

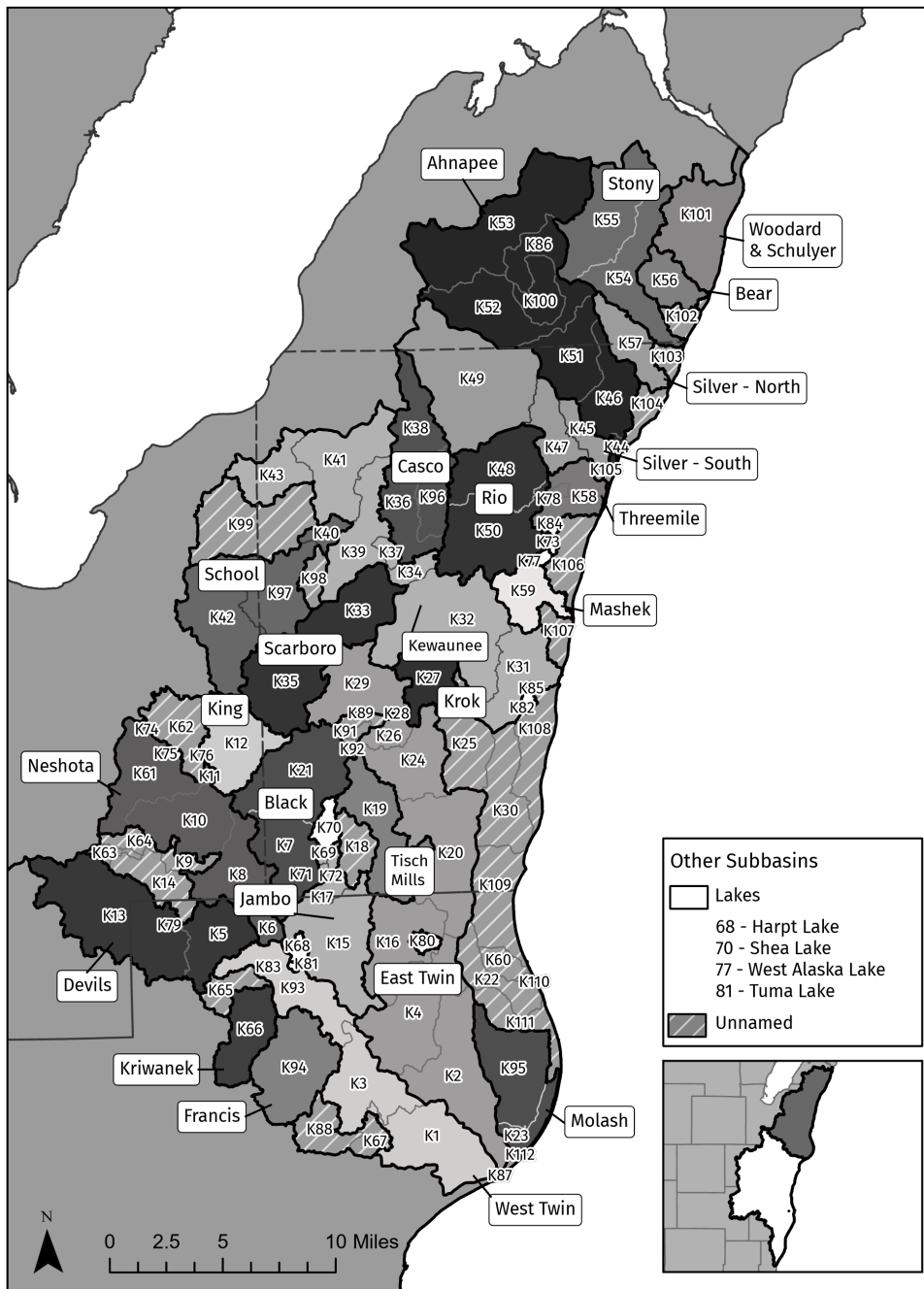
Appendix K: Northeast Lakeshore TMDL Allocation Tables

Total Phosphorus

Contents

Door/Kewaunee Region	2
Total Phosphorus Annual Allocations	4
Total Phosphorus Daily Allocations	8
Total Phosphorus Allocations by Permitted Point Source	12
Total Phosphorus Allocations by MS4	13
Total Phosphorus Percent Reductions	14
 Manitowoc River Basin Region	 18
Total Phosphorus Annual Allocations	20
Total Phosphorus Daily Allocations	23
Total Phosphorus Allocations by Permitted Point Source	26
Total Phosphorus Allocations by MS4	27
Total Phosphorus Percent Reductions	28
 Sheboygan River Basin Region	 32
Total Phosphorus Annual Allocations	34
Total Phosphorus Daily Allocations	38
Total Phosphorus Allocations by Permitted Point Source	42
Total Phosphorus Allocations by MS4	43
Total Phosphorus Percent Reductions	45

Door/Kewaunee Region



Total Phosphorus Annual Allocations

Table K.K.1. Annual total phosphorus load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
K1	1,354	1,239	230	985	24	59	11	47	0	56
K2	3,392	3,162	219	2,921	22	72	32	40	0	159
K3	2,595	2,455	269	2,169	18	23	23	0	0	116
K4	2,799	2,653	357	2,268	28	24	24	0	0	122
K5	1,354	1,292	317	968	7	10	10	0	0	52
K6	271	257	40	216	2.1	2.3	2.3	0	0	12
K7	1,750	1,652	113	1,532	7.1	16	16	0	0	82
K8	1,845	1,753	312	1,426	15	15	15	0	0.13	77
K9	611	140	39	90	11	442	5.7	0	436	29
K10	2,095	1,987	296	1,680	12	18	18	0	0	90
K11	69	66	14	51	0.16	0.54	0.54	0	0	2.7
K12	1,928	1,831	315	1,512	4.1	16	16	0	0	81
K13	4,231	3,998	348	3,641	9.2	39	39	0	0	194
K14	1,101	1,043	134	903	5.7	9.7	9.7	0	0	48
K15	3,275	3,098	366	2,725	7	30	30	0	0	148
K16	1,053	1,000	169	825	6	8.8	8.8	0	0	44
K17	386	364	21	341	1.7	3.7	3.7	0	0	18
K18	860	812	53	758	0.52	8.1	8.1	0	0	40
K19	2,531	2,388	155	2,226	7.2	24	24	0	0	119
K20	2,975	2,815	307	2,501	6.8	27	27	0	0	133
K21	2,728	2,583	321	2,260	2	24	24	0	0	120
K22	312	298	81	217	0.61	2.3	2.3	0	0	12
K23	144	132	66	61	4.5	7.7	0.77	6.9	0	3.9
K24	925	874	76	795	3.4	8.5	8.5	0	0	42
K25	1,492	1,409	104	1,303	2.3	14	14	0	0	69
K26	510	481	14	467	0.37	5	5	0	0	25
K27	1,035	976	46	927	2.4	9.9	9.9	0	0	49
K28	82	77	6.8	70	0.32	0.75	0.75	0	0	3.8
K29	2,025	1,914	183	1,728	3.5	18	18	0	0	92
K30	460	436	59	376	1	4	4	0	0	20
K31	2,189	971	142	797	32	1,116	20	0	1,095	102
K32	4,529	4,288	516	3,757	15	40	40	0	0	201

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Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
K33	2,487	2,348	166	2,177	4.2	23	23	0	0	116
K34	192	182	21	157	3.9	1.7	1.7	0	0	8.5
K35	3,457	3,271	362	2,905	3.8	31	31	0	0	155
K36	1,440	1,358	69	1,275	13	14	14	0	0	69
K37	104	99	16	80	2.6	0.88	0.88	0	0	4.4
K38	1,923	1,813	96	1,712	5.2	18	18	0	0	91
K39	982	931	137	783	11	8.4	8.4	0	0	42
K40	198	188	37	149	2.5	1.6	1.6	0	0	8
K41	1,402	1,330	206	1,119	5.2	12	12	0	0	60
K42	1,912	1,809	203	1,595	10	17	17	0	0	85
K43	773	733	113	613	7.4	6.6	6.6	0	0	33
K44	3,276	31	0.33	0.09	31	3,081	33	0	3,048	164
K45	222	210	32	149	30	1.9	1.9	0	0	9.5
K46	464	441	75	352	14	3.9	3.9	0	0	19
K47	455	432	66	355	11	3.9	3.9	0	0	19
K48	992	938	99	832	7.2	8.9	8.9	0	0	45
K49	2,219	2,097	189	1,896	12	20	20	0	0	101
K50	1,397	1,321	135	1,181	4.7	13	13	0	0	63
K51	574	543	59	473	11	5.1	5.1	0	0	26
K52	1,602	1,150	127	1,013	10	379	15	0	364	74
K53	3,707	3,502	291	3,167	44	34	34	0	0	171
K54	690	655	109	541	5.3	5.8	5.8	0	0	29
K55	797	759	160	588	11	6.4	6.4	0	0	32
K56	303	289	67	219	2.2	2.4	2.4	0	0	12
K57	326	309	51	256	1.8	2.7	2.7	0	0	14
K58	523	500	139	351	9.9	3.8	3.8	0	0	19
K59	581	551	79	470	2.7	5	5	0	0	25
K60	121	116	34	81	1.1	0.87	0.87	0	0	4.4
K61	2,204	2,096	409	1,678	8.8	18	18	0	0	90
K62	1,404	1,337	287	1,040	10	11	11	0	0	56
K63	280	55	6	48	0.46	211	2.7	0	209	14
K64	380	359	31	326	1.9	3.5	3.5	0	0	17
K65	810	694	56	633	4.6	79	7.5	0	71	38
K66	1,966	1,857	144	1,702	11	18	18	0	0	91
K67	533	506	78	419	8.7	4.6	4.6	0	0	23
K68	93	89	24	65	0	0.69	0.69	0	0	3.5
K69	39	37	5.4	31	0.17	0.34	0.34	0	0	1.7
K70	76	72	16	55	0.55	0.59	0.59	0	0	3

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Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
K71	27	25	3	22	0.11	0.24	0.24	0	0	1.2
K72	21	20	1.8	18	0.14	0.19	0.19	0	0	0.96
K73	13	13	4.8	6.1	1.8	0.08	0.08	0	0	0.42
K74	9.2	9.1	8.2	0	0.91	0.01	0.01	0	0	0.05
K75	1.2	1.2	1.2	0	0	0	0	0	0	0
K76	14	14	5.7	7.7	0.06	0.08	0.08	0	0	0.41
K77	40	39	12	24	2.2	0.28	0.28	0	0	1.4
K78	53	50	8.7	41	0.51	0.44	0.44	0	0	2.2
K79	4.8	4.7	3.7	0	1	0.01	0.01	0	0	0.05
K80	99	94	20	75	0.24	0.8	0.8	0	0	4
K81	6.3	6.2	4.4	1.8	0	0.02	0.02	0	0	0.1
K82	25	23	1.4	21	1.1	0.23	0.23	0	0	1.2
K83	21	20	1	19	0	0.2	0.2	0	0	1
K84	30	28	4.2	24	0.18	0.26	0.26	0	0	1.3
K85	6.1	5.7	0.76	1.5	3.5	0.05	0.05	0	0	0.27
K86	791	747	57	684	5.9	7.3	7.3	0	0	37
K87	2	0	0	0	0	1.9	0.02	1.9	0	0.1
K88	1,246	1,124	151	956	17	67	11	0	56	55
K89	161	152	12	138	2.3	1.5	1.5	0	0	7.4
K90	74	70	6.3	63	0.54	0.68	0.68	0	0	3.4
K91	233	8.9	3.6	5	0.38	213	2.3	0	211	11
K92	51	48	5.1	43	0	0.46	0.46	0	0	2.3
K93	2,502	2,376	406	1,956	15	21	21	0	0	105
K94	3,315	3,135	311	2,795	29	30	30	0	0	150
K95	781	746	206	536	3.9	5.8	5.7	0.06	0	29
K96	1,358	735	67	655	13	559	13	0	546	65
K97	1,051	996	136	856	4.5	9.2	9.2	0	0	46
K98	314	297	24	257	16	2.9	2.9	0	0	15
K99	1,752	1,669	367	1,295	6.2	14	14	0	0	69
K100	624	591	65	523	3.3	5.6	5.6	0	0	28
K101	719	685	151	527	7.2	5.7	5.7	0	0	28
K102	110	105	29	74	2	0.81	0.81	0	0	4.1
K103	76	73	25	47	1.1	0.51	0.51	0	0	2.6
K104	171	162	21	129	11	1.5	1.5	0	0	7.5
K105	21	20	3	2.7	15	0.18	0.18	0	0	0.92
K106	487	460	38	419	3.4	4.5	4.5	0	0	22
K107	229	218	37	178	2.9	1.9	1.9	0	0	9.6
K108	368	350	63	282	5.1	3.1	3.1	0	0	15

(continued)

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
K109	498	478	164	311	4.3	3.3	3.3	0	0	17
K110	14	13	4.9	8.3	0.05	0.09	0.09	0	0	0.44
K111	309	297	111	182	5	2	2	0	0	9.9
K112	18	6.5	2.7	0	3.8	11	0.15	11	0	0.77

