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Natural Lake Biosciences Case Study 2023

Bluffton, SC

Background

The ponds in question are located in Bluffton South Carolina near the banks of the May River. The homeowner association has been reluctant to utilize chemical treatments for the ten ponds in the community. This year a Duckweed infestation in 3 ponds, totaling 17 acres, causes them to reach out to us for assistance.

Objective

We wanted achieve quick control of 13 acres of Duckweed in 3 ponds while not risking damage to trees along the banks of the ponds. The coverage was between 60-80% of surface acreage in these ponds creating the danger of fish death and low dissolved oxygen conditions.

Plan

We decided to use flumioxazin at 1 pound per acre, diquat at .5 gallons per acre, a pH buffering surfactant and Pondzilla Pro at .5 gallons per acre. The contact herbicides would provide quick vegetation control and the Pondzilla Pro speed up chemical effectiveness and vegetation decomposition. We wanted to create a “shock and awe” treatment that would wow the community.

Results

Pond #1 3 Acres



Before



After

Pond #2 4.5 Acres



Before



After

Pond #3 5.5 Acres



Before



After