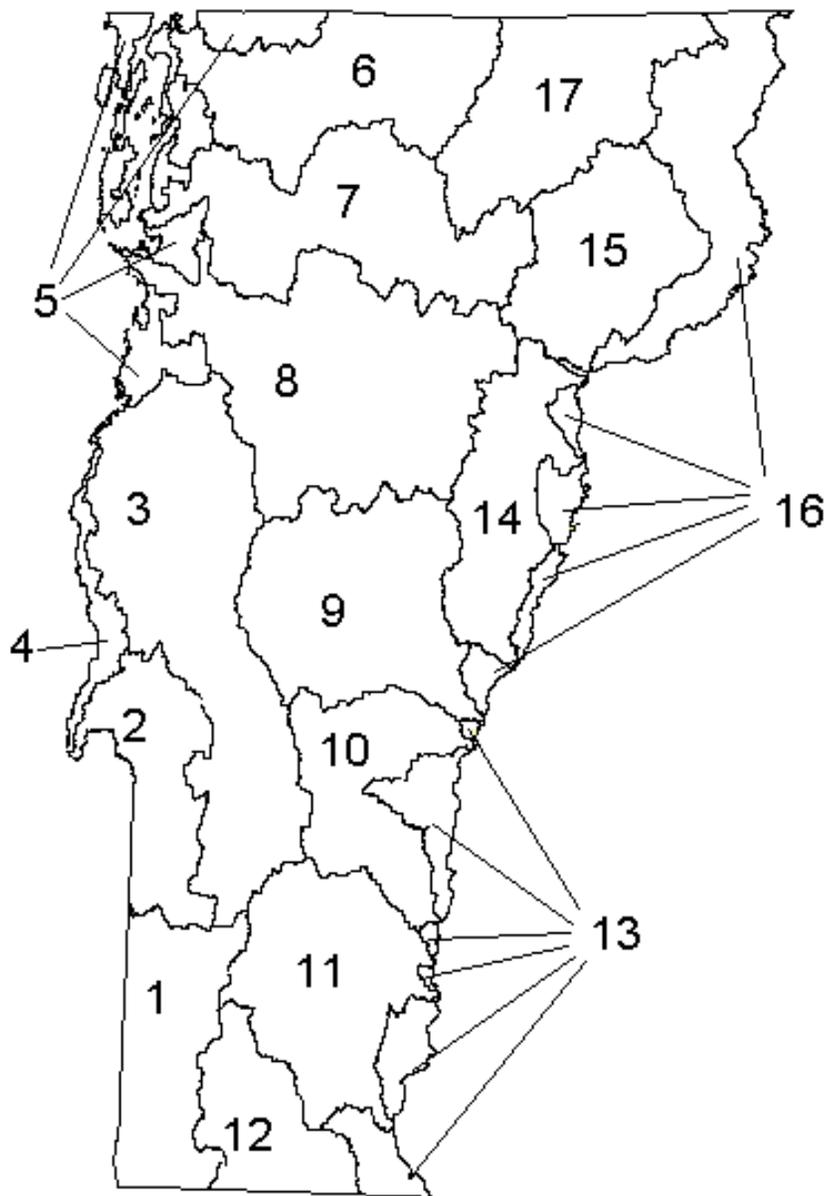
PART A - IMPAIRED SURFACE WATERS IN NEED OF TMDL

SEPTEMBER 2014

(Approved by USEPA Region 1 – September 30, 2014)

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Major Vermont River Basins

1. Battenkill
2. Poultney-Mettawee
3. Otter Creek
4. Lower Lake Champlain
5. Upper Lake Champlain
6. Missisquoi
7. Lamoille
8. Winooski
9. White
10. Ottauquechee
11. West
12. Deerfield
13. Lower Connecticut
14. Wells, Waits, Ompompanoosic
15. Passumpsic
16. Upper Connecticut
17. Lake Memphremagog

PART A – IMPAIRED WATERS IN NEED OF A TMDL (303d LIST)

Part A of the 2014 List of Waters identifies impaired surface waters where a total maximum daily load (TMDL) is required. Part A of the List has been prepared in accordance with the Vermont Surface Water Assessment and Listing Methodology, current EPA Guidance and the Environmental Protection Regulations 40 CFR 130.7. A TMDL is deemed necessary for these waters (unless remediation will be completed prior to the scheduled TMDL) in order to establish the maximum limit of a pollutant that may be introduced into the water and still ensure the Water Quality Standards are attained and maintained.

