Appendix B

Northeast Lakeshore TMDL

Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids

Table 1. TMDL Subbasins and Applicable Phosphorus Criteria

Table 2. TMDL Subbasins and Applicable Total Suspended Solids Target

Table 1. TMDL Subbasins and Applicable Total Phosphorus Criteria

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
K1	West Twin River— mile 0.2 to 6.9	Confluence of West and East Twin Rivers	87000	18050	Kewaunee	75
К2	East Twin River— mouth to mile 8.2	Confluence of East and West Twin Rivers	84000	18071	Kewaunee	75
К3	West Twin River— mile 6.9 to 11.6	Just upstream of where Unnamed tributary flows into West Twin River	87000	9948	Kewaunee	75
К4	East Twin River—mile 8.2 to 13	Just upstream of where Unnamed tributary flows into East Twin River	84000	18071	Kewaunee	75
К5	Devils River—mouth to mile 4.9	Devils River outflow into Neshota River	89900	10138	Kewaunee	75
К6	Neshota River— mouth to mile 1.7	Just downstream of Devils River outlet into Neshota River	88200	9959	Kewaunee	75
К7	Black Creek—mouth to mile 6.4	Outlet into Neshota River	88300	9960	Kewaunee	75
К8	Neshota River—mile 1.7 to 6.4	Just upstream of Black Creek outlet into Neshota River	88200	9959	Kewaunee	75
К9	Unnamed tributary to Neshota River	Outflow into Neshota River	89100	10131	Kewaunee	75
K10	Neshota River—mile 6.4 to 10.5	Just upstream of Unnamed outflow	88200	18054	Kewaunee	75
K11	Neshota River—mile 10.5 to 11	Just downstream of King Creeks outflow	88200	18054	Kewaunee	75
K12	King Creek	King Creek outflow	89400	10133	Kewaunee	75
K13	Devils River—mile 4.9 to headwaters	Just up stream of Unnamed Tributary	89900	10138	Kewaunee	75
K14	Unnamed tributary to Devils River	Near Unnamed stream outflow	5019923	5690881	Kewaunee	75
K15	Jambo Creek—mouth to mile 8.1	Near Jambo Creek outflow	84300	5500767	Kewaunee	75
K16	East Twin River—mile 8.2 to 19.4	Near Jambo Creek outflow	84000	4700226	Kewaunee	75
K17	Jambo Creek—mile 8.1 to 10.1	Just upstream of Unnamed tributary outflow	84300	5500767	Kewaunee	75
K18	Unnamed tributary to Jambo Creek	Where Unnamed tributary outflow	5019981	4000369	Kewaunee	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
K19	Tisch Mills Creek	Near Tisch Mills outflow	85500	18056	Kewaunee	75
K20	East Twin River—mile 19.4 to 26.4	Upstream of where Tisch Mills Creek outflow	84000	4700226	Kewaunee	75
K21	Black Creek—mile 6.4 to headwaters	Where Unnamed stream outflow	88300	9960	Kewaunee	75
K22	Unnamed tributary to Lake Michigan	Unnamed tributary outlet into Lake Michigan	90300	10166	Kewaunee	75
К23	Molash Creek— mouth to mile 1.1	Molash Creek outlet to Lake Michigan	90100	10164	Kewaunee	75
K24	East Twin River—mile 26.4 to 32.1	Just upstream of an Unnamed stream outflow	84000	10205	Kewaunee	75
K25	Unnamed tributary to East Twin River	Unnamed tributary outflow	86400	18058	Kewaunee	75
K26	East Twin River—mile 32.1 to 34.2	Confluence of Krok Creek and the East Twin River	84000	10205	Kewaunee	75
K27	Krok Creek	Near Krok Creek outflows into the East Twin River	86700	10162	Kewaunee	75
K28	Unnamed tributary to East Twin River	Near unnamed tributary outflow	3000211	5534458	Kewaunee	75
K29	East Twin River—mile 34.2 to headwaters	Just upstream of Unnamed stream outflow	84000	10206	Kewaunee	75
К30	Unnamed tributary to Lake Michigan	Where Unnamed Tributary outlet into Lake Michigan	90400	18060	Kewaunee	75
K31	Kewaunee River— mouth to mile 6.5	Kewaunee River outlet into Lake Michigan	907000	10169	Kewaunee	75
K32	Kewaunee River— mile 6.5 to 15.1	Just upstream of outflow of Unnamed tributary	90700	18061	Kewaunee	75
К33	Scarboro Creek— mouth to mile 6	Near Scarboro Creek outflow	91000	18062	Kewaunee	75
К34	Kewaunee River— mile 15.1 to 16.4	Just downstream of where Scarboro Creek outflows	90700	10170	Kewaunee	75
K35	Scarboro Creek— mile 6 to headwaters	Where Unnamed tributary meets Scarboro Creek	91000	10174	Kewaunee	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
К36	Casco Creek—mouth to mile 1.7	Where Casco Creek flows into Kewaunee River	91600	10178	Kewaunee	75
К37	Kewaunee River— mile 16.4 to 18	Upstream of where Casco Creek flows into Kewaunee River	90700	482871	Kewaunee	75
К38	Casco Creek—mile 6.3 to headwaters	Casco Creek	91600	10180	Kewaunee	75
К39	Kewaunee River— mile 18 to 19.5	Kewaunee River	90700	482871	Kewaunee	75
K40	School Creek— mouth to mile 2.1	Where School Creek Flows into Kewaunee River	92200	10184	Kewaunee	75
K41	Kewaunee River— mile 19.5 to 23.2	Just upstream of where School Creek flows into Kewaunee River	90700	482871	Kewaunee	75
K42	School Creek—mile 5.5 to headwaters	Downstream of where Unnamed tributary flows into School Creek	92200	10184	Kewaunee	75
К43	Kewaunee River— mile 23.2 to headwaters	Downstream of where Unnamed tributary flows into Kewaunee River	90700	482871	Kewaunee	75
K44	Ahnapee River— mouth to mile 0.9	Ahnapee River outley to Lake Michigan	164621	18073	Kewaunee	75
K45	Silver Creek (South)—mouth to mile 2.1	Where Silver Creek flows into Ahnapee River	94900	10211	Kewaunee	75
К46	Ahnapee River—mile 0.9 to 3.3	Upstream of Silver Creeks outflow into Ahnapee River	94800	18073	Kewaunee	75
K47	Silver Creek (South)—mile 2.1 to 6.9	Approximately 1.3 miles upstream of Silver Creek outflow into Ahnapee River	94900	10212	Kewaunee	75
K48	Rio Creek—mouth to mile 4.2	Near Rio Creek outflow into Silver Creek	95200	10215	Kewaunee	75
K49	Silver Creek—mile 6.9 to headwaters	Just where Rio Creek flows into Silver Creek	94900	10212	Kewaunee	75
К50	Rio Creek—mile 4.2 to headwaters	Rio Creek	95200	10215	Kewaunee	75
K51	Ahnapee River—mile 3.3 to 7.1	Approximately 2.8 miles upstream of Ahnapee River outlet into Lake Michigan	94800	18073	Kewaunee	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
K52	Ahnapee River—mile 7.1 to 7.9	Just downstream of Forestville Dam	94800	18073	Kewaunee	75
К53	Ahnapee River—mile 11.7 to headwaters	Downstream of Unnamed tributary outflow into Ahnapee River	94800	482923	Kewaunee	75
K54	Stony Creek—mouth to mile 8.2	Outlet into Lake Michigan	96100	10219	Kewaunee	75
K55	Stony Creek—mile 8.2 to headwaters	Just upstream of Unnamed tributaries outflow into Stony Creek	96100	10219	Kewaunee	75
K56	Bear Creek	Outlet into Lake Michigan	96400	10221	Kewaunee	75
K57	Silver Creek (North)	Outlet into Lake Michigan	96000	10217	Kewaunee	75
K58	Threemile Creek— mouth to Krohns Lake	Outlet into Lake Michigan	94600	10209	Kewaunee	75
К59	Mashek Creek	Outlet into Lake Michigan	94000	10208	Kewaunee	75
K60	Unnamed tributary to Lake Michigan	Outlet into Lake Michigan	5021058	5497861	Kewaunee	75
K61	Neshota River—mile 11 to headwaters	Where Unnamed tributary flows into Neshota River	88200	18054	Kewaunee	75
K62	Unnamed tributary to Neshota River	Just upstream to outlet into Neshota River	89500	10134	Kewaunee	75
K63	Unnamed stream	Outlet of unnamed tributary to Devils River	5020041	5690921	Kewaunee	75
K64	Unnamed stream	Unnamed stream	5019923	5690881	Kewaunee	75
K65	Unnamed tributary to Kriwanek Creek	At outlet into Kriwanek Creek	3000159	1525823	Kewaunee	75
K66	Kriwanek Creek— mile 0.7 to headwaters	Just upstream of Unnamed stream outlet into Kiwanek Creek	88000	18053	Kewaunee	75
K67	Unnamed tributary to West Twin River	Outlet to West Twin River	87500	9953	Kewaunee	75
K68	Harpt Lake	Harpt Lake outlet	84600	10149	Kewaunee	20
К69	Jambo Creek—mile 10.1 to 10.7	Just downstream of Engledinger Lake	84300	10146	Kewaunee	75
К70	Jambo Creek—mile 10.7 to headwaters	Shae Lake outlet	85400	10154	Kewaunee	20
K71	Heidmann Lake	Heidmann Lake outlet	85200	10152	Kewaunee	75

