

 <p>WATER & WETLAND LAKE, POND & WETLAND MANAGEMENT</p>	<p>ENVIRONMENTAL SCIENTIST: JAMES LACASSE JAMES@WATERANDWETLAND.COM C: (774) 276-6098</p> <p>CALL/TEXT WITH ANY QUESTIONS!</p>	
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FIELD NOTES SUMMARY

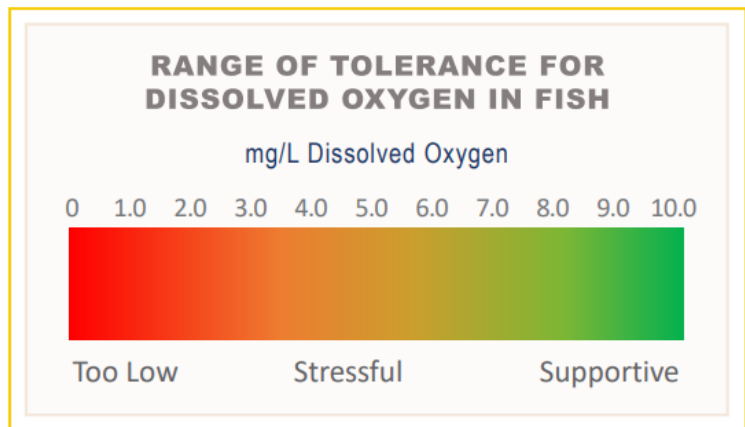
Customer: City of Lynn
Pond Name: Goldfish Pond
Site Location: Lynn, MA
Date: 5/21/24

On 5/21/24, Senior Environmental Scientist, James Lacasse, 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)
19.4	10.39

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)	
	0'5"

A treatment was conducted for the control of algae. The liquid contact algaecide was applied using a treatment boat equipped with a calibrated sub-surface injection system. This application methodology allows for even coverage within the treatment areas. The treatment was completed without issue.

Additional Notes from the Biologist
A survey was conducted and as anticipated, a microscopic algae bloom was documented. Based on the survey, an algaecide treatment was conducted to target the algae. Beneficial bacteria packets were applied to the pond. These enzymes/beneficial bacteria assist with nutrients through the breakdown of nutrient rich organic material. The treatment went well and even coverage was achieved within the treatment areas. The fountain lights were reset, as fountain 1's lights have not been operating properly. Another capacitor booster will be ordered for fountain 1 to ensure proper operation. All fountains were running well during this visit. Several bird species were noted swimming around the pond.

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

