

Social Justice is in the Air

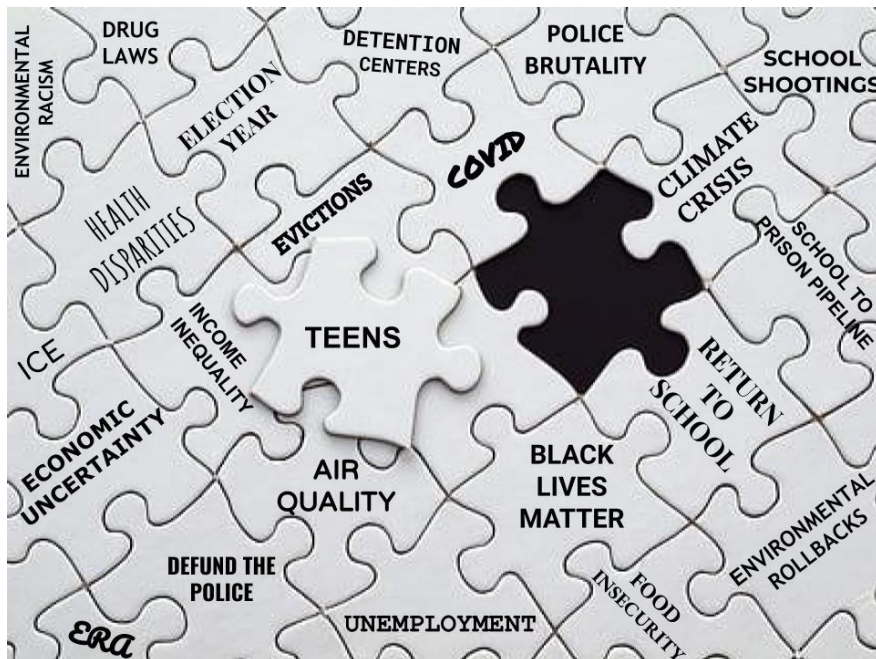
Updates and Next Steps for
*Our Air, Your Future: Creating
Clean Air Advocates*

