

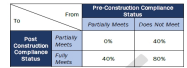
Road Name	Road Segment ID	Road Segment ID	Lake Segment	Road Length (km)	Road Slope (%)	Road Material	Pre-Construction Standard	Pre-Construct on P Loading (kg/km/yr)	Segment P Loading (kg/yr)	Post-Construct on Standard	Post-Construct on P Reduction (%)	Post-Construct on P Reduction (kg/yr)
McMullen Road	7050 McMullen Rd 38891	38891	Malletts Bay - DD	0.1	4.63	Paved - Non Curbed	Does Not Meet	4.52	0.45	Fully Meets	80%	0.36
McMullen Road	7050 McMullen Rd 38892	38892	Malletts Bay - DD	0.1	7.43	Paved - Non Curbed	Does Not Meet	6.00	0.60	Fully Meets	80%	0.48
McMullen Road	7050 McMullen Rd 38893	38893	Malletts Bay - DD	0.1	11.58	Paved - Non Curbed	Does Not Meet	7.49	0.75	Fully Meets	80%	0.60
Kingbury Crossing	7050 Kingbury Crp. 1	1	Malletts Bay - DD	0.1	11.32	Gravel	Does Not Meet	27.84	2.79	Fully Meets	80%	2.23
Kingbury Crossing	7050 Kingbury Crp. 6	6	Malletts Bay - DD	0.1	1.34	Gravel	Fully Meets	0.96	0.10	Fully Meets	0%	0
Cadreact Brook Rd	7050 Cadreact Rd 27	27	Northeast Arm - DD	0.1	1.88	Gravel	Does Not Meet	6.07	0.61	Fully Meets	80%	0.49
Cadreact Brook Rd	7050 Cadreact Rd 28	28	Northeast Arm - DD	0.1	8.57	Gravel	Does Not Meet	20.18	2.02	Fully Meets	80%	1.61
Cadreact Brook Rd	7050 Cadreact Rd 29	29	Northeast Arm - DD	0.1	5.58	Gravel	Does Not Meet	20.18	2.02	Fully Meets	80%	1.61
Cadreact Brook Rd	7050 Cadreact Rd 30	30	Northeast Arm - DD	0.1	0.70	Gravel	Does Not Meet	6.07	0.61	Fully Meets	80%	0.49
Beebe Hill Road South	7050 Beebe Hill Rd 35	35	Northeast Arm - DD	0.1	9.84	Gravel	Does Not Meet	20.18	2.02	Fully Meets	80%	1.61
Beebe Hill Road South	7050 Beebe Hill Rd 36	36	Northeast Arm - DD	0.1	1.54	Gravel	Does Not Meet	4.79	0.48	Fully Meets	80%	0.39
Beebe Hill Road South	7050 Beebe Hill Rd 37	37	Northeast Arm - DD	0.1	6.08	Gravel	Does Not Meet	20.18	2.02	Fully Meets	80%	1.61
Beebe Hill Road North	7050 Beebe Hill Rd 15	15	Northeast Arm - DD	0.1	0.01	Gravel	Partially Meets	3.64	0.36	Fully Meets	80%	0.15
Beebe Hill Road North	7050 Beebe Hill Rd 16	16	Northeast Arm - DD	0.1	7.95	Gravel	Does Not Meet	20.18	2.02	Fully Meets	80%	1.61
Beebe Hill Road North	7050 Beebe Hill Rd 17	17	Northeast Arm - DD	0.1	4.24	Gravel	Does Not Meet	6.07	0.61	Fully Meets	80%	0.49
Westford Rd	7050 Westford Rd 72165.1	72165.1	Malletts Bay - DD	0.1	0.85	Paved - Non Curbed	Fully Meets	0.96	0.09	Fully Meets	0%	0
Westford Rd	7050 Westford Rd 72164.1	72164.1	Malletts Bay - DD	0.1	0.54	Paved - Non Curbed	Fully Meets	0.96	0.09	Fully Meets	0%	0
Westford Rd	7050 Westford Rd 72165.1	72165.1	Malletts Bay - DD	0.1	8.60	Paved - Non Curbed	Does Not Meet	6.00	0.60	Fully Meets	80%	0.48
Total									19.21			14.20

Appendix C. MRGP Linear Loading Rates

Table C-1. MRGP unpaired Class 3 phosphorus loading rates (kg/km/yr) for the Lake Champlain basin. Data modified from Tetra Tech (2013). CSD = combined sewer overflow; DD = direct drainage to lake segment; N = road segment. Data may be updated following completion of all RLCs.

