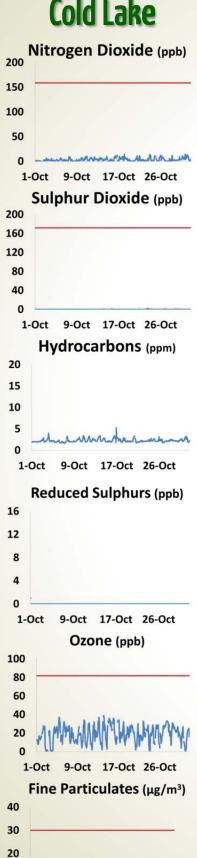
Air Quality Monitoring DASHBOARD REPORT





Continuous Monitoring Stations

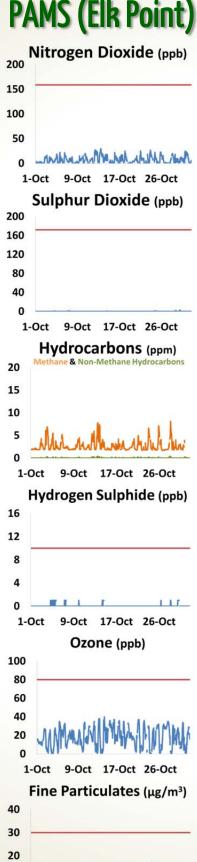
Cold Lake



10

1-Oct

PAMS (Elk Point)



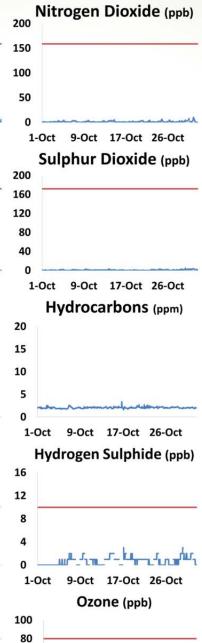
10

1-Oct

9-Oct 17-Oct 26-Oct

9-Oct 17-Oct 26-Oct

St. Lina



9-Oct 17-Oct 26-Oct

9-Oct 17-Oct 26-Oct

Fine Particulates (µg/m³)

60

40

20

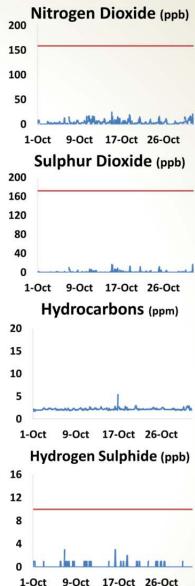
40

30

20 10

1-Oct

Maskwa



- Air quality was rated as "Low Risk" over 90% of the time at the Cold Lake, St. Lina, and portable monitoring stations.
- In this series of charts, the blue line indicates the pattern of measurements over a onemonth period; the red line indicates the applicable Alberta Ambient Air Quality Objective (AAAQO) established for the respective parameter.
- matter analyzer was 87% at the Cold Lake station. Data were corrected using the ESRD protocol which resulted in 95 hours of data being discarded due to negative values (Reference #277547).

Notable observations for Oct 2013:

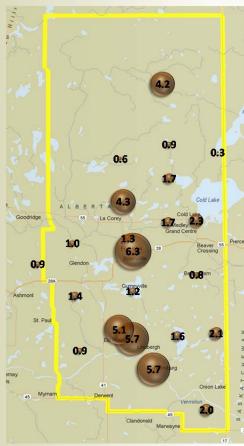
- - The operational uptime for the particulate

Passive Monitoring Stations

This series of bubble maps present monthly average concentrations in parts per billion (ppb).

Displaying data this way illustrates the spatial patterns of the parameters monitored in the LICA passive monitoring network.