Total Phosphorus Daily Allocations

Table K.K.2. Daily total phosphorus allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
K1	3.7067	3.3924	0.6284	2.6978	0.0662	0.1604	0.0308	0.1296	0	0.1539
K2	9.2867	8.6559	0.5986	7.9983	0.0590	0.1964	0.0869	0.1095	0	0.4344
K3	7.1043	6.7222	0.7359	5.9380	0.0483	0.0637	0.0637	0	0	0.3184
K4	7.6641	7.2628	0.9770	6.2105	0.0753	0.0669	0.0669	0	0	0.3344
K5	3.7076	3.5373	0.8688	2.6493	0.0192	0.0284	0.0284	0	0	0.1419
K6	0.7423	0.7043	0.1083	0.5903	0.0057	0.0063	0.0063	0	0	0.0317
K7	4.7926	4.5236	0.3091	4.1950	0.0195	0.0448	0.0448	0	0	0.2242
K8	5.0515	4.7993	0.8538	3.9054	0.0400	0.0423	0.0420	0	0.0004	0.2099
K9	1.6717	0.3837	0.1067	0.2463	0.0307	1.2097	0.0157	0	1.1941	0.0783
K10	5.7371	5.4415	0.8094	4.5991	0.0330	0.0493	0.0493	0	0	0.2464
K11	0.1884	0.1794	0.0393	0.1397	0.0004	0.0015	0.0015	0	0	0.0075
K12	5.2782	5.0133	0.8637	4.1385	0.0112	0.0441	0.0441	0	0	0.2207
K13	11.5842	10.9462	0.9518	9.9692	0.0252	0.1063	0.1063	0	0	0.5316
K14	3.0150	2.8561	0.3671	2.4734	0.0156	0.0265	0.0265	0	0	0.1324
K15	8.9668	8.4819	1.0028	7.4598	0.0192	0.0808	0.0808	0	0	0.4041
K16	2.8824	2.7372	0.4632	2.2576	0.0164	0.0242	0.0242	0	0	0.1210
K17	1.0565	0.9965	0.0569	0.9348	0.0048	0.0100	0.0100	0	0	0.0500
K18	2.3557	2.2232	0.1461	2.0757	0.0014	0.0221	0.0221	0	0	0.1105
K19	6.9286	6.5384	0.4246	6.0939	0.0198	0.0650	0.0650	0	0	0.3252
K20	8.1453	7.7069	0.8397	6.8486	0.0186	0.0731	0.0731	0	0	0.3653
K21	7.4684	7.0731	0.8794	6.1881	0.0056	0.0659	0.0659	0	0	0.3295
K22	0.8552	0.8171	0.2204	0.5950	0.0017	0.0063	0.0063	0	0	0.0317
K23	0.3934	0.3617	0.1817	0.1677	0.0123	0.0211	0.0021	0.0190	0	0.0106
K24	2.5329	2.3934	0.2070	2.1772	0.0092	0.0233	0.0233	0	0	0.1163
K25	4.0848	3.8567	0.2837	3.5668	0.0062	0.0380	0.0380	0	0	0.1901
K26	1.3976	1.3159	0.0373	1.2777	0.0010	0.0136	0.0136	0	0	0.0680
K27	2.8348	2.6723	0.1268	2.5390	0.0064	0.0271	0.0271	0	0	0.1354
K28	0.2241	0.2118	0.0186	0.1923	0.0009	0.0021	0.0021	0	0	0.0103
K29	5.5441	5.2415	0.5013	4.7306	0.0096	0.0504	0.0504	0	0	0.2521
K30	1.2588	1.1929	0.1605	1.0297	0.0028	0.0110	0.0110	0	0	0.0549
K31	5.9937	2.6591	0.3886	2.1819	0.0886	3.0544	0.0561	0	2.9983	0.2803
K32	12.3993	11.7401	1.4133	10.2853	0.0414	0.1099	0.1099	0	0	0.5493

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Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
K33	6.8087	6.4275	0.4550	5.9611	0.0114	0.0635	0.0635	0	0	0.3177
K34	0.5264	0.4984	0.0587	0.4289	0.0108	0.0047	0.0047	0	0	0.0234
K35	9.4652	8.9569	0.9924	7.9541	0.0103	0.0847	0.0847	0	0	0.4236
K36	3.9419	3.7168	0.1898	3.4917	0.0354	0.0375	0.0375	0	0	0.1876
K37	0.2853	0.2708	0.0432	0.2203	0.0072	0.0024	0.0024	0	0	0.0121
K38	5.2651	4.9650	0.2621	4.6886	0.0143	0.0500	0.0500	0	0	0.2502
K39	2.6875	2.5487	0.3745	2.1449	0.0294	0.0231	0.0231	0	0	0.1157
K40	0.5414	0.5150	0.1012	0.4068	0.0069	0.0044	0.0044	0	0	0.0220
K41	3.8389	3.6425	0.5652	3.0629	0.0143	0.0327	0.0327	0	0	0.1637
K42	5.2338	4.9531	0.5565	4.3680	0.0287	0.0468	0.0468	0	0	0.2339
K43	2.1162	2.0078	0.3099	1.6778	0.0202	0.0181	0.0181	0	0	0.0903
K44	8.9694	0.0858	0.0009	0.0002	0.0847	8.4352	0.0897	0	8.3455	0.4484
K45	0.6072	0.5759	0.0866	0.4066	0.0827	0.0052	0.0052	0	0	0.0260
K46	1.2707	1.2067	0.2044	0.9626	0.0397	0.0107	0.0107	0	0	0.0533
K47	1.2466	1.1826	0.1808	0.9711	0.0307	0.0107	0.0107	0	0	0.0533
K48	2.7162	2.5695	0.2711	2.2787	0.0197	0.0245	0.0245	0	0	0.1223
K49	6.0746	5.7411	0.5169	5.1917	0.0325	0.0556	0.0556	0	0	0.2779
K50	3.8239	3.6166	0.3697	3.2342	0.0127	0.0345	0.0345	0	0	0.1727
K51	1.5709	1.4864	0.1620	1.2937	0.0307	0.0141	0.0141	0	0	0.0704
K52	4.3861	3.1476	0.3474	2.7723	0.0279	1.0366	0.0404	0	0.9962	0.2019
K53	10.1500	9.5888	0.7968	8.6718	0.1203	0.0935	0.0935	0	0	0.4677
K54	1.8897	1.7941	0.2978	1.4817	0.0146	0.0159	0.0159	0	0	0.0796
K55	2.1830	2.0783	0.4378	1.6104	0.0301	0.0175	0.0175	0	0	0.0873
K56	0.8293	0.7906	0.1846	0.6001	0.0059	0.0064	0.0064	0	0	0.0322
K57	0.8913	0.8463	0.1410	0.7004	0.0049	0.0075	0.0075	0	0	0.0375
K58	1.4315	1.3685	0.3812	0.9602	0.0271	0.0105	0.0105	0	0	0.0525
K59	1.5916	1.5090	0.2155	1.2862	0.0073	0.0138	0.0138	0	0	0.0688
K60	0.3313	0.3170	0.0930	0.2209	0.0031	0.0024	0.0024	0	0	0.0119
K61	6.0338	5.7390	1.1200	4.5950	0.0240	0.0491	0.0491	0	0	0.2457
K62	3.8442	3.6607	0.7852	2.8475	0.0279	0.0306	0.0306	0	0	0.1529
K63	0.7667	0.1503	0.0164	0.1327	0.0012	0.5789	0.0075	0	0.5714	0.0375
K64	1.0391	0.9818	0.0841	0.8926	0.0051	0.0096	0.0096	0	0	0.0478
K65	2.2178	1.8987	0.1534	1.7327	0.0127	0.2159	0.0206	0	0.1952	0.1032
K66	5.3837	5.0843	0.3938	4.6604	0.0301	0.0499	0.0499	0	0	0.2495
K67	1.4596	1.3849	0.2139	1.1471	0.0239	0.0125	0.0125	0	0	0.0623
K68	0.2547	0.2434	0.0653	0.1780	0	0.0019	0.0019	0	0	0.0095
K69	0.1065	0.1010	0.0148	0.0858	0.0005	0.0009	0.0009	0	0	0.0046
K70	0.2070	0.1973	0.0448	0.1510	0.0015	0.0016	0.0016	0	0	0.0081

(continued)

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
K71	0.0737	0.0697	0.0081	0.0613	0.0003	0.0007	0.0007	0	0	0.0033
K72	0.0574	0.0542	0.0048	0.0490	0.0004	0.0005	0.0005	0	0	0.0026
K73	0.0364	0.0350	0.0132	0.0168	0.0051	0.0002	0.0002	0	0	0.0012
K74	0.0251	0.0250	0.0225	0	0.0025	0	0	0	0	0.0001
K75	0.0033	0.0033	0.0033	0	0	0	0	0	0	0
K76	0.0383	0.0370	0.0157	0.0211	0.0002	0.0002	0.0002	0	0	0.0011
K77	0.1105	0.1058	0.0327	0.0670	0.0061	0.0008	0.0008	0	0	0.0039
K78	0.1442	0.1370	0.0239	0.1118	0.0014	0.0012	0.0012	0	0	0.0060
K79	0.0131	0.0129	0.0101	0	0.0028	0	0	0	0	0.0001
K80	0.2713	0.2582	0.0536	0.2040	0.0007	0.0022	0.0022	0	0	0.0109
K81	0.0172	0.0169	0.0120	0.0049	0	0.0001	0.0001	0	0	0.0003
K82	0.0680	0.0641	0.0038	0.0573	0.0030	0.0006	0.0006	0	0	0.0032
K83	0.0588	0.0554	0.0029	0.0526	0	0.0006	0.0006	0	0	0.0028
K84	0.0815	0.0773	0.0115	0.0653	0.0005	0.0007	0.0007	0	0	0.0035
K85	0.0166	0.0157	0.0021	0.0041	0.0095	0.0001	0.0001	0	0	0.0007
K86	2.1650	2.0444	0.1562	1.8720	0.0163	0.0201	0.0201	0	0	0.1004
K87	0.0056	0	0	0	0	0.0053	0.0001	0.0053	0	0.0003
K88	3.4111	3.0785	0.4144	2.6176	0.0466	0.1827	0.0300	0	0.1527	0.1498
K89	0.4413	0.4169	0.0342	0.3765	0.0062	0.0041	0.0041	0	0	0.0204
K90	0.2022	0.1911	0.0172	0.1725	0.0015	0.0019	0.0019	0	0	0.0093
K91	0.6390	0.0244	0.0097	0.0136	0.0010	0.5831	0.0063	0	0.5768	0.0315
K92	0.1395	0.1320	0.0140	0.1180	0	0.0013	0.0013	0	0	0.0063
K93	6.8507	6.5064	1.1109	5.3543	0.0412	0.0574	0.0574	0	0	0.2870
K94	9.0768	8.5833	0.8515	7.6537	0.0781	0.0823	0.0823	0	0	0.4113
K95	2.1371	2.0425	0.5637	1.4682	0.0106	0.0159	0.0157	0.0002	0	0.0787
K96	3.7180	2.0122	0.1846	1.7928	0.0347	1.5292	0.0353	0	1.4938	0.1767
K97	2.8774	2.7271	0.3722	2.3425	0.0124	0.0251	0.0251	0	0	0.1253
K98	0.8606	0.8130	0.0664	0.7026	0.0440	0.0079	0.0079	0	0	0.0397
K99	4.7962	4.5687	1.0050	3.5468	0.0169	0.0379	0.0379	0	0	0.1896
K100	1.7097	1.6177	0.1775	1.4311	0.0091	0.0153	0.0153	0	0	0.0766
K101	1.9698	1.8763	0.4124	1.4442	0.0198	0.0156	0.0156	0	0	0.0779
K102	0.3016	0.2883	0.0797	0.2030	0.0055	0.0022	0.0022	0	0	0.0111
K103	0.2072	0.1988	0.0675	0.1283	0.0030	0.0014	0.0014	0	0	0.0070
K104	0.4669	0.4423	0.0582	0.3536	0.0306	0.0041	0.0041	0	0	0.0204
K105	0.0588	0.0558	0.0082	0.0075	0.0401	0.0005	0.0005	0	0	0.0025
K106	1.3342	1.2605	0.1052	1.1458	0.0094	0.0123	0.0123	0	0	0.0614
K107	0.6274	0.5958	0.1010	0.4868	0.0080	0.0053	0.0053	0	0	0.0263
K108	1.0084	0.9582	0.1721	0.7721	0.0140	0.0084	0.0084	0	0	0.0418

(continued)

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
K109	1.3646	1.3096	0.4478	0.8501	0.0117	0.0092	0.0092	0	0	0.0458
K110	0.0376	0.0361	0.0134	0.0226	0.0001	0.0002	0.0002	0	0	0.0012
K111	0.8459	0.8133	0.3027	0.4970	0.0136	0.0054	0.0054	0	0	0.0272
K112	0.0497	0.0178	0.0074	0	0.0105	0.0297	0.0004	0.0293	0	0.0021

Total Phosphorus Allocations by Permitted Point Source

Table K.K.3. Total phosphorus wasteload allocations for each individual permitted point source.

