

A photograph of a dense forest with a stream flowing through mossy rocks. The scene is captured from a low angle, looking down the stream. The water is clear and reflects the surrounding greenery. The trees are tall and thin, with a thick canopy of leaves. The ground is covered in moss and small plants. The overall atmosphere is serene and natural.

FROSKR

Environmental Stewardship.  
Reimagined.

## Proprietary Restriction Notice

This document contains information proprietary to FROSKR Corporation (FROSKR) and shall not be reproduced or transferred to other documents, or disclosed to others, or used for any purpose other than that for which it is furnished without the prior written permission of FROSKR.

Further, this presentation is the sole property of FROSKR. No portion of it shall be used, now or in the future, by the agencies and/or persons who may see it in the process of its review, without the prior written permissions of FROSKR.



# Agenda

- Safety Share
- Brief Introduction to FROSKR
- System Overview and History
- HyLoENVIRO™ Evolution and Success
- Future of HyLoENVIRO™

## SAFETY SHARE



Mental Health and Well-Being.

It's important to take personal time, away from work.

Physical activity is an excellent way to relieve stresses and improve one's mental and physical well-being.





## Behind the name.

A sensitive indicator species, frogs breathe partially, and drink fully, through their skin. When the environment suffers, so do frogs.

A healthy frog population means sustained environmental health and stability.

A project with FROSKR means just the same.



25+  
Over 25 years  
of innovation  
excellence.



As part of the INOVINTA Group of Companies, FROSKR along with engineering excellence at BESTECH, Research & Development and sales teams at SHYFTinc. and innovation at FORTAI, leverage the power of a comprehensive ecosystem of over **130 professionals**.

We have successfully completed thousands of projects for many of the mines in the Sudbury area, and have experience in Peru, Chile, Mexico, Indonesia, South Africa, Saudi Arabia, the US, Australia, and throughout Canada.



## OUR VISION

### Sustainability.

For our environment, our industries  
and our future generations.



#### OUR PURPOSE

We are in business to support our clients' sustainability goals and facilitate their social license to operate.

By providing business stability through environmental sustainability, protecting the natural environment is at the core of everything we do.



#### OUR PROMISE

FROSKR is committed to helping our clients become environmental stewards by:

- achieving and maintaining compliance
- mitigating risks
- protecting our planet through environmentally responsible operations

Offering both **environmental services** and **innovative technologies** means we can tailor solutions to the complex environmental challenges our clients face.



### CONSULTING SERVICES

- Permitting
- Stakeholder Engagement
- Environmental Baseline Studies
- Closure Planning and Financial Assurance
- Environmental Monitoring
- Progressive Reclamation
- Demolition Cost Estimating



### ENVIRONMENTAL TECHNOLOGY

#### HyLoENVIRO™

Provides clients with real-time monitoring solutions and data interpretation, including for air, water, dams, meteorology, etc.

#### RenixUIX™

Provides clients with effective, efficient and sustainable tools that transform the way things are captured, separated, and purified.





# **System Overview and History**

Formerly known as:



**AQM - Air Quality Monitoring**

# HYLO<sup>TM</sup> ENVIRO

POWERED BY FROSKR

**HyLoENVIRO<sup>TM</sup>** is a continuous environmental monitoring system (CEMS) that offers a variety of options for acquiring and distributing real-time data to various stakeholders including operators, regulators, and local communities.



## Project Highlights

In 2005, our clients were looking for an innovative web-based ambient air monitoring system that provided accurate real-time data to each organization. This unique challenge offered the foundation for a very long-standing partnership between many stakeholders.



Ontario Ministry of the Environment,  
Conservation and Parks



## Project Highlights

- 18 SO<sub>2</sub> Stations, 3 Meteorological Towers & 1 Mobile Unit
- At the time, the largest SO<sub>2</sub> Monitoring System in Canada
- Enhanced Productivity & Profitability for our Mining Clients
- Consistent & Reliable Third-Party Data & Monitoring
- Historical Data Access
- Solid-State Collection without Moving Parts or Hard Drives
- Redundant Network Collections
- Alarming Capabilities
- 4 Levels of Data Redundancy
- 24/7 Customer & Emergency Service