TMDL	Reach Name	Outlet Location	WBIC at	WATERS ID	Region	TP Criterion
Subbasin			Outlet	at Outlet		(μg/L)
K72	Chada Lake	Chada Lake outlet	85000	10151	Kewaunee	75
K73	East Alaska Lake	East Alaska Lake outlet	94200	18067	Kewaunee	75
K74	Lilly Lake	Lilly Lake	82900	9946	Kewaunee	75
K75	Middle Lake	Middle Lake	83000	9947	Kewaunee	75
K76	Third Lake	Third Lake outlet	89800	10137	Kewaunee	75
K77	West Alaska Lake	West Alaska Lake	94300	10188	Kewaunee	20
K78	Krohns Lake	Krohns Lake outlet	94700	10190	Kewaunee	75
K79	Hidden Lake	Hidden Lake	82800	9945	Kewaunee	75
K80	Unnamed lake/pond	Unnamed Lake	83700	26200	Kewaunee	75
K81	Tuma Lake	Tuma Lake	87900	9956	Kewaunee	20
K82	Seidel Lake	Seidel Lake	83100	10142	Kewaunee	75
K83	Mott Lake	Mott Lake outlet	84700	10150	Kewaunee	75
K84	Silver Lake	Silver Lake outlet	94500	10189	Kewaunee	75
K85	Stump Pond	Stump Pond	90600	10168	Kewaunee	75
K86	Ahnapee River—mile 9.8 to 11.7	Just upstream of Forestville Flowage	164621	482923	Kewaunee	75
K87	West Twin River— mouth to mile 0.2	Outlet to Lake Michigan	87000	18050	Kewaunee	75
K88	Unnamed stream	about 1.6 miles upstream of West Twin River outlet	87500	9953	Kewaunee	75
K89	Unnamed stream	Confluence of unnamed streams	3000211	5534458	Kewaunee	75
К90	Unnamed stream	Confluence of Unnamed streams	3000212	5500551	Kewaunee	75
K91	Unnamed stream	Outlet into Unnamed stream	3000213	5500585	Kewaunee	75
K92	Unnamed stream	Unnamed stream	3000212	5500551	Kewaunee	75
К93	West Twin River— mile 11.6 to 18.6	Where Francis Creek flows into West Twin River	87000	9948	Kewaunee	75
K94	Francis Creek	Outlet into West Twin River	87600	18052	Kewaunee	75
К95	Molash Creek—mile 1.1 to headwaters	About 1.3 miles upstream of outlet to Lake Michigan	90100	10164	Kewaunee	75
К96	Casco Creek—mile 1.7 to 6.3	Just upstream of unnamed stream outlet int Casco Creek	164574	18064	Kewaunee	75
К97	School Creek—mile 2.1 to 5.5	School Creek	92200	10184	Kewaunee	75
К98	Unnamed tributary to School Creek	Outflow into School Creek	3000214	10184	Kewaunee	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
К99	Unnamed tributary to Kewaunee River	Just upstream of outflow into Kewaunee River	92500	10187	Kewaunee	75
K100	Ahnapee River—mile 7.9 to 9.8	Forestville Flowage outlet into Ahnapee River NW of Forestville	94800	482923	Kewaunee	75
K101	Woodard Creek	Woodard creek outlet into Lake Michigan	96600	10222	Kewaunee	75
K102	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	190623	N/A	Kewaunee	75
K103	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	5014564	N/A	Kewaunee	75
K104	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	5015028		Kewaunee	75
K105	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	5015845		Kewaunee	75
K106	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	5016682		Kewaunee	75
K107	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	5017578		Kewaunee	75
K108	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	5018632		Kewaunee	75
K109	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	5020517		Kewaunee	75
K110	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan			Kewaunee	75
K111	Unnamed tributaries to Lake Michigan	Unnamed tributary outlet into Lake Michigan	90200	1479504	Kewaunee	75
K112	Unnamed Pond				Kewaunee	75
M1	Centerville Creek	Outlet into Lake Michigan	65400	3999071	Manitowoc	75
M2	Fischer Creek	Outlet into Lake Michigan	65800	9863	Manitowoc	75
М3	Point Creek	Outlet into Lake Michigan	66000	9864	Manitowoc	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
M4	Pine Creek (East)— mouth to 2.7	Outlet into Lake Michigan	66300	18026	Manitowoc	75
M5	Pine Creek (East)— mile 2.7 to 6.5	Approximately 1.5 miles upstream of outlet into Lake Michigan	66300	9866	Manitowoc	75
M6	Calvin Creek—mouth to mile 5.8	Outlet into Lake Michigan	66900	18027	Manitowoc	75
M7	Silver Creek—mouth to mile 9.5	Outlet into Lake Michigan	67300	6872	Manitowoc	75
M8	Silver Lake	Silver Lake outlet	67400	18028	Manitowoc	30
M9	Silver Creek—mile 5 to headwaters	Approximately 1.3 miles downstream of English Lake outflow	67300	8106635	Manitowoc	75
M10	Manitowoc River— mouth to mile 6.3	Outlet into Lake Michigan	71000	9882	Manitowoc	100
M11	Manitowoc River— mile 6.3 to 12.6	Upstream of outlet into Lake Michigan	71000	482064	Manitowoc	100
M12	Branch River—mouth to mile 12.3	Outflow into Manitowoc River	71300	9899	Manitowoc	75
M13	Manitowoc River— mile 12.6 to 16.5	Near Branch River outflow	71000	482064	Manitowoc	100
M14	Manitowoc River— mile 18.8 to 22.2	Manitowoc River	71000	9886	Manitowoc	100
M15	Manitowoc River— mile 22.2 to 28.2	Just upstream of Unnamed River outlet	71000	482116	Manitowoc	100
M16	Killsnake River— mouth to mile 3.4	Outflow into South Branch Manitowoc River	78200	18043	Manitowoc	75
M17	South Branch Manitowoc River— mile 3 to 9.2	Just upstream of Cedar Creek outlet	77900	9924	Manitowoc	75
M18	Cedar Creek—mouth to mile 6	Outflow into South Branch Manitowoc River	78700	9928	Manitowoc	75
M19	Pine Creek (West)— mouth to mile 5	Outflow into South Branch Manitowoc River	79900	9931	Manitowoc	75
M20	South Branch Manitowoc River— mile 9.2 to 14.8	Just downstream of Pine Creek outflow into South Branch Manitowoc River	77900	9924	Manitowoc	75
M21	South Branch Manitowoc River— mile 1.8 to 3	South Branch Manitowoc River	77900	9924	Manitowoc	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
M22	South Branch Manitowoc River— mile 18.8 to 29.3	Near Stony Brook outflow	77900	3990110	Manitowoc	75
M23	Mud Creek (South)	Outflow into Manitowoc River	73600	9888	Manitowoc	75
M24	Manitowoc River— mile 28.2 to 31	Just upstream of Mud Creek outflow	71000	482116	Manitowoc	100
M25	Mud Creek (North)	Outflow into Manitowoc River	75000	9893	Manitowoc	75
M26	North Branch Manitowoc River— mouth to mile 7.3	Confluence of North and South Branch	75900	9911	Manitowoc	75
M27	South Branch Manitowoc River— mouth to mile 1.8	Confluence of South and North Branch	77900	9924	Manitowoc	75
M28	Unnamed stream	Outflow into North Branch Manitowoc River	76700	9916	Manitowoc	75
M29	North Branch Manitowoc River— mile 7.3 to 11.2	Just upstream of Spring Creek outflow	75900	18039	Manitowoc	75
M30	Spring Creek—mouth to mile 2.6	Outflow into North Branch Manitowoc River	76900	9917	Manitowoc	75
M31	Manitowoc River— mile 31 to headwaters	Just upstream of Mud Creek outflow	71000	482116	Manitowoc	100
M32	Branch River—mile 12.3 to 23.5	Above outlet of Unnamed tributary	71300	9899	Manitowoc	75
M33	Unnamed tributary to Branch River	Outflow into Branch River	71500	9901	Manitowoc	75
M34	Unnamed stream	Approximately 1.5 miles upstream of Branch River outflow	71600	18037	Manitowoc	75
M35	Branch River—mile 23.5 to 28.4	Outflow into Branch River	71300	482239	Manitowoc	75
M36	Little Manitowoc River—mouth to mile 4.4	Outlet into Lake Michigan	82500	9898	Manitowoc	75
M37	Little Manitowoc River—mile 4.4 to headwaters	Approximately 3.4 miles upstream of Lake Michigan outlet	82500	9898	Manitowoc	75
M38	Sevenmile Creek— mile 0.9 to headwaters	Upstream of Lake Michigan outlet	65100	9861	Manitowoc	75