Nitrogen Dioxide



Minimum-Maximum-Average (ppb)
Monthy Nitrogen Dioxide: 2011 - 2012

• Average • October 2013

10

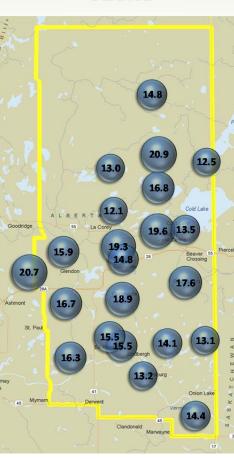
5

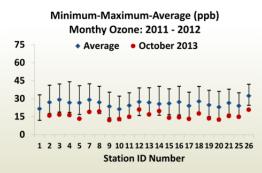
0

12 3 4 5 7 8 9 1011 1213 1415 1617 1819 2021 25 26

Station ID Number

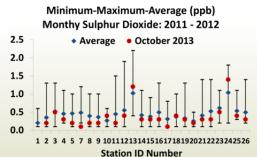
Ozone





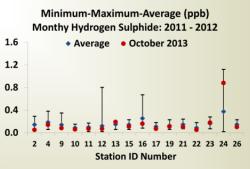
Sulphur Dioxide





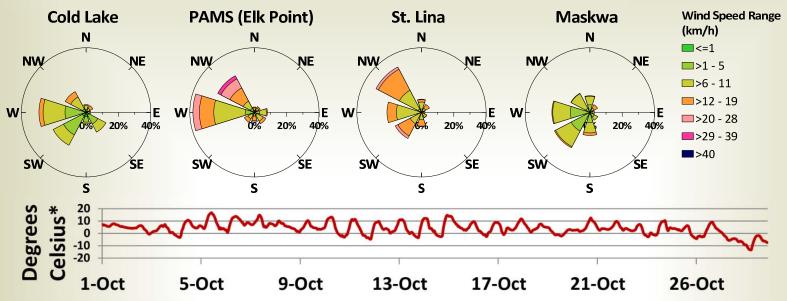
Hydrogen Sulphide





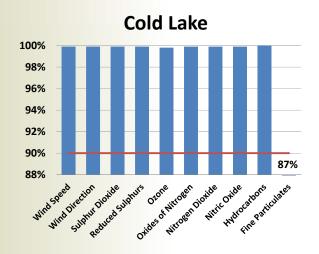
Wind Speed, Wind Direction, Temperature

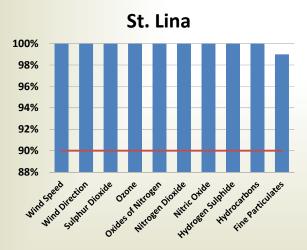


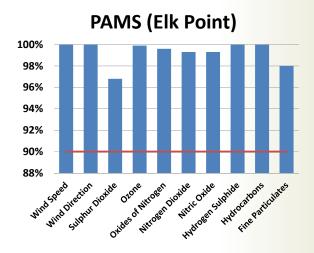


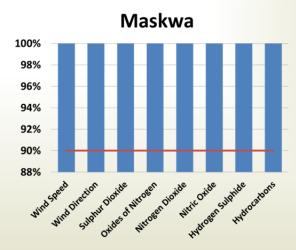
* Temperature in Cold Lake

Operational Uptime









Notes on instrument uptime: The Alberta Air Monitoring Directive (1989) requires that real time instrumentation must be operational at least 90% of the time on a monthly basis (indicated by the red line on the above charts). The operational uptime for the particulate matter analyzer was 87% at the Cold Lake station. Data were corrected using the ESRD protocol which resulted in 95 hours of data being discarded (Reference #277547).

Regional Monitoring Network Map





Passive Monitor: Sulphur Dioxide



Passive Monitor:





Passive Monitor:

Nitrogen Dioxide



Passive Monitor:

Hydrogen Sulphide



Continuous Monitor:

Sulphur Dioxide, Hydrogen Sulphide, Oxides of Nitrogen, Total Hydrocarbons, Meteorology



Continuous Monitor:

Sulphur Dioxide, Hydrogen Sulphide, Oxides of Nitrogen, Ozone, Methane/Non-Methane Hydrocarbons, Particulate Matter, Meteorology



Continuous Monitor:

Sulphur Dioxide, Hydrogen Sulphide, Oxides of Nitrogen, Ozone, Total Hydrocarbons, Particulate Matter, Meteorology



Continuous Monitor:

Sulphur Dioxide, Total Reduced Sulphurs, Oxides of Nitrogen, Ozone, Total Hydrocarbons, Particulate Matter, Meteorology



Polycyclic Aromatic and Speciated Hydrocarbons:

Routine 1-in-6 Day Samples



Polycyclic Aromatic and Speciated Hydrocarbons:

Routine 1-in-6 Day Samples High Non-Methane Hydrocarbon Triggered Samples



Soil Acidification Monitoring Plot:

pH, Soil Texture, Electrical Conductivity, Soluble Ions, Cation Exchange Capacity - Buffered,/Unbuffered, Exchangeable Cations, Total Carbon, Total Nitrogen, Total Sulphur, Available Ammonium, Available Nitrates, Available Phosphorous



Station Identification

- Sand River
- 2 Therien
- 3 Flat Lake
- Lake Eliza
- Telegraph Creek
- Muriel-Kehewin
- Dupre

- La Corey
- Wolf Lake 10
- 11 Foster Creek
- Primrose
- 13 Maskwa
- 14 Ardmore
- Frog Lake

- Clear Range
- 17 Fishing Lake
- 18 Beaverdam
- 19 Cold Lake South
- 20 Medley-Martineau

Burnt Lake

- 21 Fort George

- Mahihkan
- 24 Hilda Lake
- 25 Town of Bonnyville
- St. Lina
- 27 **Portable Station**

