





# What is Clean Air Sudbury?

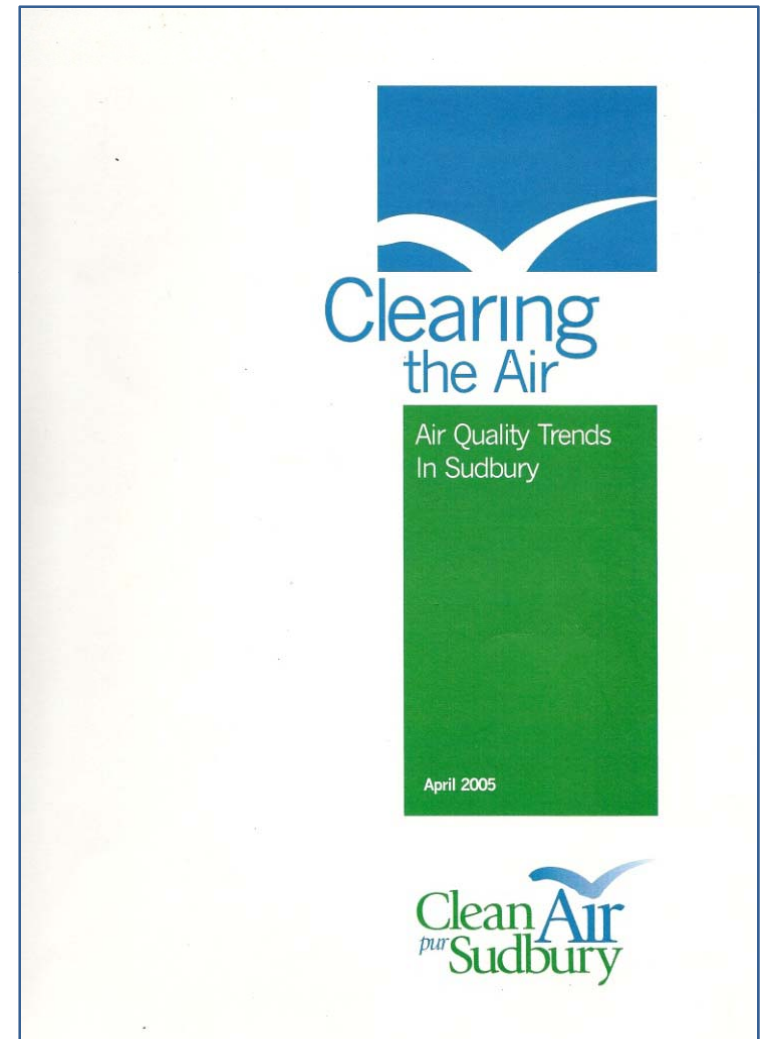
A non-profit community group focused on community air quality issues in Greater Sudbury

