

**FINAL**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
**Region VI**



**Air Monitoring Summary**

**Camp Minden Area I**

**Start Time: 10-19-2016 1800 - End Time: 10-20-2016 1800**

October 20, 2016 – EPA monitored for seven ambient air pollutants over a 24 hour period at the Camp Minden Area I air monitoring location. The seven pollutants included carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, nitrogen oxides, sulfur dioxide, and fine particulates. Over the 24 hour period, each of these pollutants were detected below EPA’s National Ambient Air Quality Standards or the action benchmark when an air quality standard had not been previously established.

Below is a summary of Camp Minden Air Monitoring Data collected at the location referenced above. The table contains a detailed listing of the following:

- 1 Average reading of each analyte from October 19, 2016 1800 through October 20, 2016, 2016 1800
- 2 Highest measurement of each analyte from October 19, 2016 1800 through October 20, 2016 1800

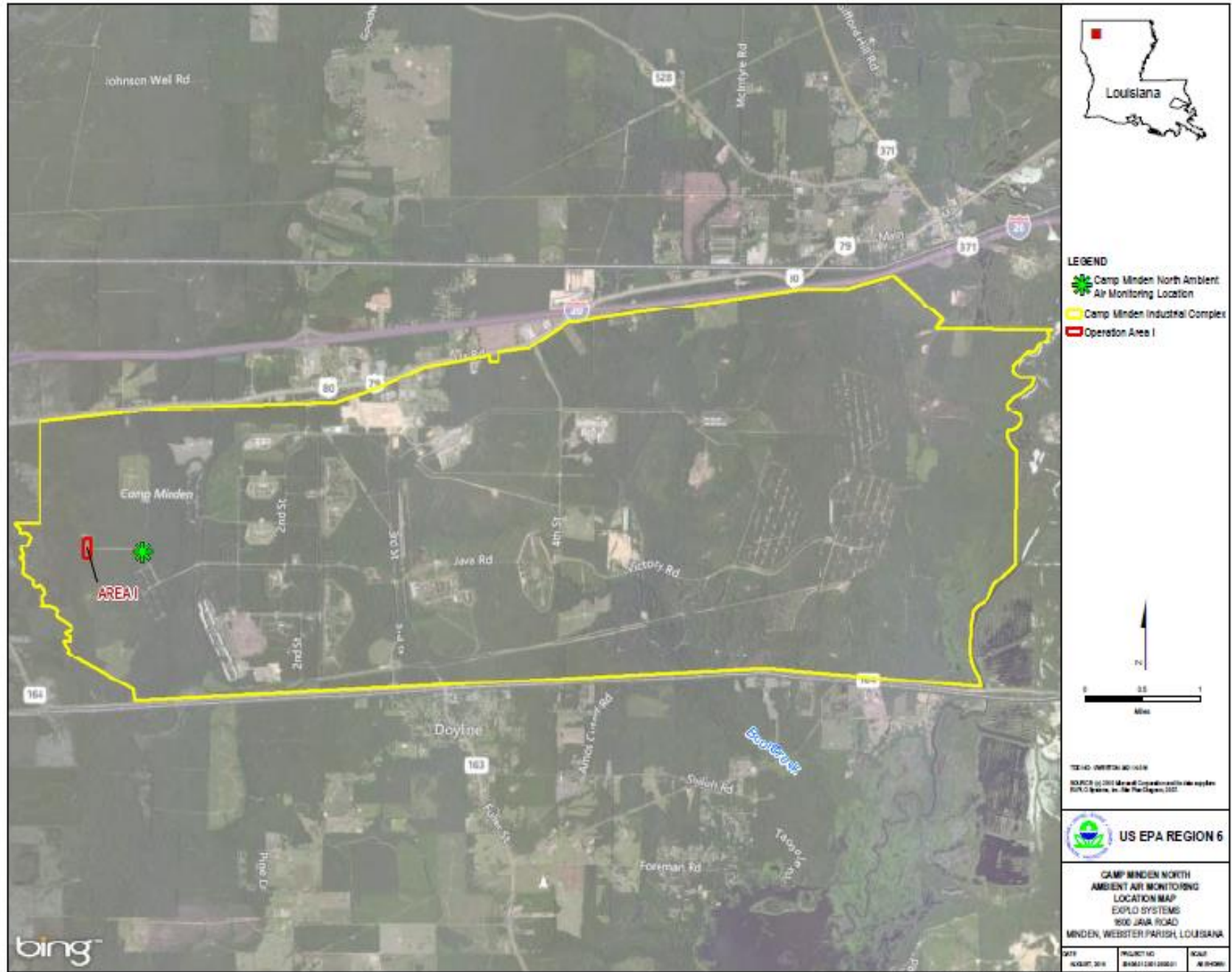
National Ambient Air Quality Standards (NAAQS) of criteria pollutants (CO, NO<sub>2</sub>, SO<sub>2</sub>, and PM<sub>2.5</sub>) are listed with specific time frames and calculation formulas. Please visit NAAQS website for more in-depth information on how these are calculated - <https://www.epa.gov/criteria-air-pollutants/naqs-table>.

