



## KNOW YOUR WATER, PROTECT YOUR PLANT

### **Mining Optimizer:** *Scale Modeling Software*

**Prevent  
Uncontrolled  
Shutdowns**  
and production loss

**Reduce  
Maintenance  
Spend**  
on expensive cleaning and  
replacement

**Reduce  
Treatment  
Costs**  
for scale control

**Maintain  
Production**  
By keeping equipment  
running optimally

**Improve reliability and reduce  
treatment cost.**



## The Mining Optimizer finally brings accurate Water Modeling to the Mining Industry.

In the past, mine water scale treatment has been more “art than science,” due to the complexity of mine water and its incompatibility with existing models, which were designed for cooling towers or oil treatment.

### Taking Control of Your Water

The release of the Nalco Water Mining Optimizer means we can finally model water quality to predict and control scaling in the mining environment.

The Mining Optimizer allows us to approach scale control from a whole-site water management perspective. From our initial interviews to the completion of water sampling, modeling and creation of the water map, we can identify your facility's problems. This means we can provide recommendations beyond just chemical treatment including:

- Water blending and management
- Anti-scalant dose point optimization
- Monitoring and control plans
- Service and maintenance planning

The software takes into account the complex nature of managing an entire site's water blending to provide an answer on how to keep your pipes clean and flowing. It is specifically built for mine water condition and includes **What-If Analysis** to:

- Learn what is driving your scale formation
- Review water blending impacts
- Take the guesswork out of product selection
- Model impact and consumption of lime or acid addition
- Optimize dose points

#### Copper Mine Identifies New Water Source and Reduces Antiscalant Treatment Cost by 33% Using the Mining Optimizer.

After conducting an in-depth site survey and modeling the mixing of different water sources, Nalco Water was able to identify a new source of water for our customer. In addition, scale formation declined in the plant, which reduced maintenance costs and allowed the site to focus on maximizing production.

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