- Air quality trends reporting
- Education and awareness
- Community projects

# Air Quality Trends Reporting

1. Trends over time
2. Comparison to ambient air quality criteria
3. Comparison to other Ontario cities

First report: 1953-2002





# Air Quality Trends City of Greater Sudbury (1998-2007)

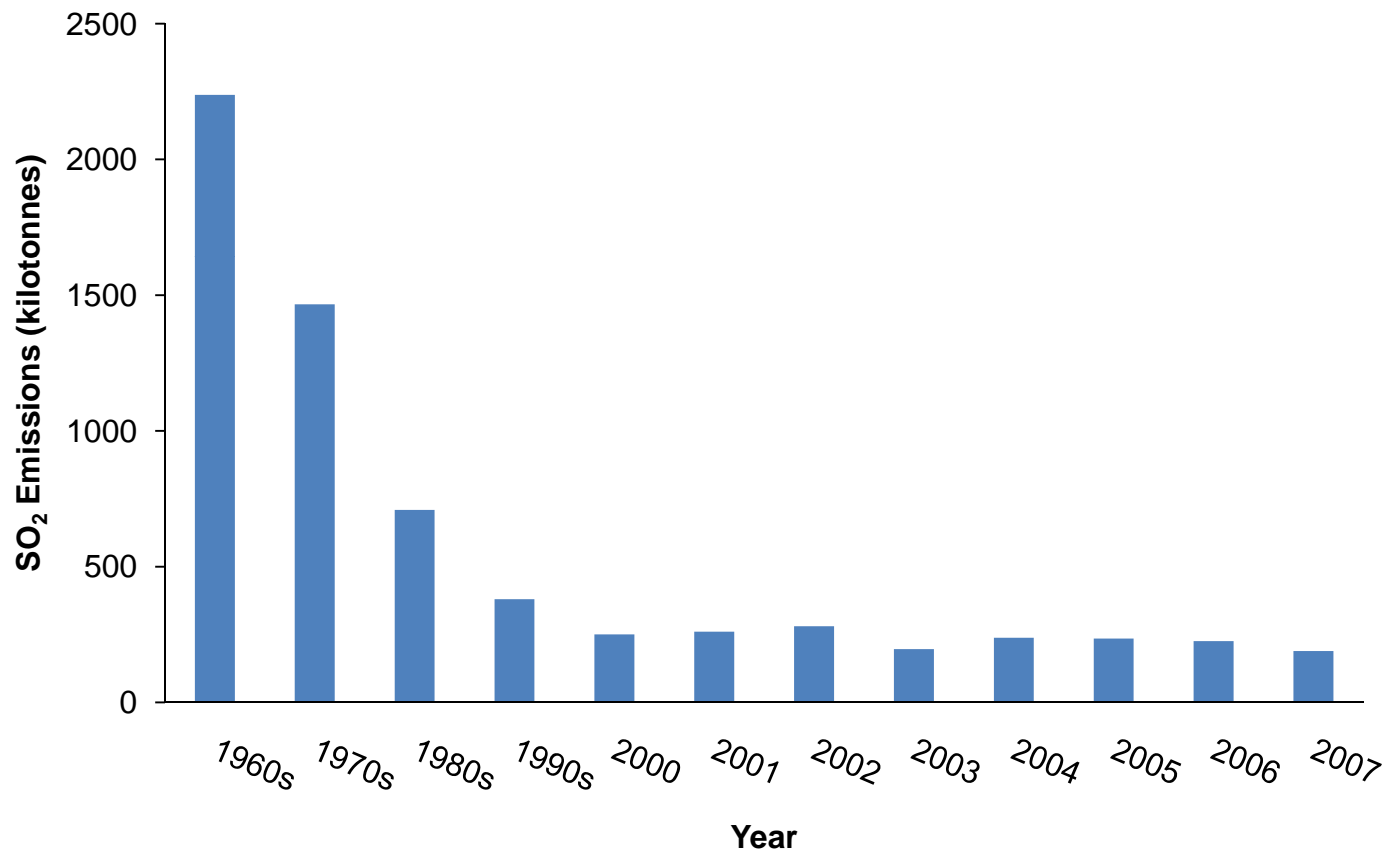
# Air Quality Index

- Greater Sudbury's air was rated as:
  - very good to good 94.1% of the time
  - moderate 5.6% of the time
  - poor 0.2% of the time
  - never rated very poor



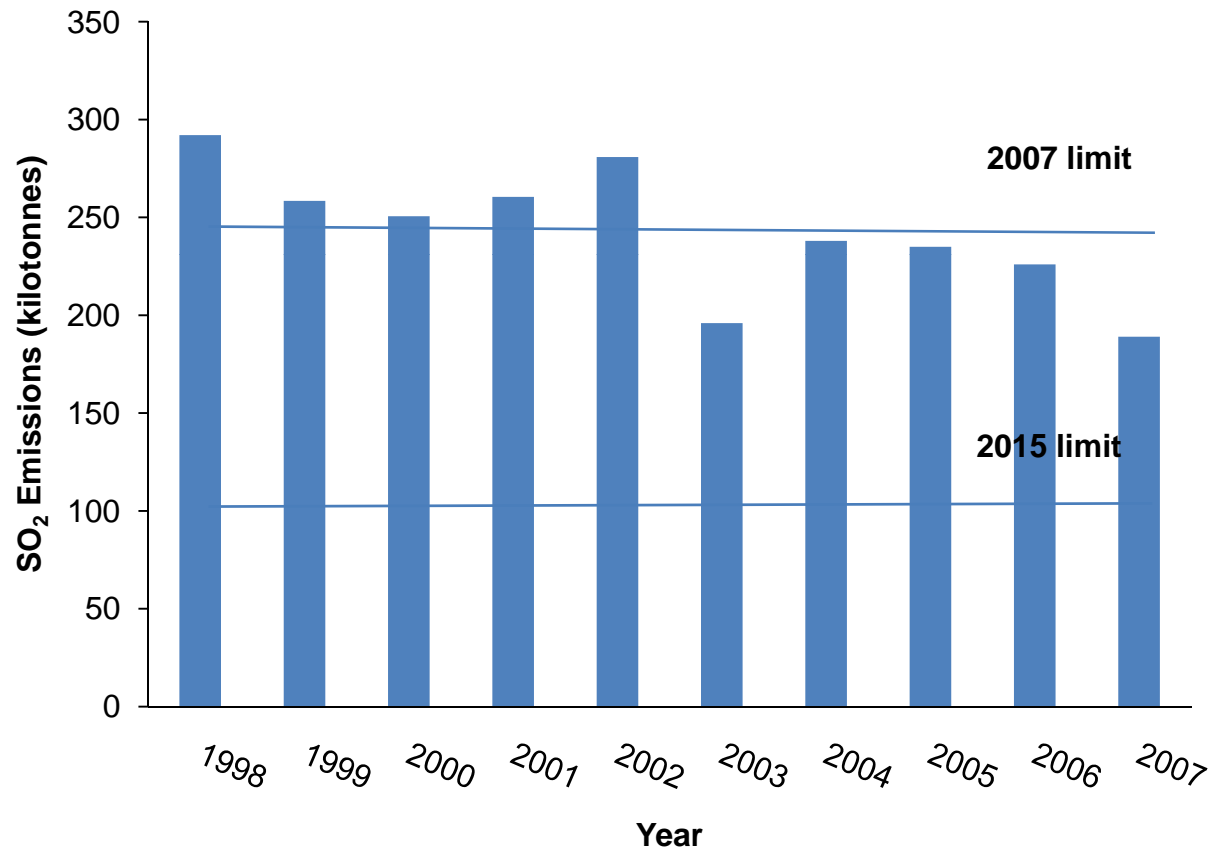
[www.airqualityontario.com](http://www.airqualityontario.com)

