

# Eden Park Community Ambient Air Quality Study

## *Preliminary Data Evaluation* & PM Advance

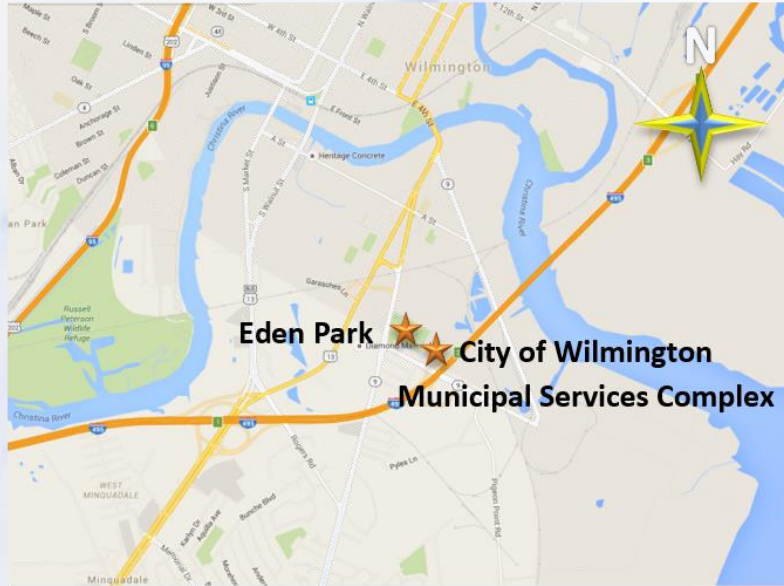


Presented by: DNREC Division of Air Quality



# MMP Eden Park Study: Project Planning

## Site Selection

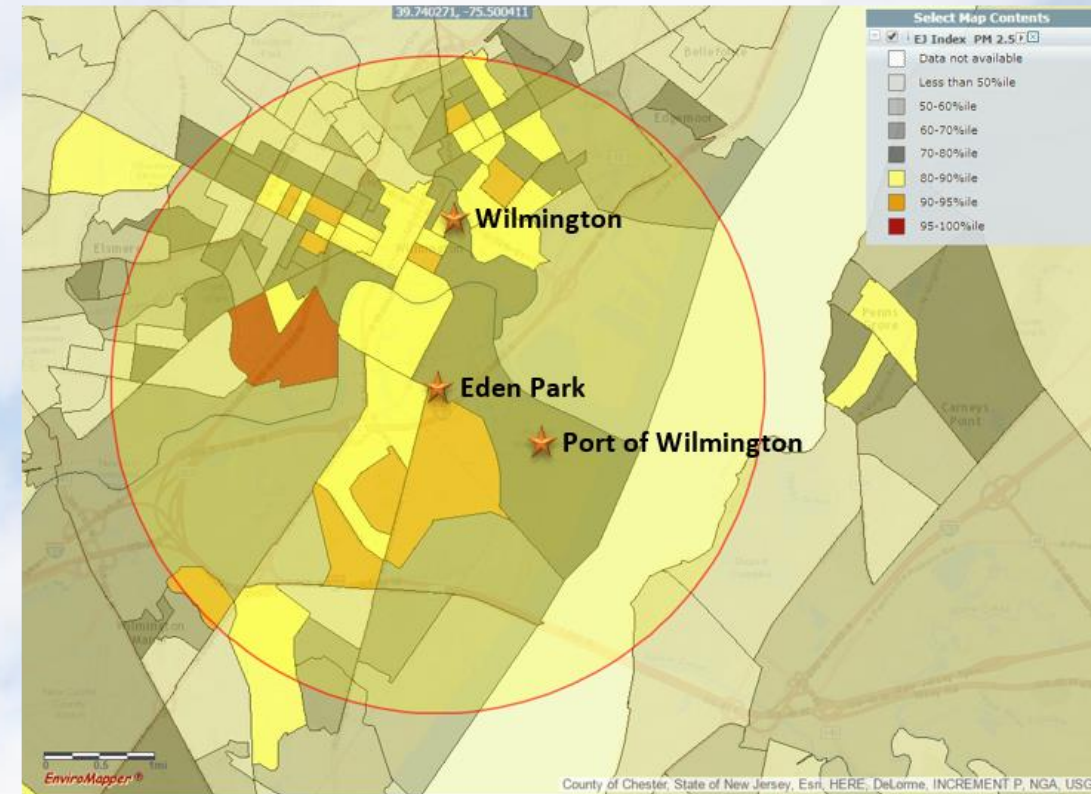


Location of MMP and Eden Park



## Community Concerns

### *Fugitive Dust*



EPA's Environmental Justice Screening Tool Map for PM<sub>2.5</sub> EJ Index surrounding Eden Park  
Circle marks a 3 mile radius surrounding the community (Locations are approximate)

## Objectives:

Primary Objective: Investigate local ambient air concentrations of certain pollutants to evaluate the local conditions

Secondary Objective: Determine if permanent monitoring sites are representative of local conditions or whether there is need for local monitoring



