

Air Quality Monitoring DASHBOARD REPORT

October 2013



Continuous Monitoring Stations

October
2013

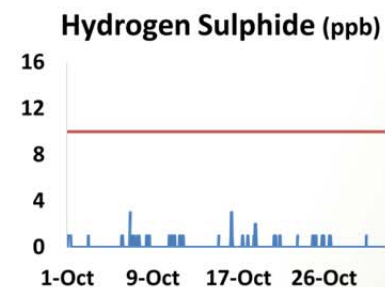
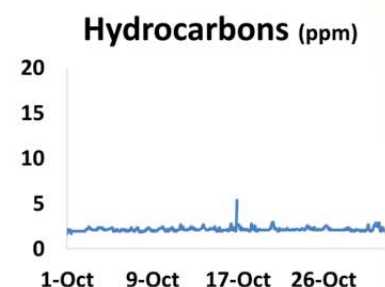
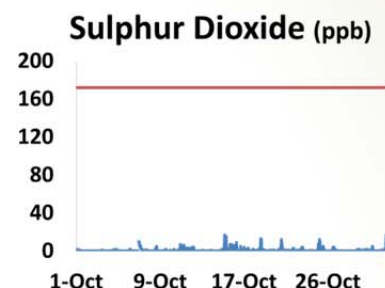
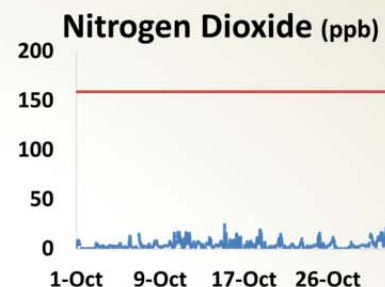
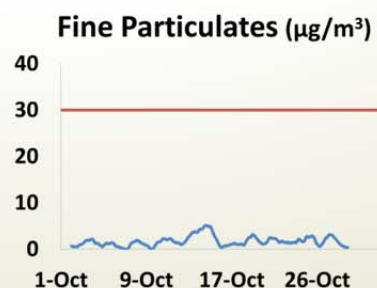
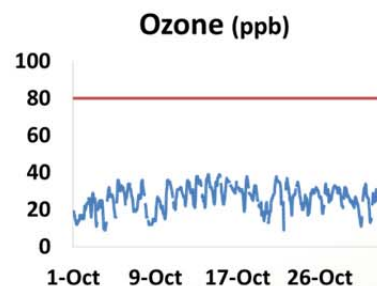
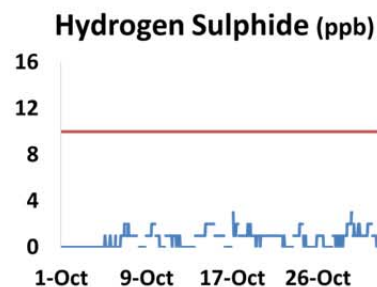
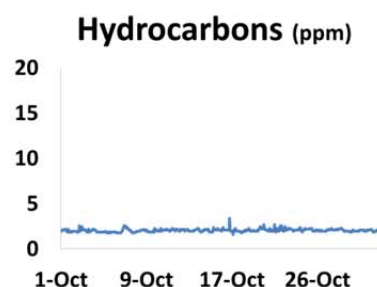
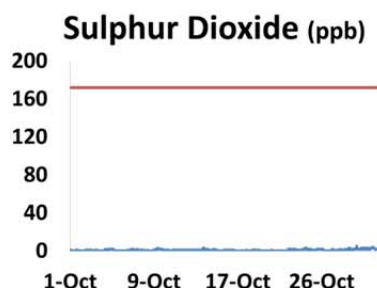
