

Appendix A

Northeast Lakeshore TMDL

Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids

Waterbody Impairments Addressed by the TMDL

Table 1. Streams and impairment listings on the WDNR 2022 303(d) list addressed in this TMDL report

Table 2. Lakes and impairment listings on the WDNR 2022 303(d) list addressed in this TMDL report

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Waterbody Name	WATERS ID	WBIC	COUNTY	Start Mile	End Mile	Source Category	Impairment Indicator(s)	POLLUTANT	TP Criterion	Basin	TMDL Subbasin	TMDL ID	EPA ID305B
Black Creek	11346	50300	Sheboygan	0	5.99	NPS	Degraded Biological Community	Total Phosphorus	75	Black River	S10, S11, S19	2014-20	8112897
	9960	88300	Kewaunee, Manitowoc	0	9.49	NPS	Impairment Unknown	Total Phosphorus	75	West Twin River	K21, K7	2018-037	10000201
Branch River	9899	71300	Manitowoc	0	12.42	PS/NPS	Impairment Unknown	Total Phosphorus	75	Branch River	M12, M13, M32	2020-007	10000158
	482183	71300	Manitowoc	12.41	20.15	NPS	Impairment Unknown	Total Phosphorus	75	Branch River	M32	2020-045	10008814
Calvin Creek	18027	66900	Manitowoc	0	5.83	NPS	Degraded Biological Community	Total Phosphorus	75	Sevenmile and Silver Creeks	M6	2018-031	10006069
Casco Creek	10178	91600	Kewaunee	0	0.47	NPS	Impairment Unknown	Total Phosphorus	75	Kewaunee River	K34, K36	2018-039	10000345
Centerville Creek	3999071	65400	Manitowoc	0	5.54	NPS	High Phosphorus Levels	Total Phosphorus	75	Sevenmile and Silver Creeks	M1, M95	2020-051	10029121
Devils River	10138	89900	Manitowoc	0	6	NPS	Impairment Unknown	Total Phosphorus	75	West Twin River	K13, K14, K5, K6	2020-010	10000312
East Twin River	18071	84000	Manitowoc	0	10.49	NPS	Impairment Unknown	Total Phosphorus	75	East Twin River	K2, K4, K87	2018-034	10006105
	4700226	84000	Kewaunee, Manitowoc	10.49	26.4	NPS	Impairment Unknown	Total Phosphorus	75	East Twin River	K16, K20, K24, K25, K4	2018-035	10030100
	10205	84000	Kewaunee	26.4	34.18	NPS	Impairment Unknown	Total Phosphorus	75	East Twin River	K24, K26, K28, K29	2014-23	10000368

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	10206	84000	Kewaunee	34.18	40.91	NPS	Degraded Biological Community	Total Phosphorus	75	East Twin River	K29	2014-24	10000369
Fischer Creek	18021	62500	Sheboygan	0	4.4	NPS	Degraded Biological Community	Total Phosphorus	75	Pigeon River	S41, S42	2016-016	10006065
	9863	65800	Manitowoc	0	8.78	NPS	Impairment Unknown	Total Phosphorus	75	Sevenmile and Silver Creeks	M2	2020-004	6970300
Jambo Creek	10146	84300	Kewaunee	8.1	10.1	NPS	Impairment Unknown	Total Phosphorus	75	East Twin River	K15, K17, K18, K69	2018-036	10000318
Johnson Creek	10143	84100	Manitowoc	0	4.43	NPS	Impairment Unknown	Total Phosphorus	75	East Twin River	K4	2022-073	10000316
Kewaunee River	10169	90700	Kewaunee	0.37	2.63	PS/NPS	Impairment Unknown	Total Phosphorus	75	Kewaunee River	K31	2016-026	10025677
	18061	90700	Kewaunee	2.63	13.51	NPS	Impairment Unknown	Total Phosphorus	75	Kewaunee River	K31, K32	2020-039	10026146
	482871	90700	Brown, Kewaunee	16.36	27.89	PS/NPS	High Phosphorus Levels	Total Phosphorus	75	Kewaunee River	K37, K39, K40, K41, K43	2020-046	10008821
Killsnake River	18043	78200	Calumet	0	19.73	NPS	High Phosphorus Levels	Total Phosphorus	75	South Branch Manitowoc River	M16, M21, M45, M85	2018-033	10006083
King Creek	10133	89400	Brown, Kewaunee	0	5.65	NPS	Impairment Unknown	Total Phosphorus	75	West Twin River	K10, K11, K12	2022-056	10000307
Krok Creek	10162	86700	Kewaunee	0	0.68	NPS	Degraded Biological Community	Total Phosphorus	75	East Twin River	K26, K27	2012-38	10000334
	903433	86700	Kewaunee	0.68	3.33	NPS	Degraded Biological Community	Total Phosphorus	75	East Twin River	K27	2012-39	10010003