# MMP Eden Park Study: Equipment Pictures





# MMP Eden Park Study: Compass Quadrant Views from Roof of MMP





# MMP Eden Park Study: Equipment Setup Pictures



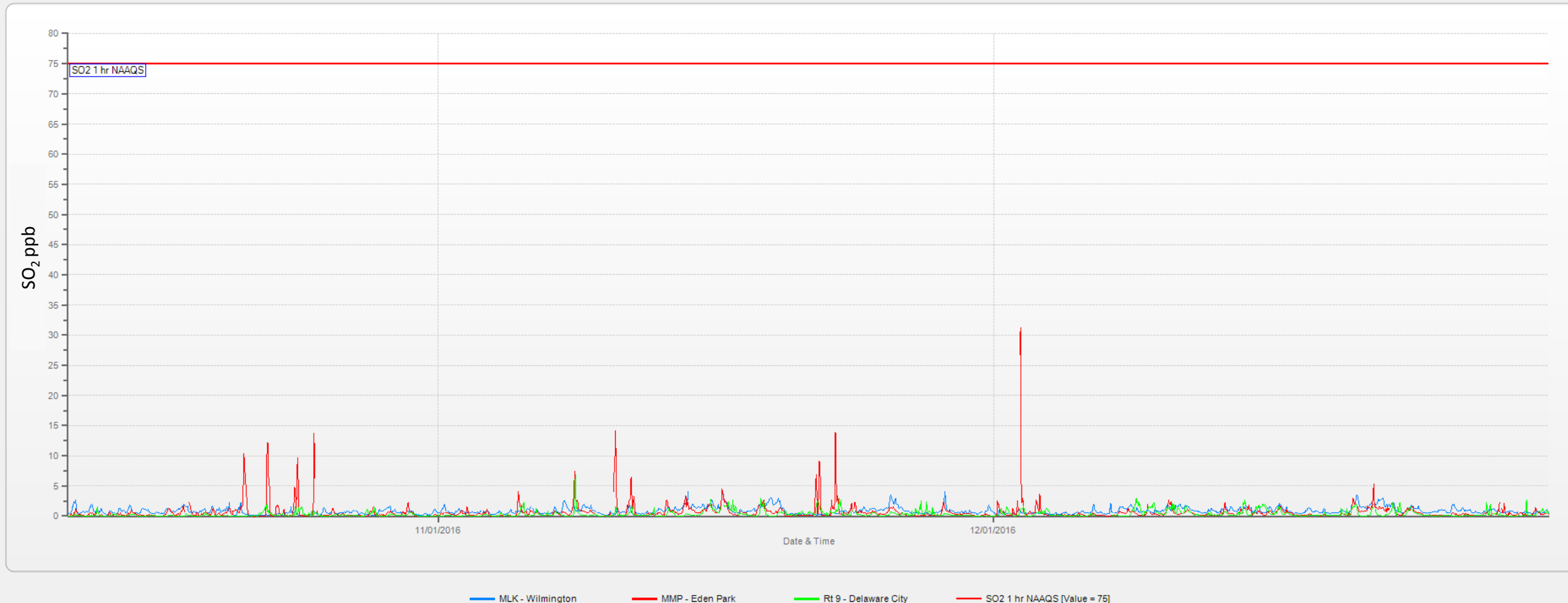


# MMP Eden Park Study: Equipment Picture Updates



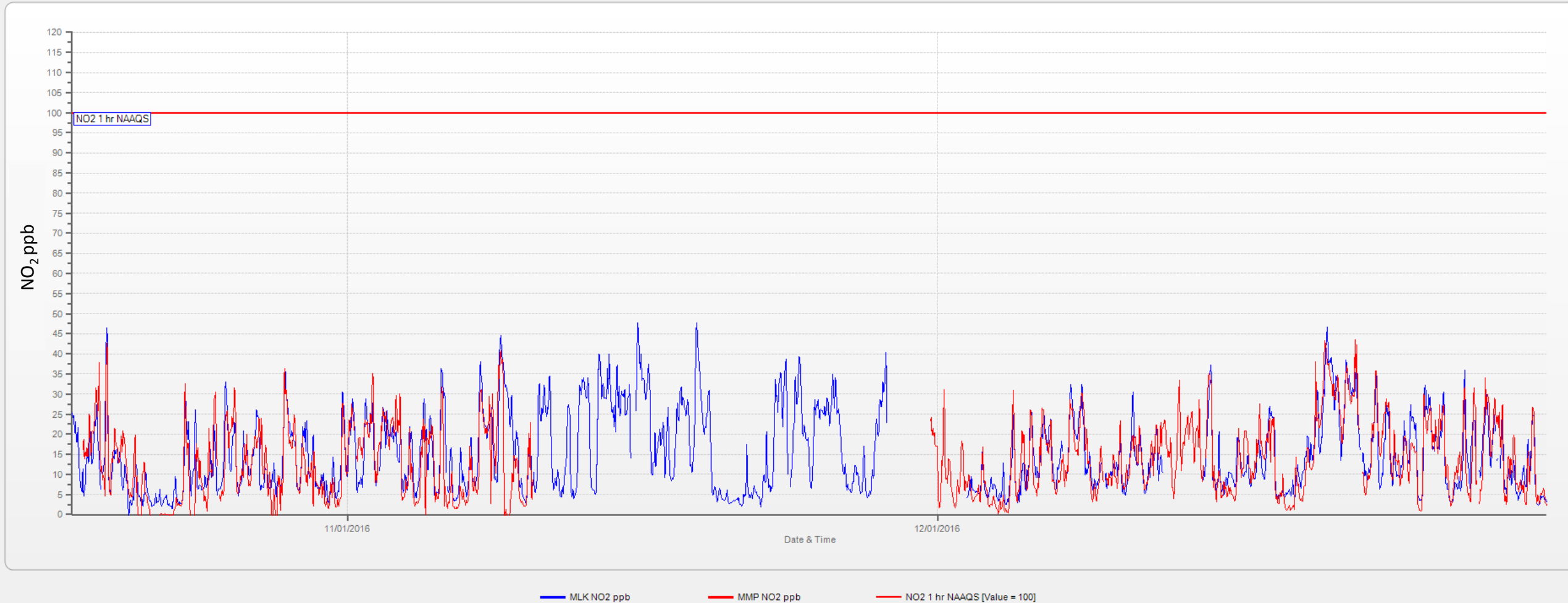
# MMP Eden Park Study: Preliminary SO<sub>2</sub> Data

Sulfur Dioxide (SO<sub>2</sub>) hourly average concentrations at the MMP and permanent sites in Wilmington and Delaware City. All readings below the 1 hour Standard of 75 parts per billion (ppb).



