



# Did you know...?

## Your lake is classified as a High Quality Water!

### What is High Quality Water?

The State of Wisconsin Department of Natural Resources (WDNR) published a report in 2022 that identified high-quality waters (streams, rivers, lakes, and wetlands). Less than 15% of lakes in Wisconsin were designated as of high quality. High Quality Waters (HQWs) are lakes, streams, and rivers that have at least two of the following attributes: unique or rare resource, attaining state water quality standards, and/or good-to-excellent biotic integrity.<sup>1</sup> The goals of these designations are to bring attention and funding to protect high-quality waters, since historically the focus has been on restoring impaired waters.

First published in 1997, the Southeastern Wisconsin Regional Planning Commission (Commission) has identified the most significant remaining natural areas in the region through its Regional Natural Areas plan.<sup>2</sup> The Commission is updating this plan and has developed a ranking system for waterbodies that while similar to the WDNR's, utilizes additional criteria. The Commission's ranking system scores lakes based on morphology and classification, water quality, macrophytes, shoreline buffer, connectivity, fisheries & natural heritage inventory listings.

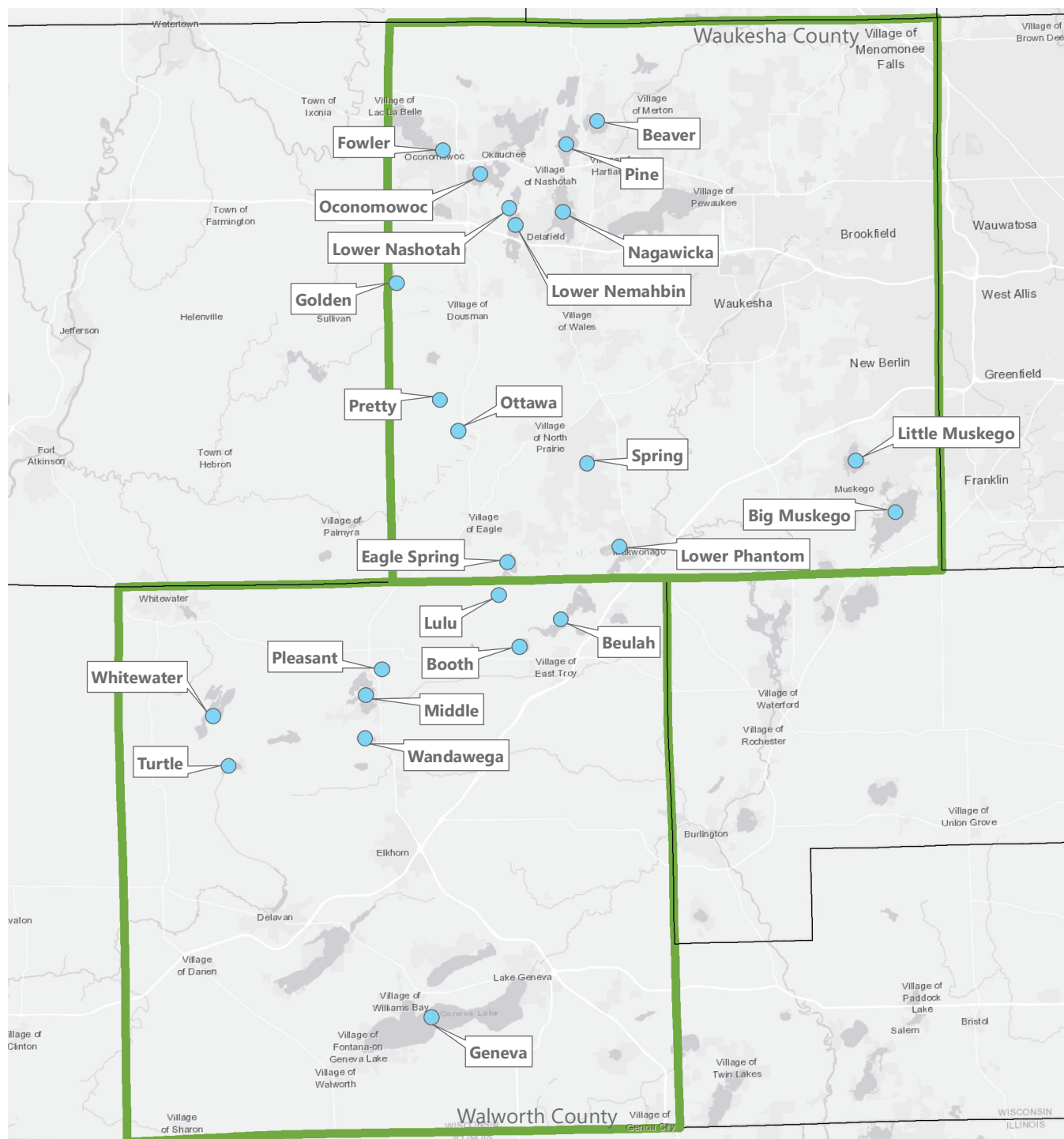
---

<sup>1</sup> Marti, A.M., L.A. Beringer, and P.J. Toshner. 2022. *Modeling and Identification of Watersheds (Healthy Watersheds) and Water Bodies (High-Quality Waters) for Water Resources Protection Purposes in Wisconsin*. Technical Report. EGAD # TBD. WDNR

<sup>2</sup> SEWRPC Planning Report No. 42, A Regional Natural Areas and Critical Species Habitat Protection and Management Plan for Southeastern Wisconsin, September 1997.

