WATER & WETLAND
LAKE, POND & WETLAND MANAGEMENT

Biologist:
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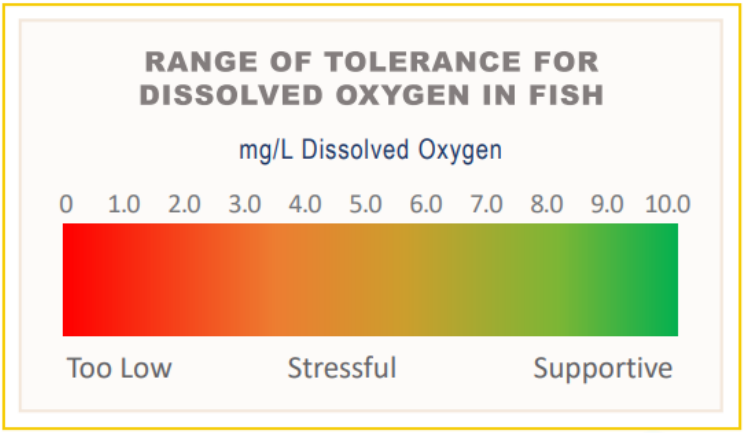
Call/Text With Any Questions!

FIELD NOTES SUMMARY

Customer: City of Lynn
Pond Name: Goldfish Pond
Site Location: Lynn, MA
Date: 8/20/24

On 8/20/24, Aquatic Biologist, Grace Adams, made a visit to Goldfish Pond. The following services were completed during the visit:



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)
20.9	7.65

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 inches

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.

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
The visit to Goldfish Pond consisted of collecting basic water quality data, conducting an assessment, and applying a treatment. The survey determined potential algaecide treatment areas. The water clarity has decreased since the previous visit and the pond had its typical green color. Some, although minimal, surface scum was visible. These conditions continue to warrant algaecide treatment and the recommendation to avoid direct water contact. The fountains/surface aerators were all functioning as intended. Based on the survey, an algaecide treatment was applied to the pond. Excellent coverage was achieved within the treatment areas. The treatment targeted the shoreline where algae was most wind-blown. Bacteria pellets were also applied to the pond to help breakdown nutrient rich organic material.

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.

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

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