# MCPS Office of Facilities Management Division of Sustainability and Compliance Indoor Air Quality (IAQ)

#### **Poolesville High School IAQ Sensor Monitoring**

Reporting Period: February 12, 2024 – February 16, 2024

Report Date: February 20, 2024

#### MCPS personnel reviewed the following:

- Construction Activities as reported by the MCPS Division of Design and Construction (DDC) to the Poolesville High School (PHS) Administration for inclusion in the community update notification.
- IAQ sensor data included in the Poolesville HS On-Site Construction IAQ Report.
- Note: MCPS Schools experienced a 2-hour delay on 02/13/2024 due to inclement weather.

# **Summary Observations:**

- No notifications or alerts were triggered during the reporting period.
- IAQ Sensor data were reviewed daily by IAQ and DDC personnel.
- Poolesville HS experienced a power outage on 02/13/2024 due to inclement weather –
  impacting the HVAC and exhaust systems that were in place to mitigate any smells, fumes, and
  odors from the construction process and this resulted in a haze that formed in the school
  building.
- Approximately ten (10) classrooms consistently indicate TVOC concentrations higher than the other classrooms for limited durations. These concentrations rise and fall at the same time as rises and falls in other IAQ parameters monitored, most likely related to occupancy, welding activities, and the HVAC outage (due to inclement weather).
- PM data show higher concentrations for limited durations throughout the instructional day in approximately ten (10) different classrooms. These concentrations rise and fall at the same time as rises and falls in other IAQ parameters monitored, most likely related to occupancy, welding activities, and the HVAC outage (due to inclement weather).

#### **Construction Activities:**

 Review of planned construction activities against the data collected indicates that construction activities and HVAC outage may have impacted indoor air quality at PHS. Welding activities were reported for the Reporting Period.

#### Response Action(s):

Both IAQ and DDC staff will continue to monitor sensor data at PHS.

#### Attachments:

 Poolesville HS On-Site Construction IAQ Reports for February 12, 2024 through February 16, 2024.

# POOLESVILLE HS ON-SITE CONSTRUCTION IAQ REPORT



This report was generated on 02/13/2024 at 03:00 AM (America/New\_York)

This daily report is for IAQ data collected between 6:00 AM and 6:00 PM for the day previous to the report generated date above.

This report includes the parameters that are most affected by construction activities in close proximity to an occupied buildings:

CO - carbon monoxide

TVOC - total volatile organic compounds

PM10 - particulate matter <=10 micron(ug)

PM2.5 - particulate matter <= 2.5 ug

PM1.0 - particulate matter <= 1.0 ug

ppm - parts per million

ppb - parts per billion

ug/m3 - micrograms per cubic meter of air

All data is monitored as an indicator of ventilation performance. Where suspect ventilation concerns are identified IAQ team members investigate to determine best next steps, including but not limited to - submit work orders to mechanical teams for repairs, review occupancy and use, review occupant activities and or continue to monitor data collected for patterns and trends.

# CO Monitoring

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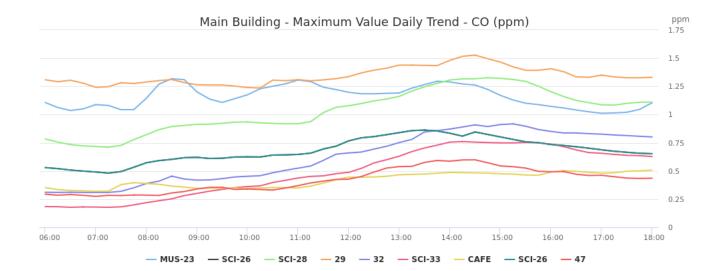
# CO Graphs Legend:

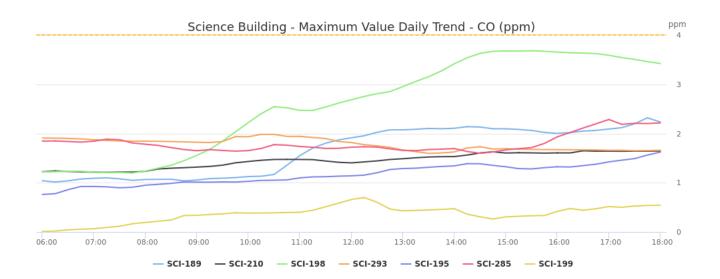
solid lines- indicate data from each room

dashed lines appear when data exceeds value for any period of time

IAQ - yellow = 4 ppm; MCPS notified at 4-hours

Ventilation - orange = 9 ppm; MCPS notified at 1-hour; immediate text, investigation Health & Safety - red = 25 ppm; MCPS notified at 8-hours, immediate text, community notification if during school hours



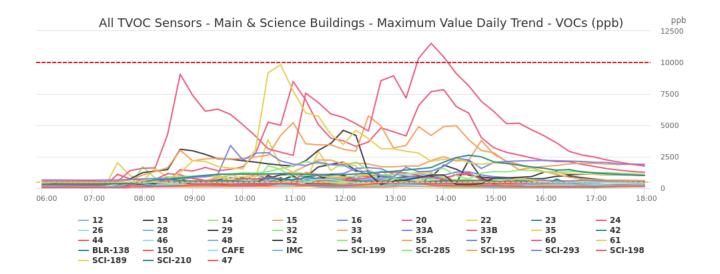


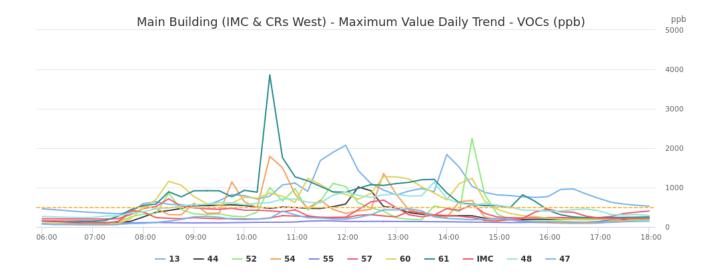
The carbon monoxide standards for indoor air quality are the U.S. Environmental Protection Agency (US EPA) National Ambient Air Quality Standard (NAAQS) of 9 ppm CO on a 8-hour time-weighted average (TWA), and the World Health organization Guidelines for Indoor Air Quality – Selected Pollutants of 6 ppm. However, MCPS will be notified at a sustained measurement of 4 ppm or greater for 4-hours as a more conservative and precautionary approach to this health-based standard.

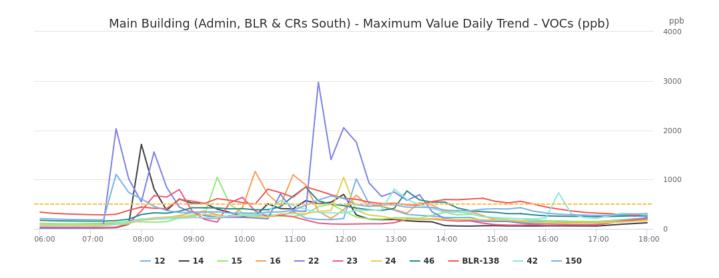
#### TVOC Monitoring

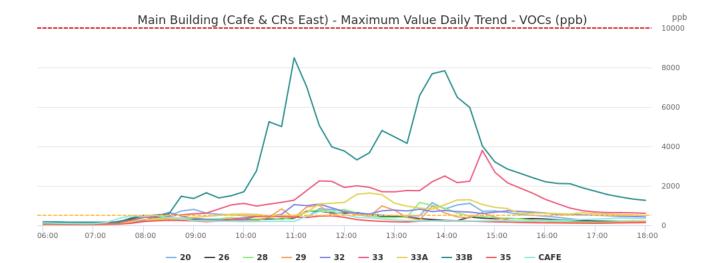
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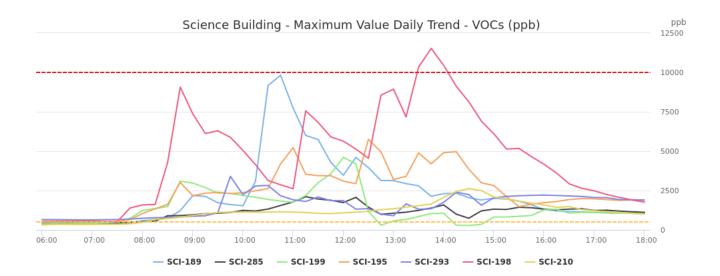
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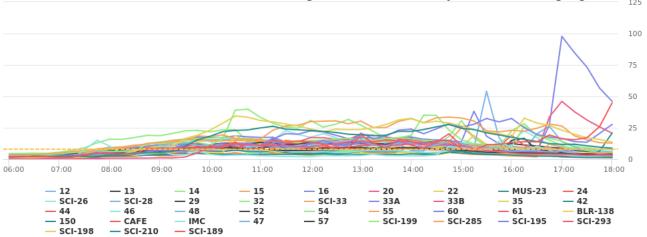