# Sulphur Dioxide - Emissions



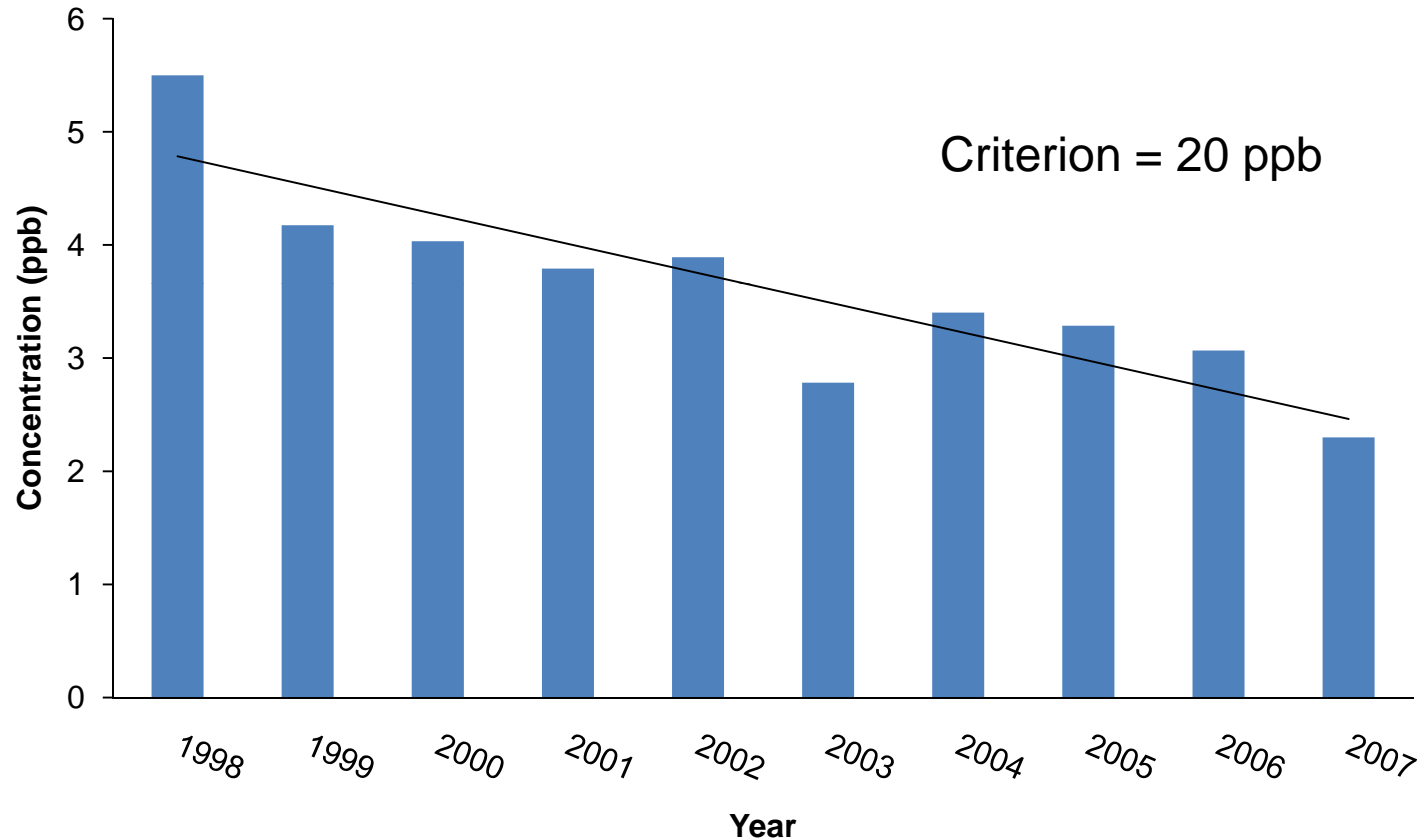
Emissions have been reduced by 93% since 1960