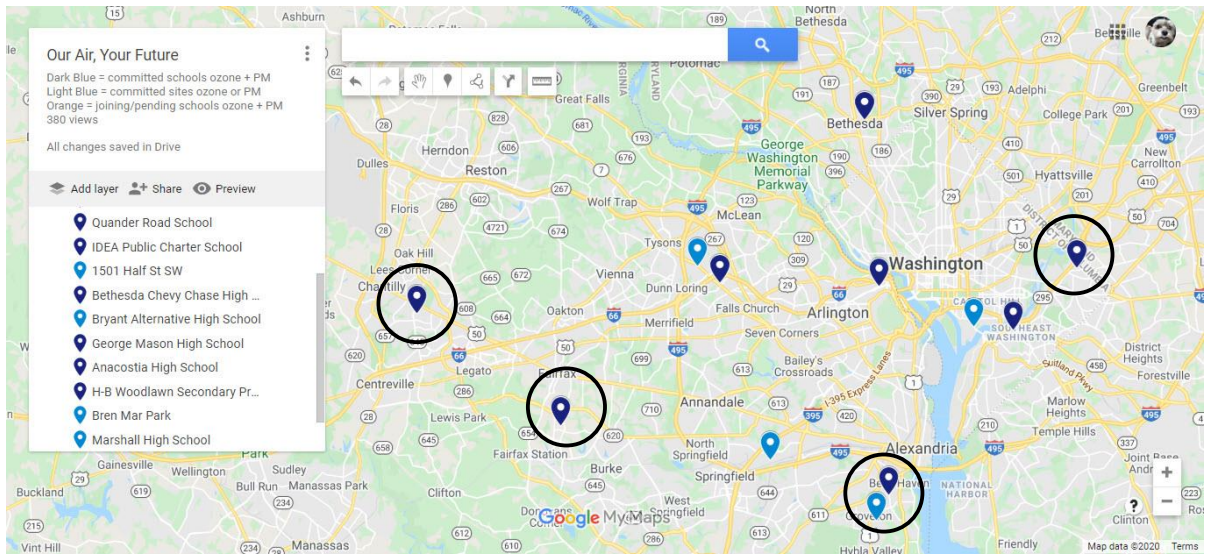


Image designed by Prawny

AWMA-Baltimore Washington Chapter August 27, 2020

Elizabeth Spike Science Teacher, Fairfax County Public Schools





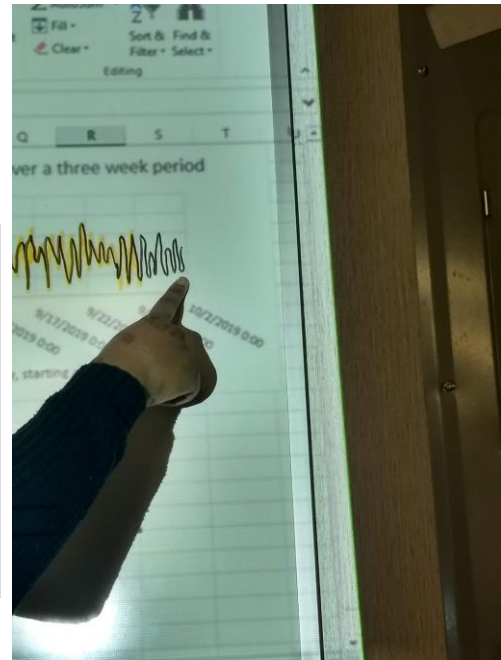
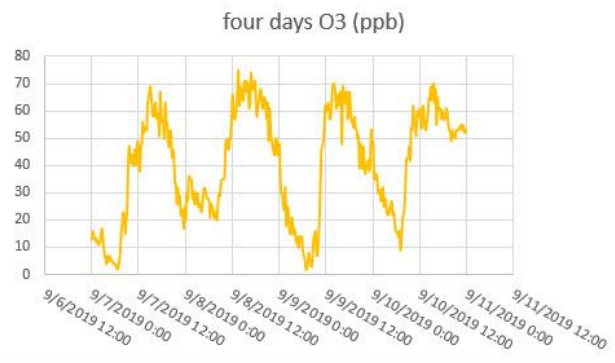
Purple Air PM Sensor
 Aeroqual Ozone Sensor