Explanation of Column Headings for Part A

Waterbody ID - An alphanumeric code used to spatially locate designated surface waterbodies. For example, VT01-02 and VT01-03L05 represent a river and a lake waterbody, respectively, located in Vermont river basin #01. River basin #01 includes the Batten Kill, Hoosic and Walloomsac rivers; there are 17 river basins for planning purposes identified in Vermont.

ADB Code(s) – Assessment Database segment code used for EPA tracking purposes. If blank, Waterbody ID represents entire ADB code.

Segment Name/Description - The name of the river/stream segment or lake/pond. Entries denoted by “**” indicate newly identified impairments since the 2012 list.

Pollutant(s) - The pollutant or pollutants that cause a violation of the Vermont Water Quality Standards.

Use(s) Impaired - An indication of which designated or existing uses are impaired. The following conventions are used to represent a specific use:

- | | |
|---|-----------------------------|
| AES – aesthetics | FC - fish consumption |
| ALS - aquatic life support | DWS - drinking water supply |
| CR - contact recreation (i.e. swimming) | |
| 2CR - secondary contact recreation (fishing, boating) | |

Surface Water Quality Problem - A brief description of the problem found in the particular segment.

TMDL Completion Priority - An indication of priority as to when TMDLs will be completed (H=high 1-3 years, M=medium 4-8 years, L=low 8+ years).

	Lakes and Ponds	Streams and Rivers	Total
Total number of impairment entries listed in Part A:	13	68 (2)	81

Number in parentheses () represents new Part A listings since the 2012 listing cycle. The total number of Part A listings has decreased from 86 in 2012 to 81 in 2014.

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VT01-02	01	HOOSIC RIVER, ENTIRE 7 MILE LENGTH IN VERMONT	PCBs	FC	ELEVATED LEVELS OF TOXIC CONTAMINANT IN BROWN TROUT	L
	02	LADD BROOK, MOUTH TO RM 0.4	SEDIMENT	ALS	INDICATION OF SEDIMENT STRESS; POTENTIAL IMPACTS FROM ERODING GRAVEL ROADS	M
VT01-03	01	BARNEY BROOK, MOUTH TO RM 1.5	SEDIMENT, IRON	ALS, AES	DOWNSTREAM OF LANDFILL, HAZ SITE, AND CONSTRUCTED WETLANDS; SILT AND IRON PRECIPITATE CAUSING FISH/INVERT IMPACTS	M
VT01-05	01	LYE BROOK, RM 2.5 TO HEADWATERS (4.5 MILES)	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT01-06	01	BRANCH POND BROOK (POND TO ROARING BRANCH)	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
	02	FAYVILLE BRANCH, RM 3.7 TO HEADWATERS	ACID	ALS	ACIDIFICATION, ACID DEPOSITION	M
VT02-02	01	HUBBARDTON RIVER, TRIB #7, BELOW WWTF DISCHARGE	E. COLI, NUTRIENTS, TEMPERATURE	ALS, CR, 2CR	BENSON WWTF, AG RUNOFF POSSIBLE SOURCES; MONITORING & ASSESSMENT REQUIRED	M
VT02-03	01	CASTLETON RIVER, FAIR HAVEN	E. COLI	CR	WWTF PUMP STATION OVERFLOWS	L
VT02-05	02	UNNAMED TRIB TO METTAWEE RIVER	METALS (IRON, ZINC)	ALS	PAWLET LANDFILL LEACHATE	M
VT03-01	02	LOWER OTTER CREEK, BELOW VERGENNES WWTF (APPROX 7 MILES)	E. COLI	CR	PERIODIC & RECURRING OVERFLOWS AT PUMP STATIONS WITHIN THE COLLECTION SYSTEM	L
VT03-05	01	OTTER CREEK, VICINITY OF RUTLAND CITY WWTF	E. COLI	CR, AES	RUTLAND CITY WWTF COLLECTION SYSTEM PASSES CSOs	L
VT03-07	02	LITTLE OTTER CREEK, RM 15.4 TO RM 16.4	NUTRIENTS, SEDIMENT	ALS	AGRICULTURAL RUNOFF	H
VT03-12	02	HALNON BROOK, TRIBUTARY #1	NUTRIENTS	ALS	ELEVATED NUTRIENTS AFFECT AQUATIC BIOTA	M

