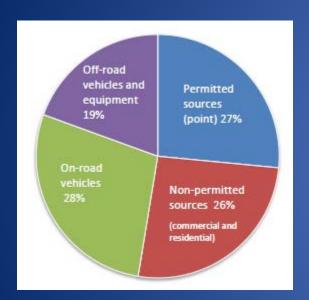
Minneapolis Air Quality

Using data to focus our inspections, maintain compliance, and engage the community

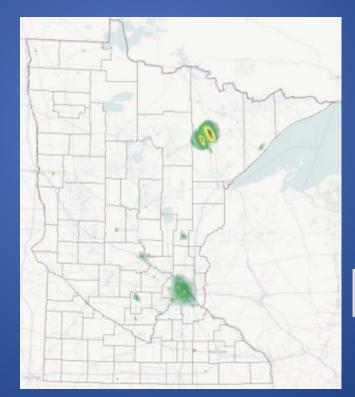


Katie Koelfgen
Manager, Land and Air Compliance

Air Pollution Point Sources in MN



3,729 Permitted Facilities

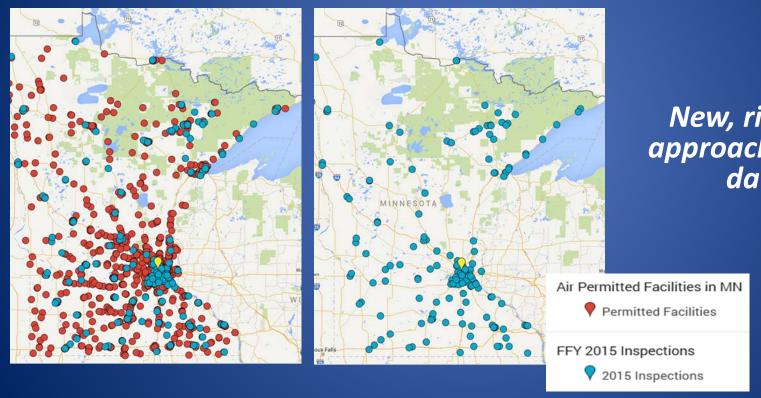


Estimated exposure to air pollutants by facilities with permits



Less risk-----More risk

Air Quality Point Source Inspection Strategy



New, risk-based approach based on data

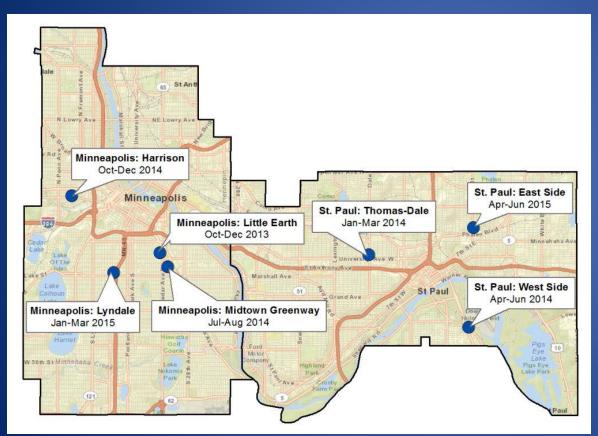
Air Quality Monitoring Sites in Metro Area



Environmental Justice Areas in Minneapolis

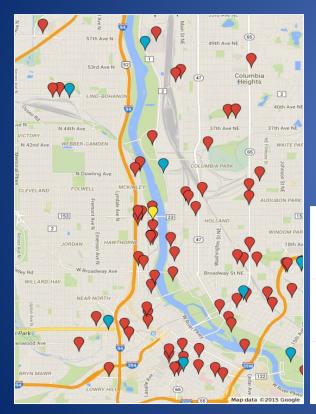


Minneapolis Community Air Monitoring Project





North Minneapolis Air Monitoring Project



Multi-year monitoring study for fine particle pollution



North Minneapolis Air Monitoring Project



Background on the TSP standards

In Minnesota, TSP levels in the air are regulated through the Minnesota Ambient Air Quality Standards (MAAQS), which are defined in Minnesota Administrative Rules 7009.0080. The MAAQS includes four distinct standards for TSP. These standards include:

