Case Study
CAABRW-306.002

Cyanobacteria Control In A Small Raw Water Pond

Topics: cyanobacteria, blue-green algae, aquatic weeds, raw water, cost savings

SolarBee® circulation can provide more consistent water quality requiring less treatment.

Location & Contact Information:
Further information may be available upon request. Please contact Medora Corporation by phone at 866-437-8076 or by e-mail, info@medoraco.com

Reservoir Overview: Raw water reservoir for a small water treatment faciltiy.

Surface Area: 800 square meters (0.7 acres)
Max Depth: 3.7 meters (17.1 ft.).

All inflow is received from a nearby lake.

Pre-Deployment Conditions: This reservoir had a range of water quality issues including cyanobacteria (blue-green algae) blooms, invasive weeds and high levels of manganese. It was also prone to short circuiting which added to their water treatment problems.

Once water entered the plant, it was treated with potassium permanganate daily.

Project Objectives: Control cyanobacteria blooms, reduce aquatic weed growth slowly over time, and improve overall water quality to help reduce treatment costs at the plant.

Solution: One (1) SolarBee® SB2500v18 Circulator (August 2009)

Results: Since the SolarBee deployment, cyanobacteria blooms and aquatic weed growth have been kept under control. The significantly improved water quality resulted in substantially less treatment needs at the plant and an overall cost savings.

The Customer is happy with the results and has purchased additional SolarBee circulators for other locations in their community.