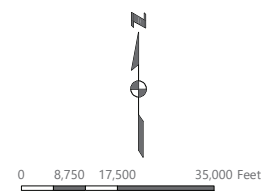
# HQWs in Southeastern Wisconsin

## Lakes Designated as a High Quality Waters in Waukesha and Walworth Counties



Waukesha and Walworth County Boundaries

Designated High Quality Water Lakes



Source: SEWRPC and WDNR

# High Quality Waters Within Walworth and Waukesha Counties

There are a variety of types of HQWs in Southeastern Wisconsin. This lake "type" is determined using WDNR Natural Community model which categorizes lakes based on surface area, stratification status, hydrology, and watershed size. Headwater lakes are lakes with a watershed less than 4 square miles and lowland lakes are lakes with watershed greater than 4 square miles.

Two-Story	Seepage	Deep Headwater	Deep Lowland	Shallow Lowland/Reservoir
Geneva Fowler Oconomowoc Nagawicka Beulah Nemahbin Lower Nashotah Pine	Pretty Spring Booth Wandawega	Golden Beaver Ottawa Pleasant Turtle	Lulu Middle Whitewater Little Muskego	Eagle Spring Lower Phantom Big Muskego

## Lake Type – Seepage Lakes

A seepage lake is "a lake that does not have an outlet stream that continually flows under average summer conditions based on the past 30 years." (Wisconsin State Legislature Code NR 102.03(6e))

Seepage lakes are lakes that have no streams contributing to or draining water from these lakes. Their main water sources are groundwater and precipitation, with their main sources of water loss coming from evaporation and loss to groundwater. Because of this, lake water levels can fluctuate substantially with weather conditions. In general, seepage lakes are smaller with small watershed-to-lake ratios. Seepage lakes' watershed land use can vary with many high-quality seepage lakes having natural watersheds. In many cases, most of the watershed development is along the lake's shoreline. When it comes to water quality for seepage lakes, protecting groundwater recharge areas is essential to maintain water quantity and quality. Additionally, since most of the development is along the shoreline, having good shoreline practices in place is important for improving water quality.

Natural Community	Stratification Status	Hydrology
Lakes/Reservoirs <10 acres		
Small	Variable	Any
Lakes/Reservoirs >10 acres		
Shallow Seepage	Mixed	Seepage
Shallow Headwater		Headwater Drainage
Shallow Lowland		Lowland Drainage
Deep Seepage	Stratified	Seepage
Deep Headwater		Headwater Drainage
Deep Lowland		Lowland Drainage
Other Classification (any size)		
Spring Ponds	Variable	Spring Hydrology
Two-Story Fishery Lakes	Stratified	Any
Impounded Flowing Waters	Variable	Headwater or Lowland Drainage

# We Need Your Input!

In spring of 2023 the Commission received four WDNR Surface Water Education Grants. The Commission's grant projects aim to establish a network of well-informed stakeholders from WDNR-identified high-quality lakes within Walworth and Waukesha Counties. The Commission will provide a toolkit and a practice-based workshop to inform and train stakeholders on lake data inventory, best management practices (BMPs), and funding as well as to form connections and inspire protection of these lakes. There are 34 lakes, 24 streams and 105 wetlands in Southeastern Wisconsin that are listed as High Quality Waters, of which 24 lakes are in Walworth and Waukesha Counties.

The Commission's main goals across the grants are to:

- Collect information about WDNR-identified high-quality lakes in Walworth and Waukesha Counties and active stakeholder organizations affiliated with these lakes.
- Educate stakeholders on how to collect information about lake conditions and management. Facilitate learning and communication between similar lake type network members through a practice-based workshop.
- Publish a best management practice toolkit for each lake type.

The Commission is asking that representatives from the stakeholder groups participate in interviews as a chance for the Commission to collect information on how lake groups manage their lakes and discuss topics of concern or interest. The interview questions are included in a document separate document. The Commission asks that if you are unable or unwilling to meet with them to go over the questions that you respond via email to answers as many of the interview questions as possible.

Additionally, the Commission is in the process of planning a full-day workshop that will give stakeholders a chance to network with other High Quality Water lakes within their lake type. The date and time of the workshop is yet to be scheduled but will occur in Spring 2025 and will require registration for headcounts. The interviews will serve as a starting point for curating a workshop that will best suit the needs and wants of stakeholder groups of High Quality Waters.