Reach	Permit no.	Outfall no.	Name	Allocation (lbs/year)	Allocation (lbs/day)
K91	50237	9	AGROPUR INC. - LUXEMBURG	211	0.5768
K44	20745	1	ALGOMA WASTEWATER TREATMENT FACILITY	3,048	8.3454
K63	51128	7	BELGIOIOSO CHEESE, INC. - DENMARK	209	0.5714
K96	23566	1	CASCO WASTEWATER TREATMENT FACILITY	546	1.4938
K9	21741	1	DENMARK WASTEWATER TREATMENT FACILITY	436	1.1940
K52	28894	1	FORESTVILLE WASTEWATER TREATMENT FACILITY	364	0.9962
K31	20176	1	KEWAUNEE WASTEWATER TREATMENT FACILITY	1,273	3.4864
K88	35874	1	KOSSUTH SANITARY DISTRICT NO. 2 WWTF	56	0.1527
K65	61051	2	MARIBEL WASTEWATER TREATMENT FACILITY	71	0.1952
K8	64629	6	NEW ORGANIC DIGESTION LLC	0.19	0.0005

Total Phosphorus Allocations by MS4

Table K.K.4. Total phosphorus wasteload allocations for each permitted MS4 and the reaches they drain to.

Municipality	Reach	Area (acres)	Allocation (lbs/year)	Allocation (lbs/day)	Reduction from baseline (%)	Reduction from no-controls (%)
City of Manitowoc	K1	11	0	0.001	0	15
City of Two Rivers	K1	1,806	47	0.129	0	15
City of Two Rivers	K112	144	11	0.029	0	15
City of Two Rivers	K2	1,099	40	0.110	15	28
City of Two Rivers	K23	326	7	0.019	0	15
City of Two Rivers	K87	7	2	0.005	0	15
City of Two Rivers	K95	78	0	0.000	69	74

Total Phosphorus Percent Reductions

Table K.K.5. Total phosphorus reductions from baseline.

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
K1	West Twin River—mile 0.2 to 6.9	0.0	0
K2	East Twin River—mouth to mile 8.2	15.5	546
K3	West Twin River—mile 6.9 to 11.6	27.8	841
K4	East Twin River—mile 8.2 to 13	41.8	1,648
K5	Devils River—mouth to mile 4.9	51.5	1,036
K6	Neshota River—mouth to mile 1.7	56.1	278
K7	Black Creek—mouth to mile 6.4	53.7	1,785
K8	Neshota River—mile 1.7 to 6.4	66.1	2,806
K9	Unnamed tributary to Neshota River	80.3	2,185
K10	Neshota River—mile 6.4 to 10.5	66.3	3,332
K11	Neshota River—mile 10.5 to 11	46.2	44
K12	King Creek	75.5	4,660
K13	Devils River—mile 4.9 to headwaters	40.7	2,502
K14	Unnamed tributary to Devils River	54.0	1,068
K15	Jambo Creek—mouth to mile 8.1	0.0	43
K16	East Twin River—mile 8.2 to 19.4	0.0	0
K17	Jambo Creek—mile 8.1 to 10.1	58.9	492
K18	Unnamed tributary to Jambo Creek	19.6	185
K19	Tisch Mills Creek	15.7	415
K20	East Twin River—mile 19.4 to 26.4	55.3	3,105
K21	Black Creek—mile 6.4 to headwaters	61.9	3,672
K22	Unnamed tributary to Lake Michigan	89.2	1,801
K23	Molash Creek—mouth to mile 1.1	0.0	0
K24	East Twin River—mile 26.4 to 32.1	0.0	0
K25	Unnamed tributary to East Twin River	27.2	488
K26	East Twin River—mile 32.1 to 34.2	19.1	110
K27	Krok Creek	0.0	0
K28	Unnamed tributary to East Twin River	0.0	0
K29	East Twin River—mile 34.2 to headwaters	65.6	3,295
K30	Unnamed tributary to Lake Michigan	86.6	2,445

(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
K31	Kewaunee River—mouth to mile 6.5	22.6	561
K32	Kewaunee River—mile 6.5 to 15.1	20.2	956
K33	Scarboro Creek—mouth to mile 6	61.6	3,499
K34	Kewaunee River—mile 15.1 to 16.4	0.0	0
K35	Scarboro Creek—mile 6 to headwaters	58.8	4,157
K36	Casco Creek—mouth to mile 1.7	0.0	0
K37	Kewaunee River—mile 16.4 to 18	9.1	8
K38	Casco Creek—mile 6.3 to headwaters	0.0	0
K39	Kewaunee River—mile 18 to 19.5	75.7	2,480
K40	School Creek—mouth to mile 2.1	78.9	564
K41	Kewaunee River—mile 19.5 to 23.2	67.2	2,300
K42	School Creek—mile 5.5 to headwaters	70.2	3,790
K43	Kewaunee River—mile 23.2 to headwaters	69.6	1,422
K44	Ahnapee River—mouth to mile 0.9	0.0	0
K45	Silver Creek (South)—mouth to mile 2.1	0.0	0
K46	Ahnapee River—mile 0.9 to 3.3	0.0	0
K47	Silver Creek (South)—mile 2.1 to 6.9	27.7	140
K48	Rio Creek—mouth to mile 4.2	49.5	823
K49	Silver Creek—mile 6.9 to headwaters	34.8	1,018
K50	Rio Creek—mile 4.2 to headwaters	45.8	1,001
K51	Ahnapee River—mile 3.3 to 7.1	0.0	0
K52	Ahnapee River—mile 7.1 to 7.9	0.0	0
K53	Ahnapee River—mile 11.7 to headwaters	0.0	0
K54	Stony Creek—mouth to mile 8.2	11.8	73
K55	Stony Creek—mile 8.2 to headwaters	0.0	0
K56	Bear Creek	53.7	257
K57	Silver Creek (North)	0.0	0
K58	Threemile Creek—mouth to Krohns Lake	46.2	310
K59	Mashek Creek	56.5	613
K60	Unnamed tributary to Lake Michigan	84.5	447
K61	Neshota River—mile 11 to headwaters	62.1	2,763
K62	Unnamed tributary to Neshota River	50.0	1,049

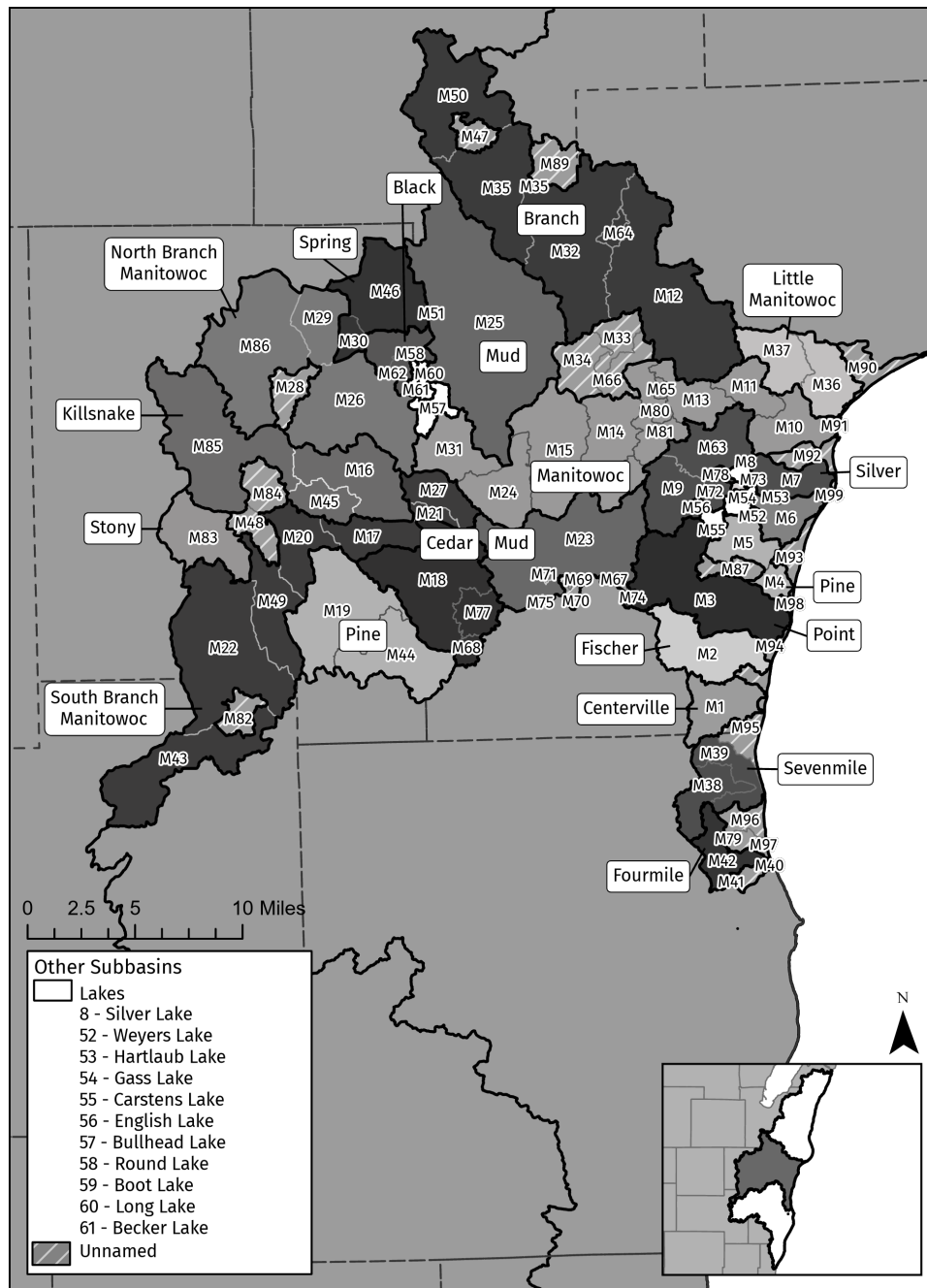
(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
K63	Unnamed stream	85.6	1,532
K64	Unnamed stream	30.9	146
K65	Unnamed tributary to Kriwanek Creek	51.3	745
K66	Kriwanek Creek—mile 0.7 to headwaters	35.8	957
K67	Unnamed tributary to West Twin River	14.7	74
K68	Harpt Lake	56.8	86
K69	Jambo Creek—mile 10.1 to 10.7	0.0	0
K70	Jambo Creek—mile 10.7 to headwaters	55.5	69
K71	Heidmann Lake	0.0	0
K72	Chada Lake	0.0	0
K73	East Alaska Lake	0.0	0
K74	Lilly Lake	0.0	0
K75	Middle Lake	0.0	0
K76	Third Lake	0.0	0
K77	West Alaska Lake	6.0	2
K78	Krohns Lake	17.8	9
K79	Hidden Lake	0.0	0
K80	Unnamed lake/pond	0.0	0
K81	Tuma Lake	0.0	0
K82	Seidel Lake	79.8	87
K83	Mott Lake	0.0	0
K84	Silver Lake	63.1	41
K85	Stump Pond	57.4	7
K86	Ahnapee River—mile 9.8 to 11.7	0.0	0
K87	West Twin River—mouth to mile 0.2	0.0	0
K88	Unnamed stream	54.9	1,252
K89	Unnamed stream	56.3	180
K90	Unnamed stream	47.7	58
K91	Unnamed stream	89.8	1,906
K92	Unnamed stream	17.8	9
K93	West Twin River—mile 11.6 to 18.6	0.0	0
K94	Francis Creek	12.7	412
K95	Molash Creek—mile 1.1 to headwaters	68.9	1,197

(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
K96	Casco Creek—mile 1.7 to 6.3	0.0	0
K97	School Creek—mile 2.1 to 5.5	77.5	2,959
K98	Unnamed tributary to School Creek	61.4	434
K99	Unnamed tributary to Kewaunee River	74.4	3,782
K100	Ahnapee River—mile 7.9 to 9.8	0.0	0
K101	Woodard Creek	62.4	889
K102	Unnamed tributaries to Lake Michigan	44.2	60
K103	Unnamed tributaries to Lake Michigan	42.6	36
K104	Unnamed tributaries to Lake Michigan	0.0	0
K105	Unnamed tributaries to Lake Michigan	0.0	0
K106	Unnamed tributaries to Lake Michigan	75.6	1,306
K107	Unnamed tributaries to Lake Michigan	74.1	517
K108	Unnamed tributaries to Lake Michigan	88.2	2,138
K109	Unnamed tributaries to Lake Michigan	89.7	2,746
K110	Unnamed tributaries to Lake Michigan	93.7	123
K111	Unnamed tributaries to Lake Michigan	78.1	667
K112	Unnamed Pond	0.0	0

