

LAKE AND POND REMEDIATION, INC.

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CHARLES AQUACULTURE, LLC

15350 N US Highway 301 Citra, FL 32113

LAPR Office: 352-595-8863

Fish farm Office: 352-595-1700

Service Report

Date: October 28, 2024

Biologist: Doug Charles

Client: Palencia, Marsh Creek CDD

Ratings: 1 – 10 (Best is 10)

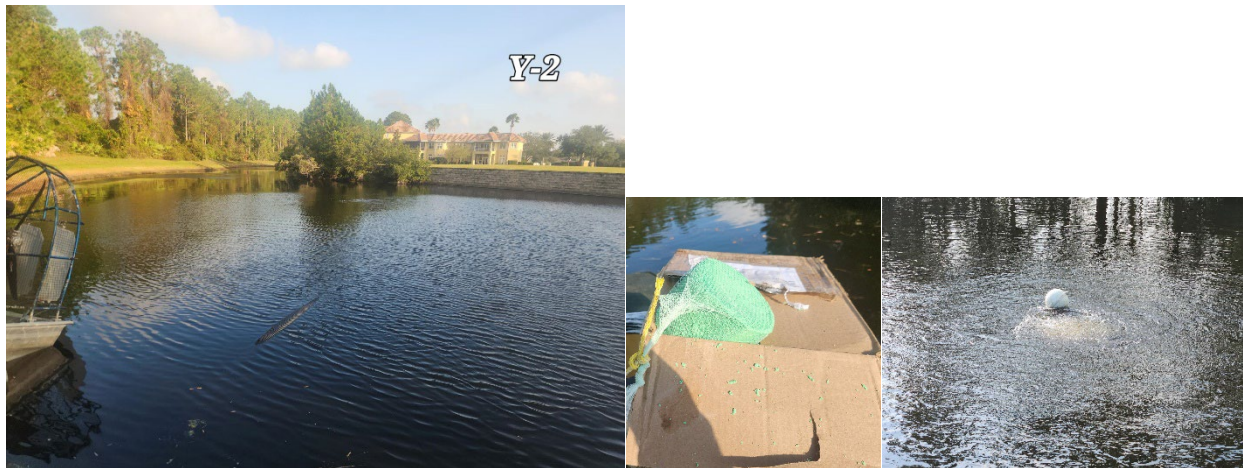
Waterways: 32 ponds

Herbicides used: Aluminum Sulfate

Weather Conditions: Mostly cloudy, rainy light winds out of the northeast.

Lake Y-2: Rated: 8

- Lake level is low.
- No floating cyanobacteria (single celled blue-green algae) anywhere in the north side.
- Minor filamentous algae along the edge.
- Ultrasound and aeration are on.



Treatment: I applied **150 pounds of alum** continuing my phosphorous removal program, which seems to be working. I also **installed one of the three bio blocks** over one of the bubblers. It took all three weights to keep it in place over the bubbles. I will install the other two next Monday. I will be back on Friday to take samples to the lab to run Total Phosphorus and Total Nitrogen tests.

Recommendations: Please mark where blue dye comes into the lake so I can take the water sample there.

Lake 6: Rated: 9

- Minor floating debris.



Treatment: Inspection only.

Recommendations: I plan to stock 30 grass carp this Fall to help control the weeds.

Lake L: Rated: 8

- Minor to moderate shoreline grasses and floating algae.
- Water level is a little high.



Treatment: Inspection only.

Recommendation: None.

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Lake 11: Rated: 5

- Heavy floating cyanobacteria.
- One 5-foot gator and a 2-foot gator observed.



Treatment: I applied **200 pounds of alum** to starve the cyanobacteria of phosphorous.

Recommendations: Consider cutting back the overhanging branches that are coated with high Phosphorous bird waste.

Lake I-1: Rated: 10

- No floating cyanobacteria.
- Water is very clear.



Treatment: Inspection only.

Recommendation: I will keep monitoring the lake for cyanobacteria.