



3167 St. Johns Bluff Rd. S., Ste. 204, Jacksonville, FL 32246

Fax: 904-807-9158

Phone: 904-997-0044

Toll Free: 866-990-0044

Service Report

Date: June 17, 2008

Biologist: Doug Charles

Client: Lake Asbury Municipal Service

Contact: Mr. Larry Pitts

Waterways: North and South Lake Asbury

Comments:

North Lake Asbury

After a thorough inspection of the hydrilla infestation, I have made the following observations. The hydrilla infestation is located almost entirely in a narrow band around the perimeter of the lake. (See enclosed map) The band measures from 0 feet to 200 feet wide. In the hydrilla band there is healthy hydrilla (some of it topped out) as well as pulled up hydrilla and has floating reddish brown algae that is feeding on the dying hydrilla. The widest band of hydrilla is located in the shallower areas of the lake. The narrower bands are located near the deeper drop offs. Furthermore, where the lakefront owners have raked hydrilla from their lakefront the hydrilla is much less prevalent.

The planktonic algae bloom has subsided somewhat and should further diminish when the lake starts to discharge. The lake is about two inches from discharging into Black Creek. The fish barriers look fine.

The results from my last treatment two weeks ago were very good in the shallower protected areas and not quite as good near the main body of the lake. I believe this is due to dilution of the aquatic herbicides.

I spotted only a couple of grass carp while inspecting the hydrilla.

I have concluded from my observations that the grass carp are holding their own. The hydrilla has not spread into the deeper sections of the lake as it did the last two years. There is a lot of pulled up hydrilla as well. The outer edge of the hydrilla is very distinct and drops off sharply. All these observations are indicative of grass carp control. The hydrilla is growing inside of the band and is healthy and topped out in much of the band (which is expected).

It is still too early to declare victory over the hydrilla but the early returns are promising. The lakefront owners could help the program by removing the hydrilla near their lakefront especially the pulled up hydrilla.

I will be out again in a couple of weeks so I can closely monitor the hydrilla infestation.

South Lake Asbury

This lake has had many hydrilla tubers sprout in the north and northwest areas of the lake. The hydrilla I observed is growing in areas I have never seen before and must be from previous hydrilla infestation from years ago. I did spot treat with Aquathol Super K(no extra charge) but needs a more aggressive treatment next time. I had excellent results in the south end of the lake and I am very pleased with the current condition. I did treat(no extra charge) the floating salvinia in the southern end and the hydrilla and algae in the southeast cove.

Unfortunately the grass carp are not keeping up with the hydrilla especially in the northeast areas of the lake. I recommend stocking more carp come Fall when they are available. The number will be determined by the hydrilla growth in the next couple of months. We will need to modify the grass carp permit.

In conclusion, I recommend a treatment of Aquathol and Diquat in the northeast area in two weeks. The extra cost will be \$900. I also recommend

stocking more carp to keep the hydrilla from spreading. Overall the lake is in good condition but I want to stay ahead of the hydrilla.

Doug Charles