\*\* Note: PM<sub>2.5</sub> was captured in 60-min averages. All other analytes were captured in 1-min averages. All monitors were operating normally. There were two brief periods of high NO<sub>x</sub> readings from 1534-1546 CDT and 1654-1700 on 10/20. The 1-minute NO<sub>x</sub> readings peaked at 232 and 119 ppb for the two periods, respectively. There were simultaneous elevated CO and CO<sub>2</sub> readings (not as pronounced) with both events; SO<sub>2</sub> also increased very slightly (< 1 ppb) above baseline. Winds were from the north at 4-9 mph during those periods.

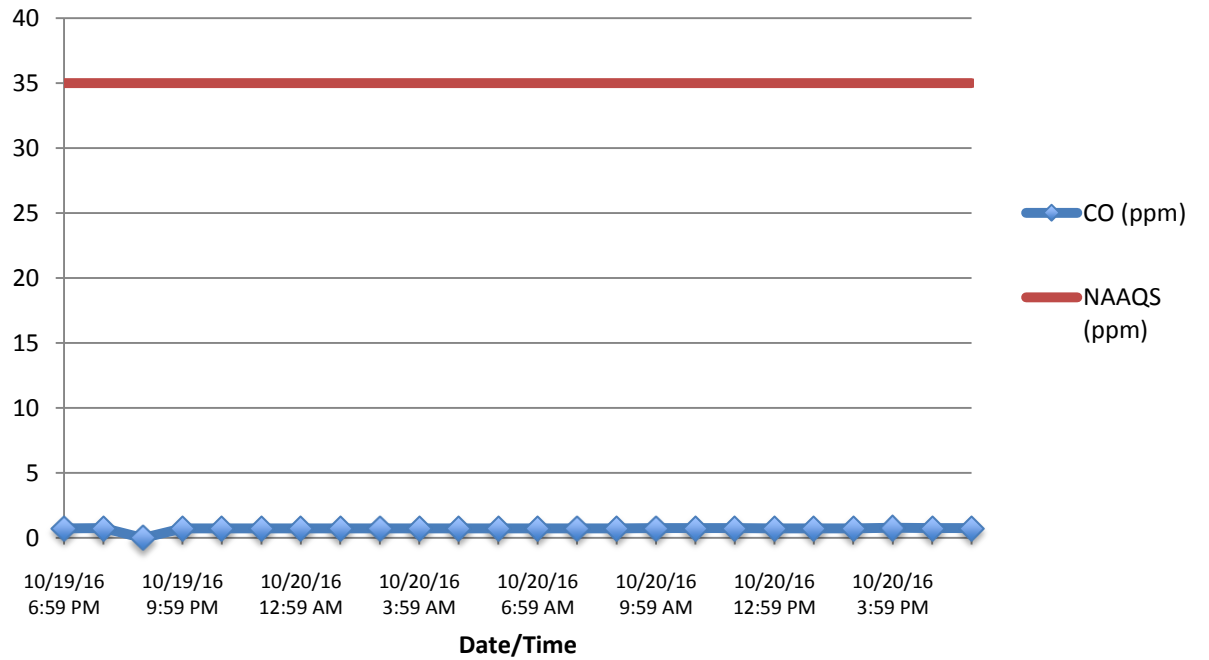
**Summary for 20 October 2016 at Camp Minden Area I**

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.769	1.181	ppm	35 (1-hour)
CO <sub>2</sub>	558.1	612.3	ppm	For Monitoring Only
NO	12.1	155.2	ppb	For Monitoring Only
NO <sub>2</sub>	7.1	77.1	ppb	100 (1-hour)
NO <sub>x</sub>	19.3	232.4	ppb	100 (1-hour)
SO <sub>2</sub>	0.5	1.1	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	4.99	9.7	ug/m <sup>3</sup>	35 (24-hour)