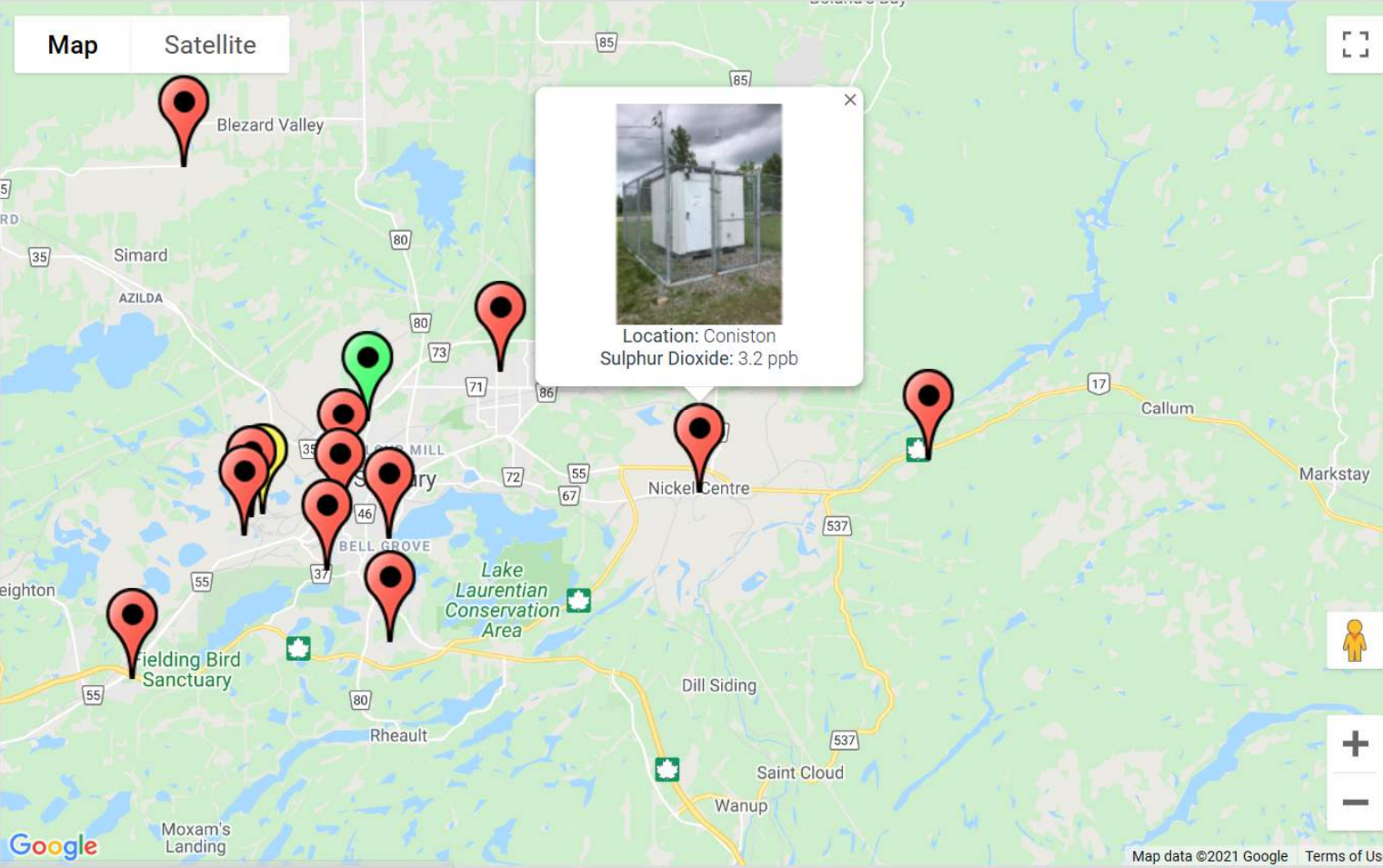
Public Viewing Website: <http://sciencenorth.bestech.com/sciencenorth/>