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Luxemburg Creek	18072	92100	Kewaunee	0	4.25	NPS	Degraded Biological Community	Total Phosphorus	75	Kewaunee River	K39	2020-040	10006106
Manitowoc River	482064	71000	Manitowoc	2.03	20.74	PS/NPS	Degraded Biological Community	Total Phosphorus	100	Lower Manitowoc River	M10, M11, M12, M13, M14, M80, M81	2012-23	10026294
Meeme River	207459	62900	Manitowoc	0	11.67	PS/NPS	Impairment Unknown	Total Phosphorus	75	Pigeon River	S50, S51, S52, S61	2012-39	10026355
Molash Creek	10164	90100	Manitowoc	0	7.76	NPS	Impairment Unknown	Total Phosphorus	75	East Twin River	K23, K95	2012-3	10000336
Mud Creek	9888	73600	Manitowoc	0	9.26	PS/NPS	Impairment Unknown	Total Phosphorus	75	Lower Manitowoc River	M23	2018-032	10000148
Mullet River	9839	53400	Sheboygan	0	17.76	PS/NPS	Impairment Unknown	Total Phosphorus	75	Mullet River, Sheboygan River	S29, S31, S33, S34, S35	2012-1	10008041
	9842	53400	Sheboygan	17.76	23.67	PS/NPS	Impairment Unknown	Total Phosphorus	75	Mullet River	S35, S36, S89	2020-083	10026236
Neshota River	9959	88200	Brown, Kewaunee, Manitowoc	0	3	NPS	High Phosphorus Levels	Total Phosphorus	75	West Twin River	K6, K8	2020-009	10000200
	18054	88200	Brown, Kewaunee	3	17.22	NPS	High Phosphorus Levels	Total Phosphorus	75	West Twin River	K10, K11, K61, K62, K8	2012-971	10006091

Waterbody Name	WATERS ID	WBIC	COUNTY	Start Mile	End Mile	Source Category	Impairment Indicator(s)	POLLUTANT	TP Criterion	Basin	TMDL Subbasin	TMDL ID	EPA ID305B
North Branch Manitowoc River	9911	75900	Calumet	0	7.35	PS/NPS	Degraded Habitat, Low DO	Sediment/Total Suspended Solids	75	North Branch Manitowoc River, South Branch Manitowoc River	M26, M27, M31	265	10000163
Onion River	3987353	51200	Sheboygan	0	31.8	PS/NPS	Degraded Biological Community	Total Phosphorus	75	Mullet River, Onion River, Sheboygan River	S104, S13, S15, S21, S22, S25, S28, S94, S95	2012-018	10028120
Pigeon River	1496062	62300	Manitowoc, Sheboygan	0	18.1	PS/NPS	High Phosphorus Levels	Total Phosphorus	75	Pigeon River	S105, S106, S40, S41, S42, S51, S86	2012-44	10024946
Pine Creek	9931	79900	Calumet	0	5.54	NPS	Impairment Unknown	Total Phosphorus	75	South Branch Manitowoc River	M19, M20, M44	2020-008	10000180
	9932	79900	Calumet	5.54	9.12	NPS	High Phosphorus Levels	Total Phosphorus	75	South Branch Manitowoc River	M44	2016-022	10000181
Point Creek	9864	66000	Manitowoc	0	13.74	PS/NPS	Impairment Unknown	Total Phosphorus	75	Sevenmile and Silver Creeks	M3	2020-005	10036460
Rio Creek	10215	95200	Kewaunee	0	8.77	NPS	Impairment Unknown	Total Phosphorus	75	Ahnapee River	K48, K49, K50	2020-012	10000374