M39		Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
RCINI	Sevenmile Creek— mile 6.1 to 6.9	Outlet into Lake Michigan	65100	9861	Manitowoc	75
N//O	Fourmile Creek— mouth to mile 0.4	Outlet into Lake Michigan	64700	3999319	Manitowoc	75
K/I/I I	Unnamed tributary to Fourmile Creek	Fourmile Creek Headwaters	64800	6853227	Manitowoc	75
N/A2	Fourmile Creek—mile 0.4 to headwaters	Fourmile Creek Headwaters	64700	3999319	Manitowoc	75
M43	South Branch Manitowoc River— mile 29.3 to headwaters	South Branch Manitowoc River	77900	3990110	Manitowoc	75
13/1/1/1	Pine Creek (West)— mile 5.1 to 6.3	Pine Creek	79900	9931	Manitowoc	75
N//15	Killsnake River—mile 3.4 to 8.2	Just upstream of Unnamed stream outflow	78200	18043	Manitowoc	75
IVI4h	Spring Creek—mile 2.6 to headwaters	Just upstream of Unnamed stream outlet into Spring Creek	76900	9917	Manitowoc	75
1/1/4 /	Unnamed tributary to Branch River	Outlet into Branch River	5020830	482239	Manitowoc	75
M48	Unnamed tributary to South Branch Manitowoc River	Outlet into South Branch Manitowoc River	3000057	482551	Manitowoc	75
M49	South Branch Manitowoc River— mile 14.8 to 18.8	Where unnamed stream outflows	77900	3990110	Manitowoc	75
IVI50	Branch River—mile 28.4 to headwaters	Just upstream of Unnamed stream outflow	71300	482239	Manitowoc	75
M51	Black Creek	Outflow into Spring Creek	77100	9918	Manitowoc	75
M52	Weyers Lake	Wyers Lake	49400	9859	Manitowoc	20
M53	Calvin Creek—mile 5.8 to Hartlaub Lake	Hartlaub Lake outlet	67200	9871	Manitowoc	30
M54	Gass Lake	Gass Lake	67100	9870	Manitowoc	30
M55	Carstens Lake	Carstens Lake outlet	66800	9869	Manitowoc	30
	English Lake	English Lake outlet	68100	9878	Manitowoc	20
	Bullhead Lake	Bullhead Lake outlet	68300	9881	Manitowoc	20
	Round Lake	Round Lake outlet	68600	9910	Manitowoc	30
	Boot Lake	Boot Lake outlet	77600	9921	Manitowoc	30
	Long Lake	Long Lake outlet	77500	18042	Manitowoc	30
	Becker Lake Grass Lake	Becker Lake outlet Grass Lake outlet	77300 77200	9920 9919	Manitowoc Manitowoc	30 75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
M63	Silver Creek—mile 5 to 9.3	Outlet flow Silver Lake	67300	8106635	Manitowoc	75
M64	Kellners Lake	Kellners Lake outlet	71900	9906	Manitowoc	75
M65	Schisel Lake	Schisel Lake outlet	5023417	9885	Manitowoc	75
M66	Hempton Lake	Hempton Lake outlet	164460	9901	Manitowoc	75
M67	Unnamed lakes/ponds	Unnamed lake	48760	26354	Manitowoc	75
M68	Cedar Creek—mile 8.4 to Mud Lake	Mud Lake outlet	78700	9928	Manitowoc	75
M69	Unnamed lakes/ponds	Unnamed lake	69800	26350	Manitowoc	75
M70	Unnamed lakes/ponds	Unnamed lake	70000	26349	Manitowoc	75
M71	Lake Oschwald	Lake Oschwald outlet	73800	18033	Manitowoc	75
M72	Glomski Lake	Lake Glomski	45400	9857	Manitowoc	75
M73	Kasbaum Lake	Kasbaum Lake	45800	9858	Manitowoc	75
M74	Unnamed lakes/ponds	Unnamed Lake	48900	26370	Manitowoc	75
M75	Eaton Twin Lakes (South)	Eaton Twin Lake (South)	68700	26374	Manitowoc	75
M76	Eaton Twin Lakes (North)	Eaton Twin Lake (North)	68400	26372	Manitowoc	75
M77	Cedar Creek—mile 6 to 8.4	Cedar Creek	78700	9928	Manitowoc	75
M78	Vetting Lake	Vetting Lake	67900	18029	Manitowoc	75
M79	Unnamed tributary to Lake Michigan	Outlet into Lake Michigan	65000	3996883	Manitowoc	75
M80	Bergene Lake	Outflow into Manitowoc River	72700	423711	Manitowoc	75
M81	Manitowoc River— mile 16.5 to 18.8	Near Unnamed stream outflow	71000	482064	Manitowoc	100
M82	Unnamed tributary to South Branch Manitowoc River	Outflow into South Branch Manitowoc River	5025824	3990110	Manitowoc	75
M83	Stony Brook	Outflow into South Branch Manitowoc River	81500	5735506	Manitowoc	75
M84	Unnamed tributary to Killsnake River	Outflow into Killsnake River	78300	9925	Manitowoc	75
M85	Killsnake River—mile 8.2 to headwaters	Unnamed stream outflow	78200	18043	Manitowoc	75
M86	North Branch Manitowoc River— mile 11.2 to headwaters	Unnamed stream outflow	164522	18039	Manitowoc	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
M87	Unnamed tributary to Pine Creek	Outflow into Pine Creek	66400	9867	Manitowoc	75
M88	Pine Creek (West)— mile 6.3 to headwaters				Manitowoc	75
M89	Unnamed tributary to Branch River	Outflow into Branch River	5021194	482239	Manitowoc	75