Manitowoc River Basin Region



Total Phosphorus Annual Allocations

Table K.M.1. Annual total phosphorus load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
M1	1,146	1,092	238	820	34	9.1	9.1	0	0	45
M2	2,034	1,928	256	1,658	14	18	18	0	0	89
M3	3,737	3,552	648	2,882	22	31	31	0	0	154
M4	219	207	24	179	4.4	2	1.9	0	0.05	9.7
M5	983	932	138	786	8	8.5	8.5	0	0	42
M6	917	870	127	728	15	7.9	7.9	0	0	40
M7	909	828	221	569	38	47	6.9	40	0	34
M8	105	92	63	23	6.2	11	0.42	2	8.2	2.1
M9	1,227	1,160	122	1,037	1.9	11	11	0	0	55
M10	1,365	138	56	66	16	1,161	13	119	1,029	65
M11	1,246	1,160	126	983	51	30	11	19	0	56
M12	9,535	9,012	817	8,135	60	87	87	0	0	436
M13	961	922	299	619	3.7	6.6	6.6	0	0	33
M14	1,154	1,085	171	910	4.1	19	9.8	0	9.5	49
M15	2,405	2,124	526	1,576	22	186	19	0	168	94
M16	1,500	1,419	161	1,255	3.8	13	13	0	0	67
M17	656	622	86	532	3.5	5.7	5.7	0	0	28
M18	1,441	1,374	328	1,039	6.5	11	11	0	0	56
M19	1,955	1,856	308	1,540	8.7	16	16	0	0	82
M20	1,206	624	114	483	27	528	11	0	517	55
M21	27	25	3.1	22	0	0.24	0.24	0	0	1.2
M22	2,715	2,566	232	2,325	9	25	25	0	0	124
M23	5,550	5,003	725	4,241	38	306	48	0	258	241
M24	1,073	1,014	85	924	4.6	9.9	9.9	0	0	49
M25	4,005	3,658	1,474	2,169	15	220	25	0	195	127
M26	2,334	2,142	186	1,929	27	84	21	0	63	107
M27	534	505	58	445	2.5	4.8	4.8	0	0	24
M28	537	290	54	227	9	223	4.8	0	218	24
M29	785	743	78	655	10	7.1	7.1	0	0	35
M30	21	21	19	1.5	0.87	0.03	0.03	0	0	0.13
M31	1,279	1,210	129	1,075	5.5	11	11	0	0	57
M32	6,182	5,833	364	5,449	20	58	58	0	0	291

(continued)

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
M33	1,004	950	90	855	4.7	9.1	9.1	0	0	46
M34	1,659	1,572	209	1,359	2.9	14	14	0	0	72
M35	4,209	3,995	641	3,345	9.5	36	36	0	0	178
M36	320	275	94	178	3.3	33	2.3	31	0	11
M37	391	371	134	232	4.1	7.5	2.6	4.9	0	13
M38	760	718	57	656	5.7	7	7	0	0	35
M39	710	671	54	605	11	6.6	6.6	0	0	33
M40	2.6	1.6	1.6	0	0	0.93	0.01	0.92	0	0.05
M41	140	93	9.5	83	0	40	1.3	39	0	6.5
M42	718	658	37	601	19	26	6.8	19	0	34
M43	1,380	1,303	95	1,202	6.2	13	13	0.08	0	64
M44	1,413	329	31	297	0.61	1,016	14	0	1,002	69
M45	559	530	71	456	1.9	4.9	4.9	0	0	24
M46	1,563	1,488	310	1,128	51	13	13	0	0	63
M47	669	557	40	514	2.5	81	6.3	0	74	31
M48	433	287	47	237	2.6	126	3.9	0	123	19
M49	1,046	991	125	862	4.1	9.2	9.2	0	0	46
M50	3,932	3,710	235	3,462	13	37	37	0	0	185
M51	688	652	92	545	15	6	6	0	0	30
M52	9.7	9.7	9.1	0.22	0.34	0.01	0.01	0	0	0.03
M53	144	138	34	100	3.9	1.1	1.1	0	0	5.5
M54	31	30	25	4.5	0.38	0.05	0.05	0	0	0.26
M55	106	102	44	57	0.99	0.62	0.62	0	0	3.1
M56	62	59	16	34	8.4	0.45	0.45	0	0	2.3
M57	36	35	31	4.5	0.3	0.05	0.05	0	0	0.26
M58	5.4	5.3	3.5	1.7	0	0.02	0.02	0	0	0.09
M59	19	18	5.4	12	0.77	0.13	0.13	0	0	0.66
M60	74	74	66	7.4	0.84	0.09	0.09	0	0	0.44
M61	56	54	17	37	0.32	0.4	0.4	0	0	2
M62	323	305	20	285	0	3	3	0	0	15
M63	1,720	1,630	281	1,342	7.2	18	14	3.7	0	72
M64	115	110	42	67	1.4	0.73	0.73	0	0	3.6
M65	62	60	27	33	0.03	0.35	0.35	0	0	1.8
M66	1,229	1,004	109	891	4.2	168	11	0	157	56
M67	47	45	28	18	0	0.19	0.19	0	0	0.94
M68	169	162	38	124	0.35	1.3	1.3	0	0	6.6
M69	15	15	6.6	7.5	0.76	0.09	0.09	0	0	0.44
M70	96	91	16	74	0.93	0.79	0.79	0	0	4

(continued)

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
M71	15	14	2	7.2	4.6	0.13	0.13	0	0	0.63
M72	44	42	20	22	0.62	0.24	0.24	0	0	1.2
M73	21	20	17	0.36	3.5	0.04	0.04	0	0	0.21
M74	30	29	15	14	0	0.15	0.15	0	0	0.74
M75	10	9.7	3	6.7	0	0.07	0.07	0	0	0.36
M76	29	27	1.4	26	0	0.28	0.28	0	0	1.4
M77	347	337	177	159	0.91	1.7	1.7	0	0	8.5
M78	65	62	12	50	0.27	0.6	0.53	0.07	0	2.7
M79	191	130	13	106	12	52	1.8	0	50	8.9
M80	373	362	190	170	1.8	1.8	1.8	0	0	9.1
M81	494	470	104	362	4.6	3.9	3.9	0	0	19
M82	262	248	26	221	1.2	2.4	2.4	0	0	12
M83	1,268	1,200	134	1,064	2.8	11	11	0	0	57
M84	523	495	54	438	2.2	4.7	4.7	0	0	23
M85	3,283	3,105	309	2,789	6.1	30	30	0	0	149
M86	3,132	2,958	225	2,714	18	29	29	0	0	145
M87	372	352	30	318	4	3.4	3.4	0	0	17
M89	960	904	39	862	4.1	9.2	9.2	0	0	46
M90	197	160	41	116	3	29	1.6	28	0	7.8
M91	13	0	0	0	0	12	0.13	12	0	0.65
M92	218	21	21	0	0	186	2	184	0	9.8
M93	231	219	26	189	4.3	2.1	2.1	0	0	10
M94	64	61	9.7	48	3.3	0.55	0.55	0	0	2.7
M95	625	589	32	543	14	5.9	5.9	0	0	30
M96	324	307	39	262	5.9	2.9	2.9	0	0	14
M97	22	20	2.3	15	3.3	0.35	0.2	0.16	0	0.98
M98	52	49	8.4	40	0.95	0.43	0.43	0	0	2.2
M99	15	15	9.6	0	4.9	0.25	0.05	0.2	0	0.27

Total Phosphorus Daily Allocations

Table K.M.2. Daily total phosphorus load allocations by TMDL reach. Some column names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
M1	3.1387	2.9895	0.6524	2.2441	0.0930	0.0249	0.0249	0	0	0.1243
M2	5.5698	5.2777	0.7015	4.5389	0.0374	0.0487	0.0487	0	0	0.2434
M3	10.2321	9.7246	1.7742	7.8893	0.0612	0.0846	0.0846	0	0	0.4229
M4	0.5991	0.5670	0.0661	0.4887	0.0122	0.0055	0.0053	0	0.0001	0.0267
M5	2.6904	2.5515	0.3767	2.1529	0.0220	0.0231	0.0231	0	0	0.1157
M6	2.5111	2.3813	0.3481	1.9925	0.0407	0.0216	0.0216	0	0	0.1082
M7	2.4885	2.2665	0.6059	1.5572	0.1034	0.1279	0.0188	0.1091	0	0.0941
M8	0.2867	0.2519	0.1728	0.0621	0.0170	0.0292	0.0011	0.0056	0.0225	0.0057
M9	3.3581	3.1766	0.3335	2.8381	0.0051	0.0302	0.0302	0	0	0.1512
M10	3.7365	0.3778	0.1542	0.1804	0.0432	3.1796	0.0358	0.3255	2.8182	0.1791
M11	3.4126	3.1763	0.3456	2.6919	0.1388	0.0830	0.0307	0.0523	0	0.1534
M12	26.1068	24.6747	2.2373	22.2724	0.1649	0.2387	0.2387	0	0	1.1935
M13	2.6320	2.5232	0.8182	1.6949	0.0102	0.0181	0.0181	0	0	0.0907
M14	3.1587	2.9711	0.4684	2.4914	0.0113	0.0530	0.0269	0	0.0261	0.1345
M15	6.5841	5.8163	1.4407	4.3159	0.0598	0.5106	0.0514	0	0.4591	0.2572
M16	4.1056	3.8857	0.4405	3.4348	0.0105	0.0367	0.0367	0	0	0.1833
M17	1.7970	1.7034	0.2366	1.4573	0.0095	0.0156	0.0156	0	0	0.0780
M18	3.9446	3.7619	0.8994	2.8448	0.0178	0.0305	0.0305	0	0	0.1523
M19	5.3532	5.0826	0.8432	4.2155	0.0239	0.0451	0.0451	0	0	0.2255
M20	3.3024	1.7085	0.3131	1.3223	0.0732	1.4444	0.0299	0	1.4145	0.1495
M21	0.0737	0.0698	0.0085	0.0613	0	0.0007	0.0007	0	0	0.0033
M22	7.4334	7.0254	0.6343	6.3664	0.0248	0.0680	0.0680	0	0	0.3400
M23	15.1963	13.6979	1.9837	11.6106	0.1037	0.8378	0.1321	0	0.7057	0.6606
M24	2.9374	2.7751	0.2318	2.5306	0.0126	0.0271	0.0271	0	0	0.1353
M25	10.9648	10.0149	4.0369	5.9382	0.0398	0.6035	0.0693	0	0.5342	0.3464
M26	6.3901	5.8657	0.5098	5.2825	0.0734	0.2304	0.0588	0	0.1716	0.2940
M27	1.4621	1.3838	0.1576	1.2193	0.0070	0.0130	0.0130	0	0	0.0652
M28	1.4706	0.7933	0.1474	0.6213	0.0245	0.6112	0.0132	0	0.5980	0.0662
M29	2.1498	2.0336	0.2132	1.7921	0.0282	0.0194	0.0194	0	0	0.0968
M30	0.0580	0.0576	0.0510	0.0042	0.0024	0.0001	0.0001	0	0	0.0003
M31	3.5005	3.3117	0.3542	2.9423	0.0152	0.0315	0.0315	0	0	0.1573
M32	16.9248	15.9691	0.9963	14.9177	0.0550	0.1593	0.1593	0	0	0.7964

(continued)

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
M33	2.7500	2.5998	0.2472	2.3398	0.0129	0.0250	0.0250	0	0	0.1251
M34	4.5409	4.3028	0.5735	3.7214	0.0080	0.0397	0.0397	0	0	0.1984
M35	11.5248	10.9386	1.7550	9.1574	0.0261	0.0977	0.0977	0	0	0.4885
M36	0.8756	0.7542	0.2578	0.4874	0.0090	0.0906	0.0062	0.0844	0	0.0309
M37	1.0710	1.0153	0.3675	0.6365	0.0113	0.0206	0.0070	0.0135	0	0.0352
M38	2.0821	1.9665	0.1555	1.7953	0.0157	0.0193	0.0193	0	0	0.0963
M39	1.9442	1.8365	0.1489	1.6564	0.0312	0.0180	0.0180	0	0	0.0898
M40	0.0072	0.0045	0.0045	0	0	0.0025	0	0.0025	0	0.0001
M41	0.3828	0.2542	0.0260	0.2282	0	0.1108	0.0036	0.1072	0	0.0178
M42	1.9653	1.8010	0.1021	1.6461	0.0528	0.0711	0.0186	0.0525	0	0.0932
M43	3.7789	3.5675	0.2590	3.2916	0.0169	0.0354	0.0352	0.0002	0	0.1760
M44	3.8697	0.8998	0.0846	0.8136	0.0017	2.7806	0.0379	0	2.7428	0.1893
M45	1.5298	1.4498	0.1956	1.2490	0.0051	0.0133	0.0133	0	0	0.0667
M46	4.2799	4.0739	0.8476	3.0873	0.1390	0.0343	0.0343	0	0	0.1716
M47	1.8311	1.5244	0.1093	1.4082	0.0069	0.2206	0.0172	0	0.2034	0.0861
M48	1.1842	0.7851	0.1295	0.6485	0.0071	0.3463	0.0105	0	0.3358	0.0527
M49	2.8641	2.7128	0.3427	2.3589	0.0112	0.0252	0.0252	0	0	0.1261
M50	10.7642	10.1570	0.6431	9.4782	0.0357	0.1012	0.1012	0	0	0.5061
M51	1.8827	1.7848	0.2514	1.4932	0.0402	0.0163	0.0163	0	0	0.0816
M52	0.0267	0.0266	0.0250	0.0006	0.0009	0	0	0	0	0.0001
M53	0.3954	0.3773	0.0933	0.2732	0.0108	0.0030	0.0030	0	0	0.0151
M54	0.0839	0.0830	0.0697	0.0123	0.0010	0.0001	0.0001	0	0	0.0007
M55	0.2897	0.2795	0.1195	0.1573	0.0027	0.0017	0.0017	0	0	0.0085
M56	0.1690	0.1615	0.0445	0.0941	0.0230	0.0012	0.0012	0	0	0.0062
M57	0.0978	0.0969	0.0838	0.0123	0.0008	0.0001	0.0001	0	0	0.0007
M58	0.0148	0.0145	0.0097	0.0048	0	0.0001	0.0001	0	0	0.0003
M59	0.0513	0.0491	0.0149	0.0321	0.0021	0.0004	0.0004	0	0	0.0018
M60	0.2034	0.2020	0.1794	0.0203	0.0023	0.0002	0.0002	0	0	0.0012
M61	0.1544	0.1479	0.0460	0.1010	0.0009	0.0011	0.0011	0	0	0.0054
M62	0.8843	0.8345	0.0553	0.7792	0	0.0083	0.0083	0	0	0.0414
M63	4.7097	4.4630	0.7680	3.6752	0.0197	0.0497	0.0394	0.0103	0	0.1971
M64	0.3140	0.3020	0.1147	0.1834	0.0039	0.0020	0.0020	0	0	0.0100
M65	0.1694	0.1636	0.0729	0.0906	0.0001	0.0010	0.0010	0	0	0.0048
M66	3.3636	2.7491	0.2993	2.4383	0.0115	0.4612	0.0306	0	0.4306	0.1532
M67	0.1275	0.1244	0.0757	0.0486	0	0.0005	0.0005	0	0	0.0026
M68	0.4639	0.4422	0.1031	0.3381	0.0010	0.0036	0.0036	0	0	0.0180
M69	0.0421	0.0407	0.0180	0.0206	0.0021	0.0002	0.0002	0	0	0.0012
M70	0.2620	0.2490	0.0450	0.2014	0.0026	0.0022	0.0022	0	0	0.0109