# MMP Eden Park Study: Preliminary NO<sub>2</sub> Data

Nitrogen Dioxide (NO<sub>2</sub>) hourly average concentrations at the MMP and Wilmington site.  
All readings below the 1 hour Standard of 100 ppb.

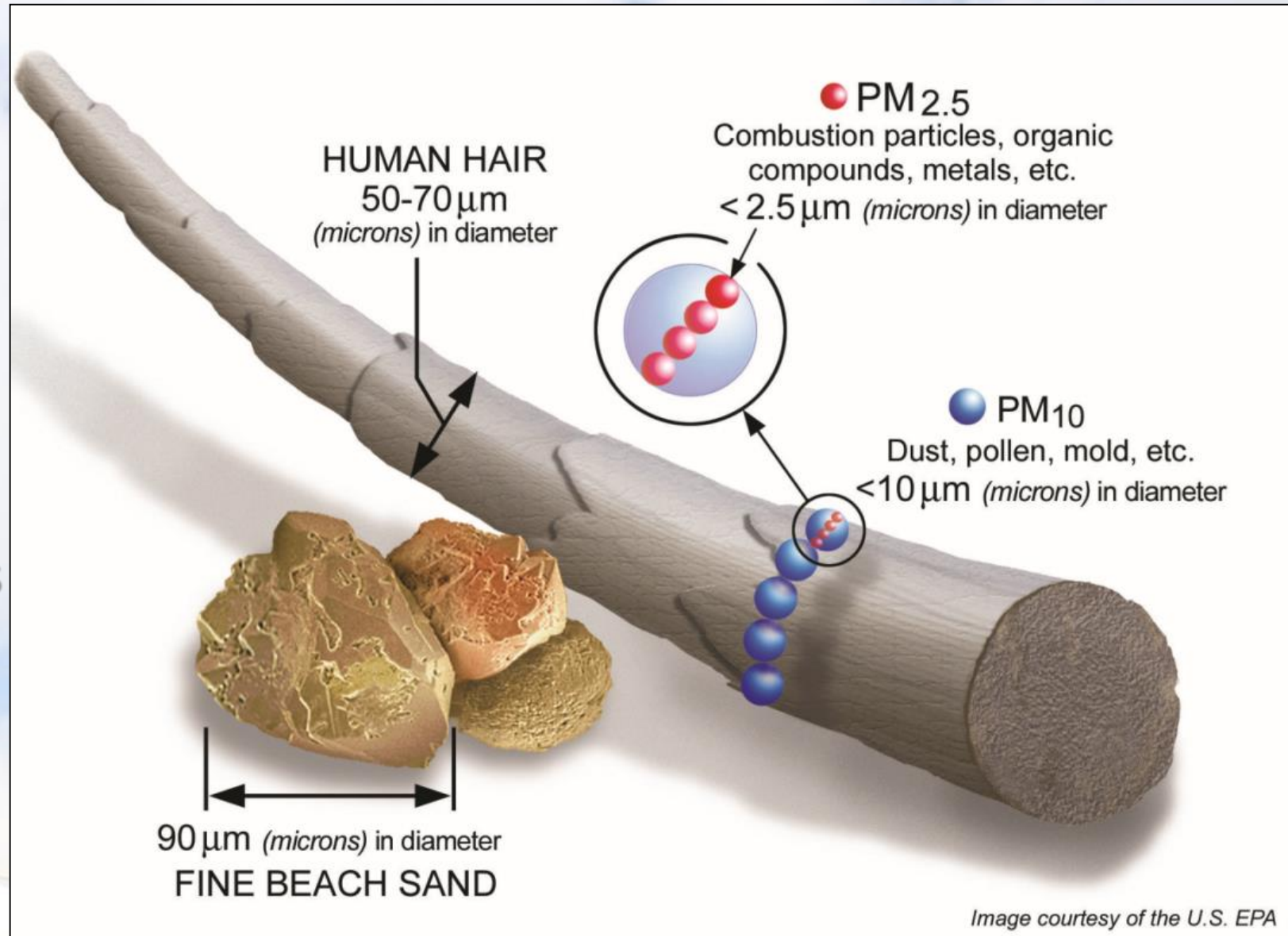




