

# LAKE AND POND REMEDIATION, INC.

&

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 21, 2024

Biologist: Doug Charles

Client: Palencia, Marsh Creek CDD

Ratings: 1 – 10 (Best is 10)

Waterways: 32 ponds

Herbicides used: Alum, Schooner

Weather Conditions: Cloudy, windy, moderate today.

**Special Notes:** We have three lakes with outbreaks of cyanobacteria now, Y-2, I-1 and I-1. Lake 11 has the most cyanobacteria, and I believe the excess phosphorous is coming from the bird guano. I treated all three today with Alum. Cyanobacteria of this type does not grow well in windy conditions; it prefers stagnant water. I plan to treat using Alum to lower the phosphorus and starve the cyanobacteria over successive applications.

**Lake Y-2:** Rated: 8

- Cyanobacteria is in minimal amounts on west side only.
- Minor duckweed on west side.



**Treatment:** I launched the airboat into the north cove and applied 200 pounds of Alum and treated the duckweed with Schooner. I took water samples of this lake; however, GreenWater Labs in Palatka does not perform Total Nitrogen or Total Phosphorous testing. Advanced Labs in St. Augustine does, and I will take samples to this lab next Monday.

**Recommendations:** I plan to treat again with Alum next Monday and install bacteria blocks over diffusers.

**Lake 11: Rated: 6**

- Moderate cyanobacteria blown to the north side.
- One dead bass inside the skimmer.
- Heavy white bird waste on tree leaves overhanging the lake.



**Treatment:** I treated this lake with 100 pounds of Alum and removed the one dead bass.

**Recommendations:** I plan to treat it with Alum again next Monday.

**Lake I-1: Rated: 9**

- Floating Cyanobacteria has dissipated.
- Minor floating green algae has been eradicated from previous treatment.



**Treatment:** I launched the airboat and applied 100 pounds of Alum.

**Recommendations:** I will treat with Alum again next Monday.

# LAKE AND POND REMEDIATION, INC.

&

CHARLES AQUACULTURE, LLC

15350 N US Highway 301 Citra, FL 32113

LAPR Office: 352-595-8863

Fish farm Office: 352-595-1700

## Service Report

Lake 6: Rated: 9

- Spikerush and algae has been knocked back with several treatments.



**Treatment:** Inspection only.

**Recommendations:** I plan to stock grass carp this Winter to prevent return of spikerush.