# Sulphur Dioxide - Emissions



Further reductions to meet new 2007 limit

# Sulphur Dioxide – Air Concentrations



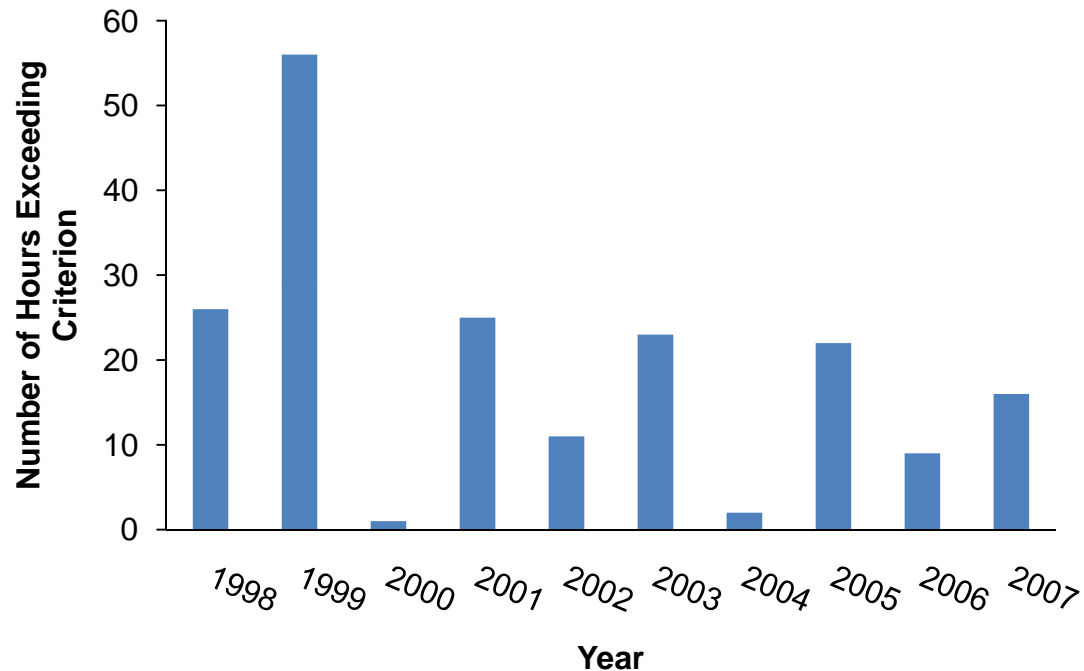
SO<sub>2</sub> concentrations continued to decrease



# Sulphur Dioxide – Exceedences

- *Annual criterion:* **none** since 1976
- *24 hr criterion:* **rare** (once in ten year period at 3 stations)
- *1 hr criterion:* **occasional** (0.03% of the time)

# Ground Level Ozone



Criterion met most of the time, but exceedances every year

Variable depending on weather

Over 50% from long-range transport from U.S.