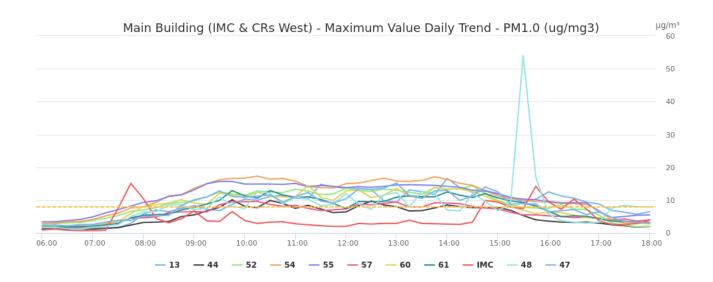


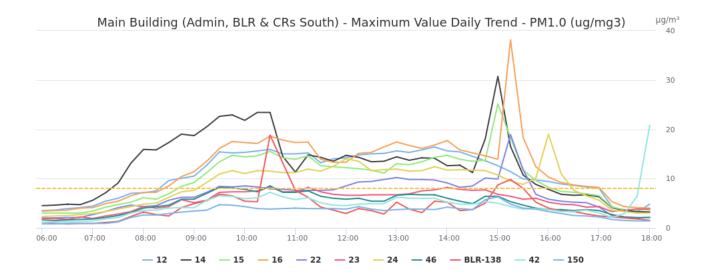
# PM1.0 Monitoring

# PM1.0 Graphs Legend:

solid lines- indicate data from each room dashed lines appear when data exceeds value for any period of time IAQ - yellow = 8 ug/m3; MCPS notified at 4-hours Ventilation - orange = 150 ug/m3; MCPS notified at 2-hours Health & Safety - red = 250 ug/m3; MCPS notified at 8-hours

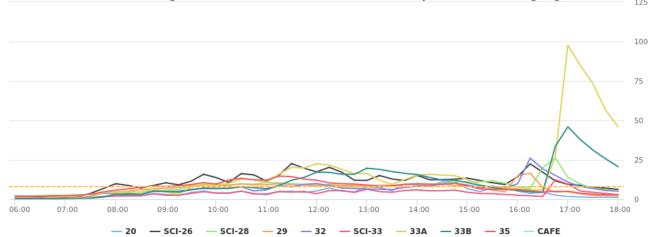


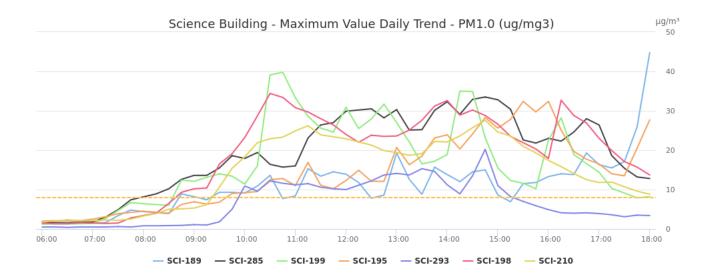






μg/m³

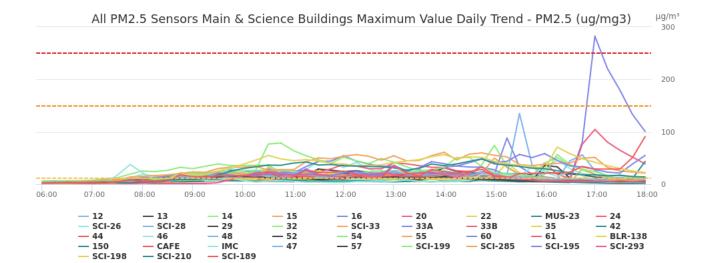


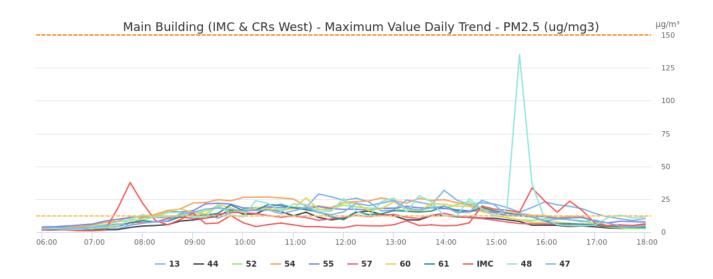


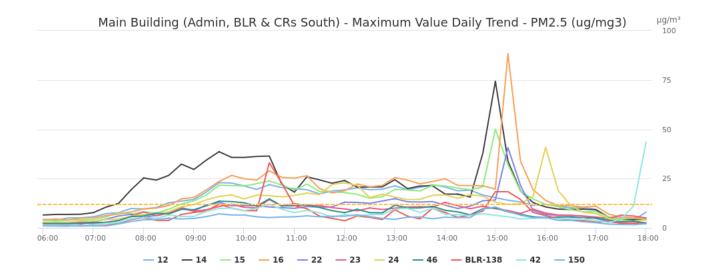
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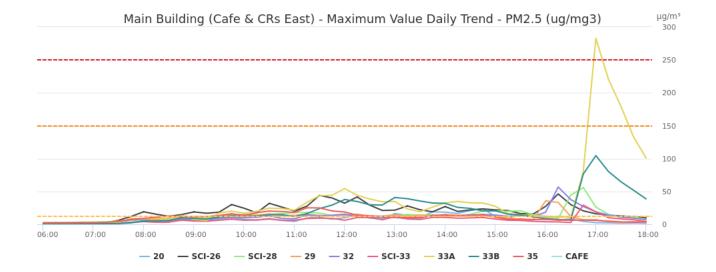
# PM2.5 Graphs Legend:

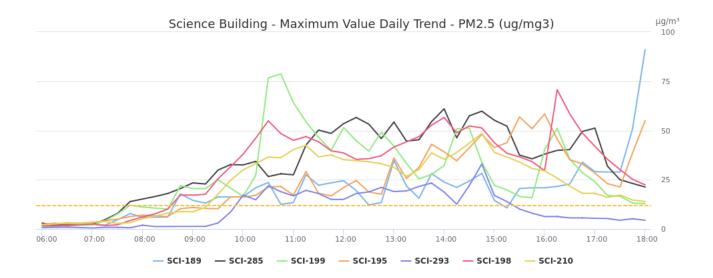
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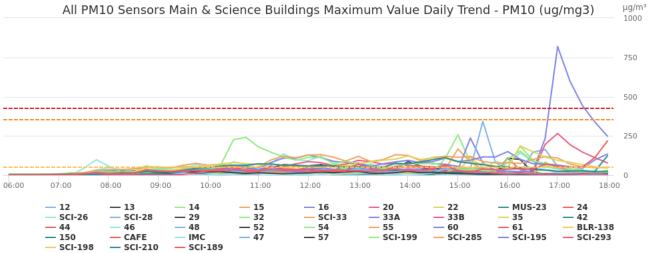


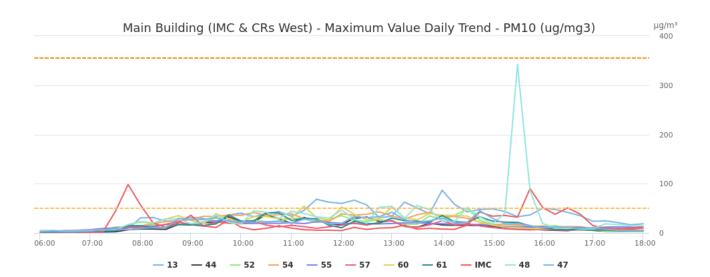
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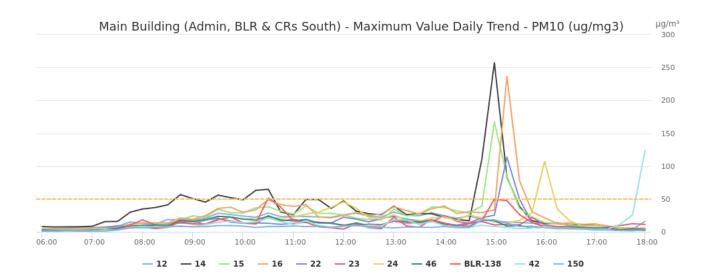
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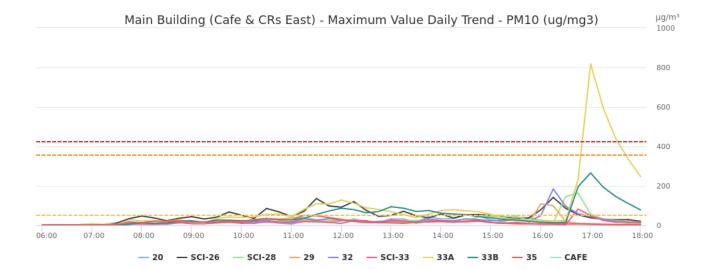
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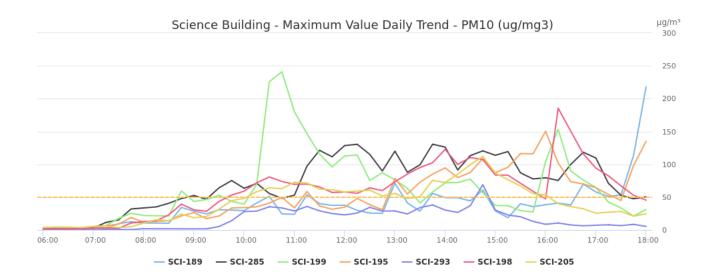