# Camp Minden Area I Station Location Map for 20 October 2016

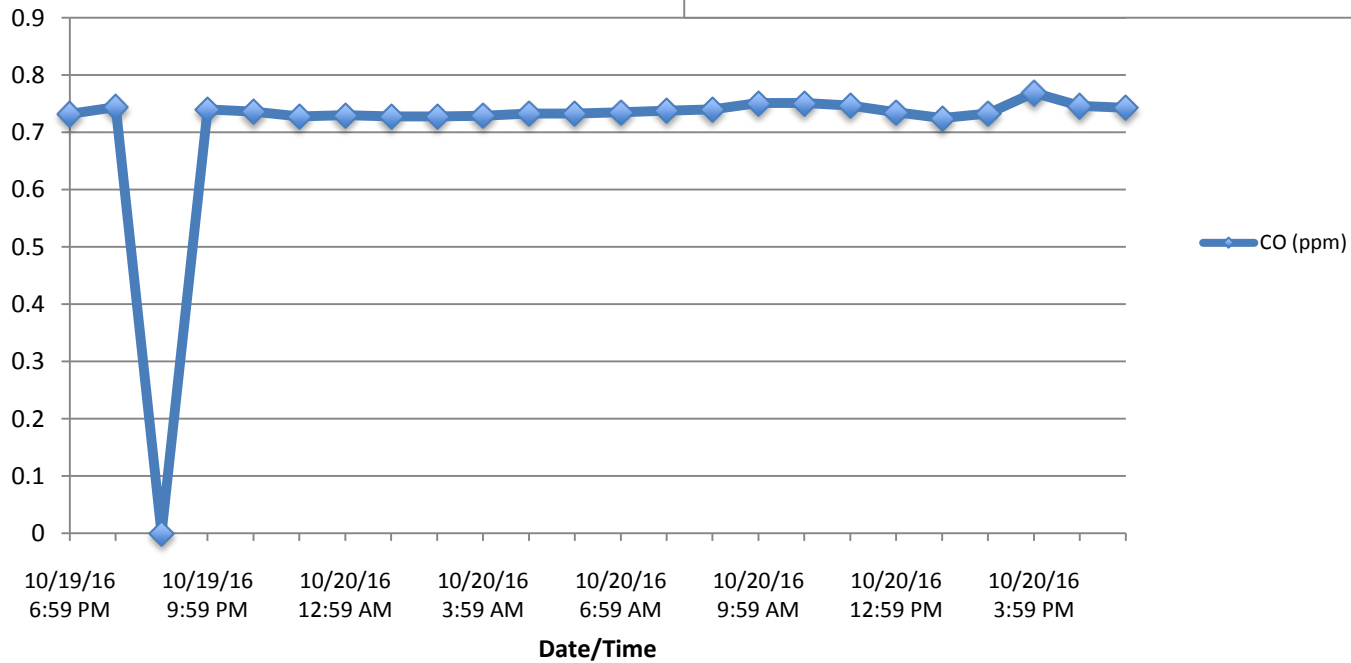