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Sauk Creek	11342	49500	Ozaukee	0	15.9	NPS	High Phosphorus Levels	Total Phosphorus	75	Sauk and Sucker Creeks	S1, S110, S2, S4, S5, S8	2012-909	10001213
School Creek	10184	92200	Brown, Kewaunee	0	5.6	NPS	High Phosphorus Levels	Total Phosphorus	75	Kewaunee River	K40, K42, K97, K98	2018-041	10000350
Sevenmile Creek	9861	65100	Sheboygan	0	5	NPS	Impairment Unknown	Total Phosphorus	75	Sevenmile and Silver Creeks	M38, M39, M95	2020-084	10000124
Sheboygan River	11354	50700	Sheboygan	0	13.58	PS/NPS	Impairment Unknown	Total Phosphorus	100	Sheboygan River	S24, S26, S27	2014-21	10008190
	11356	50700	Calumet, Manitowoc, Sheboygan	33.91	54.1	PS/NPS	Degraded Biological Community	Total Phosphorus	100	Sheboygan River	S44, S45, S46	2020-014	10038520
	5753343	50700	Fond Du Lac, Sheboygan	56.03	76.85	PS/NPS	High Phosphorus Levels	Total Phosphorus	75	Sheboygan River	S101, S47, S48, S92	2020-108	10038540
Silver Creek	9872	67300	Manitowoc	0	8.44	NPS	Impairment Unknown	Total Phosphorus	75	Sevenmile and Silver Creeks	M7, M8, M92, M99	2014-22	8106633
	8106635	67300	Manitowoc	8.7	17.98	PS/NPS	Impairment Unknown	Total Phosphorus	75	Sevenmile and Silver Creeks	M63, M8, M9	2014-22	8106636
	10212	94900	Kewaunee	1.5	7	NPS	Impairment Unknown	Total Phosphorus	75	Ahnapee River	K45, K47, K49	2018-040	10026815
Silver Stream	3994857	5020832	Manitowoc	0	6.37	PS/NPS	Degraded Biological Community	Total Phosphorus	75	East Twin River	K22	2016-188	10028752
South Branch Manitowoc River	9924	77900	Calumet, Manitowoc	0	12.64	PS/NPS	High Phosphorus Levels	Total Phosphorus	75	South Branch Manitowoc River	M17, M20, M21, M27	2012-2006	10000174

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	3990110	77900	Calumet, Fond Du Lac	12.64	36.58	NPS	Degraded Biological Community	Total Phosphorus	75	South Branch Manitowoc River	M20, M22, M43, M49, M82	2016-020	10028420
Stony Brook	5735506	81500	Calumet	0	1.84	NPS	Impairment Unknown	Total Phosphorus	75	South Branch Manitowoc River	M83	2022-054	10037981
	18047	81500	Calumet	1.84	6.23	NPS	Impairment Unknown	Total Phosphorus	75	South Branch Manitowoc River	M83	2020-038	10026145
Stony Creek	10219	96100	Door, Kewaunee	0	8.26	NPS	Degraded Habitat	Sediment/Total Suspended Solids	75	Stony Creek	K54, K55	470	10025681
	10220	96100	Door	8.27	16.02	NPS	Impairment Unknown	Total Phosphorus	75	Stony Creek	K55	2018-042	10000378
Sucker Creek	11343	50100	Ozaukee, Sheboygan	0	10.19	NPS	Degraded Biological Community	Total Phosphorus	75	Sauk and Sucker Creeks	S18, S3	2012-41	10027605
Twin Hill Creek	10135	89600	Brown	0	5.95	NPS	High Phosphorus Levels	Total Phosphorus	75	West Twin River	K61	2020-061	10000309
Unnamed	1489156	52600	Sheboygan	0.4	4.13	NPS	Degraded Habitat	Sediment/Total Suspended Solids	75	Onion River	S54	652	10024806
Unnamed	480998	62400	Sheboygan	0	4.82	NPS	Low DO	Total Phosphorus	75	Pigeon River	S43, S86	624	10008796
Unnamed	6853227	64800	Sheboygan	0	1.52	NPS	Impairment Unknown	Total Phosphorus	75	Sevenmile and Silver Creeks	M41	2018-030	10039796