# POOLESVILLE HS ON-SITE CONSTRUCTION IAQ REPORT



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# **CO** Monitoring

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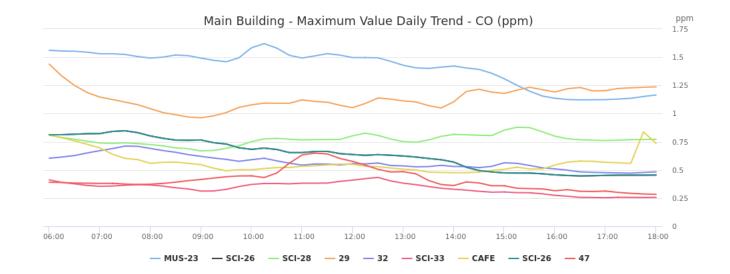
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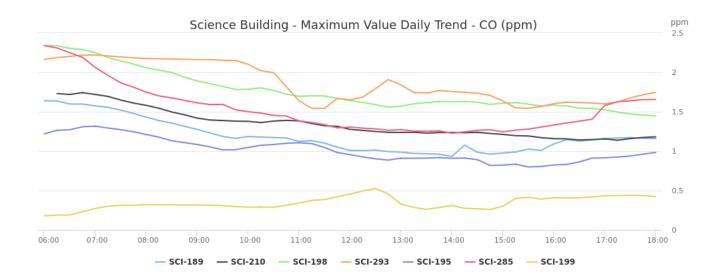
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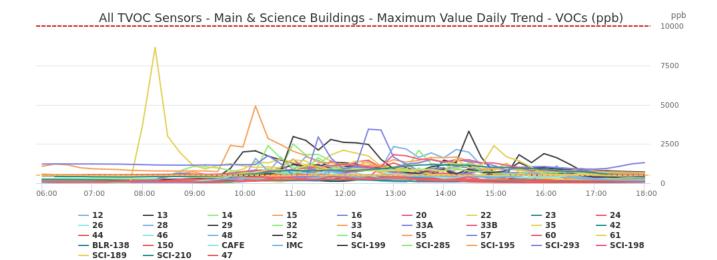


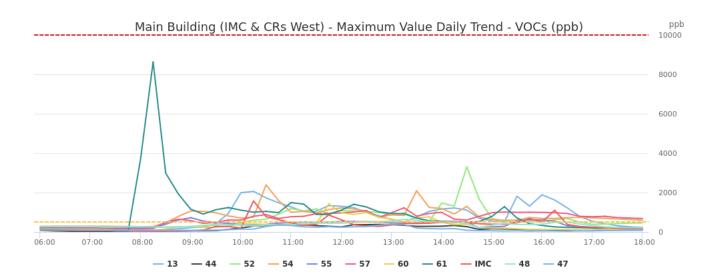
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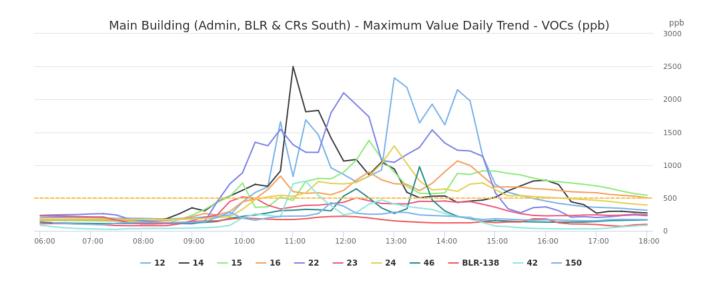
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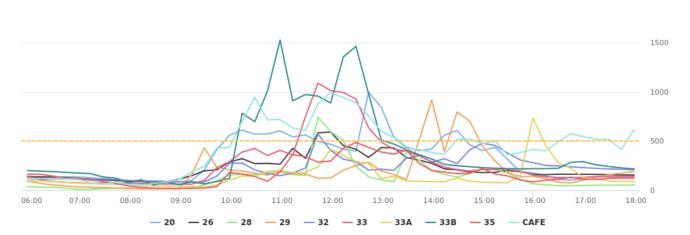


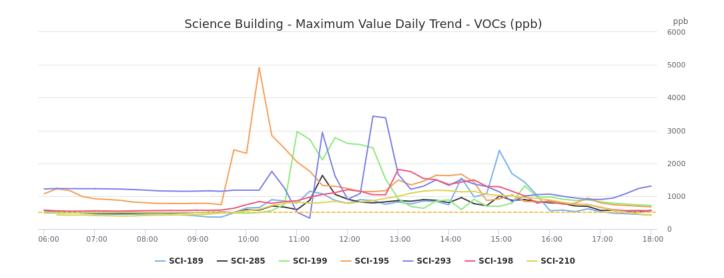






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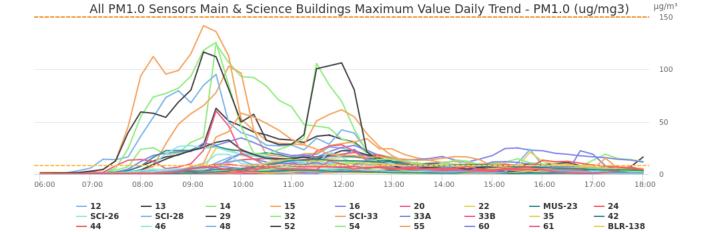




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**—** 54

- 42

- SCI-195

- BLR-138

- SCI-293

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— SCI-285

— SCI-28

— SCI-210

46

— SCI-26

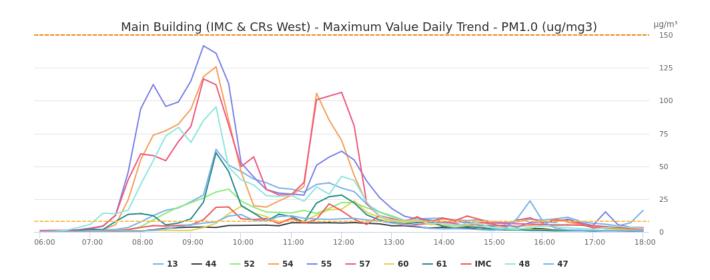
— SCI-198

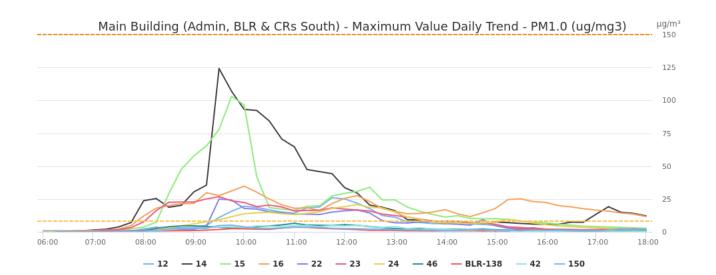
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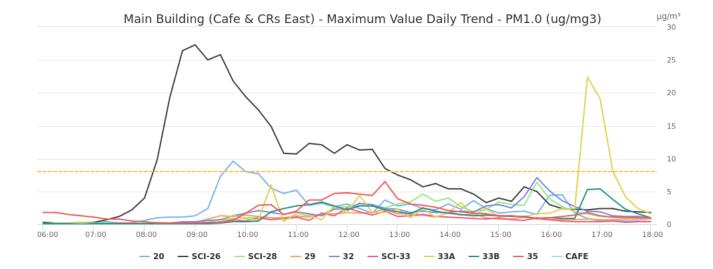
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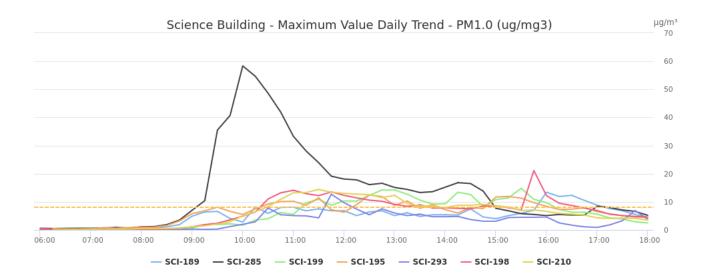
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— SCI-189





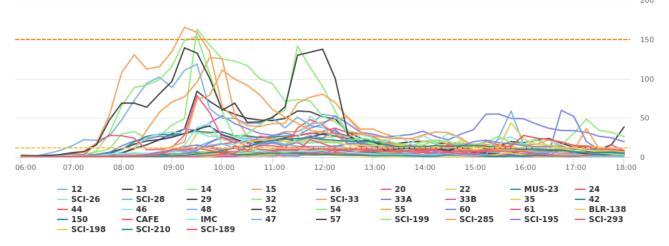


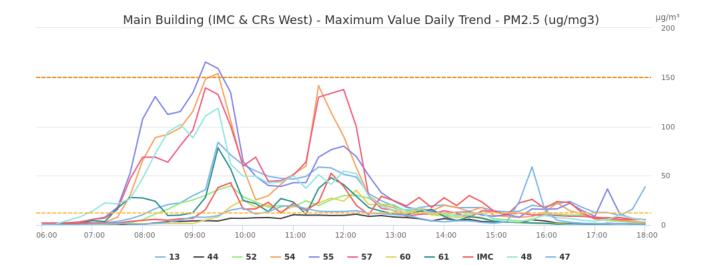


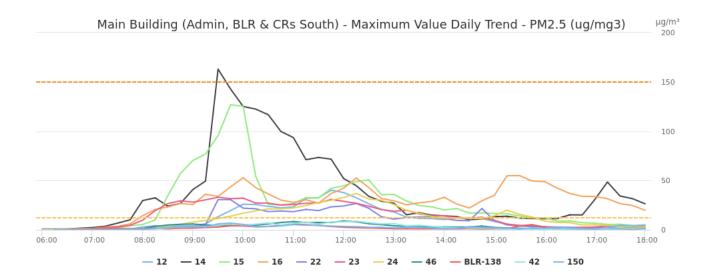
# PM2.5 Monitoring

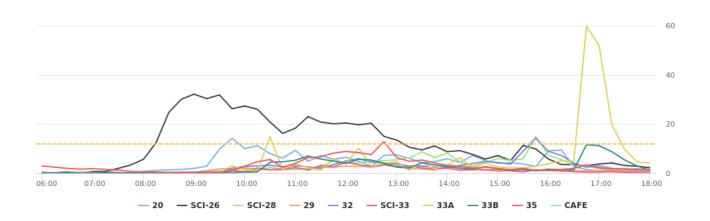
# PM2.5 Graphs Legend:

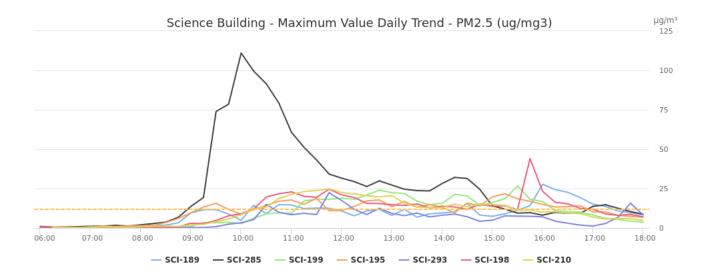
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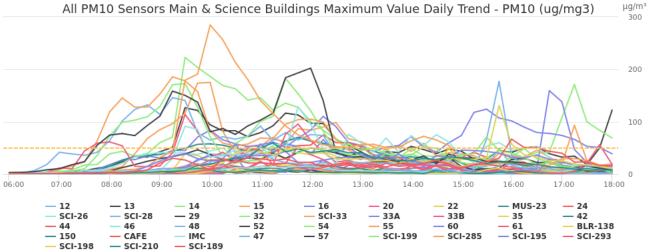


# PM10 Monitoring

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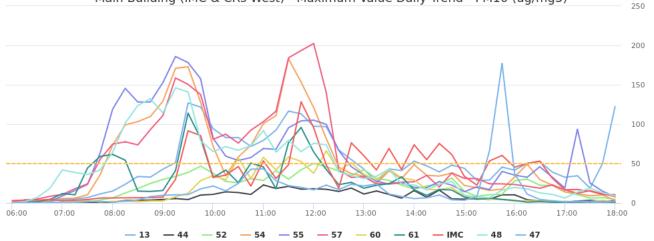
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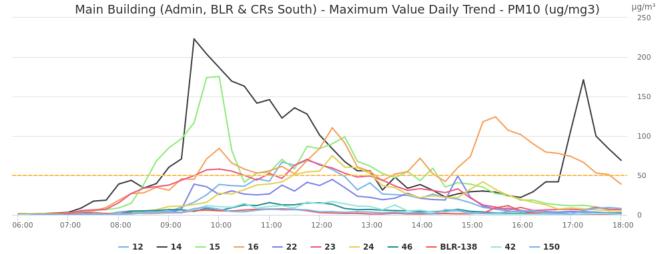


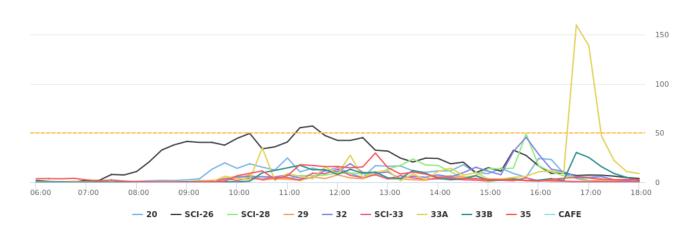


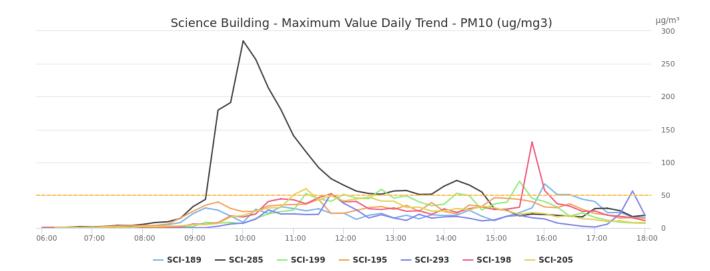
μg/m³











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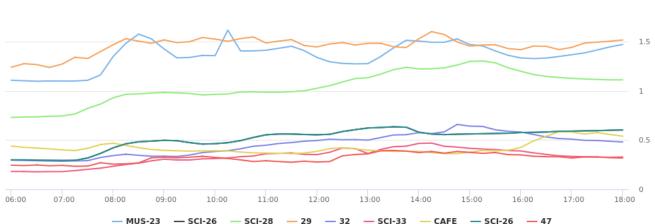
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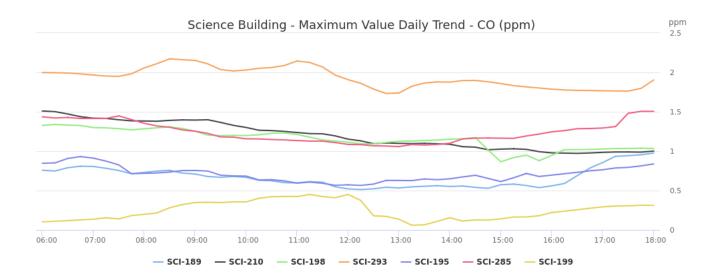
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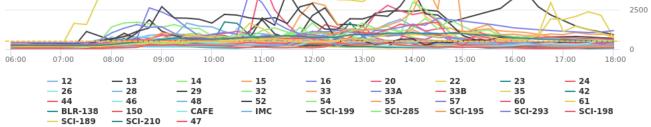
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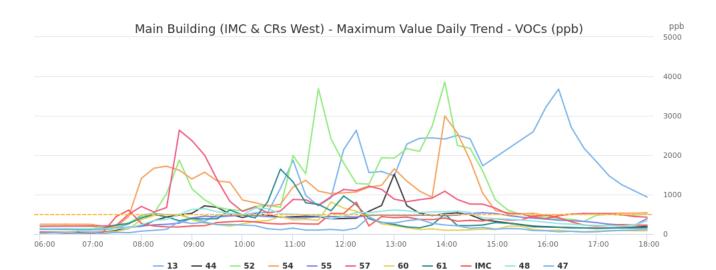
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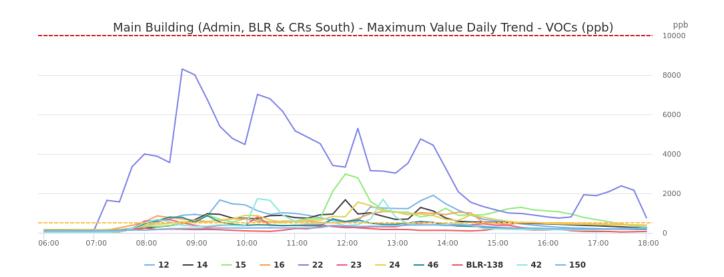
# TVOC Graphs Legend:

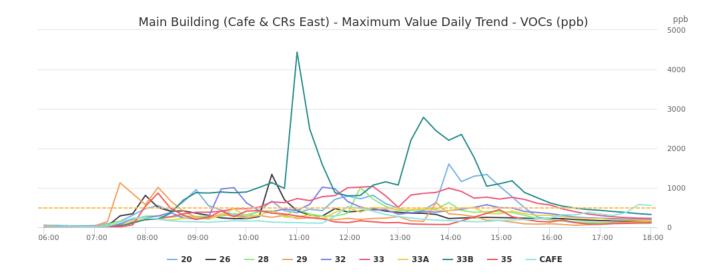
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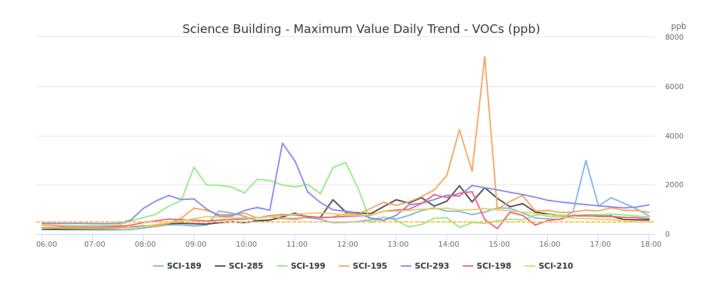