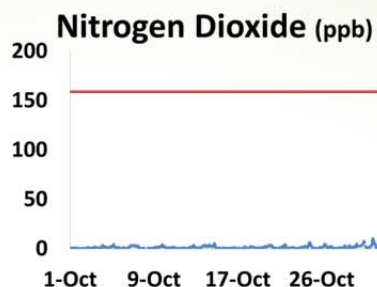
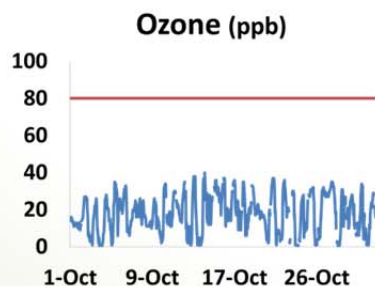
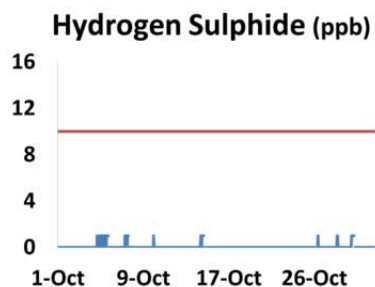
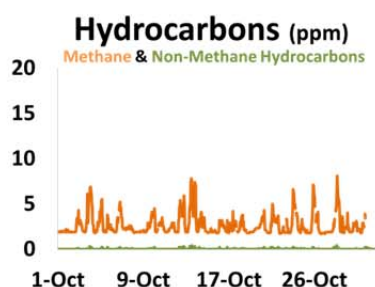
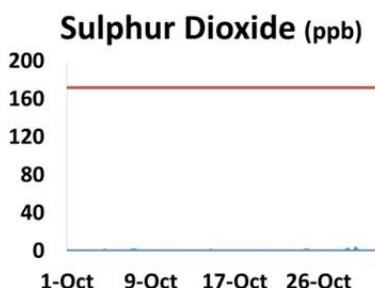
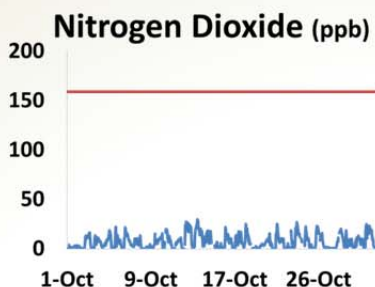
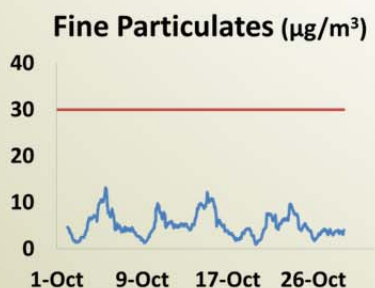
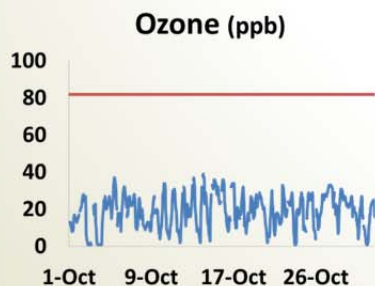
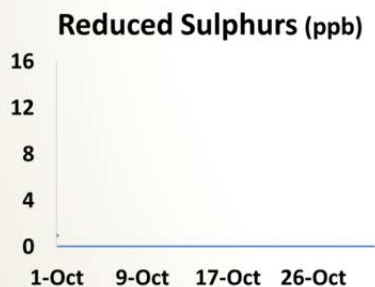
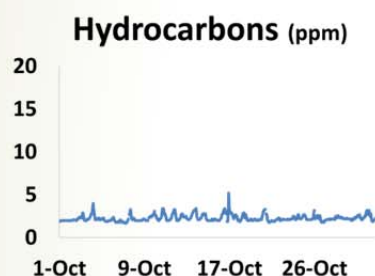
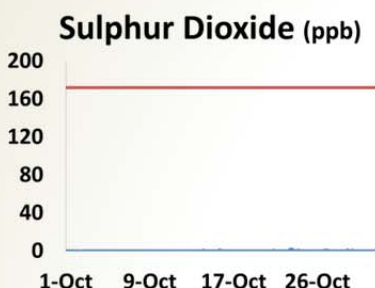
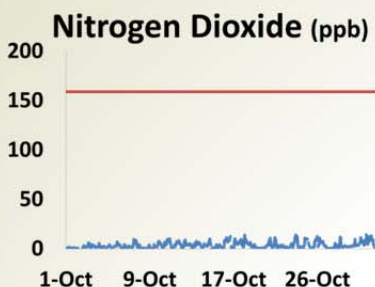


