PARKROSE AIR MONITORING PROGRAM ARGOS SCIENTIFIC INC.

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Environmental Measurement Symposium

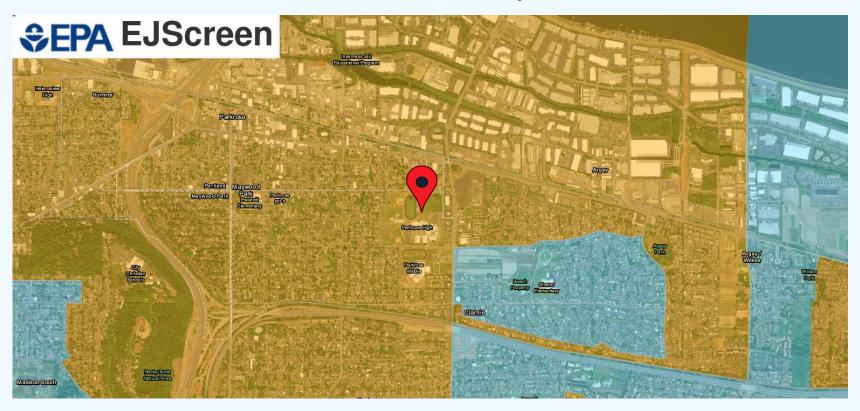
August 2024

PRESENTATION OVERVIEW

- Overview of the Parkrose School District and Argos Scientific partnership
- How the relationship has evolved
- The role the indoor air quality to improve children's health
- Argos and Elevate Oregon partnership



PARKROSE HIGHSCHOOL, PORTLAND OR.



PARKROSE AND ARGOS



Environmental justice community



Prologis center

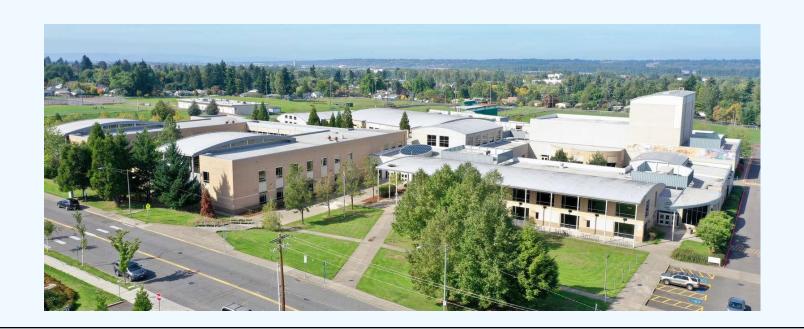


Problematic emissions



School district collaboration

PARKROSE EXPERIENCE



THE AIR MONITORING NETWORK



Community air monitoring station



School outdoor monitoring



School indoor monitoring



SNAPSHOT OF THE COMMUNITY WEBSITE

argos

Parkrose Community Air Monitoring Project



Map

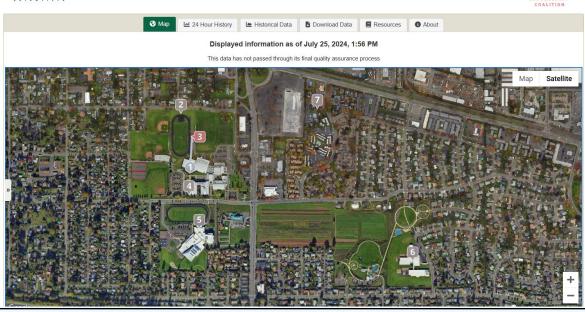
24 Hour History

Historical Data

Download Data

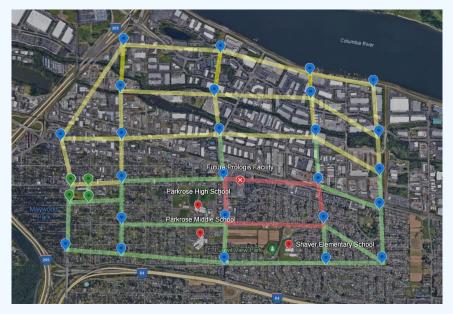
Resources

About



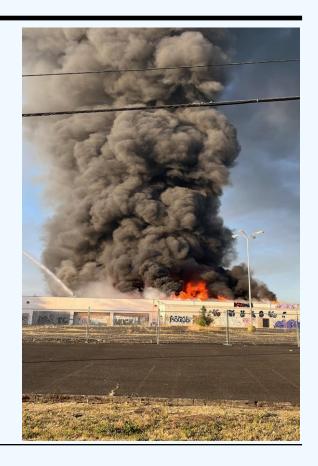
PINPOINTING SOURCES

- A variety of air monitors
- Meteorological data





- Looking at indoor climate
- Identify factors that impact student learning
- Impact on older schools



DATA COLLECTED **AROUND** THE FIRE



ASSESSING SCHOOL INDOOR ENVIRONMENTS

- The initial proposed study is to evaluate methods to mitigate outdoor air pollution in the grade schools
- Air monitors both outside and indoors
- Provide real-time notification via colorchanging lights on the instrumentation itself when air quality is poorer than normal



IMPROVING THE CLASSROOM ENVIRONMENT

- Using multiple avenues of mitigation
- This includes
 - Air Quality
 - Ventilation, impacting CO2
 - o Temperature

THE BONGO







PM10, PM2.5, and PM1 (μ g/m³)

Small, compact, and powerful

Low cost







Allows for widespread monitoring



EDUCATIONAL CONNECTION

- Integration of air monitoring into the school curriculum
- Interdisciplinary approach
 - o Activism
 - o Policy
 - o Legislation
 - o STEM



CONCLUSION

- Parkrose is in an area with multiple sources of pollution
- Community benefits
- Expanding monitoring network
- Evaluating indoor air quality within the schools

QUESTIONS AND COMMENTS

Contact us:

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