

Algae Control in Raw Water Reservoir

In Santa Elena's, Ecuador, a raw water reservoir was covered with green algae, causing operational problems in the water treatment plant. In 2013, the treatment installed three LG Sonic devices to cover the 24.000 m² of water surface.

Raw Water Reservoir - Santa Elena, Ecuador- 2013

The Challenge

The algae grew on water surface water and settled on the liner before entering the local water treatment plant. The daily water consumption is 132,5 m³, and it is built in a geomembrane HDPE liner. The treatment plant used 100 kg of copper sulfate every year to get rid of algae.

The Solution

Three LG Sonic e-line systems were installed to treat the waterbody. The units were connected to a local power source. The LG Sonic e-line emits specific ultrasonic parameters to control algae in smaller water surfaces, such as ponds and golf course ponds

The Results

As an alternative to copper-based algaecides, ultrasonic treatment was used to control algae. After the installation, Algae disappeared from the surface 24 hours after the treatment.

- ✔ Algae has disappeared from the surface
- ✔ Significant improvement in water clarity
- ✔ Total avoidance of chemical treatment



Figure 1: Before treatment



Figure 2: After treatment



Figure 3: Before treatment



Figure 4: After treatment

Related Product



Control Algae in Ponds with the LG Sonic e-line

The LG Sonic e-line provides an environmentally friendly solution to control algae in ponds with the use of ultrasound technology.

- ✔ Eliminate up to 90% of the algae
- ✔ Easy to install and maintain
- ✔ Safe for fish, plants and other aquatic life

[Learn more about the LG Sonic e-line](#) ↗