

## AEROMIX Systems' LumenAER Saves Lake Atitlán



Guatemalan President Álvaro Colom was present for the installation of the equipment.

Lake Atitlán is one of the most popular tourist attractions in Central America. It is famous for its natural beauty and the colorful Mayan towns and villages that surround it. In the summer of 2009, Lake Atitlán began to lose some of that natural beauty it was known for. Recent hurricanes, uncontrolled civil works, and increased use of agricultural fertilizers harmed the lake; causing elevated nitrogen and phosphorus levels.

With no waste regulations being enforced, local villagers and businesses

had grown accustomed to dumping waste into the lake. It was even documented that local hotels were draining their sewage water directly into the lake. This excessive waste raised the cyanobacteria levels in certain areas of the water. The blue-green algae bloom caused the lake to emit a foul-odor and lose its visual appeal. More importantly, it posed a serious threat on the health of locals and tourists.

**AEROMIX Systems** recommended that four LumenAER™ Solar-Pow-

ered, Floating Circulators be installed directly in front of Panajachel River and Catarara River where they meet Lake Atitlán, 10 to 15 meters off shore. The LumenAER units redistribute the surface water that flows into the lake from the two rivers. As the surface water is continually renewed, the nutrient load that contributes to the algae blooms is reduced.

At the heart of the LumenAER is a slowly rotating impeller, an intake, and discharge assembly. The LumenAER unit draws large volumes of oxygen-deficient water from the intake level vertically through the unit to discharge on the surface. Water exits the dish as a thin sheet for exposure to the atmosphere where nearly instant oxygen diffusion into the water can occur. All LumenAER circulators and AEROMIX Eco Aeration Products obtain all their energy from the sun. Using solar panels and special controls, LumenAER units convert solar radiation into electricity to drive and operate the brushless motor. A deep mixing option allows for selective mixing simultaneously to minimize upsets and maximize oxygen distribution. ■

## Earth-Friendly Odor Management Solutions from OMI Industries

**OMI Industries** is a leading developer of safe and effective industrial odor management solutions for a wide variety of applications. The company's patented Ecosorb® odor eliminator doesn't mask smells; it neutralizes them by breaking down and removing a broad spectrum of organic and inorganic odors.

No matter what the source of the unwelcome odor, from landfills to refineries to wastewater treatment facilities, OMI offers an industrial odor management solution that's safe for the user, the user's process and the environment.

Ecosorb odor eliminator is biodegradable and can be applied through a number of delivery systems, including atomization, vaporization, encapsulation or infusion into end products — making it the natural odor man-

agement solution for virtually any situation.

Ecosorb® is the green solution for industrial odor control. Ecosorb® products use natural ingredients to eliminate industrial smells without the need for harsh chemicals or masking fragrances. Highly versatile and proven effective, the company's products offer a complete solution, eliminating the need for multiple solutions. Moreover, two independent laboratories tested Ecosorb® products against EPA Method 624 and 8260 to ensure the use of Ecosorb® products at a facility does not contribute to the total VOC output. Both tests showed no harmful VOCs or HAPs. The company's products don't mask industrial odors. They react on a molecular level to neutralize them without relying on chemicals.



The products are also:

- Effective for both organic and inorganic odors
  - Safe for humans
  - Safe for animals
  - Safe for the environment
  - Nontoxic
  - Custom engineered solutions when needed
- Ecosorb products are available for use in atomization and vaporization systems, as an additive or in a gel coating formulation to safely and effectively remove odors. ■