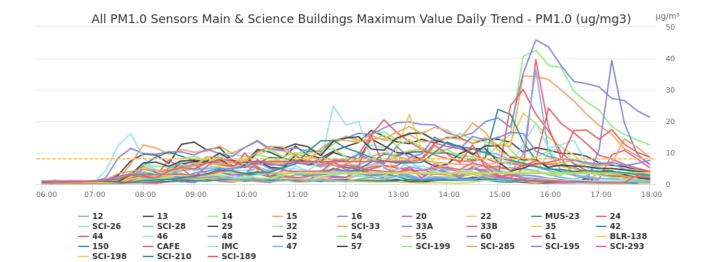


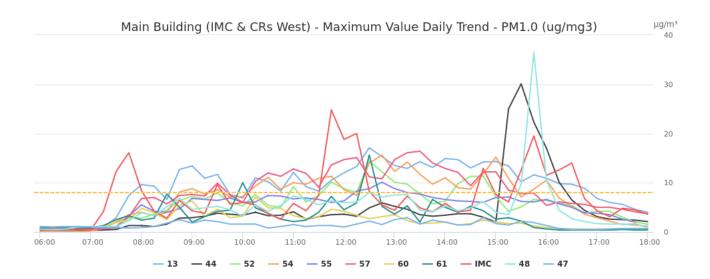


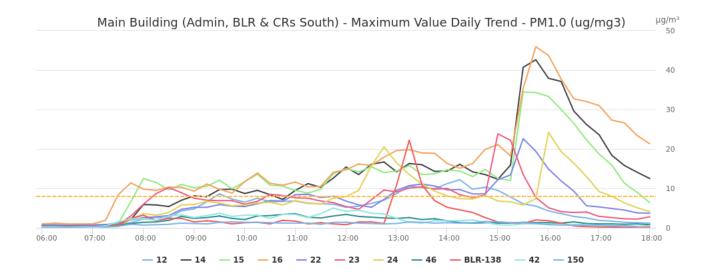
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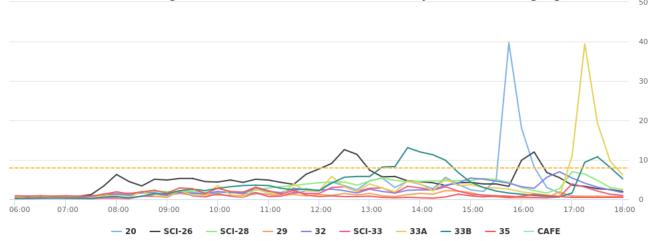


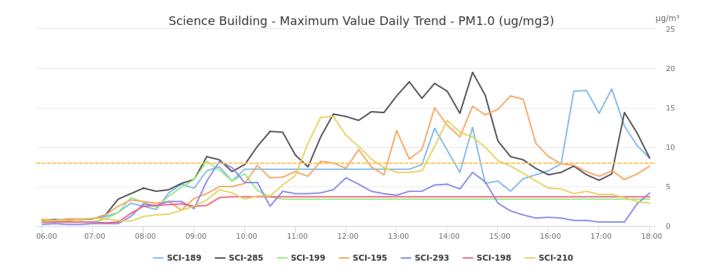






μg/m³



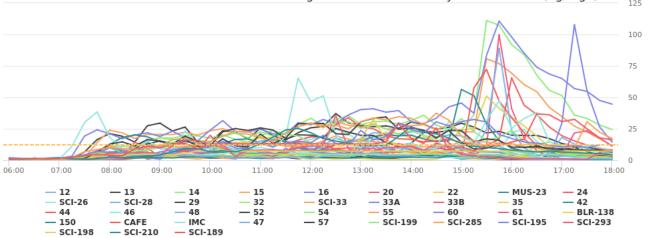


# PM2.5 Monitoring

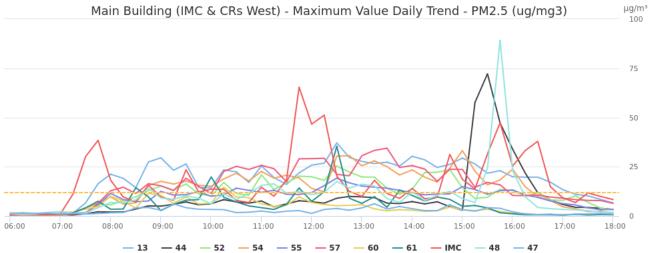
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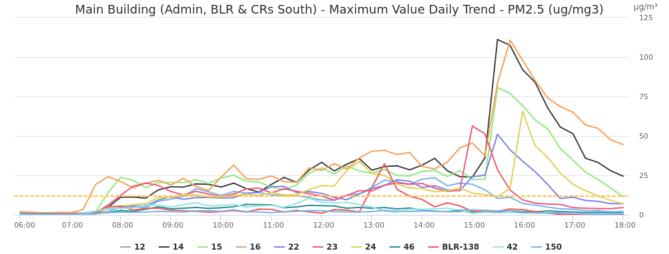


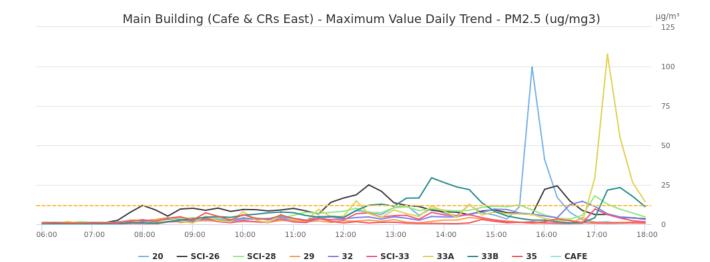


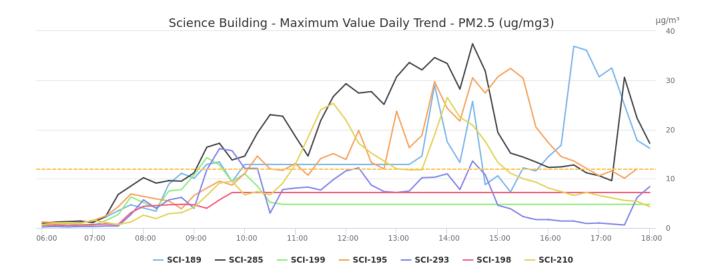












# PM10 Monitoring

# PM10 Graphs Legend:

**—** 20

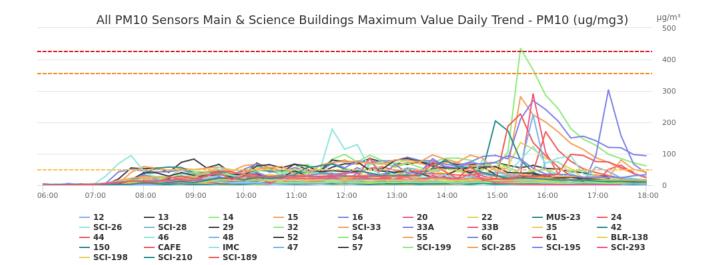
- SCI-26

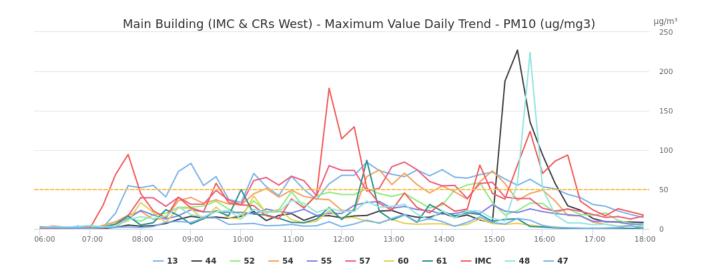
— SCI-28

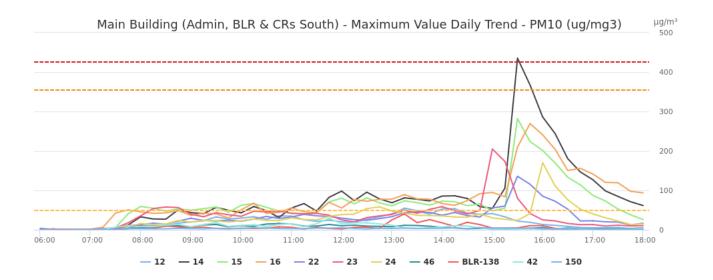
**—** 29

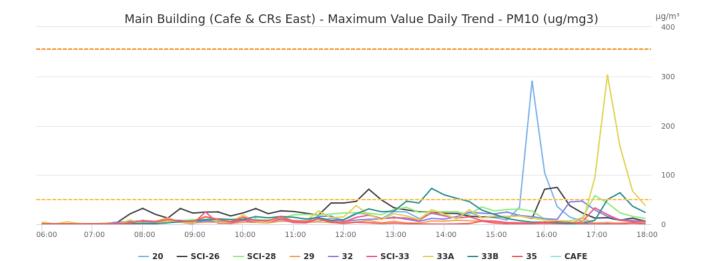
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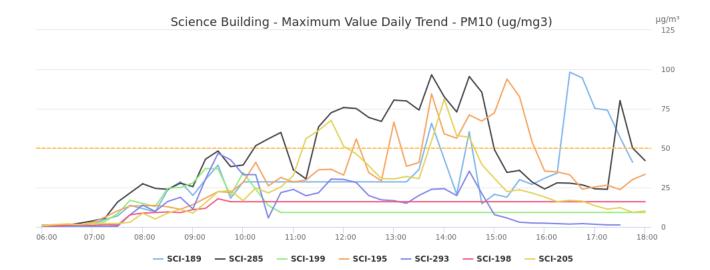
solid lines- indicate data from each room dashed lines appear when data exceeds value for any period of time IAQ - yellow = 50 ug/m3; MCPS notified at 4-hours Ventilation - orange = 355 ug/m3; MCPS notified at 2-hours Health & Safety - red = 425 ug/m3; MCPS notified at 8-hours











# POOLESVILLE HS ON-SITE CONSTRUCTION IAQ REPORT



This report was generated on 02/16/2024 at 03:00 AM (America/New\_York)

This daily report is for IAQ data collected between 6:00 AM and 6:00 PM for the day previous to the report generated date above.

