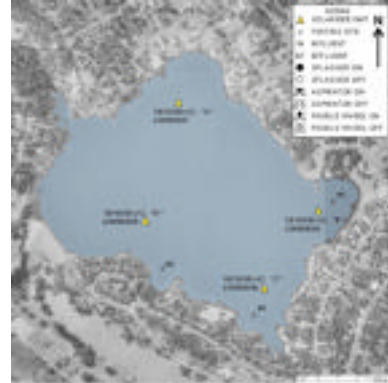


Summarized Case Study (LK)

Key Words: recreational lake, blue-green algae, water clarity, improved fishery, aquatic weeds, chemical savings



Photos: First photo shows a SB10000 in one part of the lake; the second photo is an aerial shot showing specific locations of the 4 SolarBee units.

Reservoir or Lake Use: Recreational lake. Recreational uses include swimming, fishing and boating.

System Overview and Reservoir: The lake has a surface area of 101 acres, a maximum depth of about 57 feet, and a mean depth of about 35 feet.

Reported Problem Before SolarBee Installation: Primary problems were persistent blue-green algae blooms and submerged aquatic weed infestations – both problems seriously impaired the use and enjoyment of the lake. In 2003, the lake association spent \$25,000 for herbicide treatments on the aquatic weeds.

SolarBee Installation: Date: June 2004, installed four (4) SB10000v12 units equipped with safety signs and beacons. Units were positioned to cover the entire lake for blue-green algae bloom control, but placed closer to shore so they would more effectively oxidize littoral sediments for reducing invasive aquatic weeds.

Results: Blue-green algae blooms were controlled for the remainder of 2004, and in all subsequent years since. Residents also noted that fishing noticeably improved as well. As a result of blue-green algae control and an improved lake fishery, water clarity also improved with visibility during summer months typically reaching 21-23 ft into the water column. Although SolarBee deployment was designed to address aquatic weeds secondarily, the lake association used only half the amount of chemicals for weed control in 2004 that they had used in 2003. In 2005, the amount of chemicals used was again cut in half, or about 25% of that used in 2003. In 2007 they reported that the once massive Eurasian watermilfoil infestation was completely gone. The lake association has been very pleased with the SolarBees and subsequent savings on chemicals, and homeowners are very happy to have clearer water without algal blooms, a more vigorous fishery (a lake record 24", 8 lb rainbow trout was landed in 2007), and progressively less toxic chemicals added to the lake – all of which have enhanced the ecological health and recreational enjoyment of their lake. And, the lake association has been extremely pleased with the after-sale support SolarBee, Inc. has provided for many years.

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