



Advanced Drone Technology

Expanding Our Toolbox of Innovative Lake Management Solutions

Drones support the safety of our teams while preserving the health, beauty, and functionality of your aquatic resources.

New technologies and innovations continue to propel the lake management industry forward by driving more eco-friendly, efficient, and long-lasting freshwater management approaches. In recent years, SOLitude's toolbox of solutions has expanded, setting new precedents across the industry and elevating the expectations of our clients. Now, we are excited to introduce our latest advancement, drone technology.

Drones allow us to remotely monitor the growth of invasive aquatic plant species and, when necessary, execute highly-targeted applications of EPA-approved herbicides. Equipment is supplied and replenished at intervals with product for efficient dispersion across up to 150 acres of land per day.

Drones are ideal for applications targeting the following

Floating Plants

- Water Hyacinth
- Giant Salvinia
- Water Chestnut
- Crested Floating Heart

Emergent/Wetland Plants

- Phragmites
- Cattails
- Brazilian Pepper
- Flowering Rush

Vector Control

- Mosquitoes
- Midges
- Ticks
- Larvae

How do drones fit into a lake management program?

This technology is a dynamic complement to SOLitude's existing suite of services and equipment. As part of our annual SOL Pro Plans, your aquatic specialist may choose to utilize drones for multi-faceted management tasks that require versatile surveillance or treatment capabilities.





While hobbyist drones have been available for some time, the technology has been an important catalyst for the game-changing equipment we use today. SOLitude's unmanned aerial systems (UAS) exceed the capabilities of conventional drones in many ways:

- Custom-built by leading manufacturers
- Configured with superior GPS navigation features
- 6 ft. wingspan for highly-accurate maneuverability
- Liquid and granular payload capacity
- Pre-programmed flight routes

Are drones safe?

Drones allow experts to conduct precise applications without entering dense and precarious terrain on foot or by track-driven equipment. This prevents disturbance of valued endangered species and helps protect specialists from dangerous animals like snakes and alligators.

Who operates them?

SOLitude's drone pilots are licensed aerial pesticide applicators and authorized through the Federal Aviation Administration. All professionals specialize in airspace regulations, maintenance procedures, and emergency response.

