

# Appendix O

## Northeast Lakeshore TMDL

Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids

### **TMDL Status for Impaired Waters for the 2024 Listing Cycle**

**Table O-1. Waterbodies and listing status for 2024 listing cycle.**

**Table O-2. Stream and river impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report.**

**Table O-3. Lake impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report.**

The Northeast Lakeshore TMDL: Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids” (NEL TMDL) was approved by the U.S. Environmental Protection Agency (U.S. EPA) on October 30, 2023. Since EPA’s approval of the NEL TMDL, additional waterbodies have been assessed and Appendix O, which is being appended to the NEL TMDL report, provides a summary of waterbodies listed during the 2024 listing cycle. These waterbodies are located within the study area of the NEL TMDL. Table O-1 summarizes the listing status of these waterbodies. Details on Wisconsin’s assessment and listing process as well as definitions for the listing categories can be found at: <https://dnr.wisconsin.gov/topic/SurfaceWater/WisCALM.html>

**Table O-1. Waterbodies and listing status for 2024 listing cycle.**

Waterbody Name	WATERS ID (AU ID)	WBIC	EPA ID	Year Listed	Listing Status <sup>(1)</sup>	TMDL Status	Listing Category <sup>(2)</sup>
Barr Creek	18212	50200	WI10006211	2024	Proposed for List	Covered	Category 4A
Stony Creek	10219	96100	WI10025681	2024	Proposed for List	Covered	Category 4A
Horseshoe Lake	9853	64200	WI10000119	2024	Proposed for List	Covered	Category 4A

(1) Listing Status: “Proposed for List” indicates that the waterbody is proposed for the 2024 listing cycle and is covered by the EPA approved TMDL. “303(d) Listed” indicates that the waterbody is not covered by the EPA approved TMDL.

(2) Proposed Listing Category indicates waterbodies listed either prior to or during the 2020 listing cycle that will be moved from category 5 to category 4A due to their change in status of being covered by the EPA approved TMDL. Waterbodies proposed for the 2024 listing cycle that are covered by the EPA approved TMDL are listed as category 4A. Waterbodies determined not to be covered by the EPA approved TMDL remain under category 5.

Table O-2 provides an update to Table 1 contained in Appendix A of the NEL TMDL report and lists waterbodies covered by the loading capacity and allocations contained within the NEL TMDL meaning that attainment of the applicable allocations will allow attainment of water quality criteria. This determination was made based for each listed segment by comparing the river or stream criteria for the listed segment against the subbasin or downstream water quality target for the subbasin(s) that contains the listed segment. Table O-2 provides a summary of the water quality criteria, the TMDL subbasin target, and the downstream target for each waterbody and applicable subbasin(s).

The subbasin target is the water quality criteria used in setting the TMDL loading capacity and allocations for that subbasin. During TMDL development process, subbasins were delineated to account for the location of point sources, significant changes in flow, changes in land use, changes in water quality criteria, and other significant factors that could impact the loading capacity for waterbodies located in that subbasin. This approach helps ensure that subbasin load allocations are protective of waterbodies contained in the subbasin. Additional information can be found in the U.S. EPA approved TMDL at <https://dnr.wisconsin.gov/topic/TMDLs/NELakeshore.html> and on the Watershed Restoration Viewer at <https://dnr.wisconsin.gov/topic/SurfaceWater/RestorationViewer/index.html>

Table O-3 provides an update to Table 2 contained in Appendix A of the NEL TMDL report. In Appendix I of the NEL TMDL, which covers lake model setup and results, Horseshoe Lake is assigned a loading capacity that attains water quality standards. Additional information including maps and allocations can be found at: <https://dnr.wisconsin.gov/topic/SurfaceWater/RestorationViewer/index.html>

**Public Comment Period:**

A public comment period was held from November 6, 2023, to December 6, 2023. No comments were received.

**Table O-2. Stream and River impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report.**

Waterbody Name	WATERS ID	WBIC	EPA ID	COUNTY	Start Mile	End Mile	Source Category	Impairment Indicator(s)	POLLUTANT	Waterbody Criteria (ug/L)	TMDL Subbasin	Subbasin Target (ug/L)
Barr Creek	18212	50200	WI10006211	Sheboygan	0	3.38	NPS	High Phosphorus Levels	Total Phosphorus	75	S9	75
Stony Creek	10219	96100	WI10025681	Door and Kewaunee	0	8.26	NPS	Impairment Unknown	Total Phosphorus	75	K54	75

**Table O-3. Lake impairment listings on the WDNR 2024 303(d) list addressed in this TMDL report.**

Waterbody Name	WATERS ID	WBIC	EPA ID	COUNTY	Size (acres)	Source Category	Impairment Indicator(s)	POLLUTANT	TP Criterion	TMDL Subbasin
Horseshoe Lake	9853	64200	WI10000119	Manitowoc	21	NPS	Eutrophication, Excess Algal Growth	Total Phosphorus	15	S64