Cold Lake

PAMS (Elk Point)

St. Lina

Maskwa



Notable observations for Oct 2013:

- 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 one-month period; the red line indicates the applicable Alberta Ambient Air Quality Objective (AAAQO) established for the respective parameter.
- 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 due to negative values (Reference #277547).

Passive Monitoring Stations

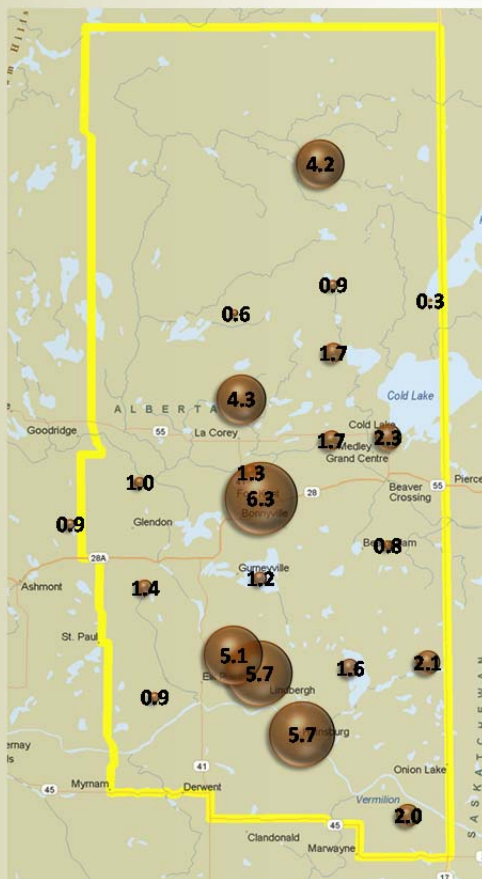
October
2013



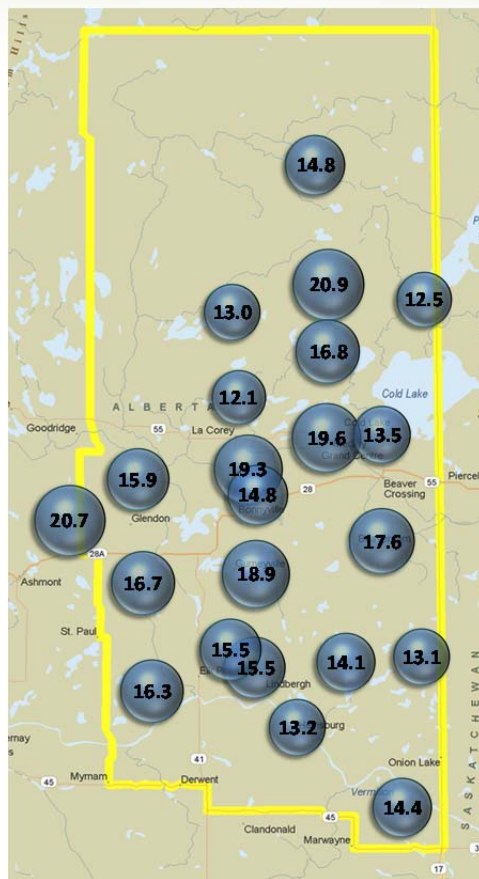
This series of bubble maps present monthly average concentrations in parts per billion (ppb).