### Hourly Averages CO (ppm)

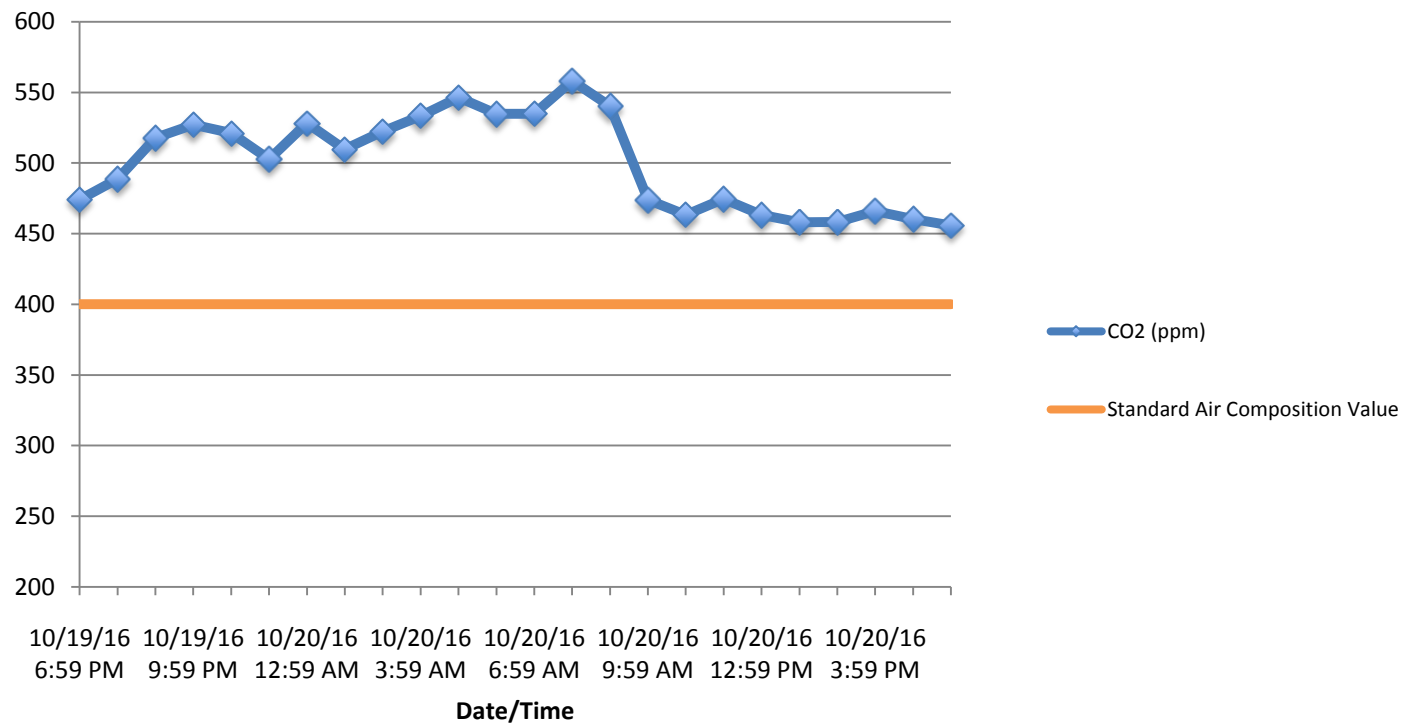


### Hourly Averages CO (ppm)

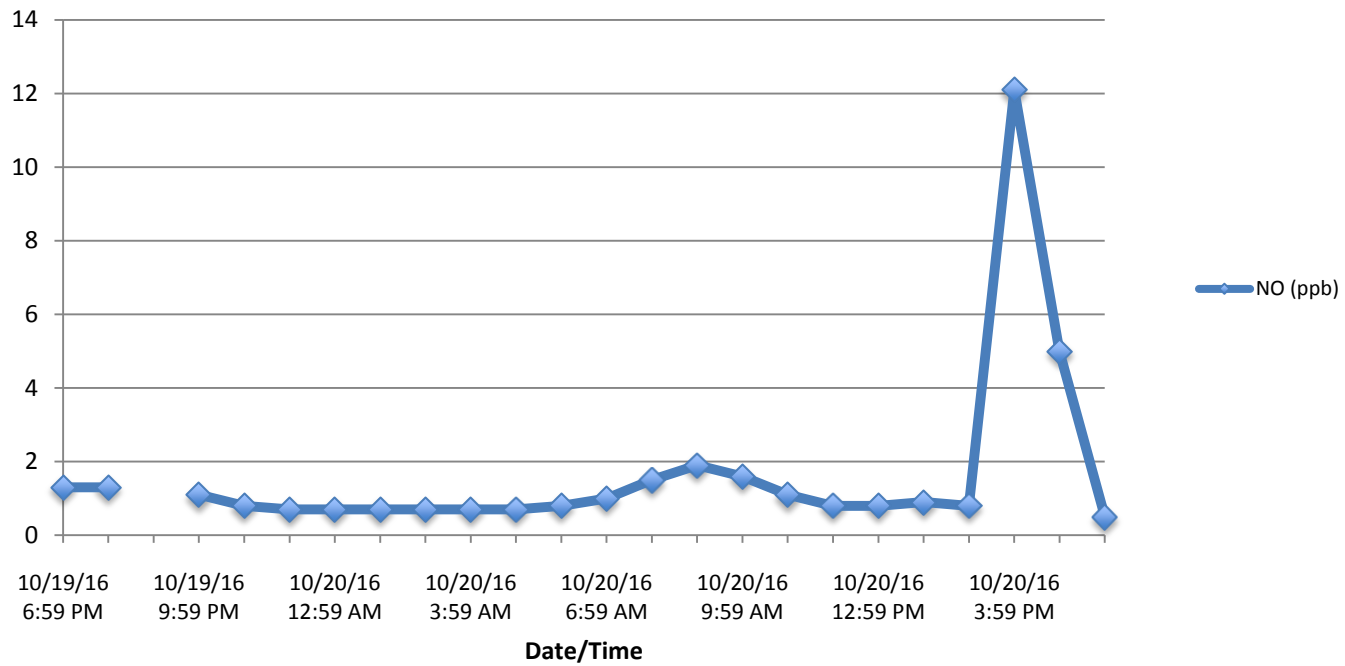