# Sudbury SO<sub>2</sub> Air Quality Monitoring Network

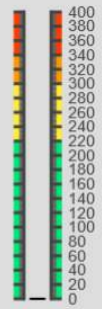
English | Français



SUDBURY  
INTEGRATED NICKEL  
OPERATIONS  
GLENCORE



SO<sub>2</sub>



003.2

Coniston



CKNC

Glencore MET



Map data ©2021 Google Terms of Use

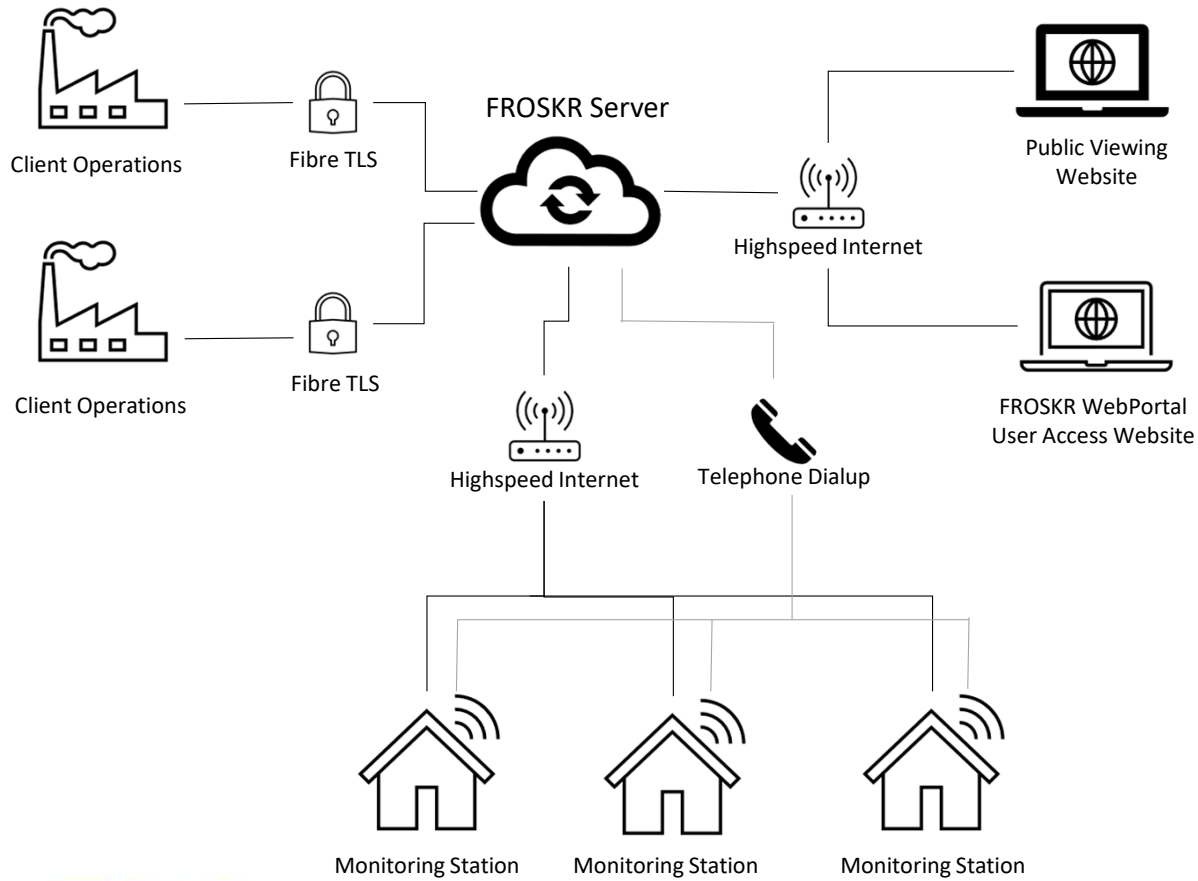
<http://sciencenorth.bestech.com/sciencenorth/stations/Coniston.jpg>



## Sample SO<sub>2</sub> Monitoring Station



# SYSTEM OVERVIEW



# FEATURES

## Flexibility



Unlimited number of users (no CALS) and unlimited number of views (OsiSoft, PI, Aspen, SQL, FTP upload).