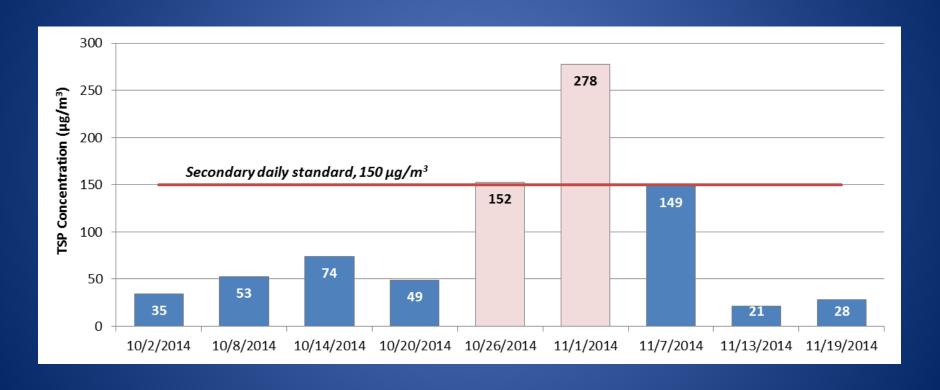
Minnesota Ambient Air Quality Standards for TSP

Standard Type	Time Interval	Level of Standard	A monitoring site meets the standard if
Primary ¹	Daily (24-hour)	260 micrograms per cubic meter	the annual 2 nd highest daily TSP concentration is less than or equal to 260 µg/m ³
	Annual	75 micrograms per cubic meter	the annual geometric mean is less than or equal to 75 μg/m ³
Secondary ²	Daily (24-hour)	150 micrograms per cubic meter	the annual 2 nd highest daily TSP concentration is less than or equal to 150 µg/m ³
	Annual	60 micrograms per cubic meter	the annual geometric mean is less than or equal to 60 μg/m ³

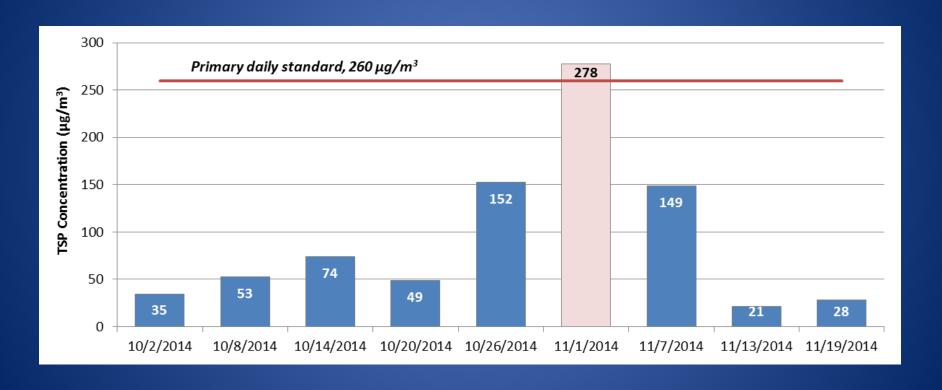
¹A primary standard is set to protect against human health effects associated with exposure to an air pollutant.

²A secondary standard is set to protect against environmental or public welfare effects associated with exposure to an air pollutant.

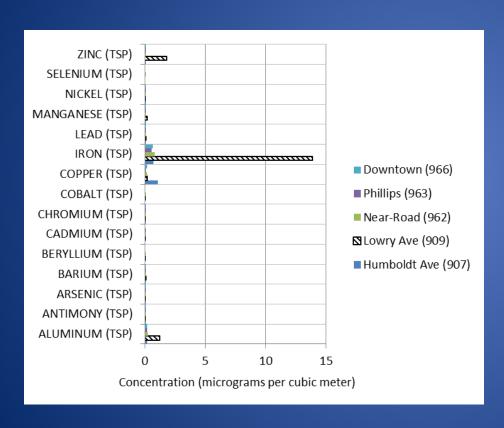
Violation of the Secondary Daily TSP Standard