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

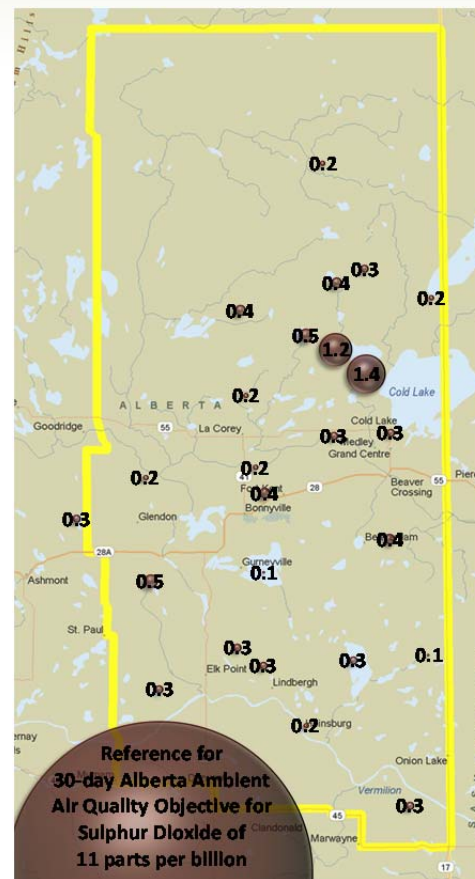
Nitrogen Dioxide



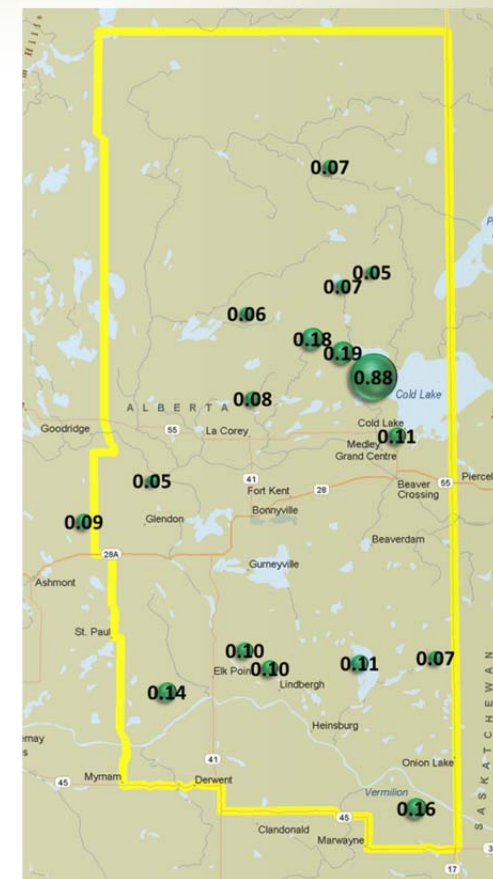
Ozone



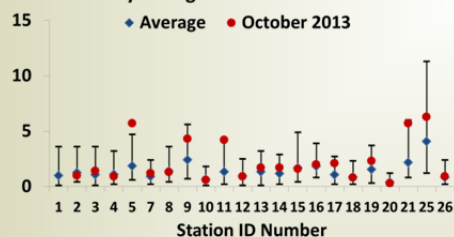
Sulphur Dioxide



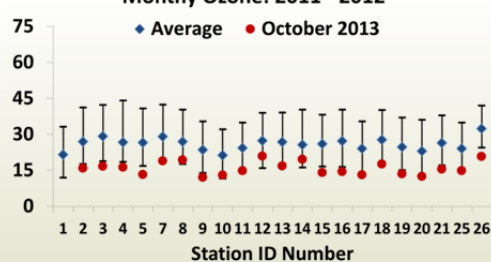
Hydrogen Sulphide



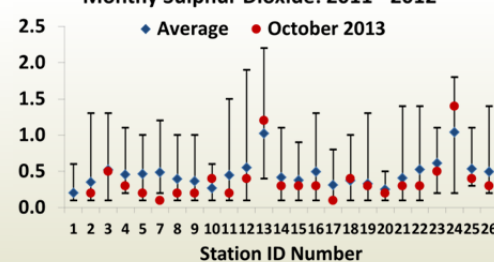
Minimum-Maximum-Average (ppb)
Monthly Nitrogen Dioxide: 2011 - 2012