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Unnamed	18037	71600	Manitowoc	0	3	NPS	High Phosphorus Levels	Total Phosphorus	75	Branch River	M33, M34	2012-970	10006077
Unnamed	10131	89100	Brown	0	4.65	PS/NPS	Degraded Biological Community	Total Phosphorus	75	West Twin River	K9	2016-025	10000305
Unnamed	10134	89500	Brown	0	9.01	NPS	High Phosphorus Levels	Total Phosphorus	75	West Twin River	K62	2018-038	10000308
Unnamed	482551	3000057	Calumet	0	2.92	PS/NPS	Degraded Habitat	Sediment/Total Suspended Solids	75	South Branch Manitowoc River	M48	649	10008817
Unnamed	5534458	3000211	Kewaunee	0	3.38	PS/NPS	High Phosphorus Levels	Total Phosphorus	75	East Twin River	K26, K28, K89, K90	2018-176	10033561
Unnamed	5500551	3000212	Kewaunee	0	1.93	NPS	Degraded Biological Community	Total Phosphorus	75	East Twin River	K89, K90, K91, K92	2016-184	10031700
Unnamed	5500585	3000213	Kewaunee	0	0.38	PS/NPS	High Phosphorus Levels	Total Phosphorus	75	East Twin River	K91	2018-177	10031701
Unnamed	5690951	5020187	Brown	0	3.94	NPS	High Phosphorus Levels	Total Phosphorus	75	West Twin River	K13	2020-075	10036133
Unnamed	481039	5025264	Manitowoc	0	1.16	NPS	Low DO	Total Phosphorus	75	Pigeon River	S49, S50, S52	653	10008797
West Twin River	18050	87000	Manitowoc	0	5.9	NPS	Low DO	Total Phosphorus	75	East Twin River, West Twin River	K1, K87	513	10006087

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	9948	87000	Manitowoc	5.9	15.41	NPS	Low DO	Total Phosphorus	75	West Twin River	K1, K3, K93, K94	513	10000191
	9949	87000	Manitowoc	15.41	15.76	NPS	Low DO	Total Phosphorus	75	West Twin River	K93	513	10026863
	9950	87000	Manitowoc	15.77	17.12	NPS	Low DO	Total Phosphorus	75	West Twin River	K93	513	10008818
	18051	87000	Manitowoc	17.13	18.44	NPS	Low DO	Total Phosphorus	75	West Twin River	K6, K93	513	10006088

Table 2. Lakes and impairment listings on the WDNR 2022 303(d) list addressed in this TMDL report.

Waterbody Name	WATERS ID	WBIC	COUNTY	Source Category	Impairment Indicator(s)	POLLUTANT	TP Criterion	Basin	TMDL Subbasin	TMDL Reach	EPA ID305B
Becker Lake	9920	77300	Calumet	NPS	Eutrophication, Excess Algal Growth	Total Phosphorus	30	North Branch Manitowoc River	M61, M62	2016-198	10000172
Boot Lake	9921	77600	Calumet, Manitowoc	NPS	Eutrophication, Excess Algal Growth	Total Phosphorus	30	North Branch Manitowoc River	M59	2016-199	10000173
Bullhead Lake	9881	68300	Manitowoc	NPS	Eutrophication, Excess Algal Growth, Impairment Unknown	Total Phosphorus	30	Lower Manitowoc River	M57	2012-2012	10000142
Carstens Lake	9869	66800	Manitowoc	NPS	Eutrophication, Excess Algal Growth	Total Phosphorus	30	Sevenmile and Silver Creeks	M5, M55	2014-222	10000132
English Lake	9878	68100	Manitowoc	NPS	Impairment Unknown	Total Phosphorus	20	Sevenmile and Silver Creeks	M56	2018-242	10000141
Gass Lake	9870	67100	Manitowoc	NPS	Excess Algal Growth, High Phosphorus Levels	Total Phosphorus	30	Sevenmile and Silver Creeks	M54	2016-194	10000133
Harpt Lake	10149	84600	Manitowoc	NPS	High Phosphorus Levels	Total Phosphorus	20	East Twin River	K68	2016-200	10000321
Hartlaub Lake	9871	67200	Manitowoc	NPS	Excess Algal Growth, Impairment Unknown	Total Phosphorus	30	Sevenmile and Silver Creeks	M53, M6	2016-195	10000134

Waterbody Name	WATERS ID	WBIC	COUNTY	Source Category	Impairment Indicator(s)	POLLUTANT	TP Criterion	Basin	TMDL Subbasin	TMDL Reach	EPA ID305B
Long Lake	18042	77500	Manitowoc	NPS	Degraded Biological Community, Eutrophication, Excess Algal Growth	Total Phosphorus	30	North Branch Manitowoc River	M60, M61	2010-7	10006082
Round Lake	9910	68600	Calumet	NPS	Eutrophication, Excess Algal Growth	Total Phosphorus	30	North Branch Manitowoc River	M58	2016-197	10000162
Shea Lake	10154	85400	Kewaunee	NPS	Excess Algal Growth, High Phosphorus Levels	Total Phosphorus	20	East Twin River	K70	2020-011	10000326
Weyers Lake	9859	49400	Manitowoc	NPS	Excess Algal Growth, High Phosphorus Levels	Total Phosphorus	20	Sevenmile and Silver Creeks	M52	2018-241	10000122