WATER & WETLAND
LAKE, POND & WETLAND MANAGEMENT

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Call/Email with any questions!

FIELD NOTES SUMMARY

Customer: Town of Winchester Recreation Department
Pond Name: Wedge Pond
Site Location: Winchester, MA
Date: 5/13/25

On 5/13/25, Aquatic Field Biologist, Brian Sweeney, made a visit to Wedge Pond. The following services were completed during the visit:

Upon arrival to the site, a survey was conducted using visual observation paired with a standard throw-rake and handheld GPS/ArcGIS Field Maps, as applicable. Plants documented during the survey are documented in the table below. (*) denotes an invasive species. Invasive species are non-native to the ecosystem and are likely to cause economic harm, environmental harm, or harm to human health.

Species Identified	
Common Name	**Latin Name**
Waterlilies	*Nymphaeaceae*
Common Waterweed/Elodea	*Elodea canadensis*
Coontail	*Ceratophyllum demersum*
Curly-leaf Pondweed*	*Potamogeton crispus*
Tape Grass	*Vallisneria americana*
Benthic Algae	
Flat-stem Pondweed	*Potemogeton zosteriformis*

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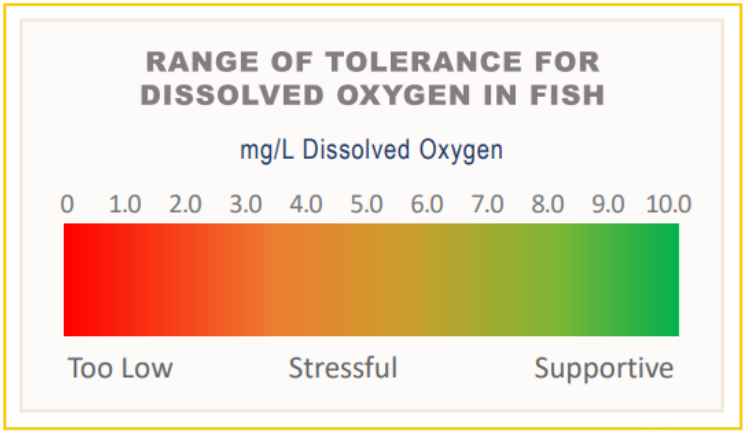
While on-site, dissolved oxygen (DO) and temperature readings were collected using a calibrated YSI meter with optical sensor. Dissolved oxygen is the amount of oxygen in water that is available to aquatic organisms. DO is necessary to support fish spawning, growth, and activity. Tolerance varies by species, but the figure below provides a general range of fish tolerance (Source: epa.gov). Dissolved oxygen can be affected by many outside factors, such as: temperature, time of day, and pollution. Dissolved oxygen levels are typically lowest early in the morning. Healthy water should generally have concentrations of about 6.5-8+ mg/L.



Results from the visit are included in the table below:

Temperature & Dissolved Oxygen	
Surface Temp (°C)	Surface DO (mg/L)
17.9	8.70

A Secchi disk is a disk with alternating black and white quadrants. It is lowered into the water of a lake until it can no longer be seen by the observer. This depth of disappearance, called the Secchi depth, is a measure of the transparency of the water.

Secchi Disk Clarity	
Secchi Disk Depth (Feet)	6 feet 1 inches

Additional Notes from the Biologist
A survey was conducted at the time of today's visit to Wedge Pond. Due to recent rain events, water was high and visibility was less than normal. Both the inflow and outflows were flowing at a visible rate, carrying debris and plant fragments throughout the pond. Several throw rakes were deployed around the pond in various locations to survey plant growth not visible on the bottom. Many areas of the pond hosted moderate densities of elodea, a native species. Curly-leaf pondweed, an invasive, was found scattered throughout the pond in varying densities, mostly low. Other species such as coontail and waterlilies were noted scattered throughout the pond. A majority of of the shoreline hosted no visible plant or algae growth, being composed of sand and rock or leaves and mud. Much of the plant growth

found was documented in deeper water away from the immediate shoreline. We will continue to monitor and treat as necessary for the remainder of the season.

As always, we will notify you prior to any upcoming visits, as applicable. Please feel free to reach out to us directly with any questions.

Photo 1	Photo 2	Photo 3
		
Photo 4	**Photo 5**	**Photo 6**
		

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