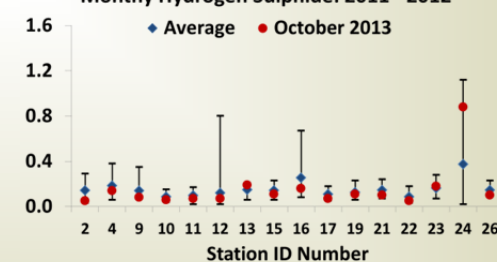
Minimum-Maximum-Average (ppb)
Monthly Ozone: 2011 - 2012



Minimum-Maximum-Average (ppb)
Monthly Sulphur Dioxide: 2011 - 2012

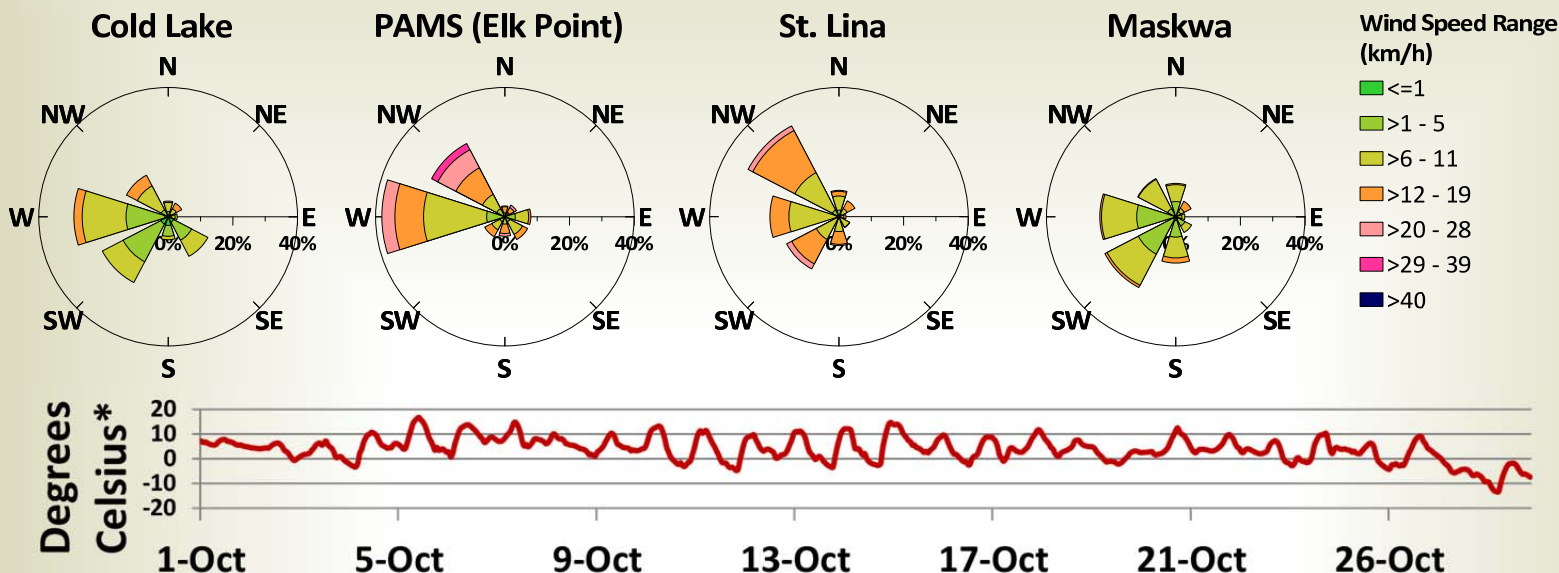


Minimum-Maximum-Average (ppb)