Drainage Catchment	Fully Meets MRGP Standards			Partially Meets MRGP Standards			Does Not Meet MRGP Standards			Unconnected Segments
	C5%	5-10%	10-15%	C5%	5-10%	10-15%	C5%	5-10%	10-15%	
Burlington Bay - DD	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Burlington Bay - DD	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Isle La Motte - DD	1.054	3.506	6.130	3.162	10.518	18.391	5.271	17.530	30.652	1.005
Lamotte River	0.907	3.118	5.452	2.812	9.354	16.355	4.687	15.589	27.239	0.894
LaPlatte River	0.998	3.318	5.802	2.999	9.954	17.406	4.988	16.599	29.009	0.951
Lewis Creek	0.990	3.499	5.237	2.701	8.944	15.710	4.502	14.974	26.183	0.856
Little Otter Creek	1.246	4.145	7.248	3.739	12.436	21.745	6.232	20.727	36.242	1.188
Main Lake - DD	0.956	3.180	5.560	2.866	9.539	16.680	4.780	15.898	27.749	0.913
Malletts Bay - DD	0.967	3.188	5.568	2.872	9.553	16.703	4.787	15.921	27.839	0.913
Mertlawe River	0.986	3.280	5.734	2.958	9.819	17.033	4.930	16.398	28.672	0.940
Missisquoi Bay - DD	1.046	3.481	6.086	3.430	10.442	18.256	5.232	17.403	29.420	0.997
Missisquoi River	1.006	3.412	5.965	3.027	10.235	17.897	5.429	17.059	29.529	0.978
Northeast Arm - DD	0.223	4.035	7.056	0.640	12.105	21.567	6.066	20.175	35.278	1.156

Table 3. Total phosphorus load reduction effectiveness* based on change in MRGP compliance status.



* Percent reduction in loading rate relative to the loading rate (kg/km/yr) of the segment at the time of construction.

Table C-3. MRGP paired municipal road phosphorus loading rates (kg/km/yr) for the Lake Champlain basin. Data modified from Tetra Tech (2013). CSD = combined sewer overflow; DD = direct drainage to lake segment; N = road segment. Data may be updated following completion of all RLCs.

