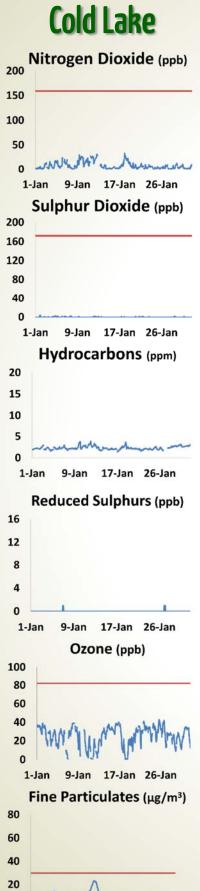
Air Quality Monitoring DASHBOARD REPORT





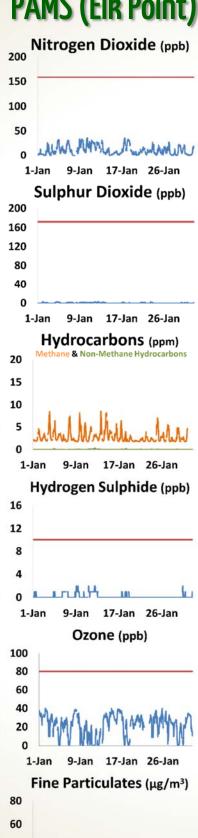
Continuous Monitoring Stations



9-Jan

17-Jan 26-Jan

PAMS (Elk Point)



40

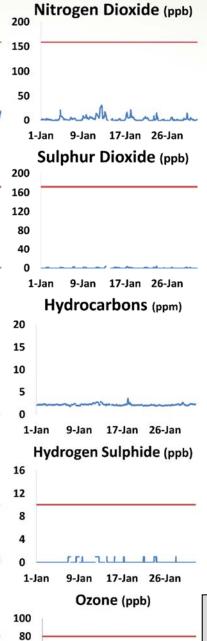
20

1-Jan

9-Jan

17-Jan 26-Jan

St. Lina



60

40

20

80

60

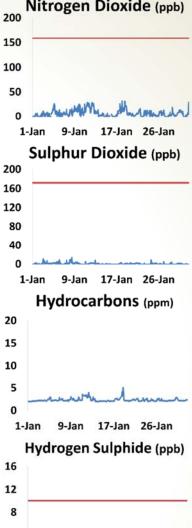
40

20

9-Jan

17-Jan 26-Jan

Maskwa



Notable observations for Jan 2015:

17-Jan 26-Jan

9-Jan

- Air quality was rated as "Low Risk" over 80% 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.

9-Jan 17-Jan 26-Jan Fine Particulates (µg/m³)

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 - 2014

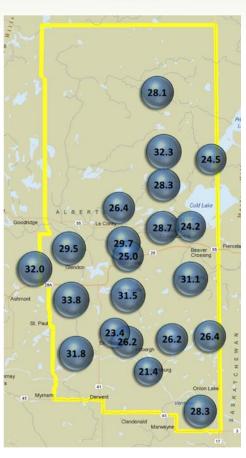
Average
 January 2015

Station ID Number

15

10

Ozone



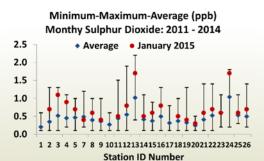
1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 25 26

Station ID Number

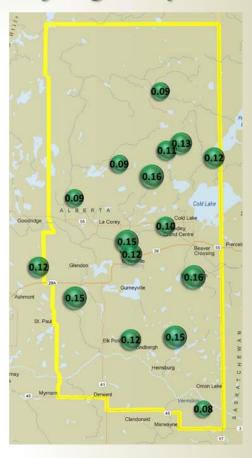
Minimum-Maximum-Average (ppb)

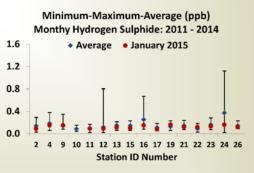
Sulphur Dioxide





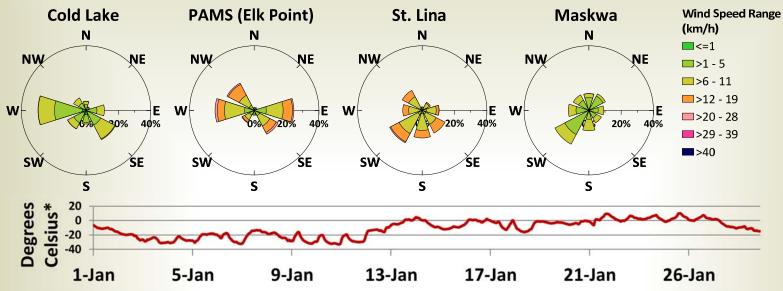
Hydrogen Sulphide





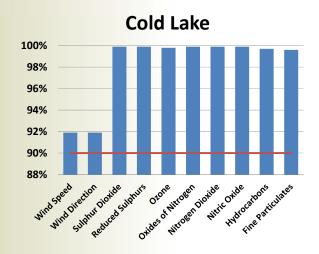
Wind Speed, Wind Direction, Temperature

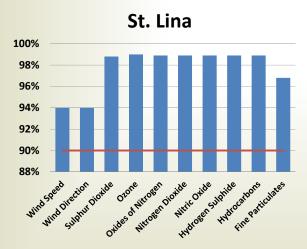


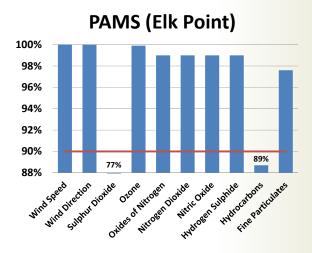


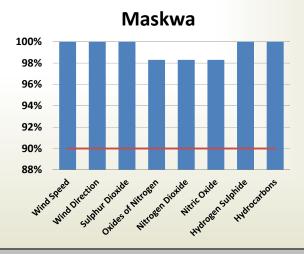
* Temperature in Cold Lake

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). Following a power failure, the PAMS's sulphur dioxide analyzer was unstable and the flame ionization detector (FID) in the hydrocarbon analyzer 'flamed out'. Once servicing of the sulphur dioxide analyzer and relighting of the FID were complete, the analyzers were brought back online however approximately 80 hours of data were invalidated for both instruments due to this the power failure event. Reference #294885.

Regional Monitoring Network Map





Passive Monitor: Sulphur Dioxide



Passive Monitor:

Ozone



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

- 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**