Monthly Hydrogen Sulphide: 2011 - 2012



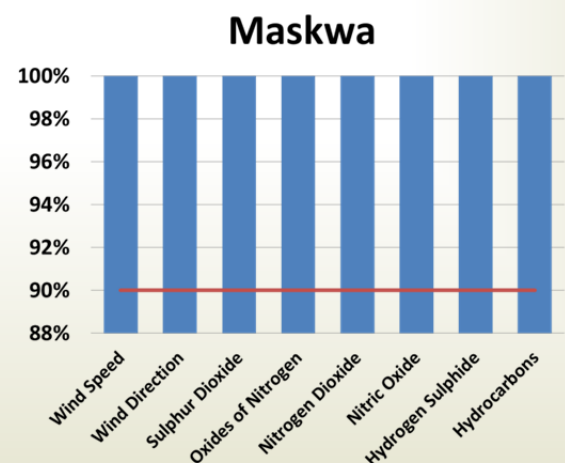
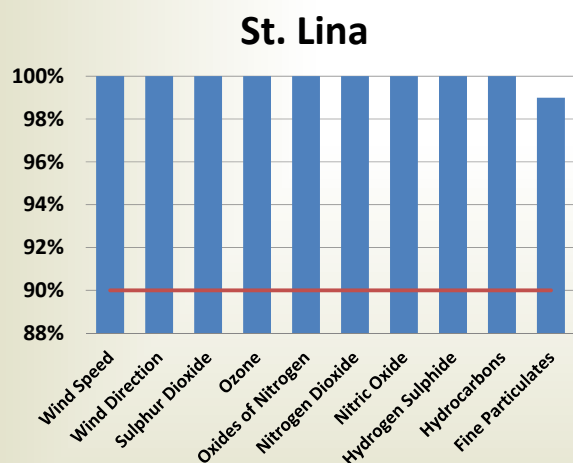
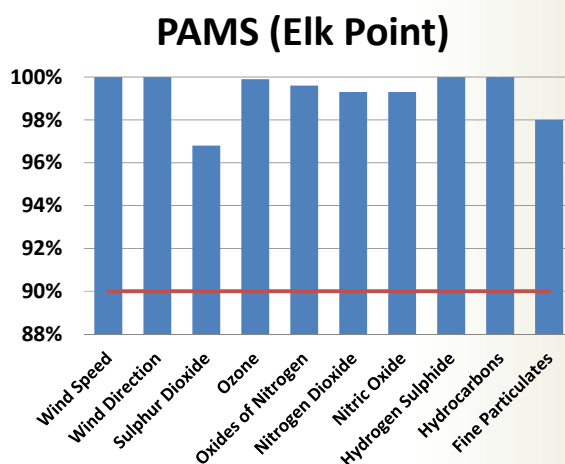
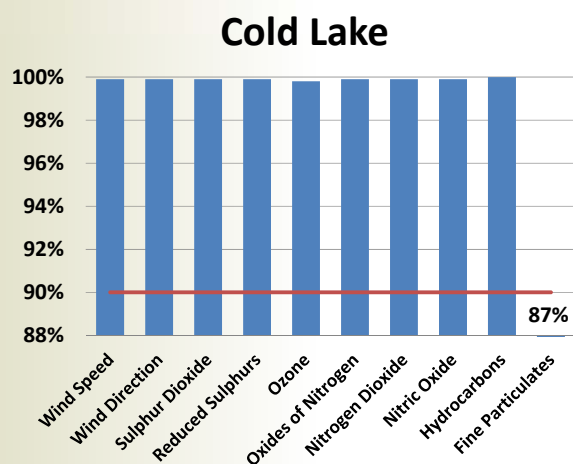
Wind Speed, Wind Direction, Temperature