This report includes the parameters that are most affected by construction activities in close proximity to an occupied buildings:

CO - carbon monoxide

TVOC - total volatile organic compounds

PM10 - particulate matter <=10 micron(ug)

PM2.5 - particulate matter <= 2.5 ug

PM1.0 - particulate matter <= 1.0 ug

ppm - parts per million

ppb - parts per billion

ug/m3 - micrograms per cubic meter of air

All data is monitored as an indicator of ventilation performance. Where suspect ventilation concerns are identified IAQ team members investigate to determine best next steps, including but not limited to - submit work orders to mechanical teams for repairs, review occupancy and use, review occupant activities and or continue to monitor data collected for patterns and trends.

# CO Monitoring

Carbon Monoxide (CO): Carbon monoxide is a colorless, odorless gas. It results from incomplete combustion processes. Common sources of CO in schools are improperly vented furnaces, malfunctioning gas ranges, canned heat (e.g. a Sterno), or exhaust fumes that have been drawn back into the building. Worn or poorly adjusted and maintained combustion devices (e.g., boilers, furnaces), or a flue that is improperly sized, blocked, disconnected, or leaking, can be significant sources. Auto, truck, or bus exhaust from attached garages, nearby roads, or idling vehicles in parking areas can also be sources. Carbon monoxide at high concentrations is considered to be a serious health hazard.

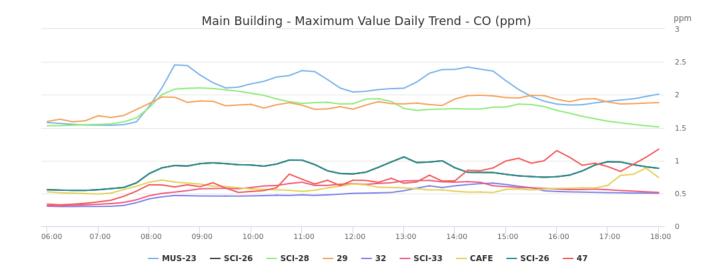
# CO Graphs Legend:

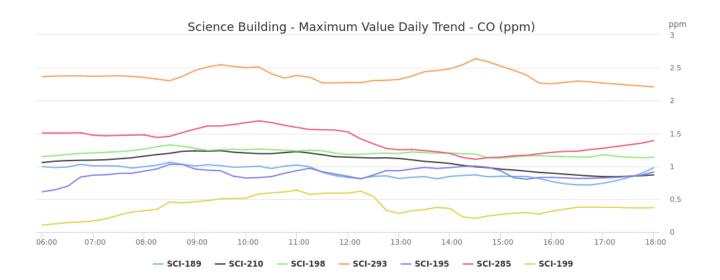
solid lines- indicate data from each room

dashed lines appear when data exceeds value for any period of time

IAQ - yellow = 4 ppm; MCPS notified at 4-hours

Ventilation - orange = 9 ppm; MCPS notified at 1-hour; immediate text, investigation Health & Safety - red = 25 ppm; MCPS notified at 8-hours, immediate text, community notification if during school hours



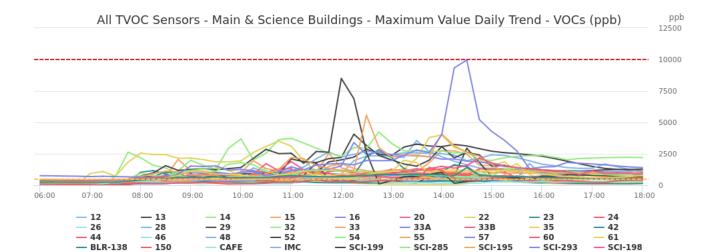


The carbon monoxide standards for indoor air quality are the U.S. Environmental Protection Agency (US EPA) National Ambient Air Quality Standard (NAAQS) of 9 ppm CO on a 8-hour time-weighted average (TWA), and the World Health organization Guidelines for Indoor Air Quality – Selected Pollutants of 6 ppm. However, MCPS will be notified at a sustained measurement of 4 ppm or greater for 4-hours as a more conservative and precautionary approach to this health-based standard.

#### TVOC Monitoring

# TVOC Graphs Legend:

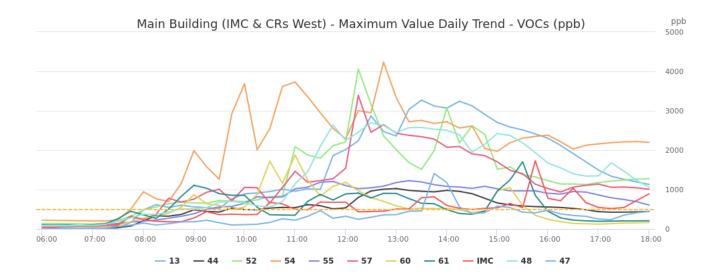
solid lines indicate data from each room dashed lines appear when exceeds value for any period of time IAQ - yellow = 500 ppb (0.5 ppm); MCPS notified at 4-hours Ventilation - red = 10,000 ppb (10 ppm); MCPS notified at 4-hours

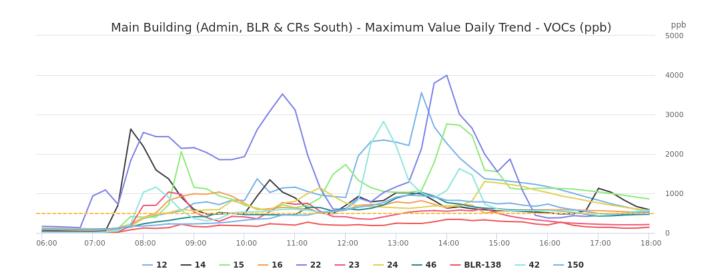


- SCI-189

— SCI-210

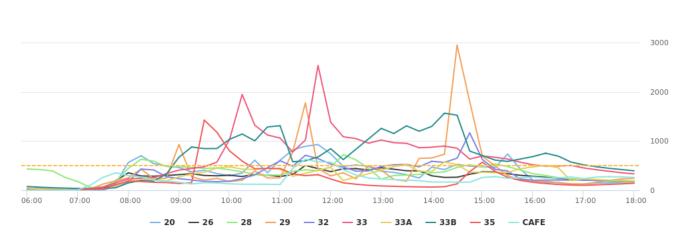
47

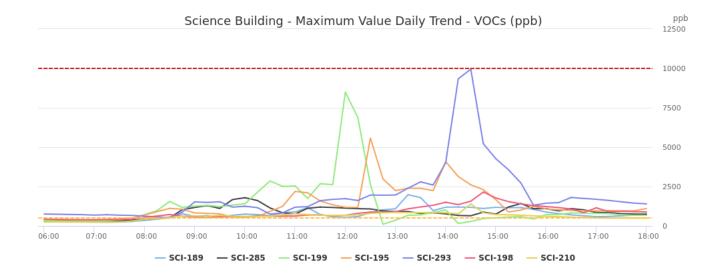






ppb 4000



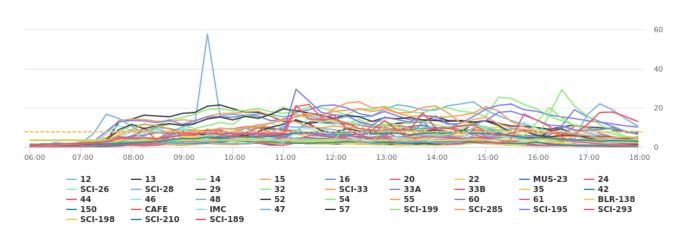


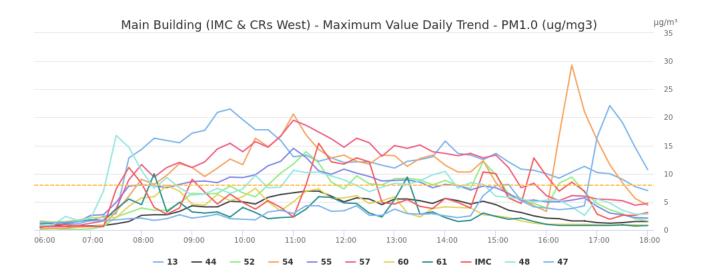
# PM1.0 Monitoring

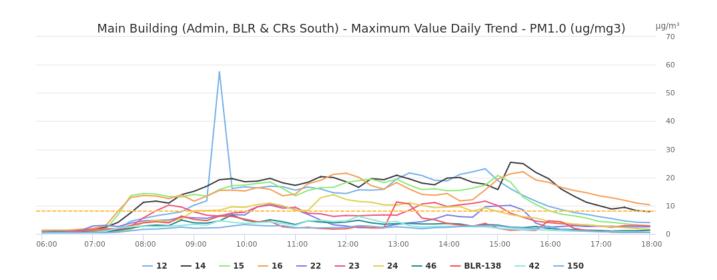
# PM1.0 Graphs Legend:

solid lines- indicate data from each room dashed lines appear when data exceeds value for any period of time IAQ - yellow = 8 ug/m3; MCPS notified at 4-hours Ventilation - orange = 150 ug/m3; MCPS notified at 2-hours Health & Safety - red = 250 ug/m3; MCPS notified at 8-hours