NAAQS 35 ppm



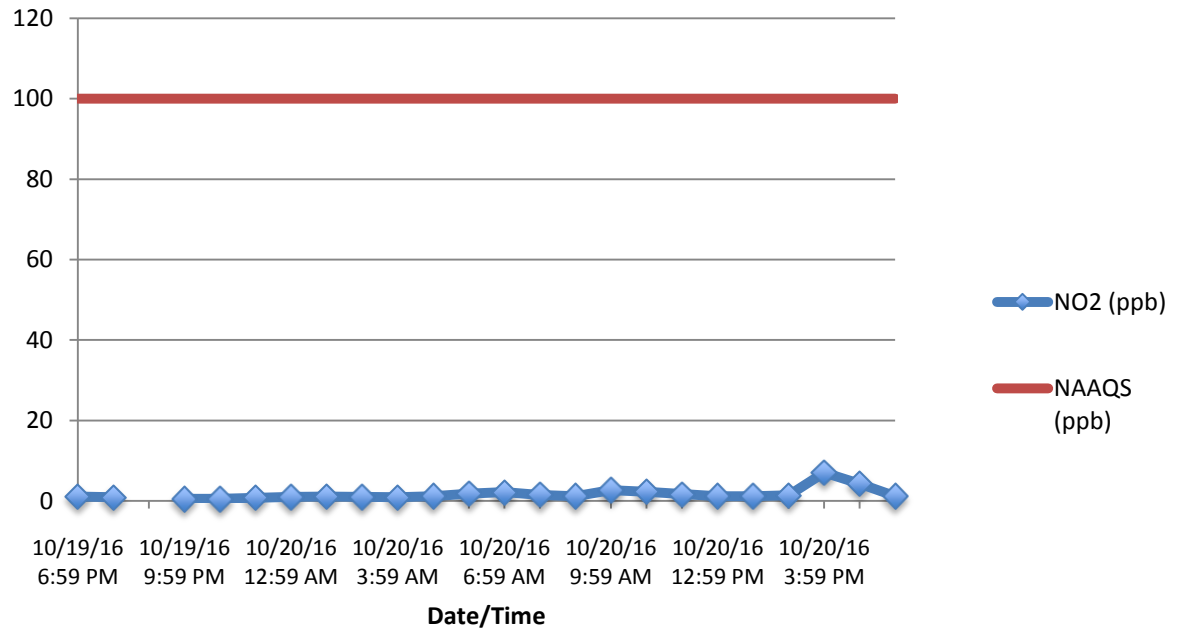
## Hourly Averages CO2 (ppm) For Monitoring Only