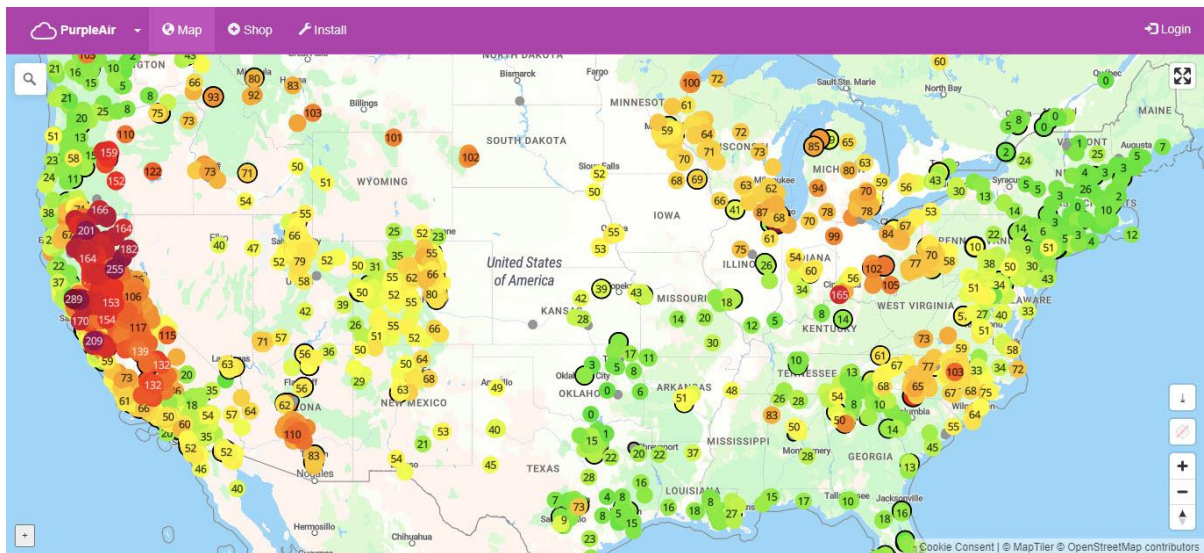
Ozone data

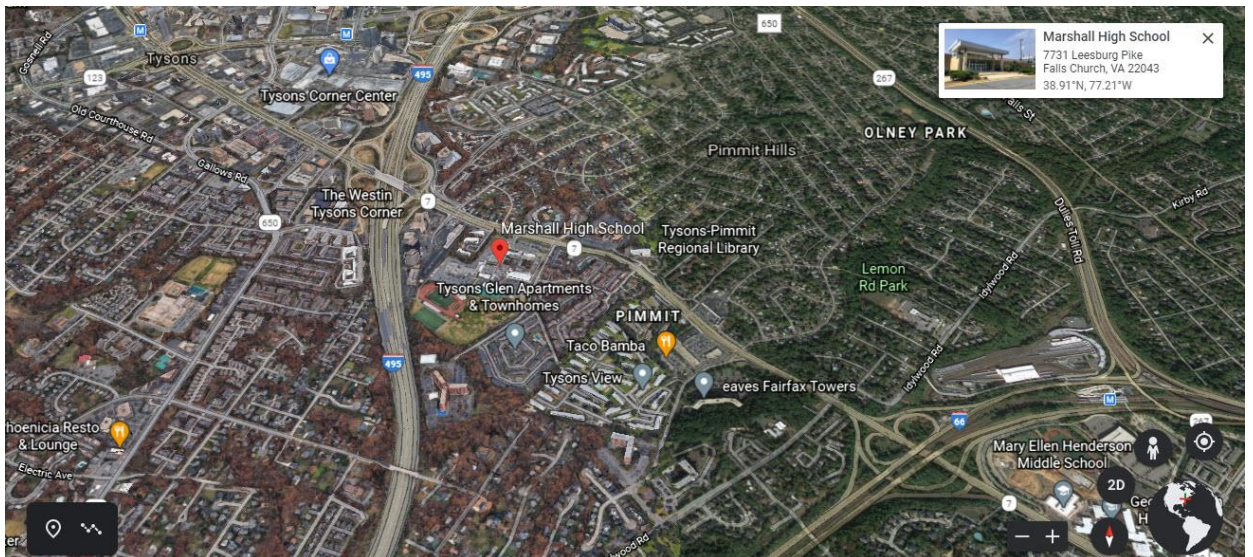
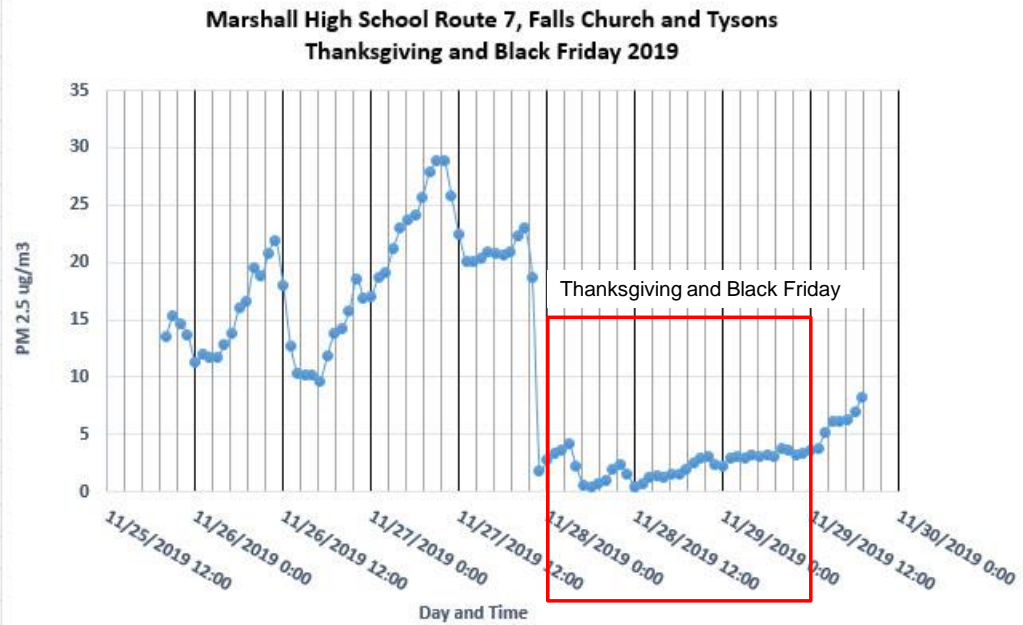
Left: End of our ozone season