Multiple instrument monitoring. Simultaneous monitoring of:

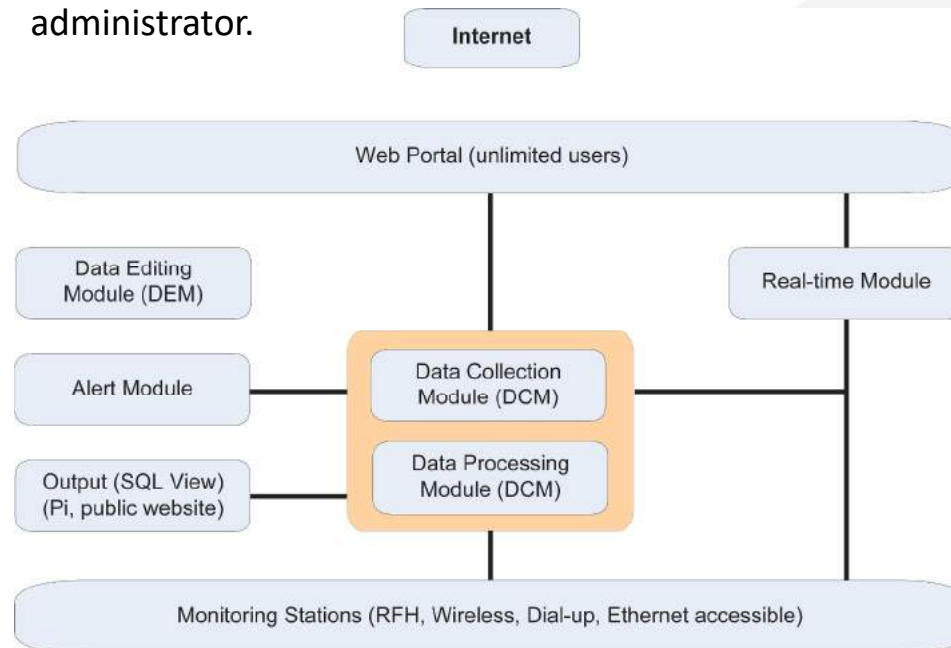
- SO<sub>2</sub>
- NO<sub>x</sub>
- CO
- Particulates
- Wind Speed/Direction
- Temperature
- Relative Humidity
- Barometric Pressure
- Solaradiometric Waves

# FEATURES

## Web-Based Access

Accessible using any browser.

Access privileges can be pre-determined and granted by administrator.



# FEATURES

## Real-Time Alerting



Stakeholders receive SMS and email directly to their phone or web application.

Hierarchical or issue escalation protocols available.

Types of alerts:

- Station Alarms (i.e. temperature, exceedance)
- Communication Errors
- Modem Resets

Multiple levels

- Simple Warning
- Continuous Reminders (until acknowledged)

# FEATURES

## Self-Monitoring & Repair

Independent service monitoring and repair.





# FEATURES

**Remote Access**

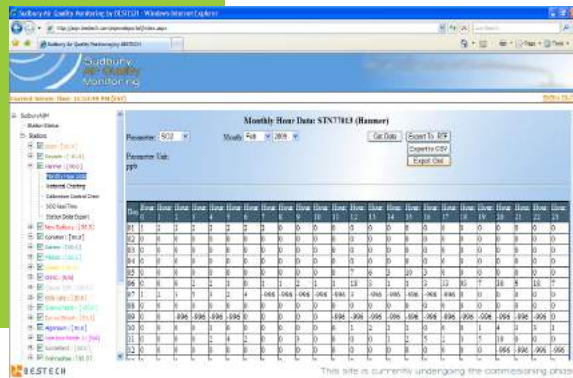
Remote calibration and remote diagnostics.

**Maintenance Portal**

PLC based remote or local access user interface enables servicing mode for repairs or maintenance.

# FEATURES

## Steadfast Data Management



Fully reconcilable data (CF card and RAD source comparison).

