Lake Minneola Harmful Algal Bloom Management and Prevention Using BlueGreen US Water Technologies Inc’s Lake Guard® Oxy Technology
INTRODUCING

BlueGreen Water Technologies

Certified to NSF/ANSI/CAN 60

US-EPA Certified

Florida Department of Agriculture and Consumer Services
Our Mission

Provide a global, integrated solution to toxic algal blooms

Surgical treatments of toxic algal blooms

Restoration of biodiversity to the water

Sustainable, long-lasting results
KEYS TO SUCCESSFUL TREATMENT

WHEN to treat

WHERE to treat

HOW to treat
The Lake Guard® Oxy

Floating and time-releasing formulation
Hydrogen peroxide (H₂O₂) is the active ingredient

U.S. EPA approved
Registered in the State of Florida (FDACS)
NSF/ANSI/CAN 60 certified for drinking water
Floating and Time Releasing Formulation
Prescribes very low doses
The Lake Guard® Oxy
Safe to the environment

- Hydrogen peroxide ($\text{H}_2\text{O}_2$) concentration in the water is extremely low, 0.002-0.008 ppm
- Decomposes into water and oxygen
- Eco-friendly compound
- Does not persist or accumulate in the environment
The Lake Guard® Technology
Scalable application for large lakes

✓ Quick response time
✓ Immediate results
✓ Selective: Triggers biological Programmed Cell Death (PCD) in cyanobacteria
✓ Restores phytoplankton biodiversity in the lake
✓ Ties-up nutrients (phosphorus and nitrogen)
The Lake Guard® Oxy
Safe for Humans and Animals

• BlueGreen’s main goal is to make the waters safe for all.

• This eco-friendly product is safe for humans and pets.
Chippewa Lake, Treated on August 2019

330 acres, largest inland natural lake in Ohio

Lake is still clean since August 2019
Roodeplaat Dam, South Africa, February 2020

✓ 4.4 square kilometers (1,100 acres)
✓ Source for drinking water and recreation
✓ Years of severe toxic blooms

February 26, 2020, before Treatment
March 7, 2020, 10 d. after Treatment
Nanhu Lake, Hunan Province, China, Treated on June 2020

- 12 square kilometer (3,000 acres)
- Recreational attraction
- Serving 6 Million residents
- Years of severe toxic blooms

Satellite imagery processed with the Lake Guard® View
Lake Minneola
Recurring Episodes of Harmful Algal Bloom

March 2020

Courtesy of Mr. Fred Sommer, President, Sommer Sports
Intensifying Algal Blooms from month to month in Lake Minneola

Satellite imagery

Lake Guard® View
The Lake Guard® Technology
Process for Lake Minneola

Immediate Response  Immediate Results  Safe waters for all

Continuous Monitoring:
• Satellite imagery, drones
• Visual inspection
• In-situ measurements
• Water sampling through two independent and certified laboratories

In association with:

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Deepest gratitude to all the dedicated officials in Florida State agencies

- Governor Ron DeSantis
- Florida Legislature - Lake County Legislative Delegation
- Florida Department of Environmental Protection
- St. Johns River Water Management District
- Florida Department of Agriculture and Consumer Services
- Florida Fish and Wildlife Conservation Commission
- Lake County Water Authority
For notifications on the sighting of algal blooms in Lake Minneola, please contact our Rapid Response Team at: 

minneola@bgtechs.com

Thank You