# Ozone – Exceedences

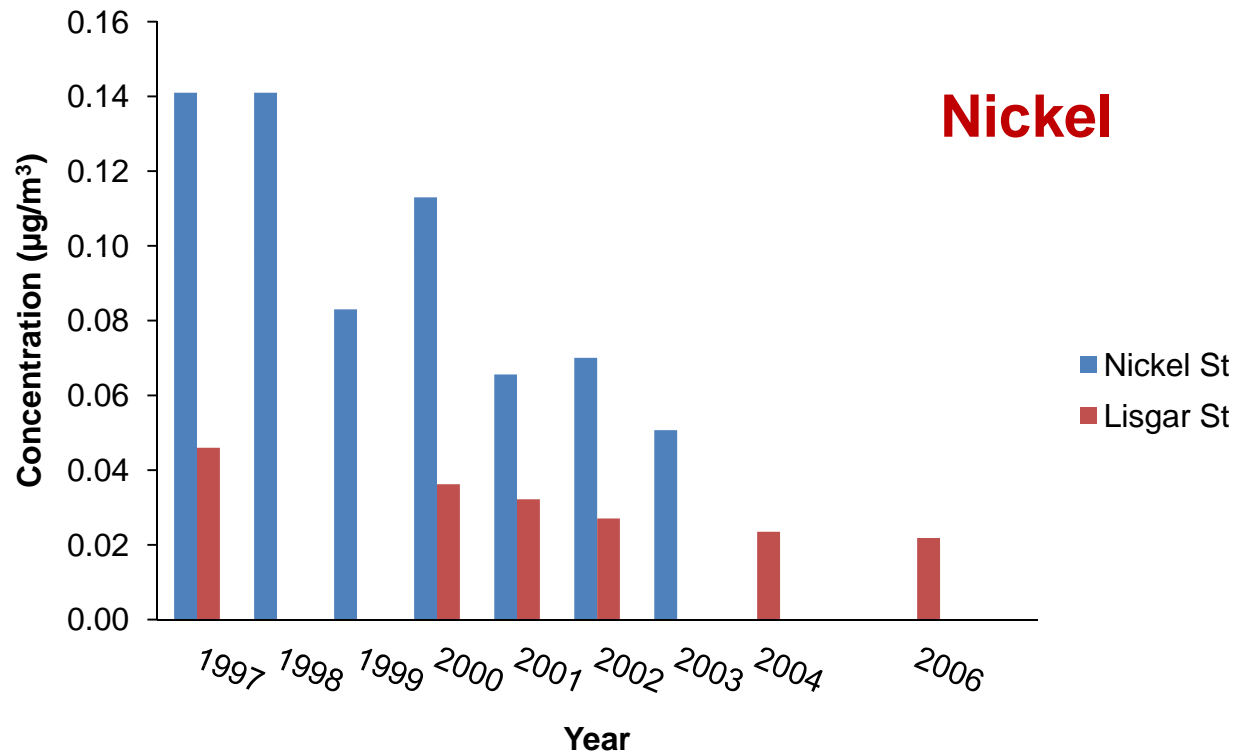
- Canada Wide Standard: **Not Met**
  - Above the standard for 2006 (2004 to 2006), along with 19 of the other 20 cities evaluated by MOE (middle of the group)
  - **Province-wide issue**



# Particulate Matter

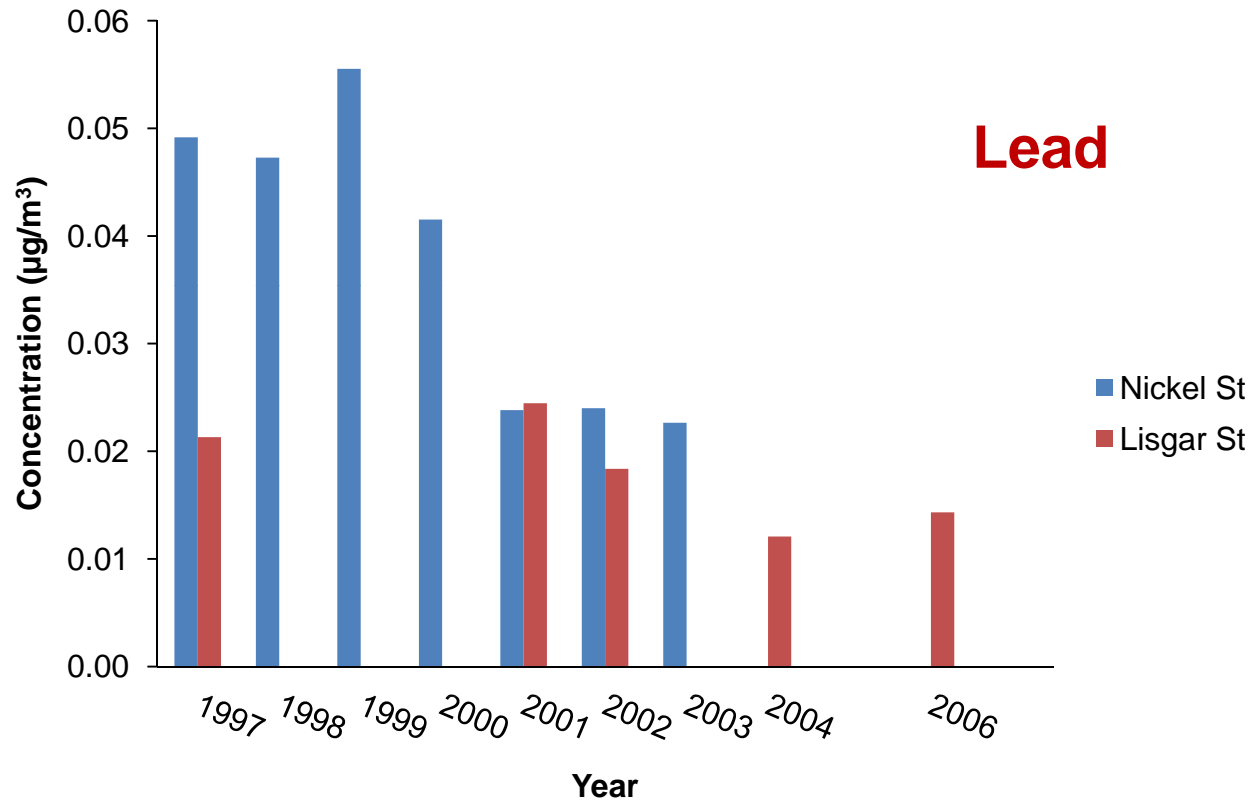
- Tiny particles of dust in the air
- Exceedances:
  - Annual: none
  - 24-hour: 2% of the time
  - Canada Wide Standard: Met (2<sup>nd</sup> lowest of 20 Ontario cities)

