



## FIELD NOTES SUMMARY

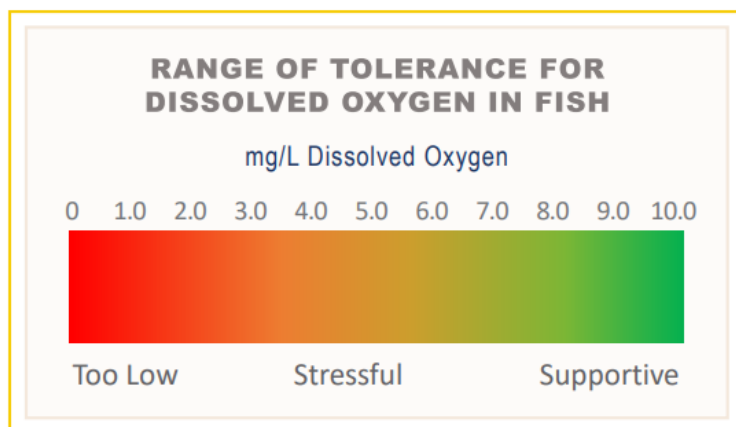
**Customer:** City of Lynn  
**Pond Name:** Goldfish Pond  
**Site Location:** Lynn, MA  
**Date:** 7/26/24

On 7/26/24, Aquatic Biologist, Grace Adams, and Aquatic Field Assistant, Jake McNary, made a visit to Goldfish 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
Microscopic Algae	

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)
22.8	9.03

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)	
	1' 3"

Copper algaecide was mixed into a backpack for targeted chemical application across the pond. The copper algaecide was spread evenly throughout the treatment areas, which will provide the most effective treatment possible. The treatment was completed without issue.

Prior to the treatment(s), the shoreline was posted with neon signage noting the treatment, affiliated water use restrictions, and Water & Wetland contact information. The signs fulfill permit obligations for shoreline posting.

*Additional Notes from the Biologist*
<p>During today's bi-weekly site visit, basic water quality data was recorded and a treatment was applied. A Secchi disk measurement indicated slight improvements in water clarity compared to last visit. Treatment was still applied to continue to improve pond conditions, and beneficial bacteria and enzymes were also applied throughout the pond to facilitate biomass breakdown and assist with nutrient control. All fountains were operating normally. It should also be noted that there was a significant number of geese present at the pond, which is fairly common at Goldfish Pond.</p>

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