M90	Unnamed tributary to Lake Michigan	Outet into Lake Michigan	83800	6854424	Manitowoc	75
M91	No waterbodies				Manitowoc	75
M92	Unnamed	No outflow	5024033	1452984	Manitowoc	75
M93	Unnamed	Outflow into Lake Michigan	5024772		Manitowoc	75
M94	No waterbodies				Manitowoc	75
M95	Unnamed	Outflow into Lake Michigan	3000455		Manitowoc	75
M96	Unnamed tributary to Lake Michigan	Outflow into Lake Michigan	3000485	6901457	Manitowoc	75
M97	Unnamed lake/pond	Unnamed Lake	5561833		Manitowoc	75
M98	No waterbodies				Manitowoc	75
M99	No waterbodies				Manitowoc	75
S1	Sauk Creek—mouth to 2.3	Outflow into Lake Michigan	49500	11342	Sheboygan	75
S2	Sauk Creek—mile 2.3 to 11.5	About 1.6 miles upstream of Lake Michigan outlet	49500	11342	Sheboygan	75
S3	Sucker Creek— mouth to mile 5.9	Outlet into Lake Michigan	50100	11343	Sheboygan	75
S4	Sauk Creek—miles 11.5 to headwaters	Near Unnamed stream outflow	49500	11342	Sheboygan	75
S5	Unnamed stream	Outflow into Sauk Creek	49700	894870	Sheboygan	75
S6	Unnamed tributary to Sauk Creek	Outflow into Sauk Creek	49900	894884	Sheboygan	75
S7	Unnamed tributary to Sauk Creek	Outflow into Sauk Creek	50000	894877	Sheboygan	75
\$8	Sauk Creek— headwaters to mile 2.7	Just upstream of Unnamed stream outflow into Sauk Creek	49500	11342	Sheboygan	75
S9	Barr Creek—mouth to mile 2	Outlet into Lake Michigan	50200	18212	Sheboygan	75
S10	Black River—mouth to mile 1.2	Outlet into Lake Michigan	50300	11346	Sheboygan	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
S11	Black River—mile 1.2 to 5	Approximately 0.8 miles upstream of outlet into Lake Michigan	50300	11346	Sheboygan	75
S12	Unnamed tributary to Onion River	Outflow into Onion River	51400	207456	Sheboygan	75
S13	Onion River—mile 16.9 to 18.9	Near confluence of Onion River and Unnamed stream	51200	3987352	Sheboygan	75
S14	Unnamed tributary to Onion River	Near confluence of Unnamed stream and Onion River	51800	5728868	Sheboygan	75
\$15	Onion River—mile 18.9 to 26.5	Near confluence of Onion River and Unnamed stream	51200	3987352	Sheboygan	75
S16	Unnamed stream	Confluence of Unnamed streams	51400	895376	Sheboygan	75
S17	Unnamed stream				Sheboygan	75
\$18	Sucker Creek—mile 5.9 to headwaters	Confluence of Sucker Creek and Unnamed stream	50100	11343	Sheboygan	75
S19	Black River—mile 5 to headwaters	Confluence of Black River and Unnamed stream	50300	11346	Sheboygan	75
S20	Unnamed stream	Confluence of Unnamed streams	5030083	3871126	Sheboygan	75
S21	Onion River—mile 26.9 to 27.8	Hingham Mill Pond outlet	51200	3987352	Sheboygan	75
S22	Onion River—mile 8.6 to 16.9	Confluence of Onion River and Unnamed stream	51200	3987352	Sheboygan	75
S23	Onion River—mile 36.7 to headwaters	Confluence of Onion River and Mill Creek	51200	11374	Sheboygan	75
S24	Sheboygan River— mouth to mile 3.4	Outlet into Lake Michigan	50700	11354	Sheboygan	100
S25	Onion River—mouth to mile 3.1	Confluence of Onion and Sheboygan River	51200	3987352	Sheboygan	75
S26	Sheboygan River— mile 67.6 to 77.2	Confluence of Sheboygan and Onion River	50700	11354	Sheboygan	100
S27	Sheboygan River— mile 3.4 to 13	Confluence of Sheboygan River and Unnamed stream	50700	11354	Sheboygan	100
S28	Onion River—mile 3.1 to 8.6	Near outflow of Unnamed stream	51200	3987352	Sheboygan	75
\$17 \$18 \$19 \$20 \$21 \$22 \$23 \$24 \$25 \$26	Unnamed stream Sucker Creek—mile 5.9 to headwaters Black River—mile 5 to headwaters Unnamed stream Onion River—mile 26.9 to 27.8 Onion River—mile 8.6 to 16.9 Onion River—mile 36.7 to headwaters Sheboygan River— mouth to mile 3.4 Onion River—mouth to mile 3.1 Sheboygan River— mile 67.6 to 77.2 Sheboygan River— mile 3.4 to 13 Onion River—mile	Unnamed streams Confluence of Sucker Creek and Unnamed stream Confluence of Black River and Unnamed stream Confluence of Unnamed streams Hingham Mill Pond outlet Confluence of Onion River and Unnamed stream Confluence of Onion River and Mill Creek Outlet into Lake Michigan Confluence of Onion and Sheboygan River Confluence of Sheboygan and Onion River Confluence of Sheboygan River and Unnamed stream Near outflow of	50100 50300 5030083 51200 51200 51200 50700 50700 50700	11343 11346 3871126 3987352 3987352 11374 11354 3987352 11354	Sheboygan	75 75 75 75 75 75 100 75 100

