

Medora Corporation

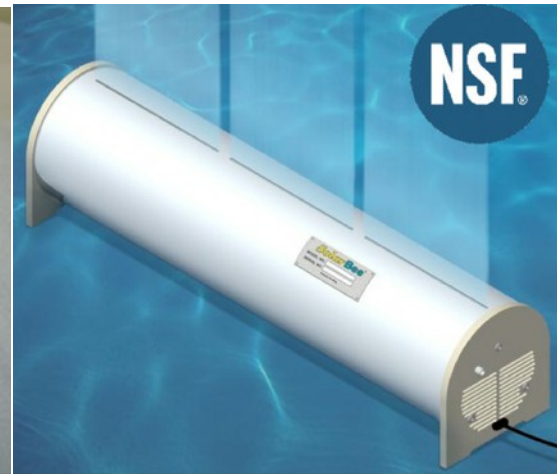
Potable Tank Mixing & THM Removal

USNYPW-LOC954.001

Topics: potable, THM removal, TTHM, stratification, ice buildup, stratification/water age



East Tank, SN-5, and GridBee® GS-12



Customer: Information is available upon request from Medora Corporation. 866-437-8076 info@medoraco.com

Overview: This city provides water to nearby dairies, food processors and 3,100 residents via some 37 miles of water mains. The city buys their potable water from a neighboring community, which disinfects the water with chlorine before the city receives it. This city then stores the water in twin cylindrical, welded-steel 0.75 MG ground storage tanks prior to distribution. The twin tanks are referred to as East and West. The East Tank has a daily inflow of approximately 150,000 gpd, with a 175 gpm maximum fill rate.

Conditions / Objectives: Water quality problems included excessive trihalomethane (THM) concentrations, and thermal stratification creating uneven water age issues. During winter months, icing had been a tank management issue. To ensure full EPA compliance and to optimize the community's potable water quality, the town sought a reliable, affordable means for removing THMs. After consulting with their engineering firm, the town decided on a

GridBee SN-5 Floating Spray Nozzle THM Removal System for the East Tank. They supplemented that with a GridBee GS-12 mixer to prevent stratification and icing problems.

Solution : One (1) GridBee SN-5 Floating Spray Nozzle THM Removal System and one (1) supplementary GridBee GS-12 mixer in the East Tank. Deployment Date: August 2012

Results: Results since the GridBee deployments have been very positive. Certified laboratory tests have documented a 62% reduction in total THMs in the East Tank, a reduction verified at Medora Corporation's own testing facility. The Superintendent of Water and Sewer Operations remarked that "I'm very pleased with these THM results! SolarBee engineers can design the right THM removal system for you, too." Furthermore, there has not been any evidence of either thermal stratification or icing issues in the East Tank. As a result, the city is considering a second GridBee THM removal system for the West Tank.

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