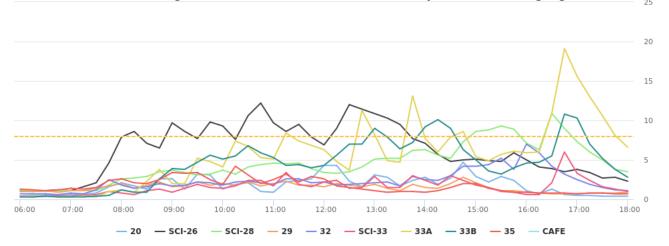




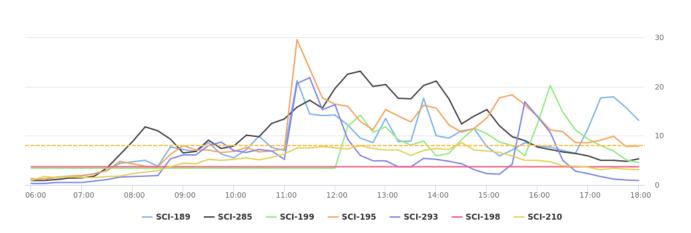


μg/m³

μg/m³



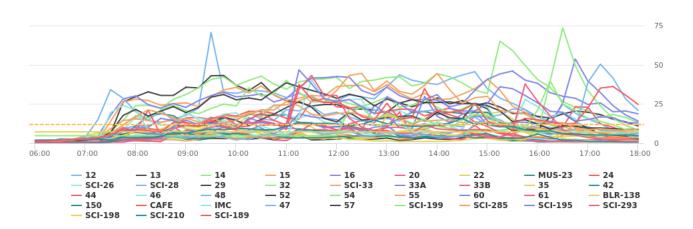
# Science Building - Maximum Value Daily Trend - PM1.0 (ug/mg3)

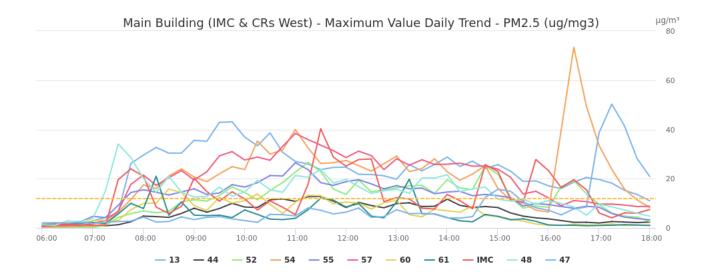


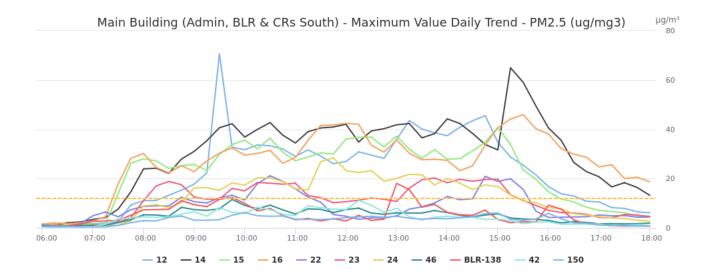
#### PM2.5 Monitoring

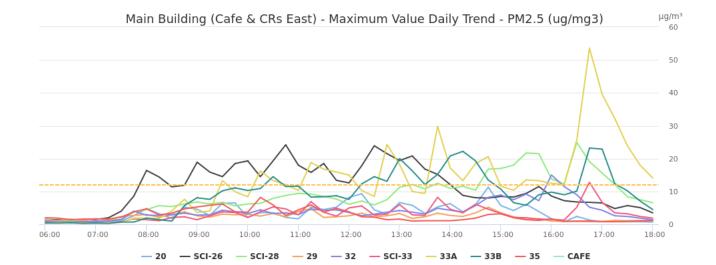
## PM2.5 Graphs Legend:

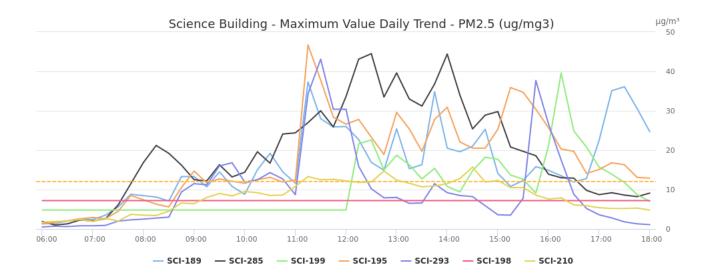
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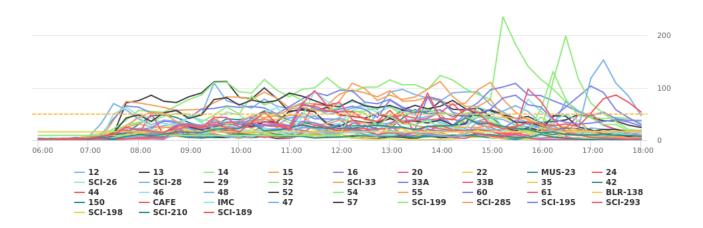


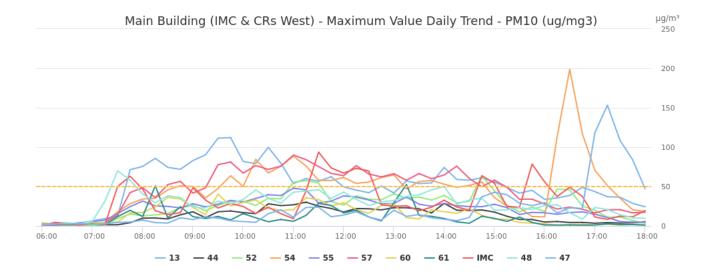


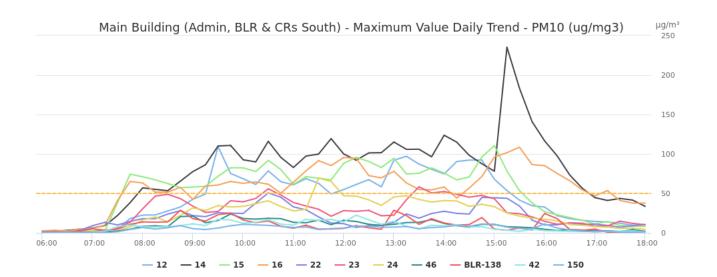
#### PM10 Monitoring

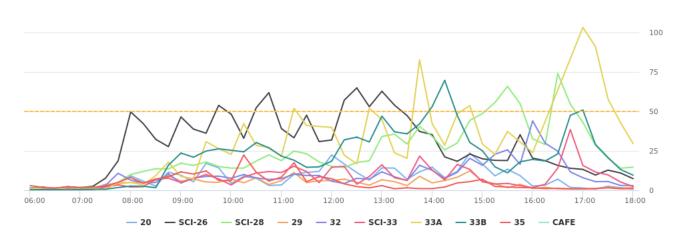
PM10 Graphs Legend:

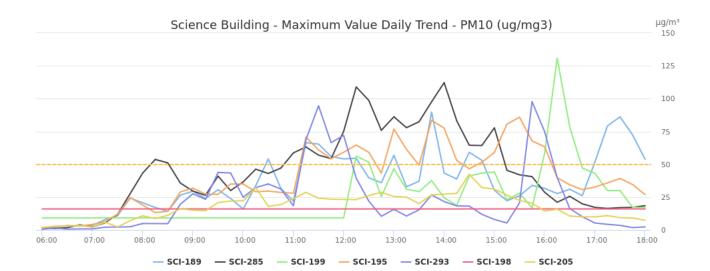
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# POOLESVILLE HS ON-SITE CONSTRUCTION IAQ REPORT



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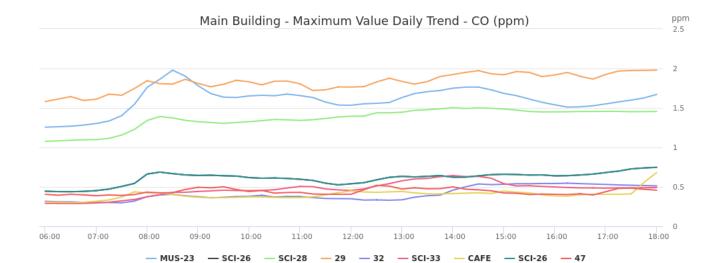
# CO Graphs Legend:

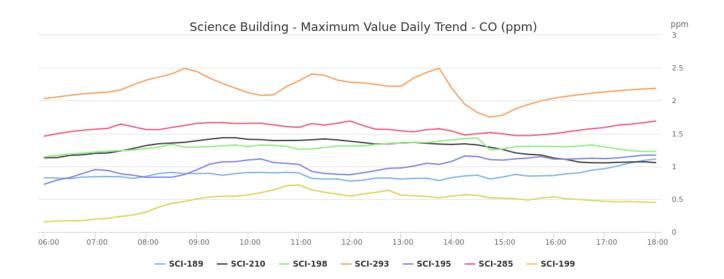
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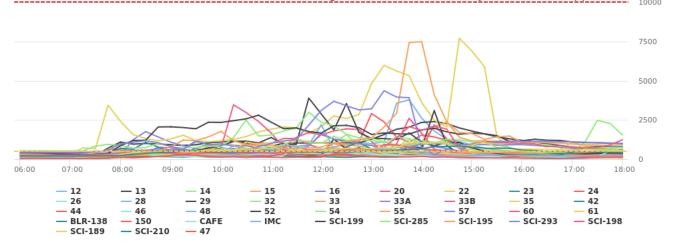


