



# SPECTRUM WATER TECHNOLOGY

*Solutions to Savings*

Spectrum Water Technology is a privately owned company specializing in wastewater treatment. Spectrum Water is an investigation based company focusing on aiding facilities to use the existing wastewater infrastructure more efficiently. Spectrum Water specializes in the performance and cost issues with regard to primary waste treatment, biological process and control, and solids dewatering.

The principals of Spectrum Water have spent their careers in firms focusing mainly on Industrial Facilities, and have enjoyed over 80 years collective experience. Each principal began independently in similar fields, then were employed together in a product supply company focusing on Industrial and Municipal Biological Treatment. In May of 2000, the three joined together with a new goal, an updated vision with attention on "Solutions to Savings".

Spectrum Water's approach is to focus on improvements within the perimeter of process sewers, primary treatment, wastewater treatment, dewatering and discharge. Spectrum Water is equipped with an array of tools used in solving waste and wastewater treatment issues.

## *Achieving Savings*

The process to achieving savings starts with a discussion of the critical cost areas within the wastewater process. A premise and goal are established in the reduction of the targeted costs. Data review and laboratory analysis are the keys in moving forward. Spectrum Water has a fully supported laboratory and engineering group versed in jar testing, respirometry, and treatability studies. Before the implementation of a chosen idea, field testing or laboratory study is used to confirm the science.

The Spectrum investigation is centered around the microbiology of a wastewater system. Gauging the weaknesses and strengths the biomass exhibits provides direction on the changes necessary to achieve the predetermined goals.

## *Success*

Spectrum has enjoyed considerable success in analyzing the wastewater process and implementing solutions to achieve cost reductions in areas such as:

1. Reduction in Caustic and Acid use
2. Increasing or decreasing primary treatment performance
3. Recovery of poor biological performance
4. Reducing biological solids' production rates
5. Reducing the need for polymer treatment in clarifiers
6. Reducing off site disposal of solids
7. Reducing energy demands on a system

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**Spectrum Water Technology**  
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