

Medora Corporation

THM Removal in a 750,000 Gallon Tank

>60% reduction in TTHMs achieved.

Topics: trihalomethane reduction, spray aeration



Contact Information

Further information may be available upon request. Please contact Medora Corporation via phone at 866-437-8076 or by e-mail, info@medoraco.com

System Overview:

This municipality purchases water from a neighboring community.

Disinfectant Type: Chlorine

Tank / Reservoir Build Information:

Name: East Tank
Volume: 750,000 gallons
Construction: welded steel
Height: 45 feet.
Diameter: 60 feet
Type: ground storage
Daily Inflow: 150,000 gallons
Max. Fill Rate: 175 gpm

Pre-Deployment Conditions:

Excessive trihalomethane (THM) concentrations were creating compliance issues. Other issues included: thermal stratification, uneven water age, and accumulating tank ice during winter months.

Project Objectives:

Total trihalomethane (TTHM) reduction.

Solution: One (1) GridBee® SN Series Small Frame Spray Aeration Unit with blower ventilation and one (1) GridBee® GS Series Potable Tank Mixer deployed in August 2012.

Results: Water quality improved significantly. Certified laboratory tests have documented a 62% reduction in total THMs. No thermal stratification or ice related issues have since been reported.

"I'm very pleased with these THM results! [Medora Corporation] engineers can design the right THM removal system for you, too."

- Supt. of Water & Sewer Operations

Update: Positive results in the East Tank have led to the purchase of an additional GridBee® GS Series Potable Tank Mixer for their West Tank.

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