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VT03-14	01	EAST CREEK, MOUTH TO 0.2 MI (BELOW CSO DISCHARGE PTS #2 AND #9)	E. COLI	CR, AES	RUTLAND CITY COLLECTION SYSTEM CSO	L
VT04-01L01	01, 02, 03, 04	OTTER CREEK SECTION - LAKE CHAMPLAIN (Ferrisburg)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT04-01L02	01, 02, 03	PORT HENRY SECTION - LAKE CHAMPLAIN (Ferrisburg)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT04-02L01	01, 02	SOUTHERN SECTION - LAKE CHAMPLAIN (Bridport)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-01	01	ROCK RIVER - MOUTH TO VT/QUE BORDER (3.6 MILES)	NUTRIENTS, SEDIMENT	AES, AH	ALGAL GROWTH; AGRICULTURAL RUNOFF	H
	02	ROCK RIVER, UPSTREAM FROM QUE/VT BORDER (APPROX 13 MILES)	NUTRIENTS, SEDIMENT	ALS	AGRICULTURAL RUNOFF; NUTRIENT ENRICHMENT	H
	03	SAXE BROOK (TRIB TO ROCK RIVER) FROM MOUTH UPSTREAM 1 MILE	NUTRIENTS	ALS	AGRICULTURAL RUNOFF	H
VT05-04L01	01, 02, 03	NORTHEAST ARM - LAKE CHAMPLAIN (Swanton)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-04L02	01, 02	ISLE LAMOTTE - LAKE CHAMPLAIN (Alburg)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-07	01	RUGG BROOK, FROM MOUTH TO APPROX 3.1 MILES UPSTREAM	NUTRIENTS, SEDIMENT, E. COLI	ALS, CR, AES	AGRICULTURAL RUNOFF	H
	03	JEWETT BROOK (3.5 MILES)	NUTRIENTS, SEDIMENT, E. COLI	ALS	AGRICULTURAL RUNOFF	H
	04	MILL RIVER, FROM ST. ALBANS BAY TO 1.8 MILES UPSTREAM	NUTRIENTS, SEDIMENT	ALS	AGRICULTURAL RUNOFF, STREAMBANK EROSION	H

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VT05-07	05	STEVENS BROOK, MOUTH UPSTREAM 6.5 MILES	NUTRIENTS, SEDIMENT, E. COLI	ALS, CR	AGRICULTURAL RUNOFF; MORPHOLOGICAL INSTABILITY, ST ALBANS CSO	H
	06	**STEVENS BROOK, LASALLE ST DOWNSTREAM 0.5 MI	METALS (Cd, Ba, CN, Zn)	ALS, CR	SED CONTAMINATION FROM ST ALBANS GAS AND LIGHT HAZ WASTE SITE	L
VT05-07L01	01, 02	ST. ALBANS BAY - LAKE CHAMPLAIN (St. Albans)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-09L01	01, 02, 03	MALLETTS BAY - LAKE CHAMPLAIN (Colchester)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-10L01	01, 02, 03	BURLINGTON BAY - LAKE CHAMPLAIN (Burlington)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-10L02	01, 02	MAIN SECTION - LAKE CHAMPLAIN (South Hero)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT05-11L01	01, 02, 03	SHELBURNE BAY - LAKE CHAMPLAIN (Shelburne)	PCBs	FC	ELEVATED LEVELS OF PCBs IN LAKE TROUT	L
VT06-04	01	BERRY BK, MOUTH UP TO AND INCLUDING NO. TRIB (APPROX. 1 MI)	SEDIMENT, NUTRIENTS	ALS, AES	AGRICULTURAL RUNOFF, AQUATIC HABITAT IMPACTS	H
	02	GODIN BROOK	NUTRIENTS, SEDIMENT	ALS, AES	AGRICULTURAL RUNOFF, AQUATIC HABITAT IMPACTS	H
	03	SAMSONVILLE BROOK	NUTRIENTS, SEDIMENT	ALS, AES	AGRICULTURAL RUNOFF, AQUATIC HABITAT IMPACTS	H
	04	TROUT BROOK, UPSTREAM FROM MOUTH FOR 2.3 MILES	NUTRIENTS	ALS	AGRICULTURAL RUNOFF	H
VT06-05	02	WANZER BROOK (MOUTH TO RM 4.0)	NUTRIENTS, SEDIMENT	ALS	AGRICULTURAL RUNOFF	H
VT06-08	03	MUD CREEK, FROM VT/QUE BORDER UP TO RM 6.5 (APPROX. 3.2 MILES)	NUTRIENTS, SEDIMENT	ALS, AES	AGRICULTURAL RUNOFF; NUTRIENT ENRICHMENT	H