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
S29	Mullet River—mouth to mile 5.5	Confluence of Onion River and Sheboygan River	53400	9839	Sheboygan	75
S30	Sheboygan River— mile 13 to 15.1	Confluence of Sheboygan River and Mullet River	50700	11355	Sheboygan	100
S31	Mullet River—mile 5.5 to 8.5	Mullet River	53400	9839	Sheboygan	75
S32	Unnamed tributary to Mullet River	Confluence of Unnamed stream and Mullet River	53600	207451	Sheboygan	75
S33	Mullet River—mile 8.5 to 13.1	Confluence of Mullet River and Unnamed stream	53400	9839	Sheboygan	75
S34	Mullet River—mile 13.1 to 17.7	Mullet River	53400	9839	Sheboygan	75
S35	Mullet River—mile 17.7 to 20.6	Just downstream of confluence of Mullet River and Jackson Creek	53400	9842	Sheboygan	75
S36	Mullet River—mile 20.6 to 22.5	Confluence of Mullet River and La Budde Creek	53400	9842	Sheboygan	75
S37	La Budde Creek	Confluence of La Budde Creek and Mullet River	54800	9844	Sheboygan	75
S38	Mullet River—mile 33.6 to 35.7	Mullet Marsh Reservoir outlet	53400	1455058	Sheboygan	75
S39	Barr Creek—mile 2 to headwaters	Approximately 1.3 miles upstream of Lake Michigan outlet	50200	18212	Sheboygan	75
S40	Pigeon River—mouth to 0.9	Outlet into Lake Michigan	62300	1496062	Sheboygan	75
S41	Pigeon River—mile 10.9 to 18	Confluence of Pigeon River and Fisher Creek	62300	1496062	Sheboygan	75
S42	Fisher Creek	Confluence of Fisher Creek and Pigeon River	62500	18021	Sheboygan	75
S43	Unnamed tributary to Pigeon River	Confluence of Unnamed stream and Pigeon River	62400	480998	Sheboygan	75
S44	Sheboygan River— mile 15.1 to 29	Confluence of Sheboygan River and Otter Creek	50700	11355	Sheboygan	100
S45	Sheboygan River— mile 29 to 40	Confluence of Sheboygan River and Millhome Creek	50700	11356	Sheboygan	100