# MMP Eden Park Study: Particulate Matter Background

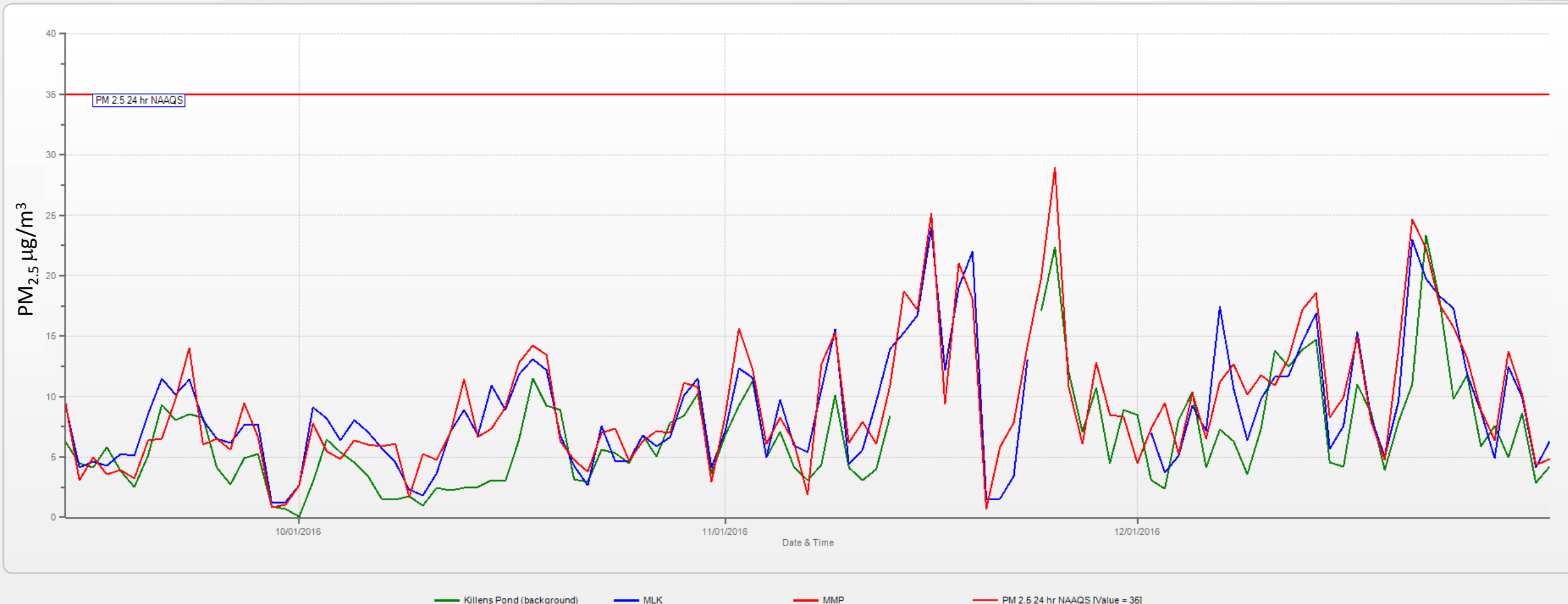
## Sources of PM

- Roads
- Construction Sites
- Fires
- Smokestacks
- Automobiles and Trucks
- Industries
- Agricultural Activities