# Nickel



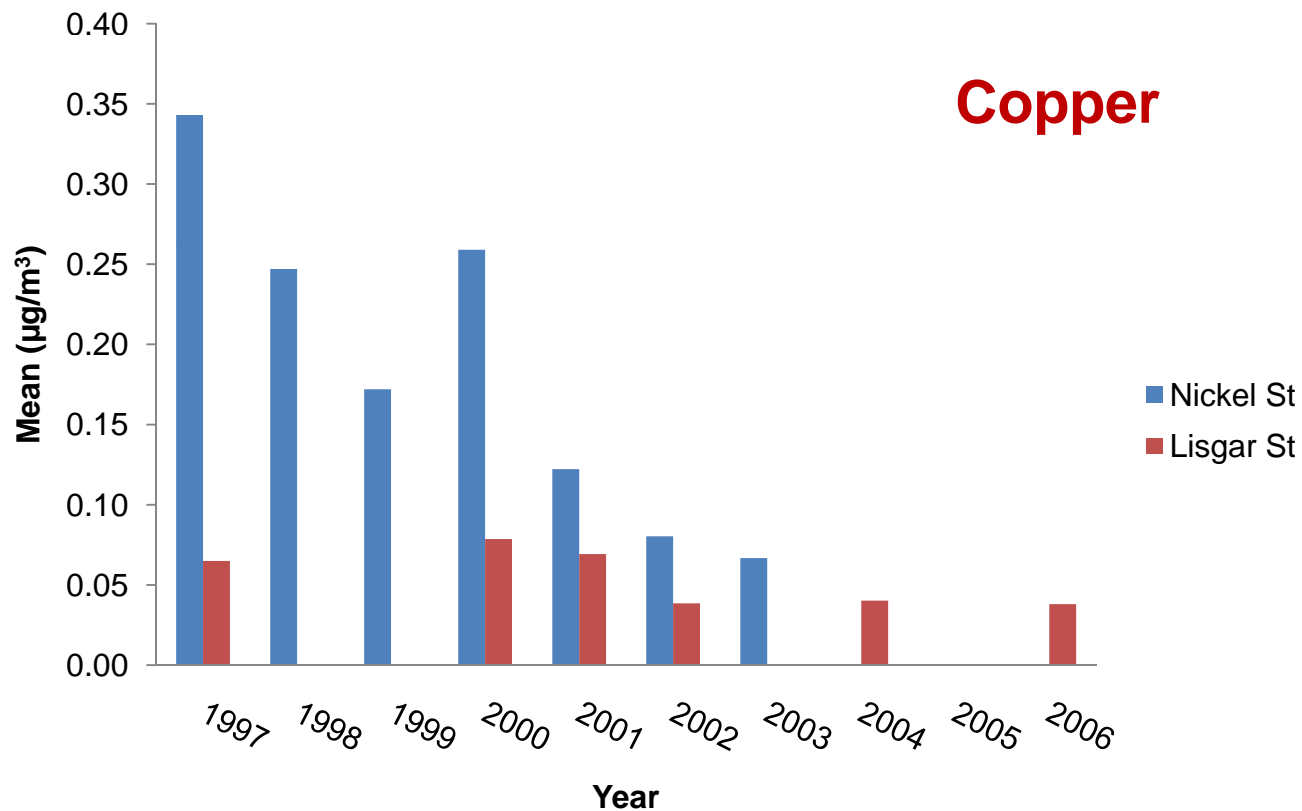
Annual nickel concentrations have decreased  
1-2% exceedance rate (24 hr, near Vale or Xstrata)