Right: Student predicts diurnal pattern

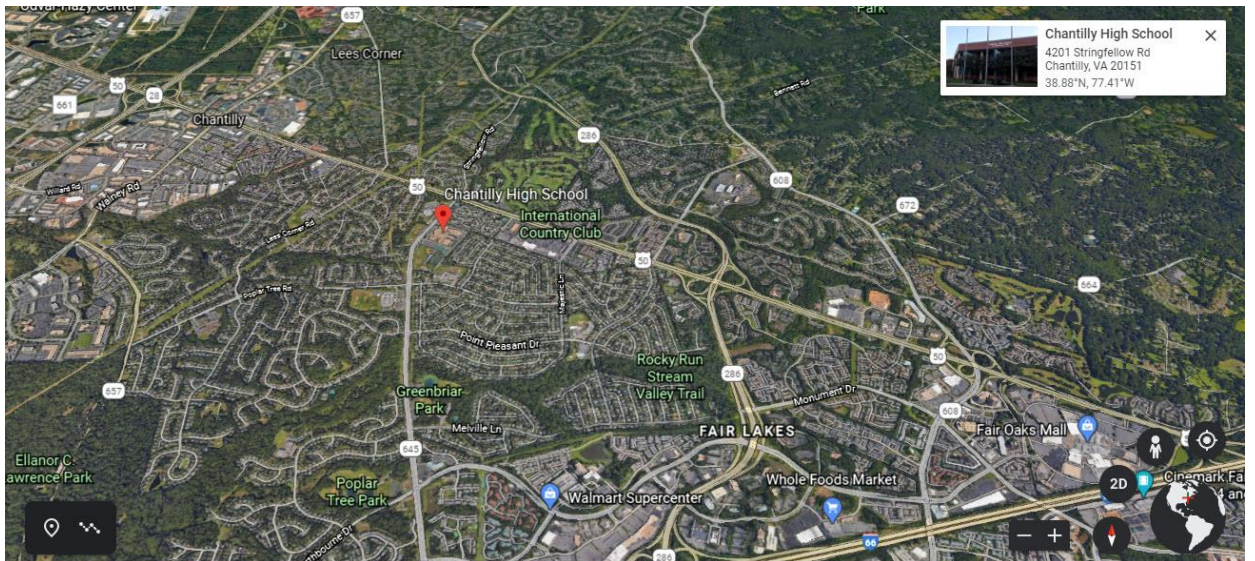
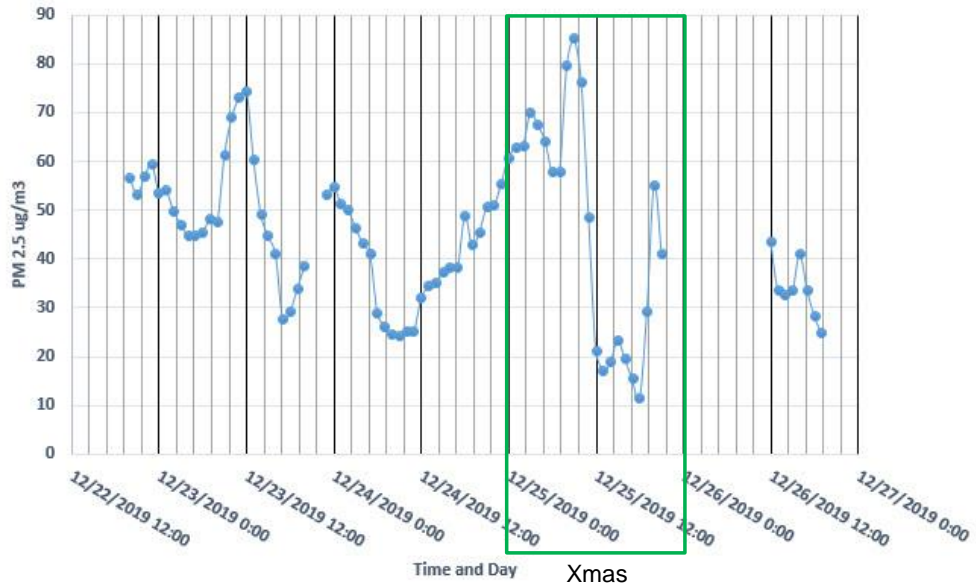