# MMP Eden Park Study: Preliminary PM<sub>2.5</sub> Data

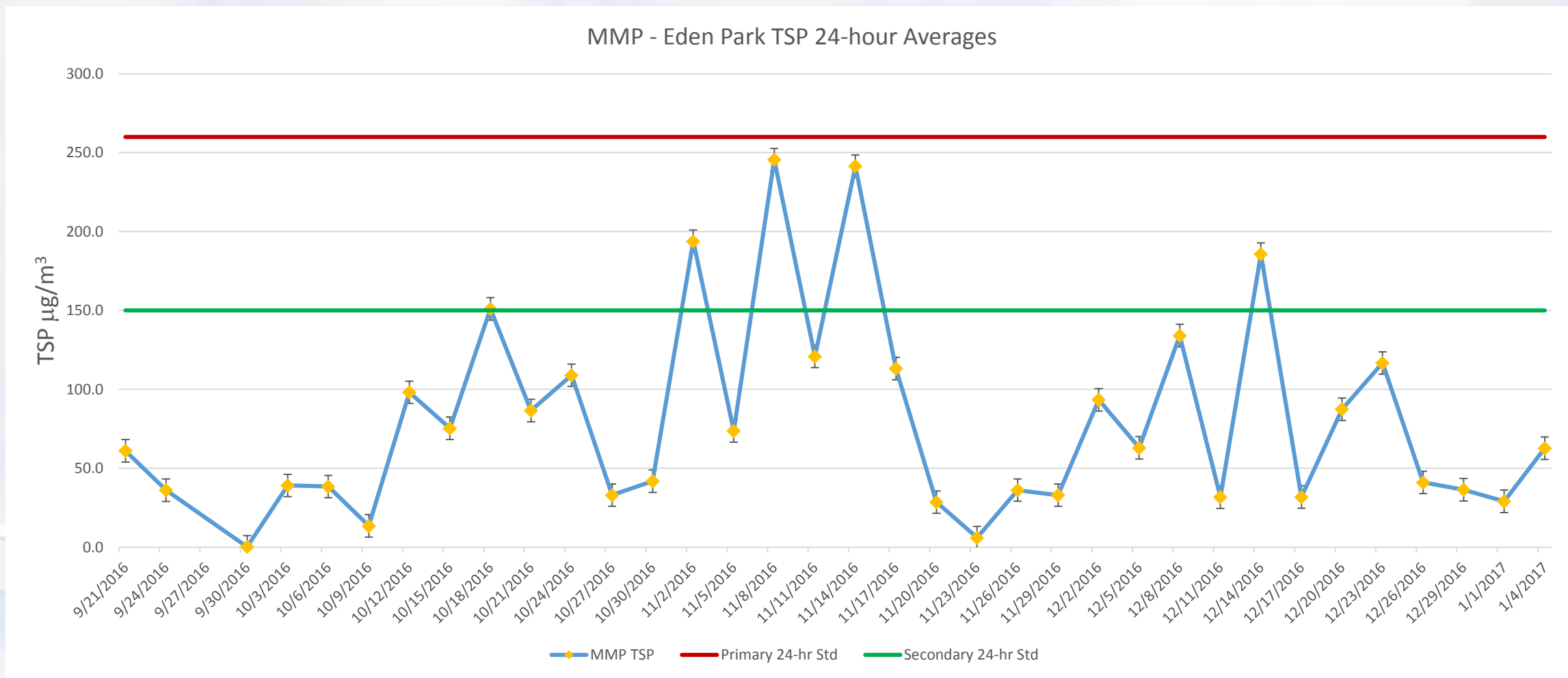
Particulate Matter at 2.5 microns in diameter (PM<sub>2.5</sub>) 24 hour average concentrations at the MMP, Wilmington and Kent County sites. All readings below the 24 hour Standard of 35 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).



