INDIAN LAKE 2023 AQUATIC VEGETATION PLAN

The Ohio Department of Natural Resources (ODNR) will work to manage excessive vegetation during 2023 at Indian Lake. ODNR, with all of our partners, made significant progress in improving this lake in 2022. In 2023, the agency will be aggressive earlier in the spring season to ensure Indian Lake is navigable for boaters, anglers, and anyone who wants to enjoy this amazing natural resource. The following is a plan, with estimated costs, for short-term management strategies. This document is solely for planning purposes and is subject to change based on the developing situation at the lake, any information provided by lake management experts, or any other information that becomes available.

Short-Term options in place by March 1, 2023: $2.708 million

Monitoring – $75,000

- Contract, through state bid process, services of a lake management company to: monitor lake vegetation (including updated survey), monitor treatment areas and lake conditions, and provide recommendations for chemical/mechanical treatments.
- Develop citizen-based lake monitoring system
    - Use guidelines presented by AquaDoc as basis for program.
    - Create web-based form where users can submit information about lake conditions to ODNR and the Department's lake management contractor.

Herbicide (Focused on Eurasian Watermilfoil) – $1,030,500

- State applied treatments
    - Boat ramps, boat swim areas and beaches - $50,000
- Private contractor treatments (based on $900 per acre)
    - Northern end of open zone (~360 acres) - $324,000
    - Spillway area (~240 acres) - $216,000
    - West of Orchard Island (~145 acres) - $130,500
    - IF NECESSARY and based on early season lake survey: potential regrowth in previously treated areas (~400 acres) - $360,000
    - Total number of acres targeted with herbicide:

        - Expected application: ~745 acres
        - Possible application: ~1,145 acres.
    - NOTE: The end goal should be to eradicate the invasive milfoil from the lake as much as possible because complete eradication is likely unachievable. Spraying 1,900 acres suggested by Restorative Lake Sciences was only an estimate based on the survey conducted in August 2022, when conditions were at their worst and before we saw the major impact of the ProcellaCOR treatments.

- Timing
    - Treatment may begin in April and occur in designated areas every few weeks, with continued monitoring of oxygen and nutrient levels. Depending on any effects to lake conditions, the last large-scale treatment could be by the end of June.
    - Any sign of harmful algal blooms may reduce or eliminate additional chemical treatments for the season

Harvesting (Curly-Leafed Pondweed and Coontail) – $1,603,000

- Operational costs for equipment already owned by State
    - Four state-owned harvesters and a transport barge - $30,000
    - Two dump trucks, mini excavator - $11,000
    - 12 staff at $21.00/hour (wage and fringe) - $262,000
- Private contractors – two separate contracts through state bidding process
    - Contract for channel and near shore harvesting - $100,000
    - Contract for open lake harvesting - $1,200,000
        - This is based on ODNR costs and contract in 2022 with Shoreline Construction. The contract cost $7,500 per machine, per day. The company used two machines for a total of $15,000 per day. A four-day work week for 20 weeks = 80 total workdays X $15,000 per day for a total of $1,200,000.