

Appendix A: Impairments Addressed

The Lake Pepin TMDL:

Total Maximum Daily Loads for Total Phosphorus

Waterbody Impairments Addressed by the TMDL

Table A1. Streams and impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report

Table A2. Lakes and impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report

Table A1. Streams and impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report.

Waterbody Name	WATERS ID	WBIC	County	Start Mile	End Mile	Source Category	Impairment Indicator(s)	Pollutant	TP Criterion	TMDL Subbasin	EPA ID305B
Bogus Creek	16305	2438900	Pepin	0.00	8.25	NPS	Unknown	Total Phosphorus	75 µg/L	17	WI10006008
Lost Creek	16302	2438300	Pepin	0.00	8.00	NPS	Unknown	Total Phosphorus	75 µg/L	18	WI10004825

Listing Notes:

Bogus Creek: This water was assessed during the 2016 listing cycle; temperature sample data clearly met 2016 WisCALM listing thresholds for the Fish and Aquatic Life use. This water was assessed during the 2018 listing cycle; new total phosphorus sample data may exceed 2018 WisCALM listing criteria for the Fish and Aquatic Life use, however, temperature and available biological data do not indicate impairment (i.e. no macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the "poor" condition category). Assessments during the 2020 listing cycle show total phosphorus levels too high for healthy aquatic communities like plants, fish, and bugs. Fish sample data were in excellent condition. This water listed in 2020.

Lost Creek: This water was assessed during the 2020 listing cycle; new total phosphorus sample data exceed 2020 WisCALM listing criteria for the Aquatic Life use, however, no biological data (i.e. no macroinvertebrate or fish Index of Biotic Integrity (IBI) scores) were available to assess biological impairment.

Table A2. Lakes and impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report.

Waterbody Name	WATERS ID	WBIC	County	Source Category	Impairment Indicator(s)	Pollutant	TP Criterion	TMDL Subbasin	EPA ID305B
Lake Pepin	4704964	731800	Pepin, Pierce, Buffalo	NPS, PS	High Phosphorus Levels	Total Phosphorus	100 µg/L	Multiple	WI10030300

Listing Notes:

Lake Pepin: This water was assessed during the 2016 listing cycle; total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use. This water was assessed during the 2020 listing cycle; total phosphorus sample data clearly exceeded 2020 WisCALM listing thresholds for Recreation use and Aquatic Life use.