October
2013



* Temperature in Cold Lake

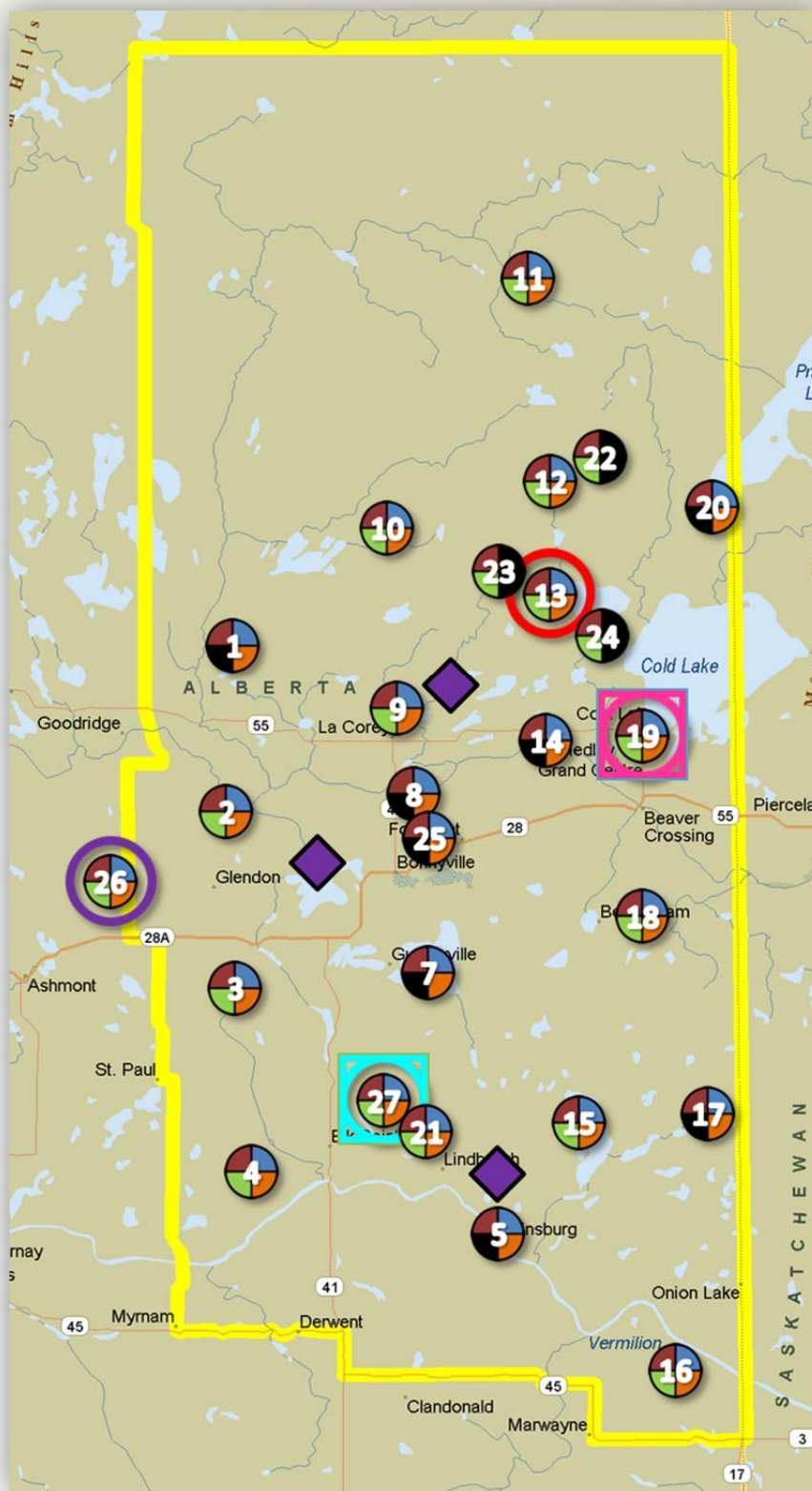
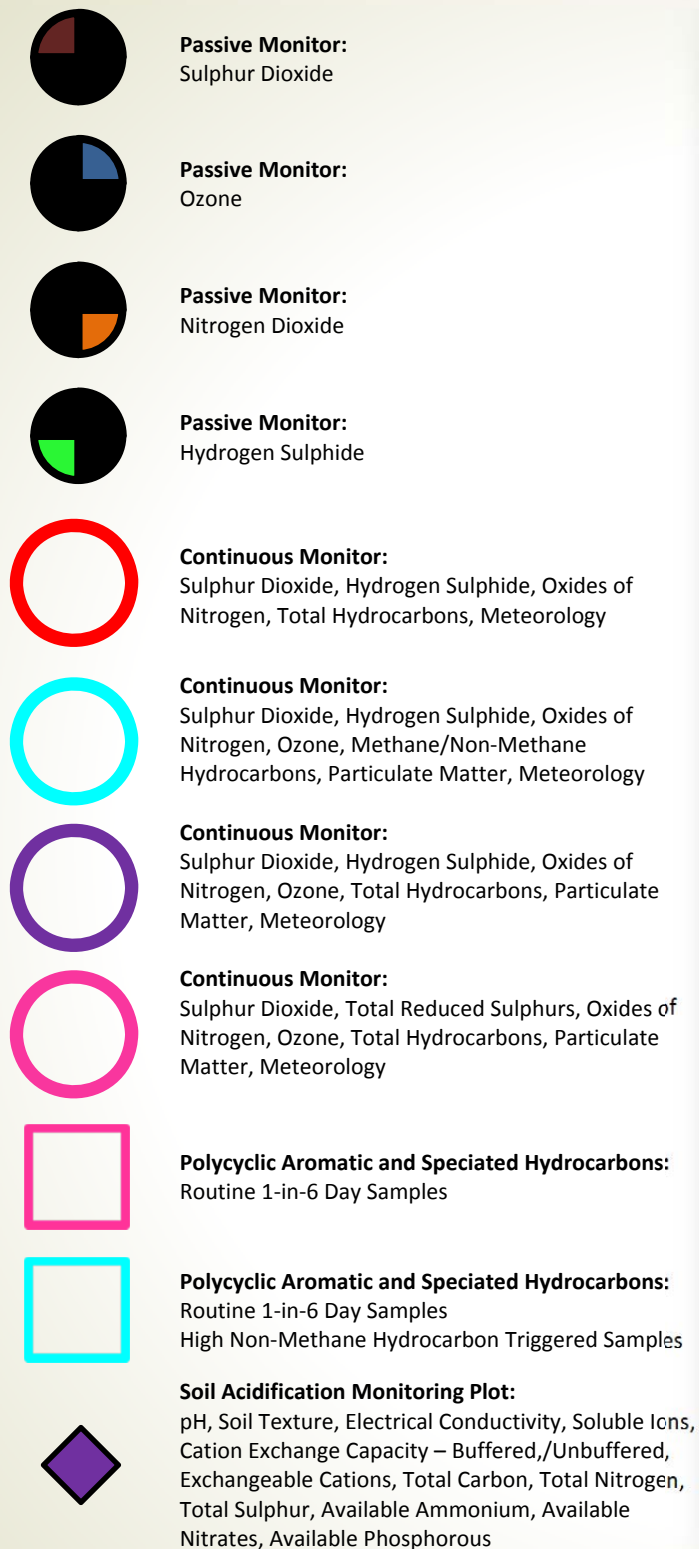
Operational Uptime



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

October
2013



Station Identification

1 Sand River	9 La Corey	16 Clear Range	23 Mahihkan
2 Therien	10 Wolf Lake	17 Fishing Lake	24 Hilda Lake
3 Flat Lake	11 Foster Creek	18 Beaverdam	25 Town of Bonnieville
4 Lake Eliza	12 Primrose	19 Cold Lake South	26 St. Lina
5 Telegraph Creek	13 Maskwa	20 Medley-Martineau	27 Portable Station
7 Muriel-Kehewin	14 Ardmore	21 Fort George	
8 Dupre	15 Frog Lake	22 Burnt Lake	