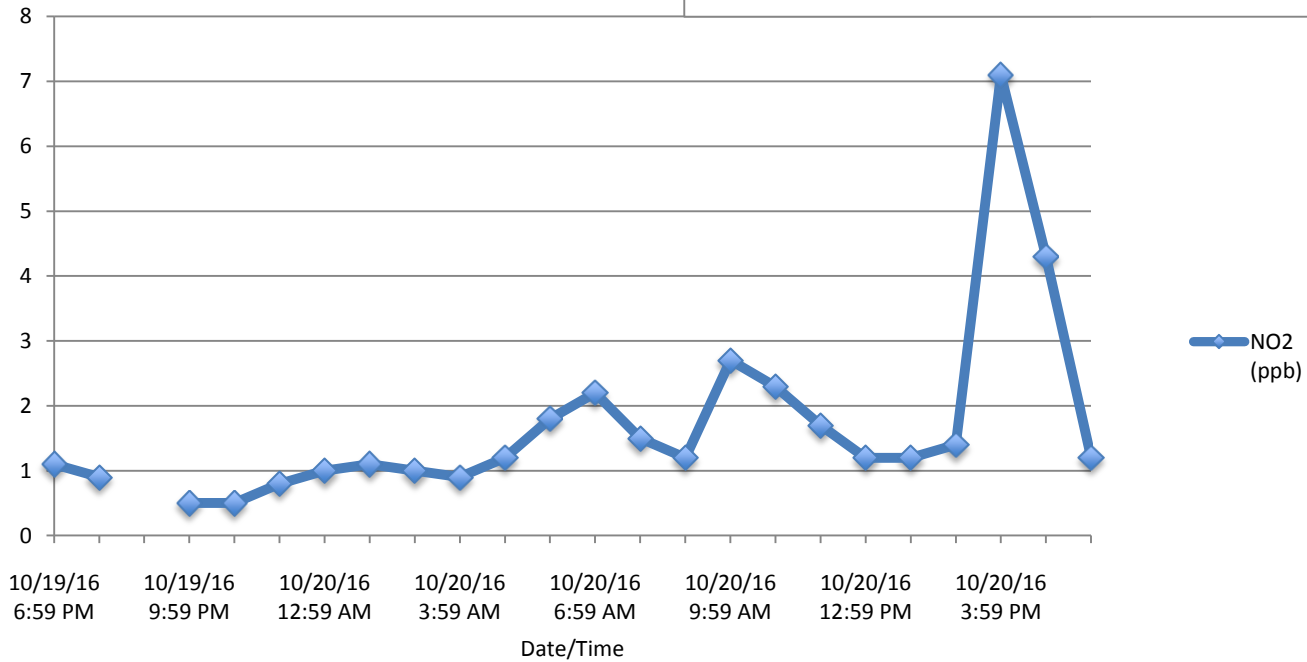
## Hourly Averages NO (ppb) For Monitoring Only



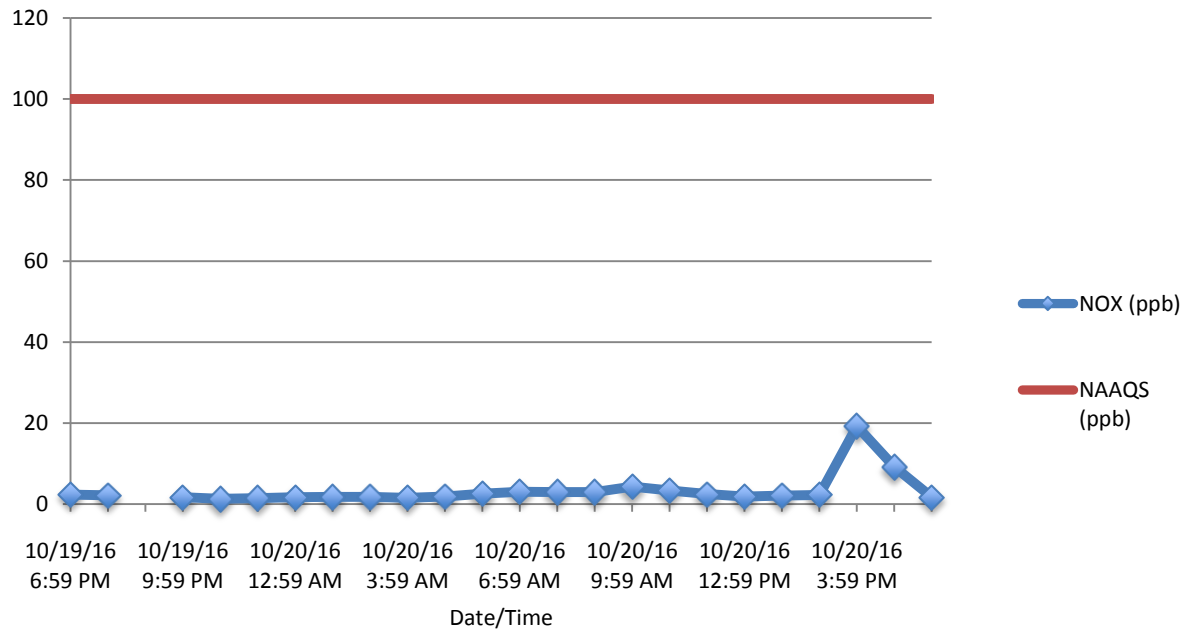
### Hourly Averages NO2 (ppb)