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VT06-08	04	COBURN BROOK (MOUTH TO RM 0.2)	NUTRIENTS	ALS	AGRICULTURAL ACTIVITY AND RUNOFF	H
	05	BURGESS BROOK, RM 4.9 TO 5.4	SEDIMENT	ALS, CR	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
	06	BURGESS BROOK TRIBUTARY# 11, MOUTH TO RM 0.5	SEDIMENT	ALS, CR	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
VT07-03	01	DEER BROOK, MOUTH TO 2.5 MILES UPSTREAM	SEDIMENT	ALS	EROSION FROM STORMWATER DISCHARGES; CORRODING ROAD CULVERTS; BMPs IMPLEMENTED	M
VT07-08	01	RODMAN BROOK, MOUTH TO RM 0.6	IRON	ALS, AES	IMPACTS FROM LANDFILL LEACHATE	M
VT07-13	01	TRIB TO BREWSTER RIVER (1 MILE)	METALS (IRON)	AES, ALS	IRON SEEPS ON STREAMBANK; BMPs IN PLACE	L
VT07-15	01	HUTCHINS BROOK, RM 2.0 TO 3.0	SEDIMENT	ALS, AES, CR	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
	02	HUTCHINS BROOK TRIBUTARY #4, MOUTH TO RM 0.3	SEDIMENT	ALS	ASBESTOS MINE TAILINGS EROSION; ASBESTOS FIBERS	L
VT08-01	01	**WINOOSKI RIVER, MOUTH TO WINOOSKI DAM (~10.5 MILES)	E. COLI	CR	BURLINGTON CSOs	L
VT08-02	03	TRIBUTARY #4 AND TRIB TO TRIB #4, MUDDY BROOK	UNDEFINED	ALS	CHLORIDE AND TCE IMPACT FROM PAST DISPOSAL ACTIVITIES	L
VT08-02L01		SHELBURNE POND (Shelburne)	PHOSPHORUS	ALS, CR, 2CR	EXCESSIVE ALGAE AND NATIVE PLANT GROWTH CAUSES PERIODIC LOW D.O./FISH KILLS	L
VT08-05	01	WINOOSKI RIVER ABOVE MONTPELIER WWTF DISCHARGE	E. COLI	CR	MONTPELIER WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L
VT08-11L02	02	WATERBURY RESERVOIR (Waterbury)	SEDIMENT	ALS, AES	SEDIMENTATION, TURBIDITY	L

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VT08-12	01	INN BROOK, RM 0.3 TO 0.6	IRON	ALS, AES	IRON SEEPS ORIGINATING FROM DISTURBED SOILS	L
VT08-13	01	LOWER NORTH BRANCH, WINOOSKI RIVER (APPROX 1 MILE)	E. COLI	CR	MONTPELIER WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L
VT08-16	01	GUNNER BROOK, BELOW FARWELL ST. DUMP (APPROX 0.5 MILE)	METALS (Cu, Fe), NUTRIENTS, SEDIMENT	AES, ALS	FARWELL ST. LANDFILL LEACHATE, SURFACE RUNOFF FROM DEVELOPED AREA	M
VT08-20	01	CLAY BROOK, RM 1.8 TO RM 2.3	STORMWATER, IRON	ALS, AES	STORMWATER RUNOFF, EROSION FROM CONSTRUCTION ACTIVITIES & GRAVEL PARKING LOT; INCREASED PEAK STORMWATER FLOWS	L
VT09-06	01	SMITH BROOK (MOUTH TO RM 0.3)	IRON	ALS, AES	APPARENT LEACHATE FROM ADJACENT OLD DUMP	M
VT10-04	01	WETLAND DRAINING TO SMALL STREAM TO OTTAUQUECHEE RIVER (BRIDGEWATER)	METALS (Fe)	ALS, AES	BRIDGEWATER LANDFILL; LEACHATE ENTERING SURFACE WATER VIA WETLAND	M
VT10-06	01	ROARING BROOK, RM 3.5 TO RM 4.2	STORMWATER	AES, ALS	STORMWATER RUNOFF, LAND DEVELOPMENT; EROSION	L
	02	E. BRANCH ROARING BROOK, RM 0.1 TO RM 0.6	STORMWATER, IRON	AES, ALS	STORMWATER RUNOFF, LAND DEVELOPMENT, EROSION	L
VT10-11	01	BLACK RIVER; FROM MOUTH TO FELLOWS DAM (~ 4.6 MI.)	E. COLI	CR	COMBINED SEWER OVERFLOWS	L
VT11-10	01	WEST RIVER, BELOW BALL MOUNTAIN DAM TO TOWNSHEND DAM (9 MILES)	TEMPERATURE	2CR	ELEVATED TEMPERATURES AFFECT FISHERY	L
VT11-15	03	BALL MOUNTAIN BROOK, ABOVE NORTH BRANCH CONFLUENCE	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
	04	BEAR CREEK BROOK, RM 0.7 TO HEADWATERS	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M