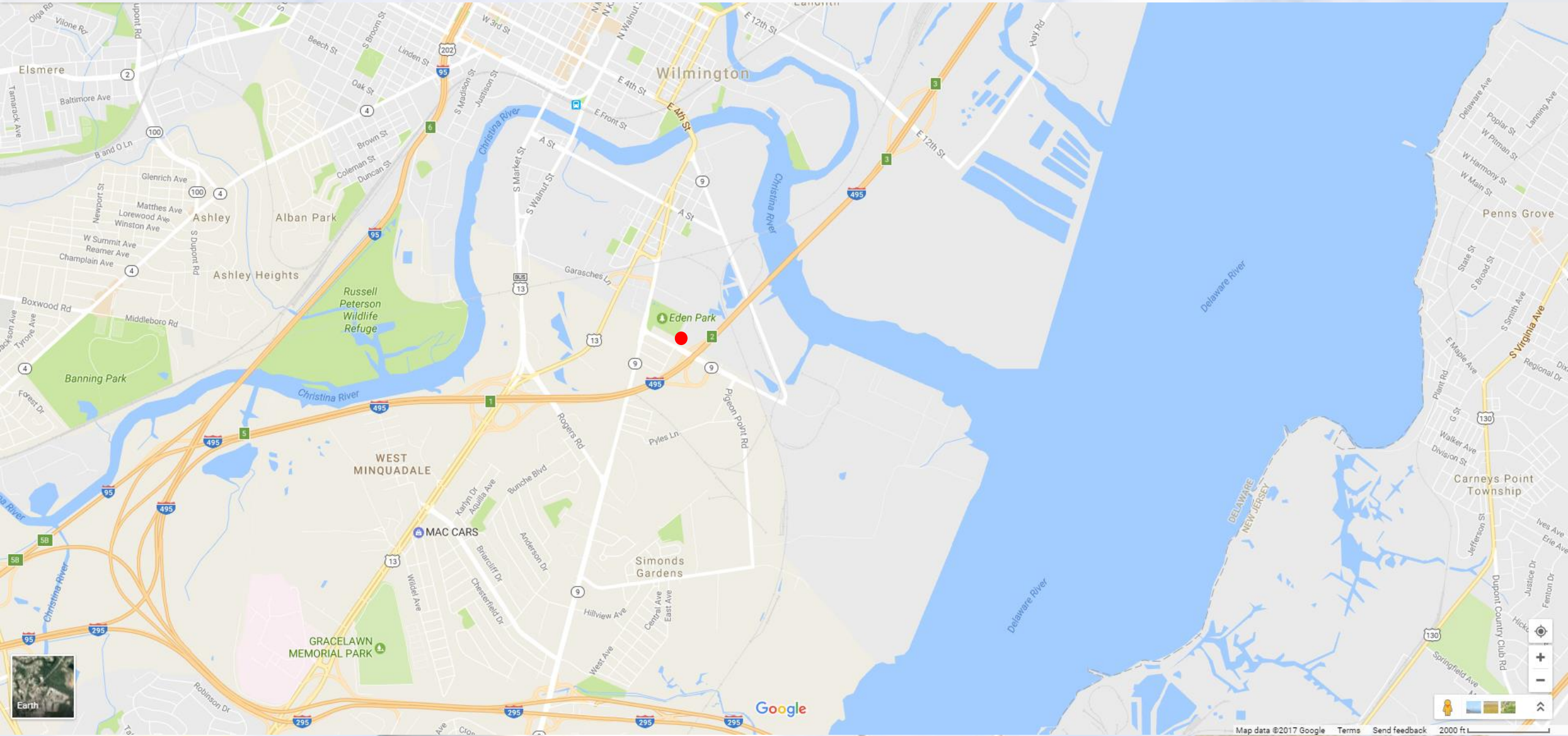


# MMP Eden Park Study: Preliminary TSP Data

MMP 24 hour average Total Suspended Particulate (TSP) concentrations.  
Delaware Primary and Secondary Standards shown.



# MMP Eden Park Study: Map





# MMP Eden Park Study: Summary

Data collection and evaluation is currently on going since September 2016

Preliminary data evaluation indicates the following:

- TSP levels have met or exceeded the State Secondary standard 5 times.
- Other criteria pollutant values are consistent with sites in urban environments and values are below their respective standards.



