



Debris, Muck and Sediment Removal

Hydro-raking and Dredging to Restore Water Depth

Though there are several proactive management solutions that can slow a waterbody's aging process, there will still come a time when your waterbody will near the end of its lifespan. We know it can be frustrating to see your lake or stormwater pond lose its functionality. That's why we offer hydro-raking and dredging, two solutions that can help restore the depth of your waterbody so you can enjoy it for years to come.

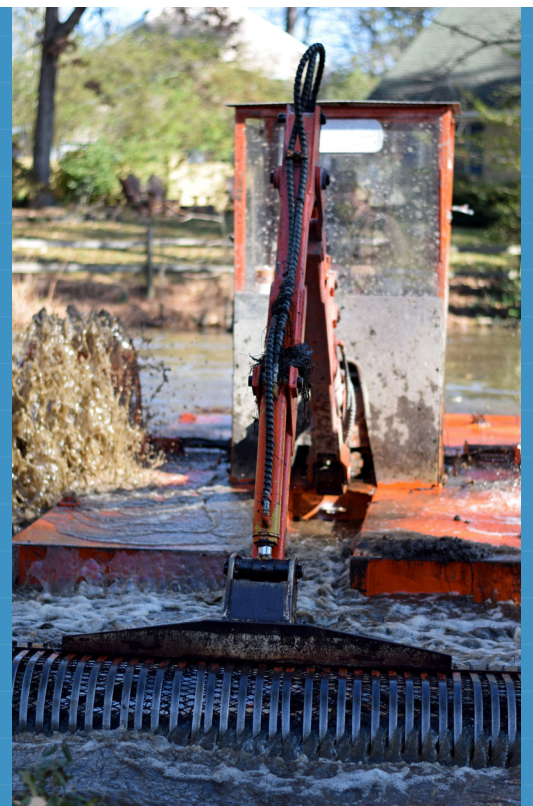


Hydro-Raking

The hydro-rake is essentially a floating backhoe equipped with a rake attachment that can be used to remove debris, decaying organic matter and aquatic vegetation. The hydro-rake is propelled by paddle wheels allowing it to work in shallow or sensitive shoreline areas that are typically inaccessible with conventional equipment.

Advantages of Hydro-Raking

- Removes plants and debris at the sediment-water interface
- Operates in water depths ranging from 18 inches to 10 feet
- Provides anywhere from one to three years or longer of nuisance plant control through only one service, depending on conditions
- Offers an environmentally friendly solution for aquatic weed removal
- Helps create balanced water quality conditions that are less conducive to algae, cyanotoxins, weeds, and foul odors
- Acts as a budget-friendly alternative to traditional dredging



Dredging

While dredging should be considered as a last resort, it may be the only solution in situations where sediment has built up to the point that a waterbody can no longer retain water. Hydraulic dredging and mechanical dredging can accommodate various properties, environmental restrictions, budgets, and waterbody types.

Hydraulic dredges are effective in moving large volumes of organic and inorganic sediment by utilizing a rotating underwater cutter and pumps to create a liquid slurry, which is then transferred to a disposal site via a floating pipeline. Mechanical dredges use buckets to excavate consolidated sediment and transfer it to barges or trucks for disposal or beneficial reuse. Though these solutions are costly, the investment is well worth it and can give years back to your waterbody.



Hydraulic Dredge



Aquamog
(Floating Mechanical Dredge)



Mechanical Dredge

Advantages of Dredging

- Increases volume and depth to 15 feet or more
- Removes nutrient-heavy sediments
- Eradicates deep-rooted plants and debris
- Restores stormwater detention capacity and increases flow in channels
- Offers several methods of sediment removal to fit every waterbody and budget
- Resets the lifespan of a waterbody

Prolong Your Waterbody's Lifespan

It can be overwhelming to maintain a lake or pond on your own. Our experts are here to partner with you to implement proactive solutions like nutrient remediation, aeration, and shoreline management to help reduce muck build up and nutrient loading. With these solutions in place, you can maintain beautiful water while also prolonging the lifespan of your waterbody. Speak with your lake or pond management professional to determine if hydro-raking or dredging are the right solutions for your unique waterbody.