MOLEAER™
BEYOND AERATION

WATER PARK SOLVES ALGAE ISSUE WITH NANOBUBBLE TECHNOLOGY

Xcaret, a resort in Playa del Carmen, Mexico with over 50 natural and cultural attractions is a vacation destination where families come to play and relax. One of their feature attractions, a 9.25-million-gallon water park called Xavage, was battling the growth of unsightly and foul-smelling algae. While searching for a chemical-free solution to solve their algae issues, Xavage learned about Moleaer's success in treating algae with air nanobubbles and decided to install two Moleaer Optimus nanobubble generators, each with a pumping capacity of 200 GPM.

Client:
Xcaret

Type:
Algae Control

Unit Type:
2 x 200 GPM

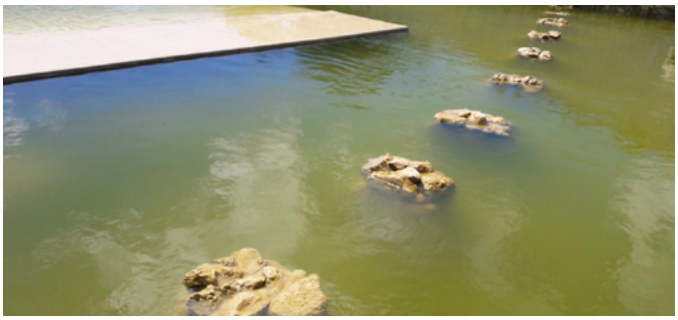
Installed:
August 2019

Benefits:
Increased DO
Reduced Chemical Costs
Improved Water Clarity and Quality
Eliminated Odor

Water Body Size:
9.25 million gallons

The high nutrient levels and warm temperatures of the water circulated throughout the outdoor water park provide the perfect conditions for growing hard-to-treat algae. Not only can algae be unsightly and malodorous, but certain species can also produce substances toxic to people and animals. After installing the two nanobubble generators, Xavage's water clarity dramatically improved and algae was visibly removed throughout the water park. "After trying numerous other treatment methods, we are thrilled with the results we are seeing. The nanobubble treatment is also all-natural and has eliminated our need for chemical treatment, which translates to a better experience for our guests." said Ing. Jose Daniel Gonzalez Pech Gerente Mantenimiento Xoximilco, Chief Maintenance Engineer of Xcaret. "The Moleaer Optimus gives us the right approach to remove and prevent algae at our Xavage water park."

Nanobubbles are often defined as bubbles less than 200 nm in diameter. At this size, bubbles behave very differently than larger bubbles because they don't rise to the surface and burst. Rather, they remain in suspension and disperse, elevating oxygen levels throughout the waterbody. Nanobubbles also provide a mild-oxidant effect that has been shown to destroy algae cells and reduce algae toxin levels. These unique properties provide effective, chemical-free treatment for algae mitigation.



Before nanobubble treatment, the warm water at Xavage was ideal for growing algae.

Water clarity was very poor before nanobubble treatment.

After nanobubble treatment, algae was visibly removed from the water.

Water clarity and color significantly improved after nanobubble treatment.

Two Moleaer Optimus nanobubble generators provide nanobubble algae treatment for Xavage.

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