# Lead

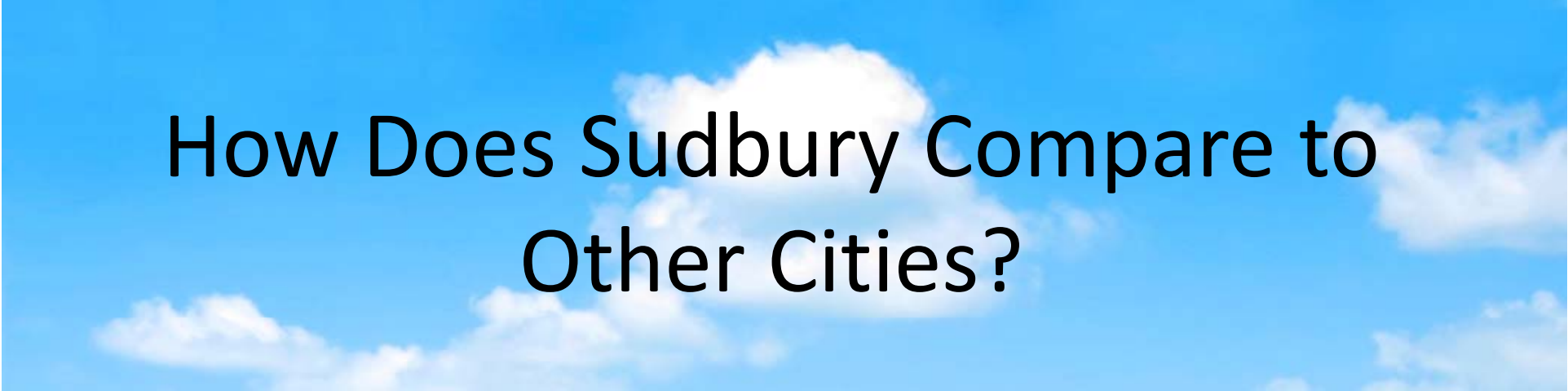


Annual lead concentrations have decreased  
No exceedances

# Copper

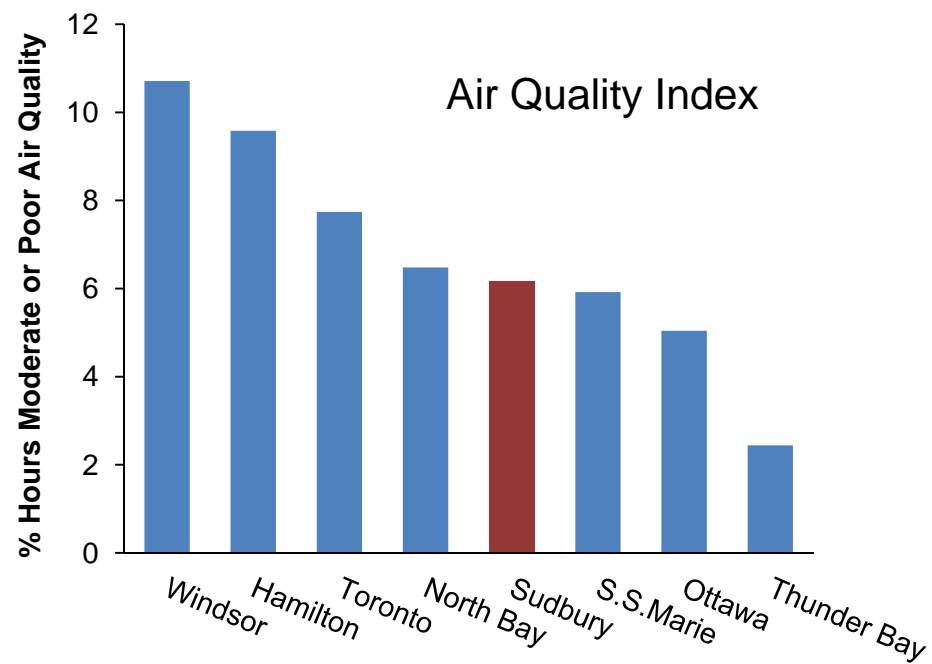
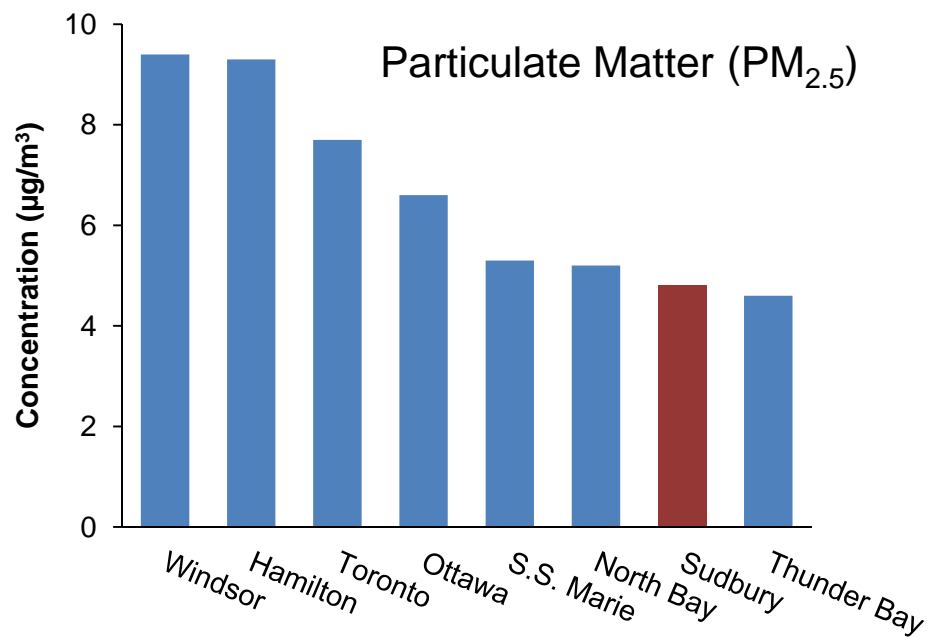