- Multiple instrument capabilities
- Simultaneous channel collection
- Automatic back-collection
- Data editing capabilities, Static or Batch (audit history, journalized edit tracking)

## BENEFITS

- Maximized productivity and profitability
- Consistent data collection
- Solid state data collection (no moving parts or hard drive at collection source)

## BENEFITS

- Redundant network connections (RFH, Wireless, Dial up, Ethernet, LTE)
- Alarming capabilities (SMS, email, voice)
- 4 levels of data redundancy (PLC array, CF card, RAD, Internal drive)



# Partnerships and Success

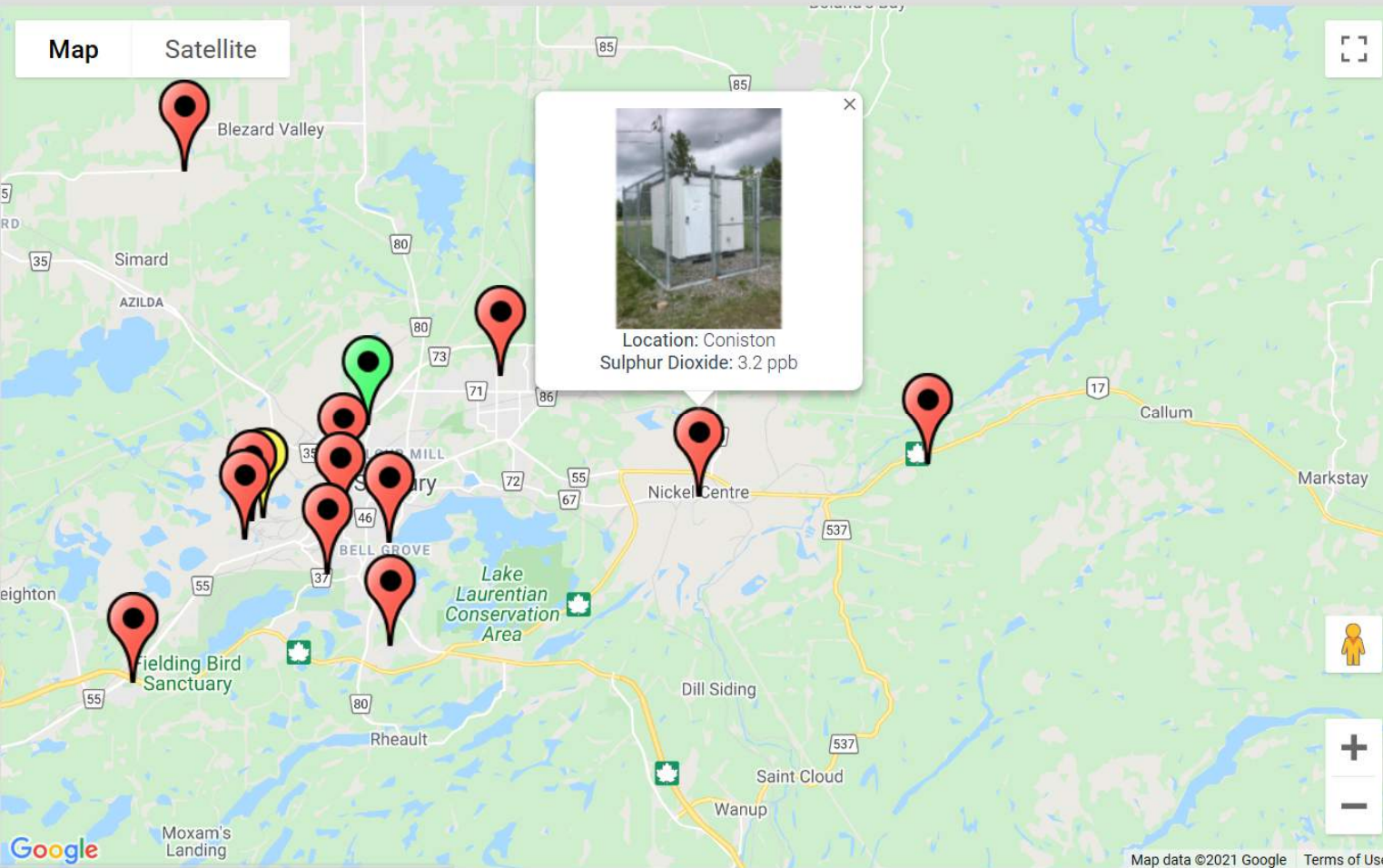
Public Viewing Website: <http://sciencenorth.bestech.com/sciencenorth/>

# Sudbury SO<sub>2</sub> Air Quality Monitoring Network

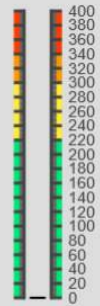
English | Français



SUDBURY  
INTEGRATED NICKEL  
OPERATIONS  
A GLENCORE COMPANY



SO<sub>2</sub>



ppb

003.2

Coniston



CKNC

Glencore MET

<http://sciencenorth.bestech.com/sciencenorth/stations/Coniston.jpg>

Map data ©2021 Google Terms of Use





## Science North

How do weather and air currents can affect  $\text{SO}_2$  concentrations at ground-level? The monitoring station at Science North is the only one out of 18 sulfur dioxide monitoring stations in Greater Sudbury that is accessible to the public.