(continued)

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
M71	0.0400	0.0379	0.0056	0.0198	0.0126	0.0003	0.0003	0	0	0.0017
M72	0.1196	0.1157	0.0541	0.0599	0.0017	0.0007	0.0007	0	0	0.0033
M73	0.0565	0.0558	0.0452	0.0010	0.0096	0.0001	0.0001	0	0	0.0006
M74	0.0808	0.0784	0.0404	0.0379	0	0.0004	0.0004	0	0	0.0020
M75	0.0277	0.0266	0.0083	0.0183	0	0.0002	0.0002	0	0	0.0010
M76	0.0797	0.0751	0.0039	0.0712	0	0.0008	0.0008	0	0	0.0038
M77	0.9504	0.9225	0.4847	0.4353	0.0025	0.0047	0.0047	0	0	0.0233
M78	0.1786	0.1697	0.0328	0.1362	0.0007	0.0016	0.0015	0.0002	0	0.0073
M79	0.5225	0.3565	0.0345	0.2896	0.0325	0.1416	0.0049	0	0.1367	0.0244
M80	1.0211	0.9910	0.5204	0.4658	0.0049	0.0050	0.0050	0	0	0.0250
M81	1.3513	1.2873	0.2850	0.9898	0.0125	0.0107	0.0107	0	0	0.0533
M82	0.7173	0.6785	0.0706	0.6045	0.0033	0.0065	0.0065	0	0	0.0323
M83	3.4729	3.2864	0.3660	2.9128	0.0076	0.0311	0.0311	0	0	0.1553
M84	1.4312	1.3543	0.1489	1.1993	0.0061	0.0128	0.0128	0	0	0.0641
M85	8.9885	8.4999	0.8460	7.6372	0.0167	0.0814	0.0814	0	0	0.4071
M86	8.5763	8.0988	0.6167	7.4315	0.0505	0.0796	0.0796	0	0	0.3980
M87	1.0188	0.9626	0.0811	0.8706	0.0109	0.0094	0.0094	0	0	0.0469
M89	2.6274	2.4761	0.1059	2.3591	0.0111	0.0252	0.0252	0	0	0.1261
M90	0.5385	0.4368	0.1114	0.3172	0.0082	0.0803	0.0043	0.0761	0	0.0214
M91	0.0357	0	0	0	0	0.0339	0.0004	0.0335	0	0.0018
M92	0.5956	0.0584	0.0584	0	0	0.5103	0.0054	0.5049	0	0.0269
M93	0.6332	0.5994	0.0710	0.5166	0.0119	0.0056	0.0056	0	0	0.0281
M94	0.1765	0.1675	0.0265	0.1320	0.0090	0.0015	0.0015	0	0	0.0075
M95	1.7099	1.6126	0.0880	1.4862	0.0384	0.0162	0.0162	0	0	0.0811
M96	0.8872	0.8403	0.1059	0.7182	0.0162	0.0078	0.0078	0	0	0.0391
M97	0.0596	0.0559	0.0062	0.0406	0.0091	0.0010	0.0005	0.0004	0	0.0027
M98	0.1419	0.1348	0.0231	0.1091	0.0026	0.0012	0.0012	0	0	0.0059
M99	0.0412	0.0398	0.0263	0	0.0135	0.0007	0.0001	0.0005	0	0.0007

Total Phosphorus Allocations by Permitted Point Source

Table K.M.3. Total phosphorus wasteload allocations for each individual permitted point source.

Reach	Permit no.	Outfall no.	Name	Allocation (lbs/year)	Allocation (lbs/day)
M10	66257	1	BRIESS MALT AND INGREDIENTS CO	107	0.2926
M10	20443	1	BRILLION WASTEWATER TREATMENT FACILITY	1,081	2.9599
M20	22799	2	CHILTON WASTEWATER TREATMENT FACILITY	517	1.4145
M14	36030	1	CLARKS MILLS SANITARY DISTRICT	9.8	0.0269
M28	21270	1	HILBERT WASTEWATER TREATMENT FACILITY	218	0.5980
M8	28142	1	HOLY FAMILY CONVENT WASTEWATER TREATMENT FAC	52	0.1433
M79	795	1	KOHLER COMPANY POWER SYSTEMS AMERICAS	50	0.1367
M47	36773	1	MORRISON SANITARY DISTRICT NO 1	74	0.2034
M44	20893	1	NEW HOLSTEIN WASTEWATER TREATMENT FACILITY	1,002	2.7427
M4	42650	1	NEWTON MEATS AND SAUSAGE	0.07	0.0002
M26	29025	1	POTTER WASTEWATER TREATMENT FACILITY	66	0.1802
M25	21342	2	REEDSVILLE WASTEWATER TREATMENT FACILITY	180	0.4940
M25	22802	1	ROCKLAND SD1 WASTEWATER TREATMENT FACILITY	15	0.0402
M23	22195	1	ST NAZIANZ WASTEWATER TREATMENT FACILITY	258	0.7056
M48	27618	1	TILLAMOOK WISCONSIN LLC	123	0.3358
M15	21831	1	VALDERS WASTEWATER TREATMENT FACILITY	168	0.4591
M66	22047	1	WHITELAW WASTEWATER TREATMENT FACILITY	157	0.4306

Total Phosphorus Allocations by MS4

Table K.M.4. Total phosphorus wasteload allocations for each permitted MS4 and the reaches they drain to.

Municipality	Reach	Area (acres)	Allocation (lbs/year)	Allocation (lbs/day)	Reduction from baseline (%)	Reduction from no-controls (%)
City of Manitowoc	M10	3,630	119	0.326	50	57
City of Manitowoc	M11	273	19	0.052	0	15
City of Manitowoc	M36	2,548	31	0.084	77	80
City of Manitowoc	M37	819	5	0.014	89	91
Town of Sheboygan	M40	61	1	0.003	0	15
City of Sheboygan	M41	143	6	0.017	0	15
Town of Sheboygan	M41	774	33	0.090	0	15
Town of Sheboygan	M42	1,081	19	0.053	54	61
Town of Taycheedah	M43	4,388	0	0.000	81	84
City of Manitowoc	M63	479	4	0.010	70	74
City of Manitowoc	M7	1,163	40	0.109	36	45
City of Manitowoc	M78	41	0	0.000	50	58
City of Manitowoc	M8	108	2	0.006	59	65
City of Manitowoc	M90	539	12	0.033	41	50
City of Two Rivers	M90	687	16	0.043	41	50
City of Manitowoc	M91	145	12	0.034	53	60
City of Manitowoc	M92	1,753	184	0.505	0	15
Town of Sheboygan	M97	8	0	0.000	0	15
City of Manitowoc	M99	31	0	0.001	0	15

Total Phosphorus Percent Reductions

Table K.M.5. Total phosphorus reductions from baseline.

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
M1	Centerville Creek	56.6	1,113
M2	Fischer Creek	61.7	2,687
M3	Point Creek	61.6	4,655
M4	Pine Creek (East)—mouth to 2.7	65.0	340
M5	Pine Creek (East)—mile 2.7 to 6.5	70.4	1,893
M6	Calvin Creek—mouth to mile 5.8	52.5	822
M7	Silver Creek—mouth to mile 9.5	35.7	360
M8	Silver Lake	59.1	57
M9	Silver Creek—mile 5 to headwaters	66.1	2,027
M10	Manitowoc River—mouth to mile 6.3	49.9	1,225
M11	Manitowoc River—mile 6.3 to 12.6	0.0	0
M12	Branch River—mouth to mile 12.3	0.0	0
M13	Manitowoc River—mile 12.6 to 16.5	74.0	1,775
M14	Manitowoc River—mile 18.8 to 22.2	82.1	4,233
M15	Manitowoc River—mile 22.2 to 28.2	80.2	7,149
M16	Killsnake River—mouth to mile 3.4	51.8	1,354
M17	South Branch Manitowoc River—mile 3 to 9.2	44.5	429
M18	Cedar Creek—mouth to mile 6	75.5	3,221
M19	Pine Creek (West)—mouth to mile 5	85.5	9,105
M20	South Branch Manitowoc River—mile 9.2 to 14.8	85.7	6,173
M21	South Branch Manitowoc River—mile 1.8 to 3	0.0	0
M22	South Branch Manitowoc River—mile 18.8 to 29.3	77.9	8,217
M23	Mud Creek (South)	57.7	6,194
M24	Manitowoc River—mile 28.2 to 31	0.0	0
M25	Mud Creek (North)	80.7	9,970
M26	North Branch Manitowoc River—mouth to mile 7.3	51.1	2,113
M27	South Branch Manitowoc River—mouth to mile 1.8	25.8	156
M28	Unnamed stream	78.0	1,613
M29	North Branch Manitowoc River—mile 7.3 to 11.2	7.3	53
M30	Spring Creek—mouth to mile 2.6	0.0	0

(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
M31	Manitowoc River—mile 31 to headwaters	0.0	0
M32	Branch River—mile 12.3 to 23.5	8.2	487
M33	Unnamed tributary to Branch River	39.7	566
M34	Unnamed stream	68.2	2,920
M35	Branch River—mile 23.5 to 28.4	60.9	5,226
M36	Little Manitowoc River—mouth to mile 4.4	76.6	694
M37	Little Manitowoc River—mile 4.4 to headwaters	89.0	1,949
M38	Sevenmile Creek—mile 0.9 to headwaters	67.7	1,386
M39	Sevenmile Creek—mile 6.1 to 6.9	69.6	1,413
M40	Fourmile Creek—mouth to mile 0.4	0.0	0
M41	Unnamed tributary to Fourmile Creek	0.0	0
M42	Fourmile Creek—mile 0.4 to headwaters	54.1	754
M43	South Branch Manitowoc River—mile 29.3 to headwaters	81.1	5,178
M44	Pine Creek (West)—mile 5.1 to 6.3	75.3	3,960
M45	Killsnake River—mile 3.4 to 8.2	64.0	815
M46	Spring Creek—mile 2.6 to headwaters	57.3	1,582
M47	Unnamed tributary to Branch River	53.3	675
M48	Unnamed tributary to South Branch Manitowoc River	85.0	2,056
M49	South Branch Manitowoc River—mile 14.8 to 18.8	77.4	2,970
M50	Branch River—mile 28.4 to headwaters	36.8	2,023
M51	Black Creek	46.2	480
M52	Weyers Lake	0.0	0
M53	Calvin Creek—mile 5.8 to Hartlaub Lake	0.0	0
M54	Gass Lake	77.1	16
M55	Carstens Lake	89.3	487
M56	English Lake	35.2	23
M57	Bullhead Lake	95.1	94
M58	Round Lake	0.0	0
M59	Boot Lake	63.0	21
M60	Long Lake	95.2	165
M61	Becker Lake	82.8	179
M62	Grass Lake	44.9	232