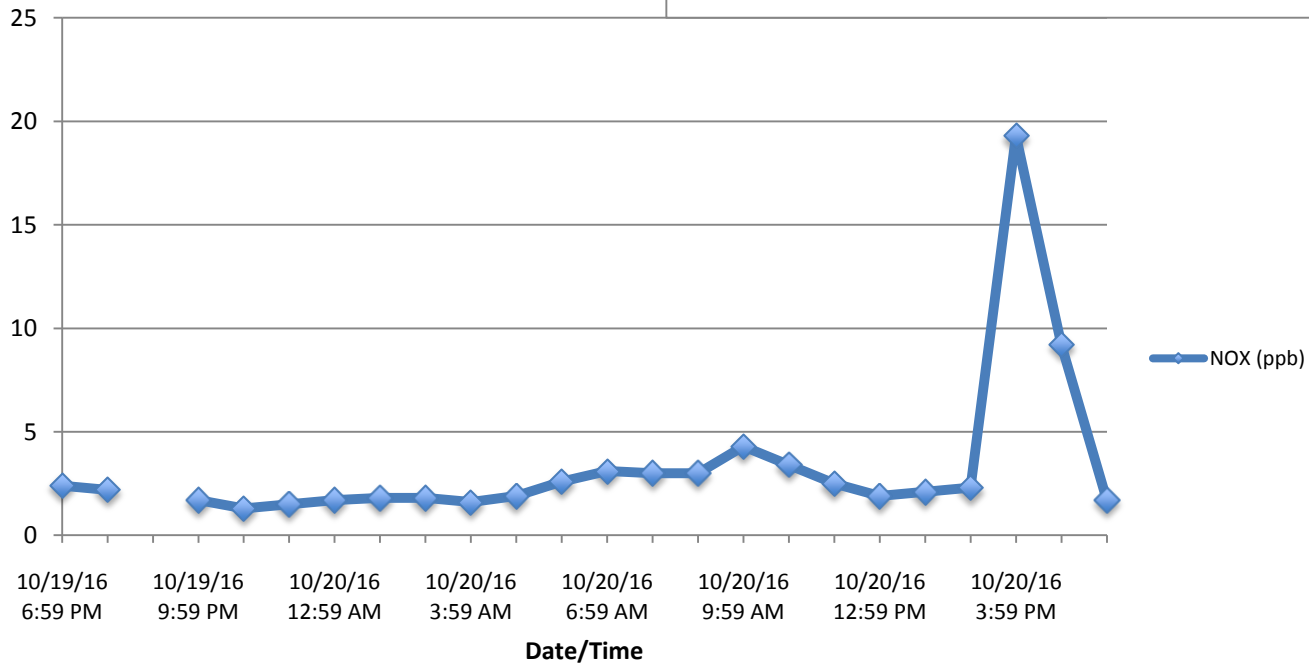
### Hourly Averages NO2 (ppb) NAAQS 100 ppb



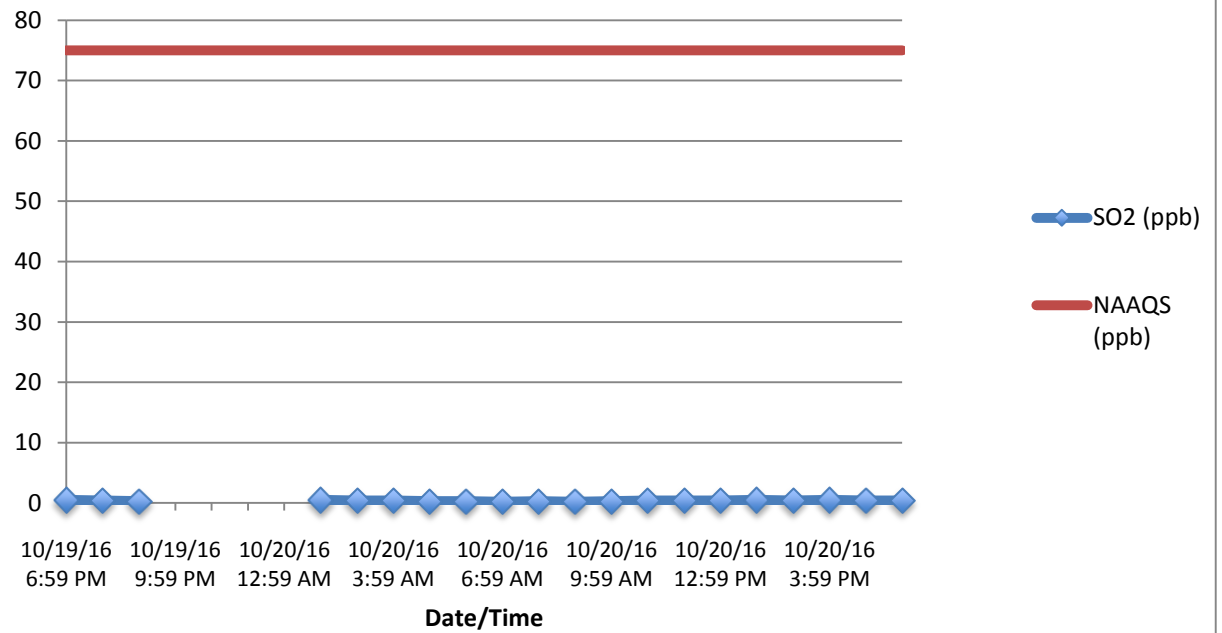
### Hourly Averages NOX (ppb)



