

# Insights for Mining Companies

## Overview

Many companies in the mining industry have sustainability goals to minimize their impact on the environment. By collecting accurate, secure and real-time data on water management, can reduce reputational risk and ensure better quality wastewater is returned to the environment.

By accelerating the adoption of intelligent technologies such as AI and machine learning, mining companies can optimize overall water management, lower costs, improve environmental performance and reduce risk.



## Key Drivers

Mining	Environmental Manager
<ul style="list-style-type: none"><li>• Achieving Environmental, Sustainability &amp; Governance goals</li><li>• Ensuring better quality water is returned to the environment</li><li>• Lowering energy and operating costs</li><li>• Meeting environmental effluent requirements</li><li>• Visibility of breaches with immediate alarms for compliance and failures</li><li>• Prolonging asset life</li><li>• Replacing costly and problematic hard-wired solutions</li><li>• Realizing the economic benefit of better water management</li></ul>	<ul style="list-style-type: none"><li>• Full 24/7 visibility of tailing dams and water operations</li><li>• Real-time, evidence-based data for pit lake management, dam wall integrity monitoring and water management processes</li><li>• Customizing and automating alarms for compliance breaches or failures for faster rectification</li><li>• Collecting accurate and secure data such as dam water levels, water pressure, wall settlement processes, rain measurements and wind speed</li><li>• Water management data intelligence for evaluation of environmental standards, monitoring and management</li></ul>

## Like to learn more?

Streamwise D.I.<sup>™</sup> helps mining companies optimize water and wastewater management, reduce operating costs and reduce risk.  
For further information, please contact us:

## How Streamwise D.I.<sup>™</sup> works

Streamwise D.I.<sup>™</sup> empowers mining companies to intelligently process real-time information from settling ponds, tailing dams and water management processes, by bringing together the latest in:

- Digital and sensor technologies (battery or solar powered available)
- IIoT (Industrial Internet of Things) and wireless communication
- AI and big data analytics
- Easy to understand, data visualization
- Powerful industrial grade edge device.



By combining these capabilities, Streamwise D.I.<sup>™</sup> delivers evidence-based decision intelligence and enhanced automation to improve water management, reduce energy use and lower costs.

## How Streamwise D.I.<sup>™</sup> helps you.

1. **Lowering OPEX:** Improving efficiencies of water management delivers savings in energy use, improved compliance, as well as savings on operator oversight and overall operating costs.
2. **Reduced Risk:** Data from settling ponds, storage dams, truck washdown and dust management, can all be seamlessly integrated into the Streamwise D.I.<sup>™</sup> secure, cloud based portal. This gives your personnel full visibility 24/7, with real-time data on dam wall integrity, plant operations, compliance and failures.
3. **Customized Sensors:** A variety of wireless cameras and sensors are placed in optimal positions at your site for critical data collection. These include dam levels monitors, piezometric sensors for water pressure, inclinometers for assessing horizontal displacement, settlement cells to monitor the dam walls, cameras for visual dam wall inspection, as well as local weather, rain and wind speed data.
4. **Customized alarms:** Alarm systems are customized and automated for your site. Alarms can also be configured to give predictive assessments of likely behaviour, as benchmarked against other mining sites with similar issues.
5. **Enhanced automation:** Using our AI and machine learning models, simulations to improve water management can be tested before deploying in the real world.
6. **Data Integration:** Data from multiple, disparate and geographically separated sources can be linked to the Streamwise D.I.<sup>™</sup> Portal, (via APIs). This delivers consolidated, accurate and valid information.
7. **Auditability:** Secure access to site data provides evidence-based traceability of water sources, tracking usage and changes.

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