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## FIELD NOTES SUMMARY

**Customer:** City of Lynn **Pond Name:** Goldfish Pond **Site Location:** Lynn, MA

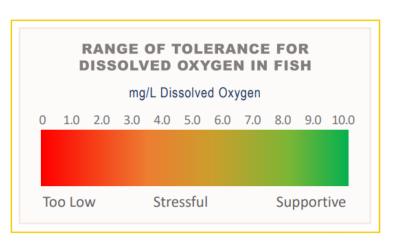
Date: 4/22/24

On 4/22/24, 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:

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| Temperature & Dissolved Oxygen |                   |  |
|--------------------------------|-------------------|--|
| Surface Temp (°C)              | Surface DO (mg/L) |  |
| 11.9                           | 9.87              |  |

A Secchi disk is a disk with alternating black and white quadrants. It is lowered into the water of a lake until it

| Secchi Disk Clarity      |     |  |
|--------------------------|-----|--|
| Secchi Disk Depth (Feet) | 10" |  |

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.

## Water Quality Parameters

Algae ID, Classification, Biomass

Additional samples were collected from the contracted locations. The samples were properly preserved, and shipped on-ice via FedEx Overnight,

or transported directly to the most appropriate lab. The lab will analyze the samples for the contracted/required parameters which are listed in the table above. Results will be provided upon receipt from the lab or in the year end-summary report, as applicable. Any concerning results will immediately be brought to the attention of the Client.

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 brief survey was conducted prior to treatment. A microscopic algae bloom was noted throughout the entirety of the Pond and within the water column. An algaecide treatment was performed to target microscopic algae - there are no restrictions associated with this treatment. Howie from the Association met on site to discuss a few questions and observations regarding the Pond. The fountains were inspected as Fountain 1 was not turning on as the other fountains, a capacitor booster may be necessary. Water & Wetland will call AquaMaster (the fountain manufacturer) to discuss a few questions talked about during the site visit. Foam was noted around the fountains and specifically within the wind-blown corner of the Pond. Several waterfowl were documented in/around the Pond. Algaecide was applied to the pond, as well as a bacteria to help breakdown organics potentially increasing the "foam."

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.