Drainage Catchment	Fully Meets MRGP Standards			Partially Meets MRGP Standards			Does Not Meet MRGP Standards			Unconnected Segments
	C5%	5-10%	10-15%	C5%	5-10%	10-15%	C5%	5-10%	10-15%	
Burlington Bay - CSD	1.055	2.813	2.500	4.665	4.220	2.775	10.361	8.969	8.230	
Burlington Bay - DD	1.122	4.496	1.870	3.365	4.467	8.609	5.809	1.478	9.348	0.887
Isle La Motte - DD	0.789	1.046	1.310	2.307	3.463	3.920	3.929	5.255	5.651	
Lamotte River	0.953	1.284	1.605	2.408	3.051	4.814	4.814	6.438	8.022	0.261
LaPlatte River	1.037	1.382	1.728	2.110	4.441	5.185	5.185	6.611	8.060	
Lewis Creek	0.923	1.231	1.539	2.770	3.693	4.616	4.616	6.155	7.694	0.730
Little Otter Creek	1.126	1.501	1.877	3.378	4.504	5.630	5.630	7.607	9.384	0.890
Main Lake - DD	1.000	1.333	1.667	3.000	4.000	5.000	5.000	6.667	8.333	0.781
Malletts Bay - DD	0.999	1.139	1.439	2.658	3.597	4.466	4.466	5.995	7.493	0.711
Mertlawe River	0.949	1.266	1.587	2.848	3.797	4.740	4.740	5.328	7.810	0.711
Missisquoi Bay - DD	1.041	1.387	1.734	3.122	4.162	5.203	5.203	6.937	8.672	0.823
Missisquoi River	1.016	1.360	1.688	3.058	4.058	5.064	5.064	6.724	8.443	0.820
Northeast Arm - DD	0.614	1.072	1.580	2.802	3.611	4.769	4.769	6.326	7.880	0.714
Other Creek	0.946	1.262	1.577	2.819	3.760	4.732	4.732	6.310	7.887	0.749
Other Creek - DD	0.889	1.159	1.449	2.608	3.477	4.347	4.347	5.795	7.244	0.687
Port Henry - DD	1.022	1.362	1.703	3.068	4.087	5.108	5.108	6.811	8.514	0.808
Posidon River	1.053	1.404	1.744	3.158	4.211	5.263	5.263	7.018	8.773	0.830
South Lake A - DD	0.967	1.289	1.611	2.900	3.867	4.833	4.833	6.444	8.050	0.764
South Lake B - DD	1.036	1.342	1.777	2.919	3.225	4.552	4.552	6.709	8.886	1.053
St. Albans Bay	0.992	1.123	1.454	2.977	3.960	4.951	4.951	6.611	8.260	0.754
Winouki River	1.145	1.577	1.908	3.425	4.580	5.725	5.725	7.634	9.542	0.905

Drainage Area	Hydrologically Connected Segments									
	Fully Meets MTSP Standards			Partially Meets MTSP Standards			Does Not Meet MTSP Standards			Unassessable
	<5%	5-10%	>10%	<5%	5-10%	>10%	<5%	5-10%	>10%	
Washington Bay	0.055	2.073	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Burlington Bay	1.122	1.496	1.870	3.305	4.887	5.609	5.009	4.778	9.348	0.887
Little Lake Metcalf	0.786	0.048	1.304	3.955	3.431	3.929	3.929	3.248	6.548	0.021
Little Lake Metcalf	0.000	0.000	0.000	1.204	0.000	0.000	0.000	0.000	0.000	0.794
LaPlante River	0.072	1.352	1.782	3.190	4.146	5.183	5.183	6.913	8.930	0.920
Levin Creek	0.023	1.303	1.898	2.770	4.883	4.938	4.938	6.155	7.748	0.000
Little Otter Creek	1.126	0.001	1.377	3.233	4.887	5.000	5.000	5.902	9.348	0.990
Main Lake - Dorr	0.000	1.333	1.667	3.900	4.000	5.000	5.000	6.667	8.333	0.794
Metcalfe River	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Metcalfe River	0.049	1.566	1.542	3.846	3.797	4.746	4.746	6.328	7.100	0.751
Mississippi Bay	0.041	1.387	1.784	3.122	4.600	5.000	5.000	6.007	8.672	0.023
North Branch	0.015	1.300	1.600	3.400	4.000	4.000	4.000	5.000	6.000	0.000
North Branch	0.054	1.272	1.500	3.850	3.851	4.769	4.769	6.359	7.889	0.748
Other Creek	0.046	1.250	1.670	3.880	3.766	4.732	4.732	5.100	7.887	0.748
Other Creek	0.000	0.000	0.000	1.102	0.000	0.000	0.000	0.000	0.000	0.000
Port Henry	0.022	1.362	1.703	3.089	4.007	5.008	5.008	6.811	8.514	0.808
Proctor River	1.053	1.044	1.304	3.108	4.211	5.003	5.003	7.018	7.872	0.882
Proctor River	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.748
South Lake - Dorr	1.000	1.742	2.177	3.934	5.225	6.532	6.532	8.970	10.696	0.033
South Lake - Dorr	0.002	1.023	1.044	3.044	3.044	3.044	3.044	3.044	3.044	0.000
Winlock River	1.145	1.527	1.908	3.458	5.225	5.725	5.725	7.834	9.942	0.905