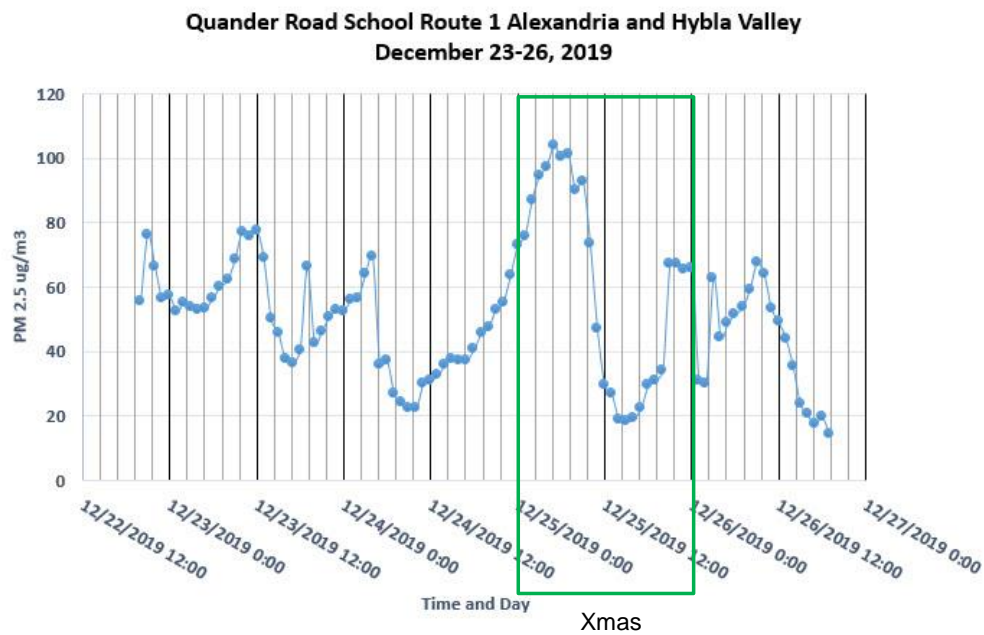
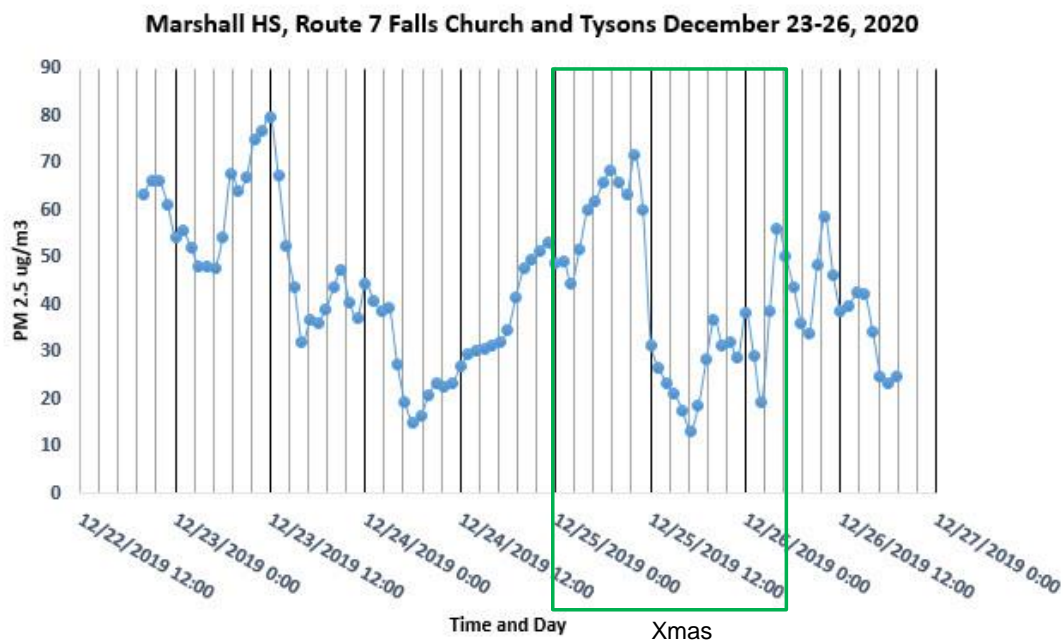
Purple Air Map Screenshot August 26, 2020

