

Plant Optimization

Get the most out of your existing water treatment. We will review your plant to reduce costs and optimize performance.



Operational Expertise

Our team has designed, commissioned and provided consultancy services for mine water treatment plants to remove a wide range of constituents, including dissolved metals, sulphate, selenium and nutrients from mining wastewater.

We also operate plants, giving us first hand experience on how best to design and optimize plants. We currently operate several mine water treatment plants under long-term contract. For plants operated by the site owner, we provide operator training, remote monitoring and ongoing technical support to ensure optimal plant performance.

All our design engineers undergo operator training and have worked as operators at water treatment plants.

Customized Scope

The scope of work will be tailored to the unique needs of each site and customer, and may include:

Reduce operating costs.

- Reagent dosing to improve utilization and efficiency
- Opportunities to reduce waste residues
- Recover value from waste if possible

Improve plant performance.

- Identify bottlenecks with process chemistry and/or plant mechanics
- Increase plant availability and/or reliability through automation

Adapt plant to accommodate new or future regulatory requirements.

Reexamine water treatment in context to overall site water management.

- Impact of blending water from different sources on plant performance
- Opportunities for treated water recycle

Improve plant safety and reduce the risk of environmental incidents.

- Review safety interlocks and salient safety documentation

Initial Assessment

We will work with you to jointly establish the plant optimization scope based on your objectives. The process may involve:

Review feed water chemistry and discharge limits.

- Speciation of critical constituents
- Feed source

Site visit by water treatment specialists.

- Process engineer/operator/automation specialist
- May include field water testing

Data analysis and develop actionable recommendations.

Customer report.

- Findings, analysis and recommendations