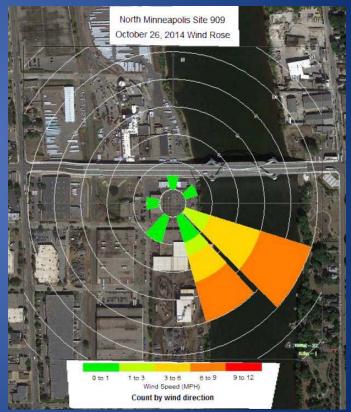


Violation of the Primary Daily TSP Standard

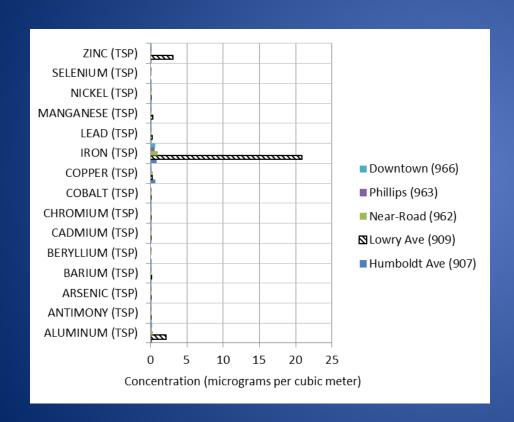


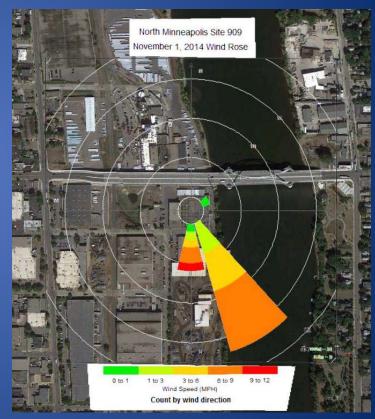
Exceedance Report for October 26, 2014





Exceedance Report for November 1, 2014



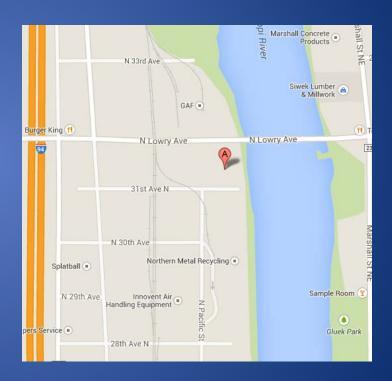


MPCA Investigation

Identify cause or contributors

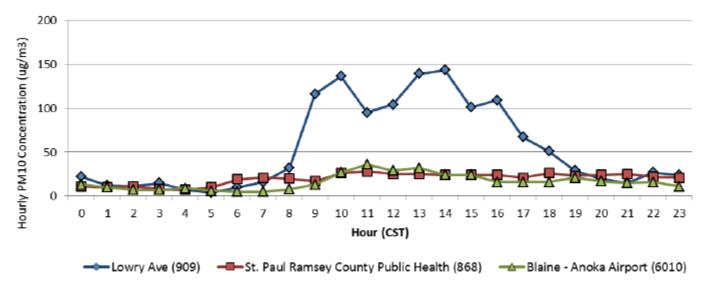
Coordinate with city

RFI



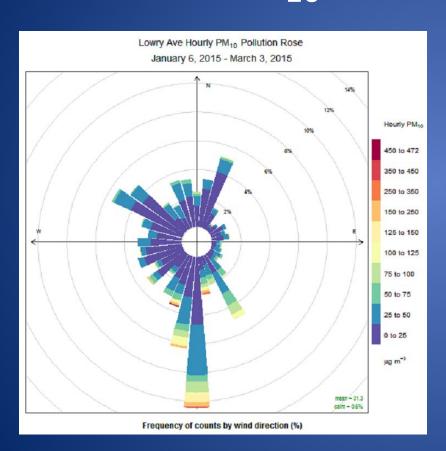
PM₁₀ Monitoring

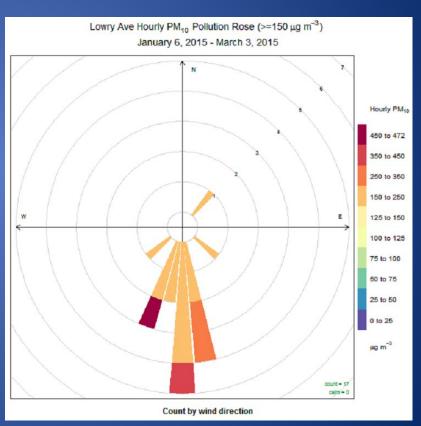
Hourly PM₁₀ concentrations at the Lowry Ave monitor: January 30, 2015



Hourly monitoring results are useful for identifying periods of the day when air pollution levels are elevated. Hourly results are not available for TSP, but are available for PM $_{10}$. On January 30, 2015, PM $_{10}$ concentrations were elevated at the Lowry Avenue monitoring site between 9:00 am and 6:00 pm.

PM₁₀ Pollution Roses





Communication & Transparency

- News release
- Gov delivery
- Emails to interested community parties
- AirMail

Disclosure Challenge



- Minn. Stat. § 13.39 CIVIL INVESTIGATION
- "pending civil legal action" includes but is not limited to judicial, administrative or arbitration proceedings.
- ...data collected by a government entity as part of an active investigation undertaken for the purpose of the commencement or defense of a pending civil legal action... are classified as protected nonpublic data...

Media Coverage



MPCA narrows search for firms adding to Mpls riverfront particles

Monitor finds particle violation on upper riverfront



MPCA narrows riverfront particle search



Air quality violation found in North Minneapolis

Current Status

- Additional exceedances
- Questions and communication continue
- Investigation continues
 - Both broadens and narrows

Monitoring will continue indefinitely...





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