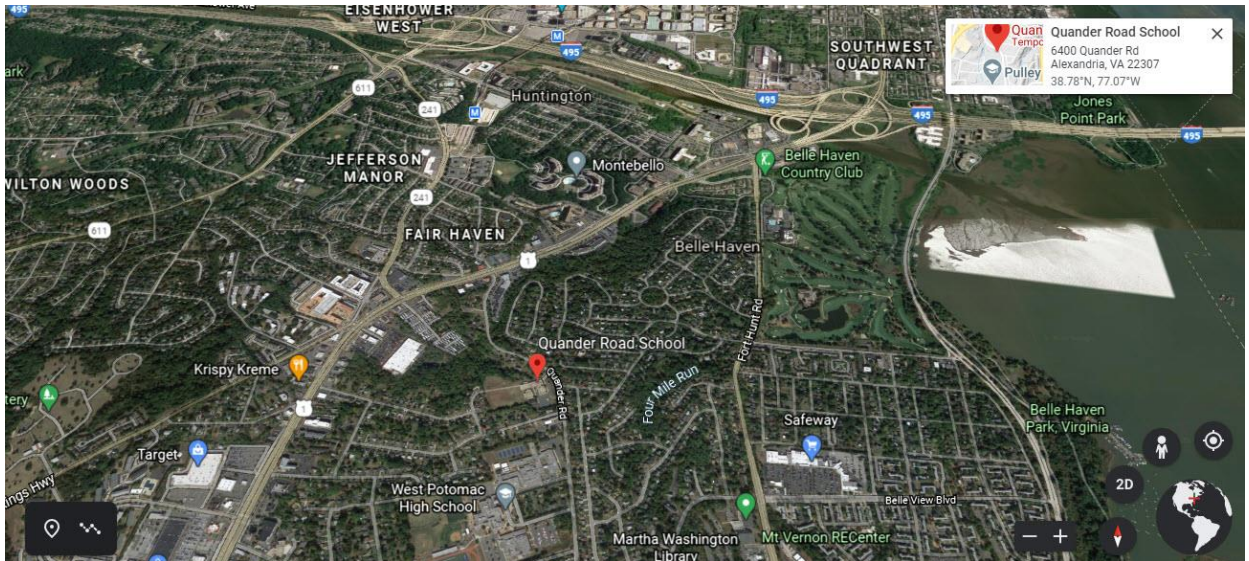




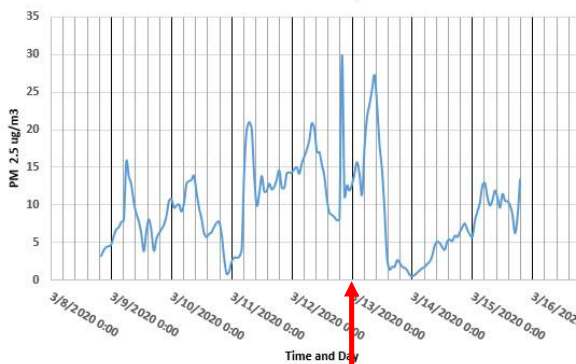
Chantilly HS Route 50 Fair Oaks and Chantilly December 23-26, 2019