## Clean Air Sudbury



The Clean Air Sudbury committee celebrated its 20-year anniversary with the mandate to educate people and promote action to improve air quality in Greater Sudbury, Ontario.

Every 5-years the committee supports an updated “Clearing the Air” report. This is completed using information from the Ontario Ministry of the Environment, Conservation and Parks, and the Sudbury Sulphur Dioxide Monitoring Network from Glencore Sudbury INO and Vale, operated by FROSKR.

<https://cleanairsudbury.com/reports-and-presentations/>

## Client Testimonial

“Just as important as the AQM™ System is the service that BESTECH provides us. BESTECH operates and maintains the system, interfaces with the Ministry of Environment and performs the legal reporting necessary. Doing so, as an independent third-party, I believe, provides a higher degree of assurance to all stakeholders.”

Frank Javor, Manager of Environment Air for Vale Inco

## Client Testimonial

“With BESTECH’s AQM System and our company’s attention to due diligence and established processes, we feel better prepared to prevent air quality exceedances because AQM is reliable and effective as it feeds data seamlessly into our systems. In fact, since working with BESTECH and implementing the AQM solution, my involvement with emission-related issues has nearly disappeared.”

Marc Butler, SudburyINO

## **“BESTECH has been named in Aon Hewitt’s list of The Green 30 of 2013.”**

This list recognizes companies whose employees are most positive about their record of environmental stewardship. Bestech ranked as number 27 on this year’s list, which appears in the May 20 issue of Maclean’s magazine.

BESTECH was acknowledged due to its innovative software solutions, NRG1-ECO™ and AQM™. These products were developed to help global mining operations address the challenges related to energy management and air quality monitoring.

## “Taking a breath of fresh northern air.”

Implementing technology such as BESTECH's Air Quality Monitoring (AQM) is helping local mining companies continue to improve how they manage emissions.



## “BESTECH – High Tech with High Community Commitment.”

BESTECH has been involved in ventilation on demand projects at mines and energy management projects as well as environmental innovations. It produces products which monitor and minimize human impact on the environment.



## “Staying ahead of legislative emissions curve.”

Frank Javor, Vale’s manager for environment, air, for Ontario operations, said the monitoring is an essential tool to the company’s emissions reduction program.

“For us, the data is very important, not just from the legal perspective, but we use the information, as does Xstrata, in real time to control the operations of our smelter,” he said. “So to make sure that we don’t have an elevated concentrated level of sulphur dioxide in the community.”

## “Sudbury-based Air Quality Monitoring System was recently purchased by the Iron Ore Company of Canada and will be commissioned in June at its Labrador City operations.”

The AQM System provides Xstrata Nickel's smelting operations with real-time data, which allows the company to react and adjust production levels, ensuring legislative emission compliance. Data from the AQM System is fed directly into Xstrata's smelter SO2 modelling systems. This allows the company to accurately predict its emission levels.

"The ability to rely on the real-time data and know that it's accurate, reliable and that we can increase or reduce output at different times of the day's production is very valuable," said Xstrata's environment superintendent Marc Butler.



**The Future**

**HYLO**<sup>TM</sup>  
**ENVIRO**  
POWERED BY **FROSKR**



**CONFIDENT**

Monitor in Real-Time

**COMPLIANT**

Reliable Environmental Data

**PROFITABLE**

Creating the Optimal Business Environment





FROSKR

**Confident. Compliant. Profitable.**

**Take the leap!**

[Adam.Cecchetto@FROSKRcorp.com](mailto:Adam.Cecchetto@FROSKRcorp.com)

[Kati.McCartney@FROSKRcorp.com](mailto:Kati.McCartney@FROSKRcorp.com)