

Ensuring Safety and Operational Continuity with a low cost GNSS Autonomous Monitoring Solution



Learn More

Background & Problem

To enable Dawson's mine to be able to conduct mining activities adjacent to the tailings dam, monitoring must be in place to confirm the ongoing stability of a tailings dam. Kurloo is used in conjunction with other monitoring tools to ensure a comprehensive safety approach. The primary objective is to establish a sense of surety and gather baseline data that can serve as an early warning system.

While the likelihood of an issue arising is low, the potential consequences are significant, making this data crucial. Kurloo's ability to monitor a large area as a baseline tool allows for the escalation to more critical and intensive monitoring systems only when necessary. This strategy not only enhances safety but also results in significant cost and time savings by avoiding unnecessary escalations.

Solution

Recognising the need for reliable and continuous monitoring, Dawson's Mine turned to Kurloo Technology as an ideal solution to integrate into their existing monitoring ecosystem. Six Kurloo devices were strategically installed along the tailings dam, a critical area requiring close observation while mining operations go ahead. While Kurloo serves as a robust baseline data set, other monitoring tools are available for escalation if needed, such as deploying a radar within a day should any significant movement be detected. This layered approach ensures comprehensive safety coverage across a large area, allowing for escalation to more critical tools only, when necessary, which is a significant cost and time saver.

The decision to implement Kurloo's cutting-edge system was driven by its ease of installation and management by the Geotech team. Unlike traditional methods, Kurloo operates autonomously with minimal maintenance, making it especially advantageous for managing budget constraints and efficiently using resources, all while providing near real-time data to ensure the safety and stability of the tailings dam.

CHALLENGES:

- Significant slope failure disrupting operations
- Need for continuous, reliable monitoring
- Budget constraints

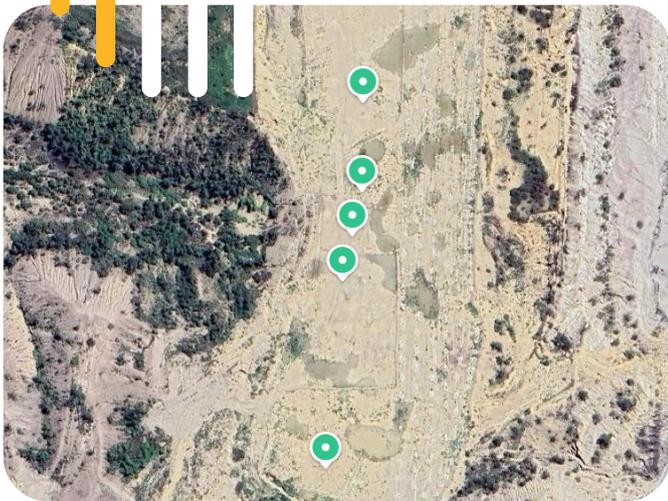
BENEFITS:

- Consistent and Accurate Monitoring
- Ease of use and application
- Efficiencies maintained thanks to low maintenance of cost and resources

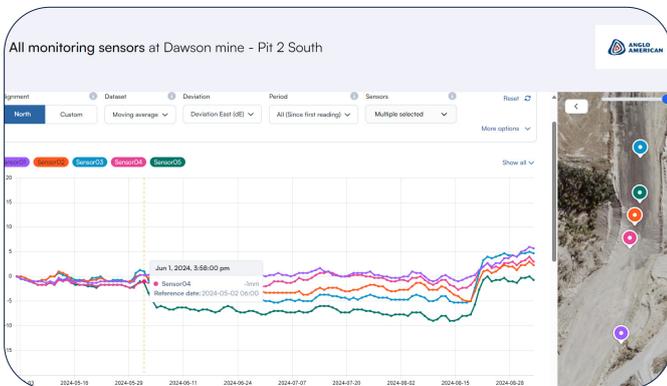


Kurloo x Dawson's Mine: Slope Stability Project

Accurate | Affordable | Autonomous



Placement of Kurloo Devices



Dawson's Mine Site Overview Dashboard

We were referred to Kurloo, and it fit exactly what we needed. There was a gap in our monitoring needs, which Kurloo filled—providing constant, reliable information with minimal maintenance. Kurloo ticked all the boxes for us. Our Geotech team could manage it independently.

Kurloo's precise and continuous monitoring has effortlessly provided us with accurate information. We couldn't be more satisfied with the results.

Adrienna Robotham
Geotechnical Engineering Open Cut
Anglo American



Benefit

The Kurloo system was designed to be user-friendly, enabling the geotechnical team to easily manage the monitoring process, allowing them to focus on other critical tasks. Kurloo's efficiency, minimal upkeep, and cost-effectiveness made it an ideal solution for continuous operation in a demanding environment.

Even within the blast zone, where equipment often requires frequent relocation, the Kurloo devices remained operational, reducing downtime and ensuring uninterrupted data collection.

The system's Activity Log feature made it easy to record and display this data, providing a clear, accessible record for the project. This capability proved invaluable in maintaining safety and operational efficiency while also being a cost-effective solution.

Results

By integrating Kurloo Technology, Dawson's Mine significantly enhanced its ability to monitor the tailings dam while continuing mining operations in adjacent areas. The consistent and accurate data provided by Kurloo was instrumental in ensuring the safety and stability of the mine, allowing operations to proceed with confidence. Kurloo's low-maintenance and user-friendly system became a critical asset for the mine, enabling the geotechnical team to effectively manage monitoring tasks without overburdening other resources.

This efficiency helped Dawson's Mine maintain smooth operational workflows. With Kurloo in place, the mine could respond quickly to any potential issues, ensuring that both the environment and the surrounding areas remained secure, reinforcing the mine's commitment to safety and operational excellence.

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Ready to get started?

Let's talk about how Kurloo can help you achieve results like these too.

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