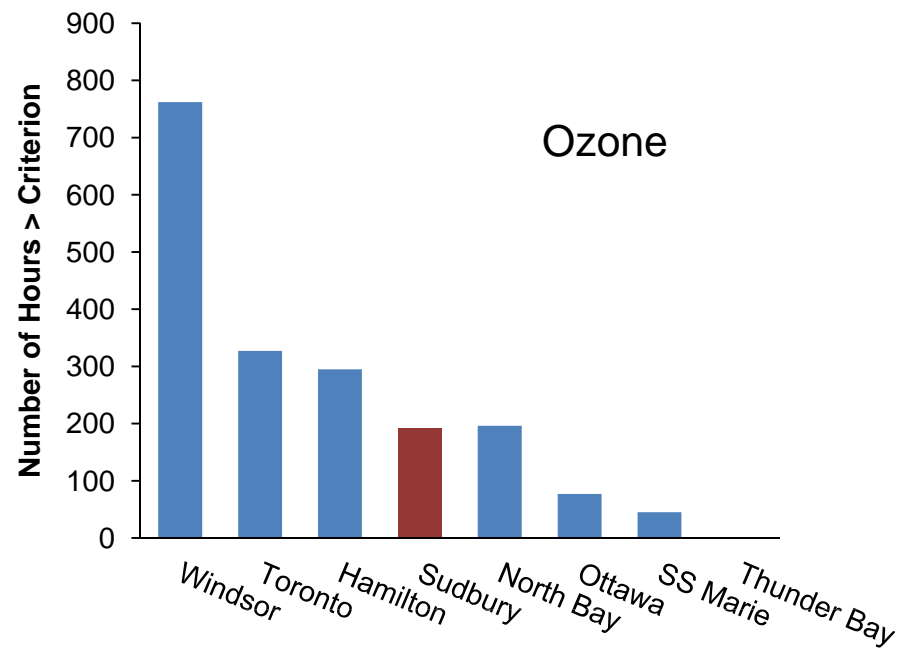
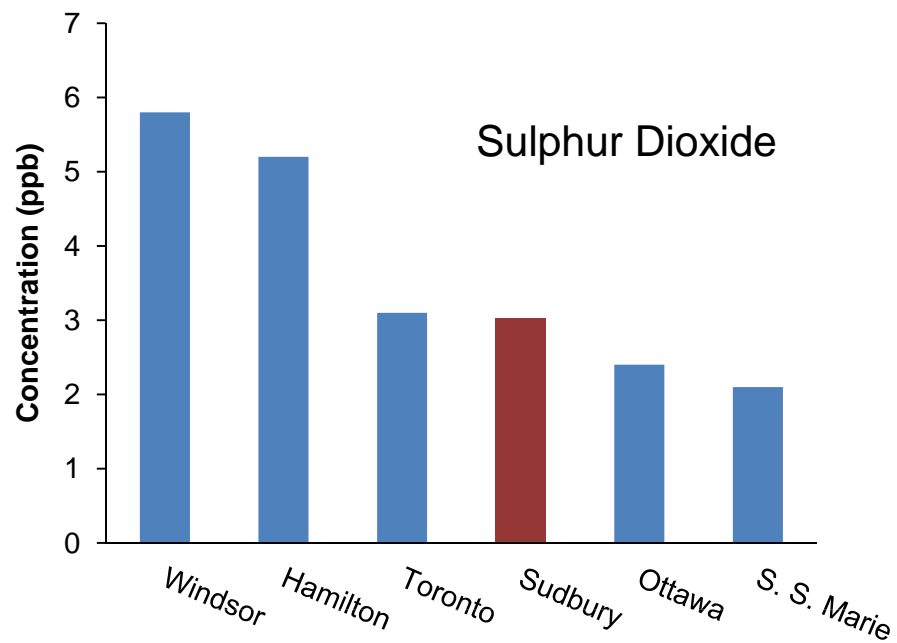


Annual copper concentrations have decreased  
No exceedances



# How Does Sudbury Compare to Other Cities?







THANK YOU