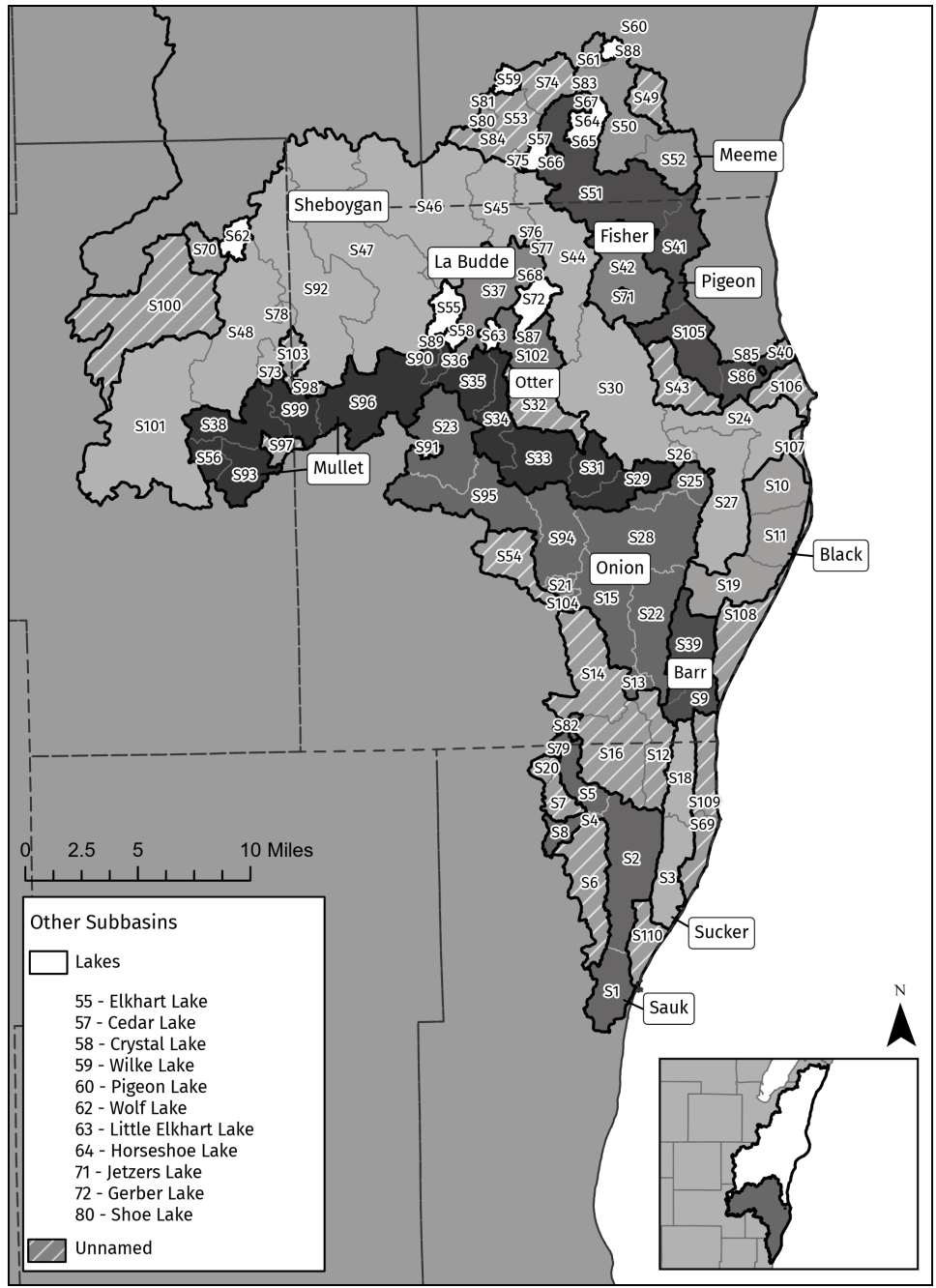
(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
M63	Silver Creek—mile 5 to 9.3	69.6	3,104
M64	Kellners Lake	0.0	0
M65	Schisel Lake	89.7	287
M66	Hempton Lake	61.0	1,646
M67	Unnamed lakes/ponds	87.8	128
M68	Cedar Creek—mile 8.4 to Mud Lake	83.2	611
M69	Unnamed lakes/ponds	0.0	0
M70	Unnamed lakes/ponds	0.0	0
M71	Lake Oswald	0.0	0
M72	Glomski Lake	64.9	42
M73	Kasbaum Lake	0.0	0
M74	Unnamed lakes/ponds	66.5	28
M75	Eaton Twin Lakes (South)	0.0	0
M76	Eaton Twin Lakes (North)	33.3	13
M77	Cedar Creek—mile 6 to 8.4	86.7	1,041
M78	Vetting Lake	50.1	50
M79	Unnamed tributary to Lake Michigan	44.2	133
M80	Bergene Lake	91.5	1,842
M81	Manitowoc River—mile 16.5 to 18.8	68.1	781
M82	Unnamed tributary to South Branch Manitowoc River	85.3	1,286
M83	Stony Brook	80.9	4,515
M84	Unnamed tributary to Killsnake River	74.0	1,250
M85	Killsnake River—mile 8.2 to headwaters	74.9	8,329
M86	North Branch Manitowoc River—mile 11.2 to headwaters	67.5	5,687
M87	Unnamed tributary to Pine Creek	66.4	636
M89	Unnamed tributary to Branch River	0.0	0
M90	Unnamed tributary to Lake Michigan	41.3	103
M91	No waterbodies	52.9	14
M92	Unnamed	0.0	0
M93	Unnamed	64.0	344
M94	No waterbodies	0.0	0
M95	Unnamed	23.4	170
M96	Unnamed tributary to Lake Michigan	46.6	234

(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
M97	Unnamed lake/pond	0.0	0
M98	No waterbodies	63.1	70
M99	No waterbodies	0.0	0

Sheboygan River Basin Region



Total Phosphorus Annual Allocations

Table K.S.1. Annual total phosphorus load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
S1	892	714	159	528	27	141	7.3	134	0	37
S2	1,569	1,499	411	1,082	7	12	12	0.13	0	58
S3	829	790	176	599	14	6.5	6.5	0	0	33
S4	36	34	7.6	26	0.06	0.28	0.28	0	0	1.4
S5	556	532	143	388	0.75	4.1	4.1	0	0	21
S6	1,136	1,082	238	839	5.3	9	9	0	0	45
S7	271	259	59	195	4.3	2.1	2.1	0	0	11
S8	232	221	42	174	4.9	1.9	1.9	0	0	9.5
S9	486	305	87	200	19	161	4	0	157	20
S10	1,009	842	222	617	2.9	127	7.9	119	0.03	39
S11	933	879	252	616	11	20	6.8	13	0	34
S12	1,220	296	18	278	0	864	12	0	852	60
S13	218	206	33	173	0.14	1.8	1.8	0	0	9.2
S14	1,940	1,861	621	1,237	2.6	13	13	0	0	66
S15	1,481	1,404	187	1,208	8	13	13	0	0	65
S16	1,971	1,876	389	1,482	5.4	16	16	0	0	79
S18	675	647	204	432	11	4.7	4.7	0	0	24
S19	1,216	959	232	711	16	208	9.8	0	198	49
S20	154	128	49	77	1.3	21	1	0	20	5.2
S21	169	163	63	97	3	1.1	1.1	0	0	5.3
S22	1,642	1,489	139	1,341	9.9	77	15	0	62	75
S23	1,500	1,423	211	1,160	53	13	13	0	0	64
S24	1,637	1,035	161	839	35	528	15	513	0	74
S25	644	601	118	478	5.1	17	5.3	11	0	26
S26	107	13	8.2	0.3	4.2	89	0.98	88	0	4.9
S27	7,149	6,489	457	5,943	89	325	67	206	52	335
S28	2,417	2,285	222	2,056	7.4	22	22	0.01	0	110
S29	1,195	1,116	112	992	11	25	11	14	0	54
S30	1,210	1,018	406	605	8.1	152	8	4.5	140	40
S31	960	906	67	838	0.54	8.9	8.9	0	0	45
S32	1,601	1,513	140	1,336	37	15	15	0	0	73
S33	1,879	1,780	239	1,482	59	16	16	0	0	82

(continued)

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
S34	2,209	666	212	373	81	1,443	20	0	1,423	100
S35	1,630	1,546	229	1,235	82	14	14	0	0	70
S36	146	140	43	88	9.1	1	1	0	0	5.2
S37	2,459	2,327	269	1,965	93	22	22	0	0	109
S38	834	793	145	639	9.6	6.9	6.9	0	0	34
S39	978	927	125	781	21	8.5	8.5	0	0	43
S40	74	50	19	31	0	21	0.56	21	0	2.8
S41	1,339	946	159	783	3.5	334	12	14	308	59
S42	1,710	1,620	311	1,304	4.7	20	14	6.2	0	70
S43	1,010	950	126	815	8.7	16	8.8	7	0	44
S44	2,600	2,201	741	1,449	11	306	19	0	287	93
S45	962	913	141	723	48	8.2	8.2	0	0	41
S46	10,067	5,137	549	4,370	219	4,454	95	0	4,359	476
S47	4,354	4,126	559	3,530	36	38	38	0	0	190
S48	2,937	2,692	232	2,417	43	109	27	0	82	136
S49	620	587	84	501	2.1	5.4	5.4	0	0	27
S50	1,982	1,908	763	1,139	6.5	12	12	0	0	61
S51	3,885	3,712	1,008	2,696	8	29	29	0	0	144
S52	912	867	162	702	3.5	7.5	7.5	0	0	38
S53	979	931	176	741	14	8	8	0	0	40
S54	943	893	122	765	6.3	8.2	8.2	0	0	41
S55	300	289	127	99	63	1.7	1.7	0	0	8.6
S56	554	525	63	459	2.7	4.9	4.9	0	0	25
S57	113	109	60	29	21	0.56	0.56	0	0	2.8
S58	56	56	42	0	13	0.15	0.15	0	0	0.74
S59	194	184	43	127	15	1.6	1.6	0	0	8
S60	68	66	40	11	15	0.28	0.28	0	0	1.4
S61	417	397	89	305	2.8	3.3	3.3	0	0	16
S62	136	130	35	88	6.6	1	1	0	0	5
S63	57	56	39	0.19	16	0.18	0.18	0	0	0.88
S64	213	202	33	166	3.6	1.8	1.8	0	0	9
S65	4.7	4.6	2.1	2.4	0	0.03	0.03	0	0	0.13
S66	79	77	46	32	0	0.34	0.34	0	0	1.7
S67	84	81	40	40	1	0.44	0.44	0	0	2.2
S68	7.2	6.9	1.2	5.5	0.11	0.06	0.06	0	0	0.3
S69	51	50	33	16	0.7	0.18	0.18	0	0	0.91
S70	379	357	22	331	4.6	3.6	3.6	0	0	18
S71	12	12	8.4	3.3	0.21	0.04	0.04	0	0	0.19

(continued)

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
S72	314	304	146	158	0.5	1.7	1.7	0	0	8.4
S73	278	264	52	211	0.54	2.3	2.3	0	0	11
S74	744	703	66	631	6.3	6.8	6.8	0	0	34
S75	46	44	14	29	0.48	0.32	0.32	0	0	1.6
S76	17	16	5.8	9.6	0.46	0.11	0.11	0	0	0.54
S77	3.9	3.9	3.3	0	0.53	0.01	0.01	0	0	0.03
S78	33	32	7.3	20	4.1	0.26	0.26	0	0	1.3
S79	26	25	12	12	0.26	0.14	0.14	0	0	0.68
S80	6.8	6.6	4.4	1.9	0.31	0.02	0.02	0	0	0.12
S81	65	61	12	49	1.2	0.53	0.53	0	0	2.6
S82	95	91	30	61	0.1	0.65	0.65	0	0	3.2
S83	9.8	9.6	6	3.4	0.15	0.04	0.04	0	0	0.19
S84	2.9	2.9	2.9	0	0	0	0	0	0	0
S85	13	3.4	3.4	0	0	8.7	0.09	8.6	0	0.46
S86	509	337	100	226	11	152	4.1	140	8.4	20
S87	11	11	3.2	6.6	0.71	0.08	0.08	0	0	0.39
S88	17	16	8.3	8	0	0.08	0.08	0	0	0.42
S89	69	66	10	46	9.2	0.59	0.59	0	0	2.9
S90	8.9	8.5	0.83	0	7.6	0.08	0.08	0	0	0.41
S91	79	76	24	52	0	0.55	0.55	0	0	2.8
S92	729	708	373	333	2.1	3.6	3.6	0	0	18
S93	744	705	104	588	13	6.4	6.4	0	0	32
S94	1,327	1,213	233	972	7.7	59	11	0	48	55
S95	1,832	1,738	268	1,453	17	16	16	0	0	78
S96	1,553	1,481	351	1,086	44	12	12	0	0	60
S97	419	101	32	64	4.3	298	3.9	0	295	19
S98	145	137	19	115	3.3	1.3	1.3	0	0	6.3
S99	660	625	81	528	16	5.8	5.8	0	0	29
S100	3,427	3,168	699	2,446	23	123	27	2.9	93	136
S101	4,101	3,890	585	3,273	32	35	35	0	0	176
S102	3,732	3,520	194	3,303	23	35	35	0	0	177
S103	227	216	47	169	0.42	1.8	1.8	0	0	9
S104	100	54	32	20	2	43	0.68	0	42	3.4
S105	1,804	1,689	231	1,437	22	36	16	20	0	79
S106	421	23	23	0	0	378	4	374	0	20
S107	102	3.3	2.9	0	0.41	94	0.99	93	0	5
S108	1,163	1,100	209	799	92	13	10	2.6	0	50
S109	1,009	968	333	623	13	6.8	6.8	0	0	34

(continued)

Rch	Total (LA+WLA+RC) (lbs/year)	LA (BG+Ag+NPU) (lbs/year)	BG (lbs/year)	Agric. (lbs/year)	NPU (lbs/year)	WLA (GP+MS4+IP) (lbs/year)	GP (lbs/year)	MS4 (lbs/year)	IP (lbs/year)	RC (lbs/year)
S110	556	448	29	391	28	82	5.3	77	0	26

Total Phosphorus Daily Allocations

Table K.S.2. Daily total phosphorus load allocations by TMDL reach. Some columns names have been abbreviated to fit: Load cap. = loading capacity, LA = load allocation (background, agriculture, non-permitted urban), WLA = wasteload allocation (general permits, MS4s, individual permits), RC = reserve capacity, BG = background load, Agric. = agriculture allocation, NPU = non-permitted urban allocation, GP = general permits, IP = individual permits.