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
S46	Sheboygan River— mile 40 to 43.6	Confluence of Sheboygan River and Unnamed stream	50700	11356	Sheboygan	100
S47	Sheboygan River— mile 43.6 to 54.1	Sheboygan Lake outlet	50700	423669	Sheboygan	75
S48	Sheboygan River— mile 56 to 62	Confluence of Sheboygan River and Unnamed stream	50700	5753343	Sheboygan	75
\$49	Unnamed tributary to Meeme River	Confluence of Unnamed stream and Meeme River	63000	481039	Sheboygan	75
S50	Meeme River— headwaters to mile 7.6	Confluence of Meeme River and Unnamed stream	62900	207459	Sheboygan	75
S51	Pigeon River—mile 18 to Little Pigeon Lake	Confluence of Pigeon River and Meeme River	62300	1496062	Sheboygan	75
S52	Meeme River—mile 11.7 to mouth	Confluence of Meeme River and Pigeon River	62900	207459	Sheboygan	75
S53	Unnamed tributary to Sheboygan River	Outflow of Unnamed stream into Sheboygan River	57700	5735425	Sheboygan	75
S54	Unnamed tributary to Onion River	Unnamed stream outflow into Onion River	52600	207455	Sheboygan	75
S55	Elkhart Lake	Elkhart Lake outlet	59300	11365	Sheboygan	15
S56	Mullet Lake	Mullet Lake outlet	56200	9845	Sheboygan	75
S57	Cedar Lake	Cedar Lake	45100	11349	Sheboygan	40
S58	Crystal Lake	Crystal Lake	45200	9837	Sheboygan	15
S59	Wilke Lake	Wilke Lake outlet	58000	18216	Sheboygan	20
S60	Pigeon Lake	Pigeon Lake	64000	18022	Sheboygan	20
S61	Little Pigeon Lake	Little Pigeon Lake	5558645	34388	Sheboygan	75
S62	Wolf Lake	Wolf Lake outlet	60800	11367	Sheboygan	30
S63	Little Elkhart Lake	Little Elkhart Lake	46000	11351	Sheboygan	20
S64	Horseshoe Lake	Horseshoe Lake outlet	64200	9853	Sheboygan	15
S65	West Lake	West Lake	49300	361867	Sheboygan	75 75
S66	Scout Lake Unnamed	Scout Lake	46400	361849	Sheboygan	/ 5
S67	lakes/ponds	Unnamed Lake	48600	26399	Sheboygan	75
S68	Unnamed lake/pond	Unnamed Lake	47700	26446	Sheboygan	75
S69	Unnamed lakes/ponds	Unnamed Lake	46800	361861	Sheboygan	75
S70	Gitners Lake	Gitners Lake outlet	60900	18217	Sheboygan	75
S71	Jetzers Lake	Jetzers Lake outlet	62700	9850	Sheboygan	20
S72	Gerber Lake	Gerber Lake outlet	56600	11360	Sheboygan	30