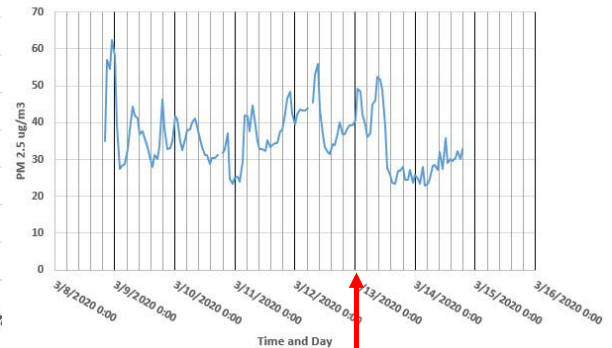




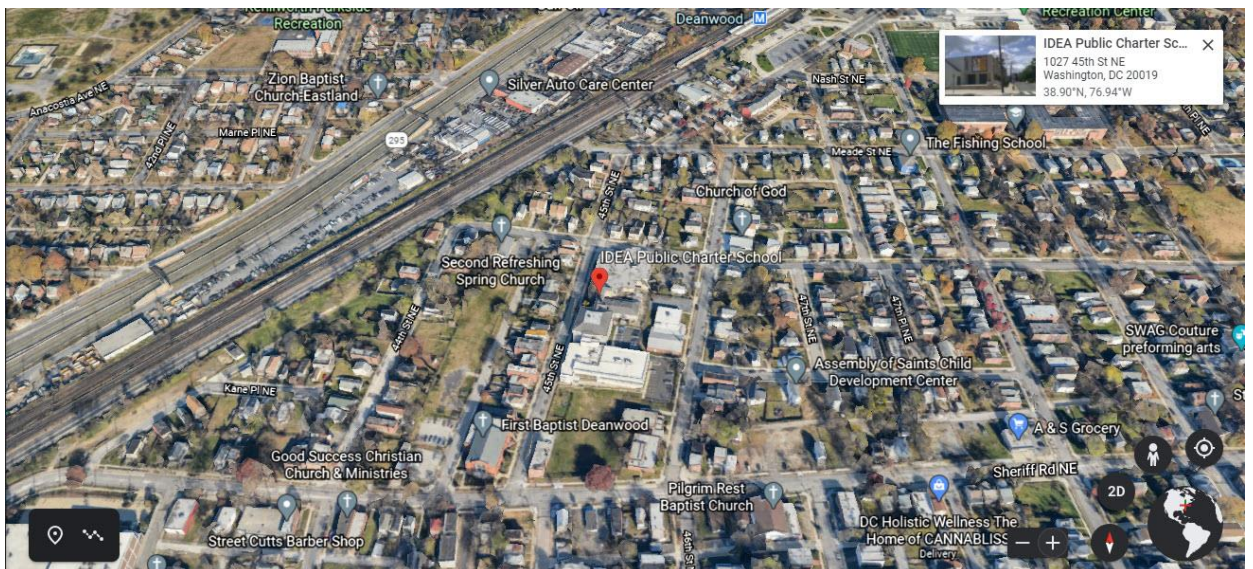
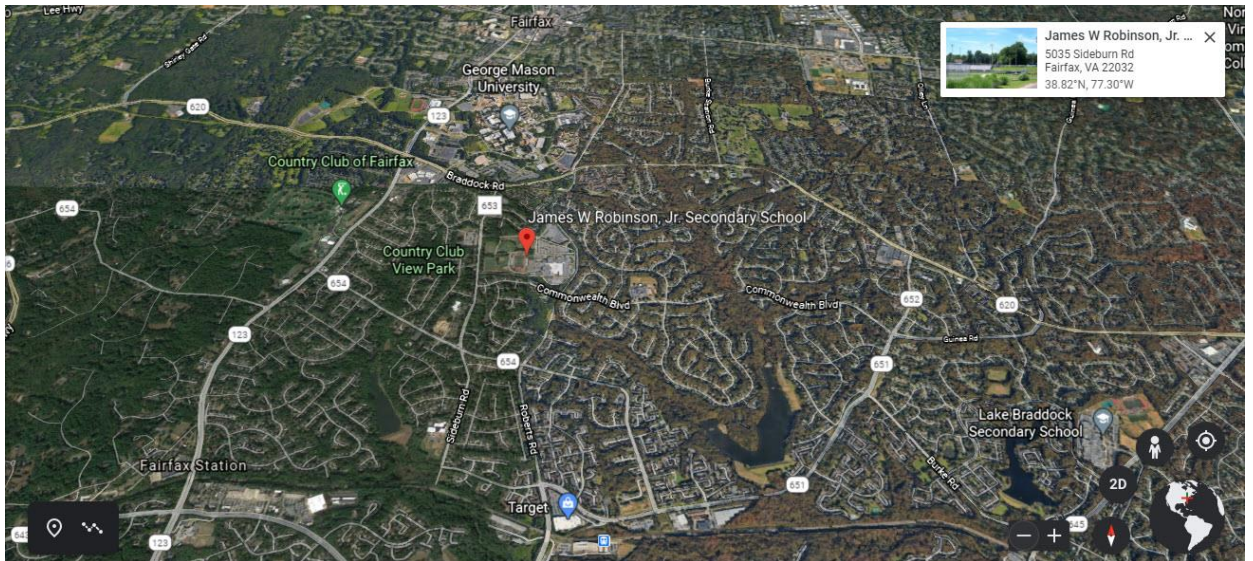
Robinson Secondary School Sideburn outside 495 Fairfax
March 9-15, 2020



IDEA PCS, Ward 7 Deanwood along 295/freight and metro
March 9 to 15, 2020



Schools Closed due to Covid19





Graph campus ozone and particulate data



Analyze campus ozone and particulate data



Awareness of air quality as a public good



Propose solutions to reduce campus air pollution

**Sensors:
install and use**

Spring 2019-Fall 2020, teachers received sensors, training, and ongoing tech/user support

**Data Collection
and Content**

Fall 2020, teachers were given access to lessons and started collecting data

**Student
conference**

SEAS 2020 cancelled due to Covid; SEAS 2021 pending

Next Steps

- Ongoing recruitment and training
- Needs assessment for participating teachers and org's
- Google Site
<https://sites.google.com/view/ourairyourfuture/home?authuser=0>
- Include more resources
 - EPA AQI Flag Program
 - Satellite Data
 - Purple Air Data
 - AWMA Lessons
- Support teachers to prepare students for SEAS 2021

Acknowledgements:



Thank you

Questions?

iamespike@gmail.com
easpike@fcps.edu



Image designed by Prawny