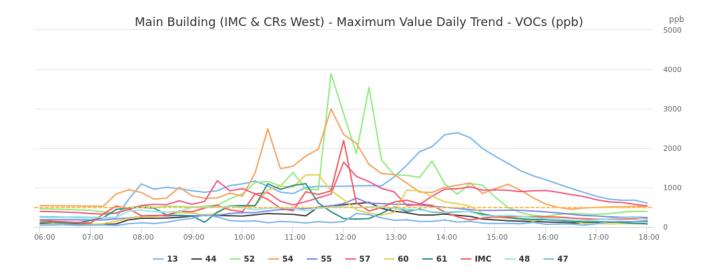
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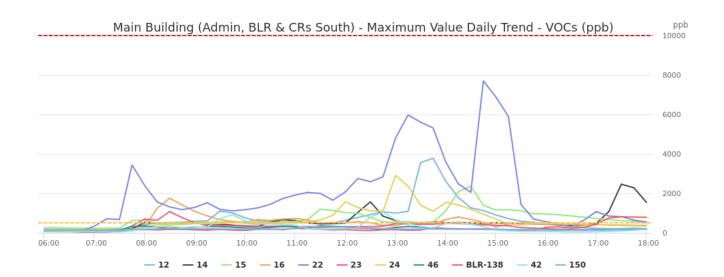
#### TVOC Monitoring

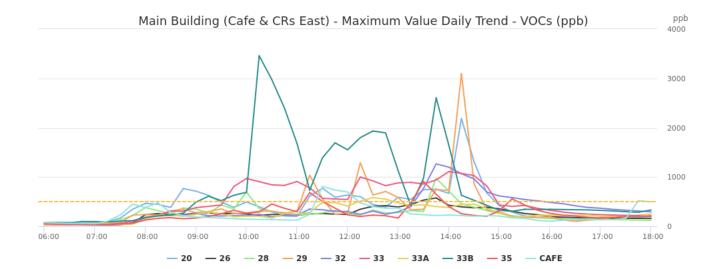
TVOC Graphs Legend:

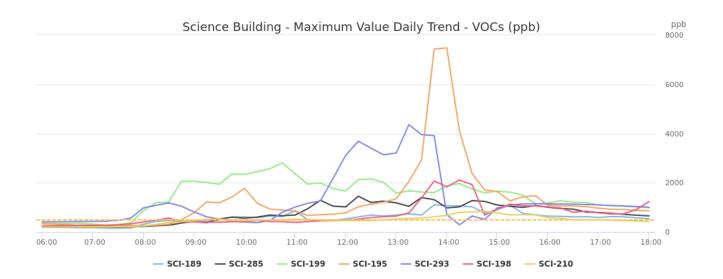
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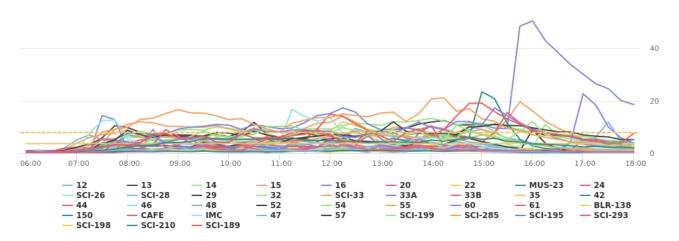


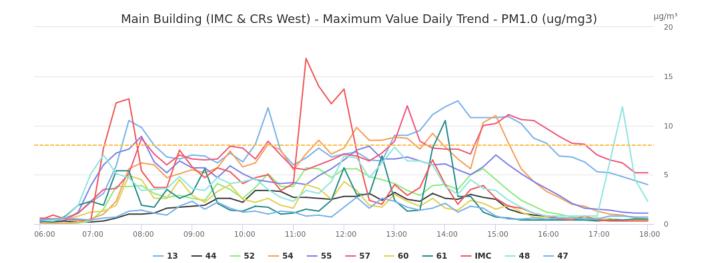


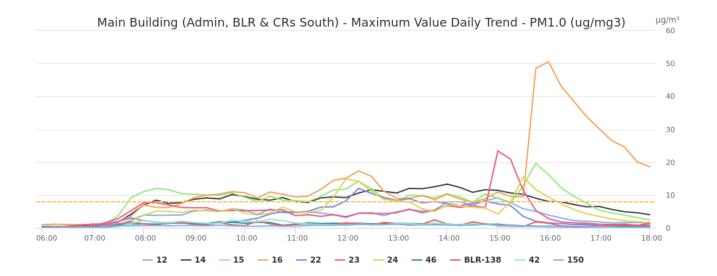
#### PM1.0 Monitoring

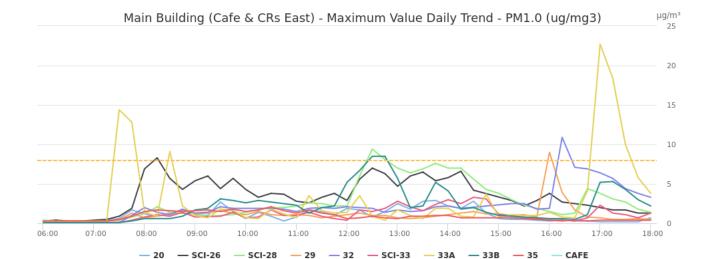
#### PM1.0 Graphs Legend:

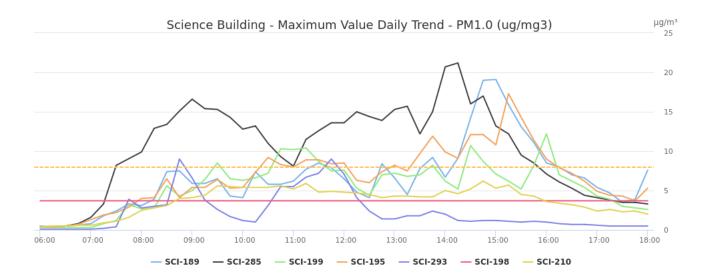
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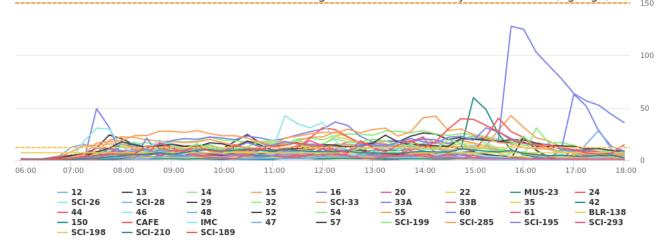


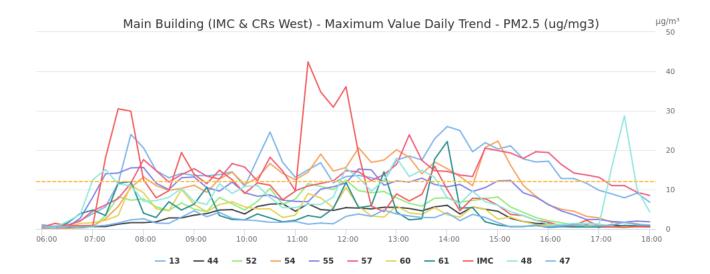


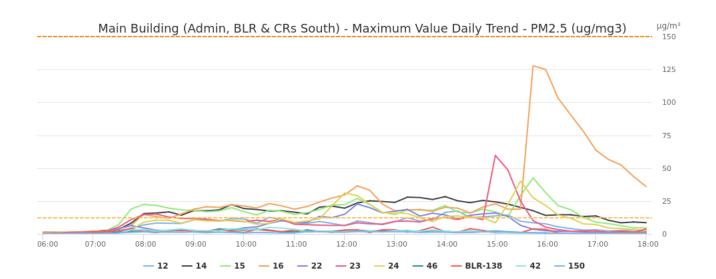
#### PM2.5 Monitoring

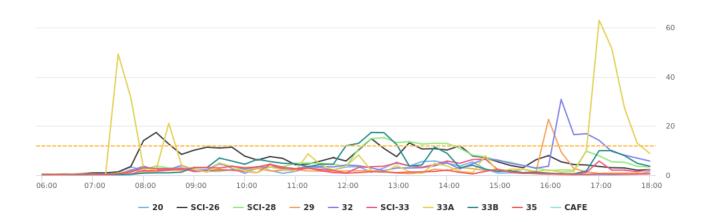
PM2.5 Graphs Legend:

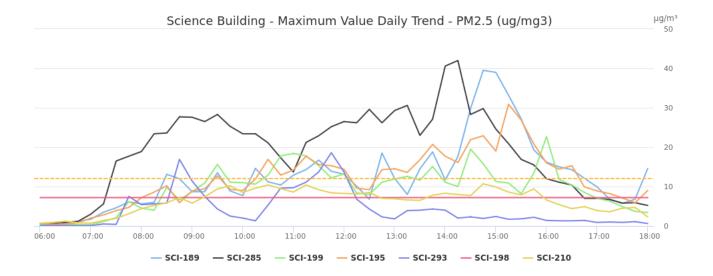
solid lines- indicate data from each room dashed lines appear when data exceeds value for any period of time IAQ - yellow = 12 ug/m3; MCPS notified at 4-hours Ventilation - orange = 150 ug/m3; MCPS notified at 2-hours Health & Safety - red = 250 ug/m3; MCPS notified at 8-hours











#### PM10 Monitoring

## PM10 Graphs Legend:

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