# PM Advance



- A collaboration between EPA and state air quality agencies to reduce PM pollution
- Proactive program - helps states that meet the EPA PM standards continue to improve air quality
- Mission of Delaware PM Advance: Work together with communities and industry to reduce particulate matter emissions and protect the public
- Inform community groups about grant opportunities
- Focus on voluntary methods





# Current PM Advance Projects

- Monitoring Particulate Matter in Eden Park Using the Moveable Monitoring Platform (MMP)
- DAQ's Participation in Route 9 Corridor Master Plan
- Diesel School Bus Replacement

## Future Projects/Activities

- Use MMP to identify new areas where we can work with local communities to find solutions to particulate matter problems (after Eden Park study is completed)
- Develop web page for PM Advance Program – late March
- Seek public input on proposed PM Advance projects and activities – through website
- Diesel Emission Reduction Program



# Contact Information

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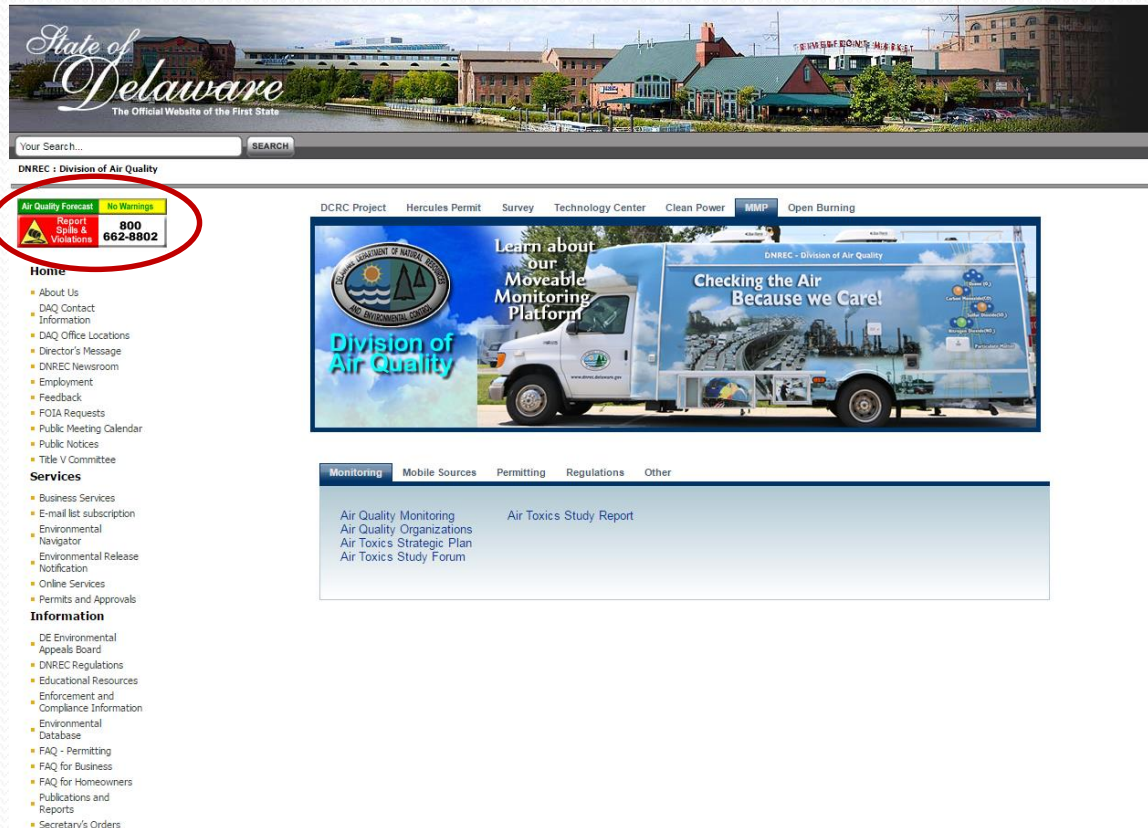
DNREC: Division of Air Quality



# Complaints and More Information

Complaint line numbers:

Toll Free: 1-800-662-8802, Local: 1-302-739-9401, #367 for Verizon Wireless customers



Division of Air Quality Website:  
<http://www.dnrec.delaware.gov/Air/Pages/Default.aspx>