

WATER TREATMENT TECHNOLOGIES SERVICES



- **Reduce Costs**
- **Improve Performance**
- **Improve Reliability**
- **Optimize Efficiency**
- **Uncover Latent Issues and Opportunities**

Acceptance of the status quo is all too common even though it can mean higher costs in production, efficiency, and reliability losses. In many cases, it seems there is just no time to do otherwise.

M&M Engineering can help.

The first step is to establish a benchmark for optimum water treatment program performance developed from a comprehensive evaluation by independent, unbiased experts.

The engineers, scientists and technicians at Mechanical & Materials (M&M) Engineering have the know-how to establish realistic water treatment objectives for your plant and to select the methods to achieve your goals.

We study your plant's water and water treatment requirements and then evaluate your current water

treatment applications. This takes experience, but the standards are simple.

- Select the correct chemical(s).
- Apply the correct dosage—no more, no less.
- Monitor and control each application.
- Record data and information.
- Measure and evaluate performance.
- Adjust as operating conditions change.

Cooling Water, Boiler Water and Process Water Treatment

Water treatment is a direct cost but one that must always provide a substantial return on investment (ROI) *when it is applied correctly and consistently*. The ROI of water treatment is very real, but it is



frequently hidden in several places as follows:

- Higher productivity
- Reduced maintenance requirements
- Lower labor costs
- Improved energy/fuel efficiencies
- Lower water costs
- Lower chemical costs
- Improved equipment and system reliability
- Equipment replacement cost avoidance.

The overall ROI can be difficult to assess, but the engineers and scientists at M&M Engineering can connect the dots.

Water Conservation and Recycling

It makes sense to use as little water as possible and water discarded after only one use can be a significant and unnecessary cost. M&M Engineering recognizes and facilitates water recycling opportunities.

Water Conditioning and Wastewater Treatment, Reclamation and Reuse

It's a fact that all the water in the world has been used and reused many times over. What nature does with the hydrologic cycle, industry must do faster and more efficiently but on a much smaller scale. Water conditioning processes such as filtration, ion exchange and membrane separation, for example, make water suitable for its intended use. Paying a premium for water quality superior to what is required is a needless cost, but when water is conditioned insufficiently or unsatisfactorily, costs can escalate and impossible operating conditions can develop.

Training

The water treatment specialists at M&M Engineering can develop and present training programs targeted to the needs of your technical or operating personnel

M&M Engineering Laboratory

M&M Engineering's Laboratory in Austin, Texas, is designed specifically for trouble-shooting and problem-solving and combines the best in instrumentation and procedures with experienced engineers, scientists and technicians. We get the analytical data, photographs and information to you promptly, when you need it most.

Professional Staff

M&M Engineering's scientists, engineers, and technicians are experienced in a variety of fields and industries. When you need expertise to solve a problem, M&M Engineering can match your needs with the appropriate personnel.

For more information contact:



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