



Case Study



Success Story

## Bottled Water Company Selects WTMI's ANA Filtration System over Hollow Fiber Technology

### Overview:

Constant pressures to increase production, improve quality and reduce costs can be very challenging for bottled water companies of any size these days. Savings in operational costs can make a huge difference in the success of the company.



W. T. Maye, Inc. (WTMI) has produced a filtration system that is truly unique and revolutionary. The WTMI ANA Filtration System is a true zero-discharge system with no waste stream, no backwashing, no need for chemical cleaning, and uses no electricity. It removes metals, bacteria, viruses, and pharmaceuticals without effecting water taste.

The ANA Filtration System provides turbidity levels below 0.1 NTU and Silt Density Index (SDI) numbers below 3.0 consistently regardless of the incoming water quality. Systems can be made for any flow rates. The ANA Filtration Systems are less expensive than Hollow Fiber technology systems and they are much more environmentally friendly having no waste streams or discharge of any kind.

### Problem:

Middlesboro Coca-Cola Bottling Works (MCCBW) in Middlesboro, KY was experiencing short filter life several times per year due to fluctuations in their incoming water quality. The short filter life decreased production times and increased operating cost.



Several filtration methods were investigated, including Hollow Fiber technology systems and Reverse Osmosis (RO) systems from large filter companies. Each were expensive, would require chemical cleanings and backwashing. WTMI's unique ANA Filtration System was considered and found to be much more desirable than the Hollow Fiber technologies and RO system because of its price, zero-discharge capabilities, size, and environmental friendliness.

### Solution:

MCCBW ran a pilot test of the ANA Filtration System to confirm the performance statements given. Turbidity levels were the largest concern along with the effect on water taste. The result of the pilot test was a huge success. Turbidity levels were consistently at 0.04 NTU regardless of incoming water quality fluctuations.

In addition, taste tests were performed and it was proven that the ANA Filtration System had no adverse effect on the taste of MCCBW water. A 250 gpm ANA Filtration System was purchased and installed.

MCCBW has been running the ANA Filtration System with no problems. Water quality is consistent, operating costs have greatly reduced, and production delays eliminated due to the installation of WTMI's ANA Filtration System.



### **Benefits:**

*Low Cost...* The cost of the ANA Filtration System was significantly less expensive (in one case 50% less). In addition, the overall plant operating costs have reduced significantly as a result of using the ANA Filtration System.

*Environmentally Friendly...* The ANA Filtration System uses no chemicals, has no waste stream from any backwash routines, and uses no electricity. True Zero-Discharge.

*Performance...* The ANA Filtration System provides consistent water quality regardless of the fluctuations and inconsistencies in the incoming water. It is virtually maintenance free. It has no controllers to adjust or calibrate, no chemical additions to handle, no chemical cleanings needed, no backwash routines, and no waste streams as with other technologies. It consistently provides NTU & SDI levels within quality targets.

*Smaller Footprint...* The modular designed ANA Filtration System was skid mounted and had a small footprint of only 6 feet x 12 feet. This was much smaller than the other technologies considered leaving more space for production and operations.

### **Summary:**

The ANA Filtration System is clearly the best choice for water filtration for bottled water facilities due to the ANA Filtration System's high performance, low operating costs, and true zero-discharge. Having a small foot print and no need for chemicals cleanings are also a plus for bottlers. WTMI's ANA Filtration System is truly a revolutionary solution for the bottled water industry. Contact us today for a free analysis.

### **About WTMI:**

W. T. Maye, Inc. (WTMI) is a privately held corporation located in Knoxville, TN serving customers on three continents around the world. WTMI specializes in filtration and problem solving with integrity.



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