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
S73	Mischos Pond	Myschos Pond outlet	61200	1525279	Sheboygan	75
S74	Sy Lake	Sy Lake outlet	57900	11363	Sheboygan	75
S75	Unnamed lake/pond	Unnamed Lake	48300	11353	Sheboygan	75
S76	Unnamed lake/pond	Unnamed Lake	47500	26433	Sheboygan	75
S77	Dollar Lake	Dollar Lake	45300	361809	Sheboygan	75
S78	Paulys Lake	Paulys Lake	60500	11366	Sheboygan	75
S79	Ludowissi Lake	Ludowissi Lake outlet	49800	361873	Sheboygan	75
S80	Shoe Lake	Shoe Lake	46700	18214	Sheboygan	20
S81	Graf Lake	Graf Lake	45500	11350	Sheboygan	75
S82	Grasser Lake	Grasser Lake	45600	361819	Sheboygan	75
S83	Spring Lake	Spring Lake outlet	63700	9852	Sheboygan	75
S84	Prueder Lake	Prueder Lake outlet	58200	11364	Sheboygan	75
S85	Sheboygan Quarry	Sheboygan Quarry	46600	361855	Sheboygan	75
\$86	Pigeon River—mile 0.9 to 5	Approximately 0.8 miles upstream of outflow into Lake Michigan	62300	1496062	Sheboygan	75
S87	Bullet Lake	Bullet Lake outlet	45000	18213	Sheboygan	75
S88	Unnamed lake/pond	Unnamed Lake	48800	26365	Sheboygan	75
S89	Mullet River—mile 22.5 to 23.7	Otter Pond outlet	53400	9842	Sheboygan	75
S90	Mullet River—mile 23.7 to 23.9	Mullet River Mill Pond outflow	53400	1455058	Sheboygan	75
S91	Unnamed lake/pond	Unnamed Lake	53000	26490	Sheboygan	75
S92	Sheboygan River— mile 54.1 to 56	Flow into Sheboygan Lake	50700	5753343	Sheboygan	75
S93	Mullet River—mile 33.6 to Mullet Lake	Flow into Mullet Marsh Reservoir	53400	1455058	Sheboygan	75
S94	Onion River—mile 27.8 to 30.7	Flow into Hingham Mill Pond	51200	3987352	Sheboygan	75
S95	Onion River—mile 30.7 to 36.7	Waldo Mill Pond outflow	51200	3987352	Sheboygan	75
S96	Mullet River—mile 23.9 to to 30.9	Flow into Mullet River Mill Pond	53400	1455058	Sheboygan	75
S97	Unnamed tributary to Mullet River	Flow into Mullet Marsh Reservoir	5027634	1850704	Sheboygan	75
S98	Unnamed tributary to Mullet River	Flow into Mullet River	502707	1455058	Sheboygan	75
S99	Mullet River—mile 30.9 to 33.6	Confluence of Mullet River and Unnamed stream	53400	1455058	Sheboygan	75
S100	Unnamed tributary to Sheboygan River	Outflow into Sheboygan River	61400	948229	Sheboygan	75