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VT11-15	05	KIDDER BROOK, CONFLUENCE OF SUN BOWL BROOK TO HEADWATERS	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT12-03	01	EAST BRANCH DEERFIELD RIVER, BELOW SOMERSET DAM, 5.2 MILES	ACID	ALS	ATMOSPHERIC DEPOSITION: CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT12-04	01	UPPER DEERFIELD RIVER, BELOW SEARSBURG DAM, 3.6 MILES	ACID	ALS	ATMOSPHERIC DEPOSITION; CRITICALLY ACIDIFIED; CHRONIC ACIDIFICATION	M
VT12-05	01	NO. BRANCH DEERFIELD RIVER, TANNERY BRK RD TO 0.2 MI ABOVE SNOW LAKE	STORMWATER	AES, ALS	STORMWATER RUNOFF, LAND DEVELOPMENT & CONSTRUCTION RELATED EROSION	L
	03	IRON STREAM, TRIB TO JACKS BROOK (0.3 MILE)	IRON	ALS	LAND DEVELOPMENT, SOURCE(S) NEED FURTHER ASSESSMENT	M
VT13-10	01	COMMISSARY BROOK TRIB, MOUTH TO RM 0.2	SEDIMENT	AES, ALS	BANK FAILURE AND EROSION DUE TO PAST CLAY MINING	L
VT13-13	01	CROSBY BROOK, MOUTH TO RM 0.7	SEDIMENT	ALS	HABITAT ALTERATIONS DUE TO SEDIMENTATION, CHANNELIZATION AND BUFFER LOSS	M
VT13-16	01	NEWTON BROOK, MOUTH TO RM 2.0	SEDIMENT	ALS	AGRICULTURAL ACTIVITY	H
VT14-02	02	COPPERAS BROOK (1 MILE)	METALS, ACID	AES, ALS, CR, 2CR, FC	HIGH METALS IN DRAINAGE FROM ABANDONED ELIZABETH MINE & FROM TAILINGS PILES	L
	04	LORDS BROOK, HEADWATER TRIBUTARY #2 AND TRIB 2-TRIB 1	METALS	ALS	ABANDONED MINE DRAINAGE BELOW "SOUTH CUT" AND "SOUTH MINE"	L
VT14-03	03	SCHOOLHOUSE BROOK AND TRIBUTARY	METALS, ACID	AES, ALS	HIGH METALS IN DRAINAGE FROM ABANDONED ELY MINE	M
VT14-05	01	PIKE HILL BROOK, FROM MOUTH TO 4 MILES UPSTREAM	METALS	AES, ALS	HIGH METALS IN DRAINAGE FROM ABANDONED PIKE HILL MINE & TAILINGS	M

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VT14-05	02	TABOR BRANCH TRIBUTARY #6, MOUTH TO RM 0.1	UNDEFINED	ALS	AGRICULTURAL RUNOFF	H
VT14-06	01	COOKVILLE TRIB #4, RM 1.0 TO 1.7	METALS	ALS	ACID MINE DRAINAGE ASSOCIATED WITH PIKE HILL MINE	L
VT15-01	01	PASSUMPSIC RIVER, TREMONT STREET DNWSTRM 5 MILES THROUGH ST J.	E. COLI	CR	ST. JOHNSBURY WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L
VT15-04	01	LOWER SLEEPERS RIVER IN ST. JOHNSBURY	E. COLI	CR	ST. JOHNSBURY WWTF COLLECTION SYSTEM PASSES COMBINED SEWER OVERFLOWS	L
VT17-01L01	01, 02	LAKE MEMPHREMAGOG (Newport)	PHOSPHORUS	AES, CR	EXCESSIVE ALGAE GROWTH, NUTRIENT ENRICHMENT	H
VT17-02	01	STEARNS BROOK TRIBUTARY (HOLLAND)	NUTRIENTS	ALS	AGRICULTURAL RUNOFF	H

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