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
S1	2.4434	1.9560	0.4367	1.4461	0.0732	0.3871	0.0201	0.3670	0	0.1003
S2	4.2961	4.1054	1.1244	2.9620	0.0190	0.0321	0.0317	0.0004	0	0.1586
S3	2.2690	2.1618	0.4821	1.6405	0.0391	0.0179	0.0179	0	0	0.0893
S4	0.0983	0.0936	0.0209	0.0725	0.0002	0.0008	0.0008	0	0	0.0039
S5	1.5233	1.4554	0.3909	1.0625	0.0020	0.0113	0.0113	0	0	0.0566
S6	3.1106	2.9631	0.6520	2.2967	0.0144	0.0246	0.0246	0	0	0.1229
S7	0.7428	0.7080	0.1618	0.5345	0.0117	0.0058	0.0058	0	0	0.0291
S8	0.6361	0.6048	0.1155	0.4761	0.0133	0.0052	0.0052	0	0	0.0260
S9	1.3320	0.8362	0.2383	0.5463	0.0516	0.4411	0.0109	0	0.4302	0.0547
S10	2.7621	2.3063	0.6083	1.6902	0.0078	0.3481	0.0215	0.3265	0.0001	0.1077
S11	2.5555	2.4070	0.6889	1.6876	0.0305	0.0552	0.0187	0.0365	0	0.0933
S12	3.3409	0.8113	0.0496	0.7617	0	2.3651	0.0329	0	2.3321	0.1646
S13	0.5957	0.5654	0.0902	0.4747	0.0004	0.0051	0.0051	0	0	0.0253
S14	5.3127	5.0960	1.7015	3.3874	0.0072	0.0361	0.0361	0	0	0.1806
S15	4.0557	3.8431	0.5129	3.3082	0.0219	0.0354	0.0354	0	0	0.1771
S16	5.3965	5.1366	1.0646	4.0572	0.0148	0.0433	0.0433	0	0	0.2166
S18	1.8492	1.7717	0.5582	1.1823	0.0312	0.0129	0.0129	0	0	0.0645
S19	3.3292	2.6246	0.6342	1.9456	0.0448	0.5699	0.0270	0	0.5429	0.1348
S20	0.4204	0.3492	0.1341	0.2115	0.0035	0.0569	0.0029	0	0.0541	0.0143
S21	0.4636	0.4462	0.1737	0.2643	0.0082	0.0029	0.0029	0	0	0.0145
S22	4.4949	4.0779	0.3801	3.6707	0.0270	0.2113	0.0411	0	0.1702	0.2057
S23	4.1081	3.8963	0.5775	3.1749	0.1438	0.0353	0.0353	0	0	0.1765
S24	4.4813	2.8337	0.4402	2.2974	0.0962	1.4455	0.0404	1.4051	0	0.2021
S25	1.7628	1.6455	0.3217	1.3097	0.0141	0.0453	0.0144	0.0309	0	0.0721
S26	0.2920	0.0347	0.0223	0.0008	0.0115	0.2438	0.0027	0.2411	0	0.0135
S27	19.5734	17.7665	1.2516	16.2703	0.2446	0.8908	0.1832	0.5639	0.1437	0.9161
S28	6.6171	6.2564	0.6070	5.6292	0.0202	0.0601	0.0601	0	0	0.3005
S29	3.2713	3.0548	0.3080	2.7155	0.0313	0.0683	0.0296	0.0387	0	0.1482
S30	3.3131	2.7878	1.1104	1.6553	0.0221	0.4167	0.0220	0.0122	0.3824	0.1101
S31	2.6272	2.4806	0.1837	2.2954	0.0015	0.0244	0.0244	0	0	0.1222
S32	4.3827	4.1427	0.3820	3.6582	0.1025	0.0400	0.0400	0	0	0.2000
S33	5.1441	4.8747	0.6547	4.0588	0.1612	0.0449	0.0449	0	0	0.2245

(continued)

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
S34	6.0479	1.8233	0.5791	1.0225	0.2217	3.9512	0.0547	0	3.8965	0.2734
S35	4.4636	4.2334	0.6268	3.3809	0.2257	0.0384	0.0384	0	0	0.1918
S36	0.4004	0.3834	0.1183	0.2402	0.0250	0.0028	0.0028	0	0	0.0141
S37	6.7317	6.3720	0.7361	5.3808	0.2551	0.0600	0.0600	0	0	0.2998
S38	2.2840	2.1707	0.3959	1.7484	0.0264	0.0189	0.0189	0	0	0.0944
S39	2.6775	2.5374	0.3419	2.1390	0.0565	0.0234	0.0234	0	0	0.1168
S40	0.2030	0.1367	0.0508	0.0858	0	0.0587	0.0015	0.0572	0	0.0076
S41	3.6653	2.5895	0.4366	2.1433	0.0097	0.9143	0.0323	0.0396	0.8424	0.1614
S42	4.6820	4.4352	0.8520	3.5704	0.0128	0.0553	0.0383	0.0170	0	0.1915
S43	2.7644	2.6002	0.3454	2.2310	0.0237	0.0433	0.0242	0.0191	0	0.1210
S44	7.1172	6.0248	2.0283	3.9667	0.0298	0.8379	0.0509	0	0.7870	0.2544
S45	2.6334	2.4985	0.3856	1.9804	0.1325	0.0225	0.0225	0	0	0.1124
S46	27.5628	14.0651	1.5027	11.9636	0.5988	12.1947	0.2606	0	11.9341	1.3030
S47	11.9200	11.2967	1.5317	9.6661	0.0989	0.1039	0.1039	0	0	0.5194
S48	8.0409	7.3698	0.6347	6.6179	0.1171	0.2984	0.0745	0	0.2239	0.3727
S49	1.6965	1.6085	0.2304	1.3724	0.0057	0.0147	0.0147	0	0	0.0733
S50	5.4253	5.2252	2.0895	3.1179	0.0178	0.0334	0.0334	0	0	0.1668
S51	10.6360	10.1634	2.7588	7.3827	0.0219	0.0788	0.0788	0	0	0.3939
S52	2.4982	2.3748	0.4423	1.9229	0.0096	0.0206	0.0206	0	0	0.1028
S53	2.6815	2.5495	0.4826	2.0281	0.0388	0.0220	0.0220	0	0	0.1099
S54	2.5807	2.4458	0.3331	2.0955	0.0172	0.0225	0.0225	0	0	0.1124
S55	0.8203	0.7919	0.3470	0.2718	0.1731	0.0047	0.0047	0	0	0.0237
S56	1.5170	1.4363	0.1721	1.2568	0.0075	0.0134	0.0134	0	0	0.0672
S57	0.3090	0.2998	0.1634	0.0787	0.0577	0.0015	0.0015	0	0	0.0077
S58	0.1545	0.1521	0.1158	0	0.0363	0.0004	0.0004	0	0	0.0020
S59	0.5312	0.5048	0.1176	0.3469	0.0403	0.0044	0.0044	0	0	0.0220
S60	0.1853	0.1807	0.1087	0.0308	0.0412	0.0008	0.0008	0	0	0.0038
S61	1.1404	1.0866	0.2436	0.8354	0.0076	0.0090	0.0090	0	0	0.0448
S62	0.3722	0.3556	0.0958	0.2419	0.0180	0.0028	0.0028	0	0	0.0138
S63	0.1557	0.1528	0.1074	0.0005	0.0449	0.0005	0.0005	0	0	0.0024
S64	0.5837	0.5540	0.0890	0.4552	0.0098	0.0049	0.0049	0	0	0.0247
S65	0.0129	0.0125	0.0058	0.0067	0	0.0001	0.0001	0	0	0.0004
S66	0.2176	0.2121	0.1251	0.0870	0	0.0009	0.0009	0	0	0.0046
S67	0.2287	0.2215	0.1093	0.1095	0.0027	0.0012	0.0012	0	0	0.0060
S68	0.0198	0.0189	0.0034	0.0152	0.0003	0.0002	0.0002	0	0	0.0008
S69	0.1397	0.1367	0.0896	0.0452	0.0019	0.0005	0.0005	0	0	0.0025
S70	1.0367	0.9780	0.0595	0.9059	0.0127	0.0098	0.0098	0	0	0.0489
S71	0.0332	0.0326	0.0229	0.0091	0.0006	0.0001	0.0001	0	0	0.0005

(continued)

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
S72	0.8601	0.8324	0.3988	0.4323	0.0014	0.0046	0.0046	0	0	0.0231
S73	0.7604	0.7233	0.1433	0.5786	0.0015	0.0062	0.0062	0	0	0.0309
S74	2.0373	1.9259	0.1809	1.7278	0.0172	0.0186	0.0186	0	0	0.0928
S75	0.1251	0.1199	0.0385	0.0801	0.0013	0.0009	0.0009	0	0	0.0043
S76	0.0452	0.0434	0.0158	0.0264	0.0013	0.0003	0.0003	0	0	0.0015
S77	0.0107	0.0106	0.0091	0	0.0014	0	0	0	0	0.0001
S78	0.0905	0.0863	0.0199	0.0552	0.0112	0.0007	0.0007	0	0	0.0035
S79	0.0700	0.0678	0.0329	0.0342	0.0007	0.0004	0.0004	0	0	0.0019
S80	0.0185	0.0181	0.0121	0.0051	0.0009	0.0001	0.0001	0	0	0.0003
S81	0.1770	0.1683	0.0319	0.1332	0.0032	0.0015	0.0015	0	0	0.0073
S82	0.2592	0.2486	0.0821	0.1662	0.0003	0.0018	0.0018	0	0	0.0089
S83	0.0269	0.0263	0.0166	0.0094	0.0004	0.0001	0.0001	0	0	0.0005
S84	0.0078	0.0078	0.0078	0	0	0	0	0	0	0
S85	0.0344	0.0094	0.0094	0	0	0.0237	0.0002	0.0235	0	0.0012
S86	1.3937	0.9215	0.2727	0.6182	0.0307	0.4162	0.0112	0.3820	0.0230	0.0561
S87	0.0301	0.0288	0.0088	0.0180	0.0019	0.0002	0.0002	0	0	0.0011
S88	0.0459	0.0445	0.0227	0.0218	0	0.0002	0.0002	0	0	0.0012
S89	0.1897	0.1801	0.0287	0.1263	0.0251	0.0016	0.0016	0	0	0.0081
S90	0.0245	0.0231	0.0023	0	0.0209	0.0002	0.0002	0	0	0.0011
S91	0.2173	0.2083	0.0663	0.1419	0	0.0015	0.0015	0	0	0.0075
S92	1.9971	1.9386	1.0219	0.9109	0.0058	0.0098	0.0098	0	0	0.0488
S93	2.0357	1.9307	0.2856	1.6087	0.0365	0.0175	0.0175	0	0	0.0875
S94	3.6326	3.3221	0.6391	2.6619	0.0212	0.1608	0.0299	0	0.1309	0.1497
S95	5.0144	4.7575	0.7326	3.9779	0.0471	0.0428	0.0428	0	0	0.2141
S96	4.2518	4.0544	0.9603	2.9744	0.1196	0.0329	0.0329	0	0	0.1646
S97	1.1467	0.2766	0.0888	0.1762	0.0116	0.8171	0.0106	0	0.8066	0.0529
S98	0.3959	0.3752	0.0507	0.3153	0.0091	0.0035	0.0035	0	0	0.0173
S99	1.8073	1.7121	0.2216	1.4469	0.0436	0.0159	0.0159	0	0	0.0793
S100	9.3832	8.6732	1.9138	6.6969	0.0625	0.3365	0.0747	0.0081	0.2538	0.3735
S101	11.2283	10.6507	1.6014	8.9606	0.0886	0.0963	0.0963	0	0	0.4813
S102	10.2179	9.6367	0.5310	9.0424	0.0634	0.0969	0.0969	0	0	0.4843
S103	0.6220	0.5924	0.1280	0.4632	0.0011	0.0049	0.0049	0	0	0.0247
S104	0.2739	0.1479	0.0875	0.0549	0.0055	0.1167	0.0019	0	0.1148	0.0093
S105	4.9383	4.6255	0.6314	3.9346	0.0595	0.0975	0.0431	0.0544	0	0.2153
S106	1.1540	0.0642	0.0642	0	0	1.0353	0.0109	1.0244	0	0.0545
S107	0.2798	0.0090	0.0079	0	0.0011	0.2572	0.0027	0.2545	0	0.0136
S108	3.1848	3.0124	0.5718	2.1889	0.2517	0.0347	0.0275	0.0072	0	0.1377
S109	2.7613	2.6503	0.9108	1.7050	0.0345	0.0185	0.0185	0	0	0.0925

(continued)

Rch	Total (LA+WLA+RC) (lbs/day)	LA (BG+Ag+NPU) (lbs/day)	BG (lbs/day)	Agric. (lbs/day)	NPU (lbs/day)	WLA (GP+MS4+IP) (lbs/day)	GP (lbs/day)	MS4 (lbs/day)	IP (lbs/day)	RC (lbs/day)
S110	1.5235	1.2267	0.0806	1.0704	0.0758	0.2247	0.0144	0.2102	0	0.0721

Total Phosphorus Allocations by Permitted Point Source

Table K.S.3. Total phosphorus wasteload allocations for each individual permitted point source.