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TP Criterion (μg/L)
S101	Sheboygan River— mile 67 to headwaters	Confluence of Unnamed stream and Sheboygan River	50700	5753343	Sheboygan	75
S102	Otter Creek	Outflow into Sheboygan River	56400	18215	Sheboygan	75
S103	Unnamed tributary to Sheboygan River	Outflow into Sheboygan River	60200	5753343	Sheboygan	75
S104	Onion River—mile 26.5 to 26.9	Just downstream of Hingham Mill Pond	51200	3987352	Sheboygan	75
S105	Pigeon River—mile 5 to 10.9	Confluence of Pigeon River and Unnamed stream	62300	1496062	Sheboygan	75
S106	Unnamed tributaries to Lake Michigan		5562214		Sheboygan	75
S107	Unnamed tributaries to Lake Michigan				Sheboygan	75
S108	Unnamed tributaries to Lake Michigan	Outflow into Lake Michigan	3000489	5484113	Sheboygan	75
S109	Unnamed tributaries to Lake Michigan	Outflow into Lake Michigan	30004910	3871404	Sheboygan	75
S110	Unnamed tributaries to Lake Michigan	Outlet into Lake Michigan	33000496	3871272	Sheboygan	75

Table 2. TMDL Subbasins and Applicable Total Suspended Solids Target

TMDL	Reach Name	Outlet Location	WBIC at	WATERS ID	Pagion	TSS Criterion
Subbasin	Reach Name	Outlet Location	Outlet	at Outlet	Region	(mg/L)
TSS_K1	West Twin River	Confluence of East and West Twin Rivers	87000	18050	Kewaunee	12
TSS_K2	East Twin River	Confluence of West and East Twin Rivers	84000	18071	Kewaunee	12
TSS_K22	Unnamed	Outlet into Lake Michigan	90300	10166	Kewaunee	12
TSS_K23	Molash Creek	Outlet into Lake Michigan	90100	10164	Kewaunee	12
TSS_K30	Unnamed	Outlet into Lake Michigan	90400	18060	Kewaunee	12
TSS_K31	Kewaunee River	Outlet into Lake Michigan	90700	10169	Kewaunee	12
TSS_K44	Ahnapee River	Outlet into Lake Michigan	94800	18073	Kewaunee	12
TSS_K54	Stony Creek	Outlet into Lake Michigan	96100	10219	Kewaunee	12
TSS_K56	Bear Creek	Outlet into Lake Michigan	96400	10221	Kewaunee	12
TSS_K57	Silver Creek (North)		96000	10217	Kewaunee	12
TSS_K58	Threemile Creek	Outlet into Lake Michigan	94600	10209	Kewaunee	12
TSS_K59	Mashek Creek	Outlet into Lake Michigan	94000	10208	Kewaunee	12
TSS_K60	Unnamed	Outlet into Lake Michigan	5021058	5497861	Kewaunee	12
TSS_K101	Woodard and Schulyer Creeks	Outlet into Lake Michigan	96600	10222	Kewaunee	12
TSS_K102	Unnamed	Outlet into Lake Michigan	5014162		Kewaunee	12
TSS_K103	Unnamed	Outlet into Lake Michigan	5014564		Kewaunee	12
TSS_K104	Unnamed	Outlet into Lake Michigan	5015028		Kewaunee	12
TSS_K105	Unnamed	Outlet into Lake Michigan	5015845		Kewaunee	12
TSS_K106	Unnamed	Outlet into Lake Michigan	5016682	3995253	Kewaunee	12
TSS_K107	Unnamed	Outlet into Lake Michigan	5017578		Kewaunee	12

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TSS Criterion (mg/L)
TSS_K108	Unnamed	Outlet into Lake Michigan	5018632	5499979	Kewaunee	12
TSS_K109	Unnamed	Outlet into Lake Michigan	5020517	5498113	Kewaunee	12
TSS_K110	Unnamed				Kewaunee	12
TSS_K111	Unnamed	Outlet into Lake Michigan	90200	1479504	Kewaunee	12
TSS_K112	Unnamed				Kewaunee	12
TSS_M1	Centerville Creek	Outlet into Lake Michigan	65400	3999071	Manitowoc	12
TSS_M2	Fischer Creek	Outlet into Lake Michigan	65800	9863	Manitowoc	12
TSS_M3	Point Creek	Outlet into Lake Michigan	66000	9864	Manitowoc	12
TSS_M4	Pine Creek	Outlet into Lake Michigan	66300	18026	Manitowoc	12
TSS_M6	Calvin Creek	Outlet into Lake Michigan	66900	18027	Manitowoc	12
TSS_M7	Silver Creek	Outlet into Lake Michigan	67300	9872	Manitowoc	12
TSS_M10	Manitowoc River	Outlet into Lake Michigan	71000	9882	Manitowoc	12
TSS_M12	Branch River	Outlet into Manitowoc River	71300	9899	Manitowoc	12
TSS_M26	North Branch Manitowoc River	Confluence of North and South Branch Manitowoc River	75900	9911	Manitowoc	12
TSS_M27	South Branch Manitowoc River	Outlet of South Branch Manitowoc River into Manitowoc River	77900	9924	Manitowoc	12
TSS_M36	Little Manitowoc River	Outlet into Lake Michigan	82500	9898	Manitowoc	12
TSS_M39	Sevenmile Creek	Outlet into Lake Michigan	65100	9861	Manitowoc	12
TSS_M40	Fourmile Creek	Outlet into Lake Michigan	64700	3999319	Manitowoc	12
TSS_M79	Unnamed	Outlet into Lake Michigan	65000	3996883	Manitowoc	12
TSS_M90	Unnamed	Outlet into Lake Michigan	83800	6854424	Manitowoc	12
TSS_M91	Unnamed	No streams			Manitowoc	12

TMDL Subbasin	Reach Name	Outlet Location	WBIC at Outlet	WATERS ID at Outlet	Region	TSS Criterion (mg/L)
TSS_M92	Unnamed	No outlet	5024033		Manitowoc	12
TSS_M93	Unnamed	Outlet into Lake Michigan	5024772		Manitowoc	12
TSS_M94	Unnamed	No streams			Manitowoc	12
TSS_M95	Unnamed	No streams			Manitowoc	12
TSS_M96	Unnamed	Outlet into Lake Michigan	30000485	6901457	Manitowoc	12
TSS_M97	Unnamed	No streams			Manitowoc	12
TSS_M98	Unnamed	No streams			Manitowoc	12
TSS_M99	Unnamed	No streams			Manitowoc	12
TSS_S1	Sauk Creek	Outlet into Lake Michigan	49500	11342	Sheboygan	12
TSS_S3	Sucker Creek	Outlet into Lake Michigan	50100	11343	Sheboygan	12
TSS_S9	Barr Creek	Outlet into Lake Michigan	50200	18212	Sheboygan	12
TSS_S10	Black River	Outlet into Lake Michigan	50300	11346	Sheboygan	12
TSS_S24	Sheboygan River	Outlet into Lake Michigan	50700	11354	Sheboygan	12
TSS_S25	Onion River	Outlet into Sheboygan River	51200	3987352	Sheboygan	12
TSS_S29	Mullet River	Outlet into Sheboygan River	53400	9839	Sheboygan	12
TSS_S40	Pigeon River	Outlet into Lake Michigan	62300	1496062	Sheboygan	12
TSS_S106	Unnamed	No streams			Sheboygan	12
TSS_S107	Unnamed	No streams			Sheboygan	12
TSS_S108	Unnamed	Outlet into Lake Michigan	3000489	5484113	Sheboygan	12
TSS_S109	Unnamed	Outlet into Lake Michigan	3000491	3871404	Sheboygan	12
TSS_S110	Unnamed	Outlet into Lake Michigan	3000496	3871272	Sheboygan	12