



**KEY FEATURES**

- ▶ Complete weather and hydrology multi-hazard warning system
- ▶ On-site lightning detection and warning
- ▶ Real-time hydrological monitoring and alerting

**PROTECT WORKERS AND OPTIMIZE MINE OPERATIONS WITH ENVIRONMENTAL MONITORING AND ALERTING**

Automated weather and hydrological monitoring and alerting solutions help mines improve safety, reduce downtime, and operate more efficiently. Mines around the world trust Earth Networks and the Advanced Environmental Monitoring Family to manage weather and water-related safety concerns.

**OVERVIEW**

**We offer total weather and water safety solutions for the connected mine:**

- ▶ Real-time weather, lightning, and rainfall monitoring
- ▶ Multi-platform alerting
- ▶ Air quality, dust and surface mine monitoring
- ▶ Dam and erosion monitoring
- ▶ Custom forecasts and threat assessments
- ▶ Portable and fixed environmental monitoring systems



**AUTOMATED LIGHTNING ALERTING**

The Sferic Siren system is your one-stop-shop for accurate and automated lightning proximity alerts. Ask us about it.

**BENEFITS**



Find the best window of opportunity for heavy machinery operations, truck movements, and crane operations based on wind, humidity and rain forecasts



Respond faster to dangerous conditions like thunderstorms, flooding, and unstable roads or pits



Instantly alert and keep everyone, including your first responders and field teams, updated on changing conditions



Call on experts whenever you need them. Our fully staffed team of professional meteorologists is on-call 24/7 to answer questions and deliver forecasts

The Advanced Environmental Monitoring family has decades of experience helping mining companies manage weather and hydrology concerns.

**Air Quality Monitoring**

- ▶ Airflow sensors
- ▶ Dust sensors
- ▶ Surface mine stage and morbidity (auto sampler for pm 2.5, pm 10, ozone, CO2, Sulfur Dioxide, etc)

**Weather Monitoring and Alerting**

- ▶ Weather stations to measure wind, temperature, precipitation, pressure, and more
- ▶ Fixed or portable early warning systems
- ▶ Automated multi-channel alerts (Text, Email, Sirens, Strobes)

**Hydrology**

- ▶ Water quantity/water quality
- ▶ Water usage monitoring
- ▶ Rainfall and flood monitoring

**Dam and Soil Erosion Monitoring**

- ▶ Soil dam strain monitoring
- ▶ Levy erosion monitoring (LoRA)

**COMPREHENSIVE WEATHER INTELLIGENCE FOR MINING OPERATIONS**

Safe mining practices are essential for protecting your employees, your organization, and the environment. Accuracy matters when it comes to the weather and better accuracy comes from better data. With a family of seven companies, global lightning detection, and weather observation networks, our data is second to none. We have the hardware, software, and experts in place to support all your environmental safety needs and help you better manage your mining operations. Our AEM family of companies offer a vast array of comprehensive weather intelligence capabilities for your mining operations.

**KEY PRODUCTS**



Lightning & Severe Weather Tracking and Alerting



Water Use Monitoring and Management



Air Quality and Dust Monitoring



Precision Weather Stations and Environmental Sensors



Rainfall and Flood Monitoring



Dam and Soil Erosion Monitoring