Reach	Permit no.	Outfall no.	Name	Allocation (lbs/year)	Allocation (lbs/day)
S97	50521	3	BAKER CHEESE FACTORY INC.	295	0.8066
S12	23353	1	BELGIUM WASTEWATER TREATMENT FACILITY	753	2.0620
S30	27456	1	BEMIS MANUFACTURING COMPANY - PLANT D	140	0.3824
S9	20711	1	CEDAR GROVE WASTEWATER TRTMNT FACIL	157	0.4301
S20	51535	11	CEDAR VALLEY CHEESE, INC	20	0.0541
S22	31577	1	GIBBSVILLE SANITARY DISTRICT	62	0.1702
S41	21679	1	HOWARDS GROVE WASTEWATER TRTMT FAC	308	0.8424
S44	1759	2	JOHNSONVILLE LLC	247	0.6761
S44	1759	3	JOHNSONVILLE LLC	0.42	0.0011
S46	20141	1	KIEL WASTEWATER TREATMENT FACILITY	4,359	11.9339
S44	29335	4	LAKELAND UNIVERSITY	40	0.1105
S12	817	4	LAKESIDE FOODS, INC. - BELGIUM PLANT	99	0.2701
S100	35963	1	MOUNT CALVARY WASTEWATER TREATMENT FACILITY	93	0.2537
S104	36811	1	ONION RIVER WASTEWATER COMMISSION	42	0.1148
S19	22233	1	OOSTBURG WASTEWATER TREATMENT PLANT	198	0.5429
S86	66681	101	PLASTICS ENGINEERING COMPANY	9.8	0.0267
S34	30031	1	PLYMOUTH UTILITIES WWTF	1,325	3.6290
S27	66699	1	POLY VINYL COMPANY INC	56	0.1536
S34	41904	1	SARTORI COMPANY-WEST MAIN BUILDING	98	0.2675
S48	26867	1	ST CLOUD VILLAGE UTILITY COMMISSION	82	0.2254
S94	22471	1	WALDO WASTEWATER UTILITY	48	0.1309
S10	1589	14	WISCONSIN POWER AND LIGHT EDGEWATER GEN. STATION	0.03	0.0001

Total Phosphorus Allocations by MS4

Table K.S.4. Total phosphorus wasteload allocations for each permitted MS4 and the reaches they drain to.

Municipality	Reach	Area (acres)	Allocation (lbs/year)	Allocation (lbs/day)	Reduction from baseline (%)	Reduction from no-controls (%)
City of Port Washington	S1	2,224	134	0.367	69	73
City of Sheboygan	S10	1,964	72	0.198	57	63
Town of Sheboygan	S10	7	0	0.001	57	63
Town of Wilson	S10	1,262	47	0.127	57	63
Town of Taycheedah	S100	6,423	3	0.008	84	87
Town of Sheboygan	S105	1,497	15	0.041	63	68
Village of Howards Grove	S105	472	5	0.013	63	68
City of Sheboygan	S106	2,374	337	0.922	0	15
Town of Sheboygan	S106	264	37	0.102	0	15
City of Sheboygan	S107	599	86	0.234	0	15
Town of Wilson	S107	51	7	0.020	0	15
City of Sheboygan	S108	121	0	0.001	0	20
Town of Wilson	S108	714	2	0.006	0	20
City of Sheboygan	S11	510	2	0.005	73	77
Town of Wilson	S11	2,953	11	0.031	73	77
City of Port Washington	S110	824	77	0.210	62	67
City of Port Washington	S2	14	0	0.000	90	91
City of Sheboygan	S24	3,123	309	0.846	0	15
City of Sheboygan Falls	S24	224	22	0.061	0	15
Town of Sheboygan	S24	832	82	0.225	0	15
Town of Wilson	S24	32	3	0.009	0	15
Village of Kohler	S24	974	96	0.264	0	15
City of Sheboygan Falls	S25	621	7	0.019	70	74
Town of Wilson	S25	390	4	0.012	70	74
Village of Kohler	S25	22	0	0.001	70	74
City of Sheboygan Falls	S26	568	88	0.241	0	15
City of Sheboygan	S27	113	3	0.008	0	15
City of Sheboygan Falls	S27	698	18	0.049	0	15
Town of Sheboygan	S27	61	2	0.004	0	15
Town of Wilson	S27	4,923	125	0.342	0	15

(continued)

Municipality	Reach	Area (acres)	Allocation (lbs/year)	Allocation (lbs/day)	Reduction from baseline (%)	Reduction from no-controls (%)
Village of Kohler	S27	2,311	59	0.161	0	15
City of Sheboygan Falls	S28	7	0	0.000	79	82
Town of Wilson	S28	2	0	0.000	79	82
City of Sheboygan Falls	S29	284	14	0.039	50	58
City of Sheboygan Falls	S30	1,139	4	0.012	94	95
City of Sheboygan	S40	144	7	0.018	0	15
Town of Sheboygan	S40	308	14	0.039	0	15
Village of Howards Grove	S41	562	14	0.040	77	81
Village of Howards Grove	S42	406	6	0.017	85	87
Town of Sheboygan	S43	405	5	0.013	75	79
Village of Kohler	S43	196	2	0.006	75	79
City of Sheboygan	S86	680	43	0.118	0	15
Town of Sheboygan	S86	1,493	94	0.258	0	15
Village of Kohler	S86	38	2	0.007	0	15

Total Phosphorus Percent Reductions

Table K.S.5. Total phosphorus reductions from baseline.

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
S1	Sauk Creek—mouth to 2.3	68.6	1,504
S2	Sauk Creek—mile 2.3 to 11.5	89.9	9,685
S3	Sucker Creek—mouth to mile 5.9	86.1	3,792
S4	Sauk Creek—miles 11.5 to headwaters	94.6	466
S5	Unnamed stream	91.7	4,321
S6	Unnamed tributary to Sauk Creek	86.0	5,204
S7	Unnamed tributary to Sauk Creek	75.1	603
S8	Sauk Creek—headwaters to mile 2.7	86.2	1,117
S9	Barr Creek—mouth to mile 2	87.1	2,539
S10	Black River—mouth to mile 1.2	57.0	979
S11	Black River—mile 1.2 to 5	73.1	1,738
S12	Unnamed tributary to Onion River	60.8	1,751
S13	Onion River—mile 16.9 to 18.9	74.8	516
S14	Unnamed tributary to Onion River	91.3	13,082
S15	Onion River—mile 18.9 to 26.5	74.3	3,508
S16	Unnamed stream	86.2	9,267
S18	Sucker Creek—mile 5.9 to headwaters	89.9	3,933
S19	Black River—mile 5 to headwaters	85.2	5,333
S20	Unnamed stream	93.2	1,350
S21	Onion River—mile 26.9 to 27.8	83.7	512
S22	Onion River—mile 8.6 to 16.9	69.0	3,148
S23	Onion River—mile 36.7 to headwaters	0.0	0
S24	Sheboygan River—mouth to mile 3.4	0.0	0
S25	Onion River—mouth to mile 3.1	69.6	1,134
S26	Sheboygan River—mile 67.6 to 77.2	0.0	0
S27	Sheboygan River—mile 3.4 to 13	0.0	0
S28	Onion River—mile 3.1 to 8.6	79.3	7,895
S29	Mullet River—mouth to mile 5.5	50.2	1,026
S30	Sheboygan River—mile 13 to 15.1	94.2	12,375
S31	Mullet River—mile 5.5 to 8.5	71.0	2,057

(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
S32	Unnamed tributary to Mullet River	68.7	3,008
S33	Mullet River—mile 8.5 to 13.1	70.1	3,616
S34	Mullet River—mile 13.1 to 17.7	77.5	6,470
S35	Mullet River—mile 17.7 to 20.6	38.2	813
S36	Mullet River—mile 20.6 to 22.5	0.0	0
S37	La Budde Creek	0.0	0
S38	Mullet River—mile 33.6 to 35.7	0.0	0
S39	Barr Creek—mile 2 to headwaters	80.8	3,368
S40	Pigeon River—mouth to 0.9	0.0	0
S41	Pigeon River—mile 10.9 to 18	77.4	3,797
S42	Fisher Creek	85.0	7,480
S43	Unnamed tributary to Pigeon River	74.9	2,478
S44	Sheboygan River—mile 15.1 to 29	84.0	9,202
S45	Sheboygan River—mile 29 to 40	0.0	0
S46	Sheboygan River—mile 40 to 43.6	0.0	0
S47	Sheboygan River—mile 43.6 to 54.1	43.8	2,785
S48	Sheboygan River—mile 56 to 62	0.0	18
S49	Unnamed tributary to Meeme River	70.7	1,216
S50	Meeme River—headwaters to mile 7.6	83.7	5,884
S51	Pigeon River—mile 18 to Little Pigeon Lake	76.7	8,923
S52	Meeme River—mile 11.7 to mouth	78.2	2,527
S53	Unnamed tributary to Sheboygan River	0.0	0
S54	Unnamed tributary to Onion River	77.6	2,676
S55	Elkhart Lake	6.0	10
S56	Mullet Lake	63.4	801
S57	Cedar Lake	0.0	3
S58	Crystal Lake	0.0	1
S59	Wilke Lake	0.0	10
S60	Pigeon Lake	6.7	2
S61	Little Pigeon Lake	24.5	100
S62	Wolf Lake	64.7	174
S63	Little Elkhart Lake	7.2	1

(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
S64	Horseshoe Lake	29.6	71
S65	West Lake	0.0	0
S66	Scout Lake	71.3	79
S67	Unnamed lakes/ponds	68.3	88
S68	Unnamed lake/pond	0.0	0
S69	Unnamed lakes/ponds	0.0	0
S70	Gitners Lake	0.0	0
S71	Jetzers Lake	82.4	17
S72	Gerber Lake	87.7	1,124
S73	Mischos Pond	83.3	1,059
S74	Sy Lake	12.8	94
S75	Unnamed lake/pond	0.0	0
S76	Unnamed lake/pond	0.0	0
S77	Dollar Lake	0.0	0
S78	Paulys Lake	0.0	0
S79	Ludowissi Lake	92.7	163
S80	Shoe Lake	0.0	0
S81	Graf Lake	0.0	0
S82	Grasser Lake	89.0	493
S83	Spring Lake	0.0	0
S84	Prueder Lake	0.0	0
S85	Sheboygan Quarry	0.0	0
S86	Pigeon River—mile 0.9 to 5	0.0	0
S87	Bullet Lake	0.0	0
S88	Unnamed lake/pond	92.8	103
S89	Mullet River—mile 22.5 to 23.7	0.0	0
S90	Mullet River—mile 23.7 to 23.9	0.0	0
S91	Unnamed lake/pond	0.0	0
S92	Sheboygan River—mile 54.1 to 56	90.5	3,191
S93	Mullet River—mile 33.6 to Mullet Lake	0.0	0
S94	Onion River—mile 27.8 to 30.7	84.3	5,526
S95	Onion River—mile 30.7 to 36.7	29.8	623
S96	Mullet River—mile 23.9 to to 30.9	0.0	0

(continued)

Reach	Reach description	Percent reduction (%)	Load reduction (lbs/year)
S97	Unnamed tributary to Mullet River	61.1	569
S98	Unnamed tributary to Mullet River	0.0	0
S99	Mullet River—mile 30.9 to 33.6	0.0	0
S100	Unnamed tributary to Sheboygan River	84.4	13,899
S101	Sheboygan River—mile 67 to headwaters	53.1	3,738
S102	Otter Creek	0.0	0
S103	Unnamed tributary to Sheboygan River	78.2	610
S104	Onion River—mile 26.5 to 26.9	91.3	669
S105	Pigeon River—mile 5 to 10.9	62.8	2,500
S106	Unnamed tributaries to Lake Michigan	0.0	0
S107	Unnamed tributaries to Lake Michigan	0.0	0
S108	Unnamed tributaries to Lake Michigan	0.0	51
S109	Unnamed tributaries to Lake Michigan	86.0	3,919
S110	Unnamed tributaries to Lake Michigan	61.5	792