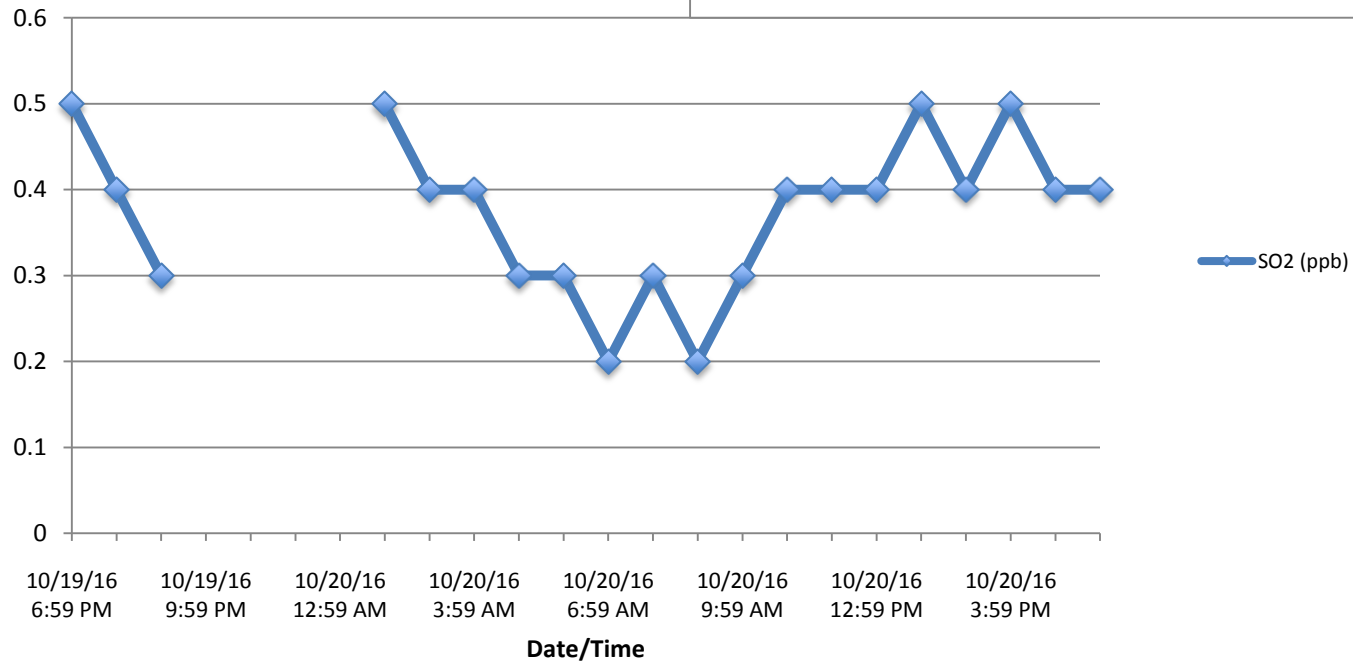
### Hourly Averages NOX (ppb) NAAQS 100 ppb



### Hourly Averages SO2 (ppb)

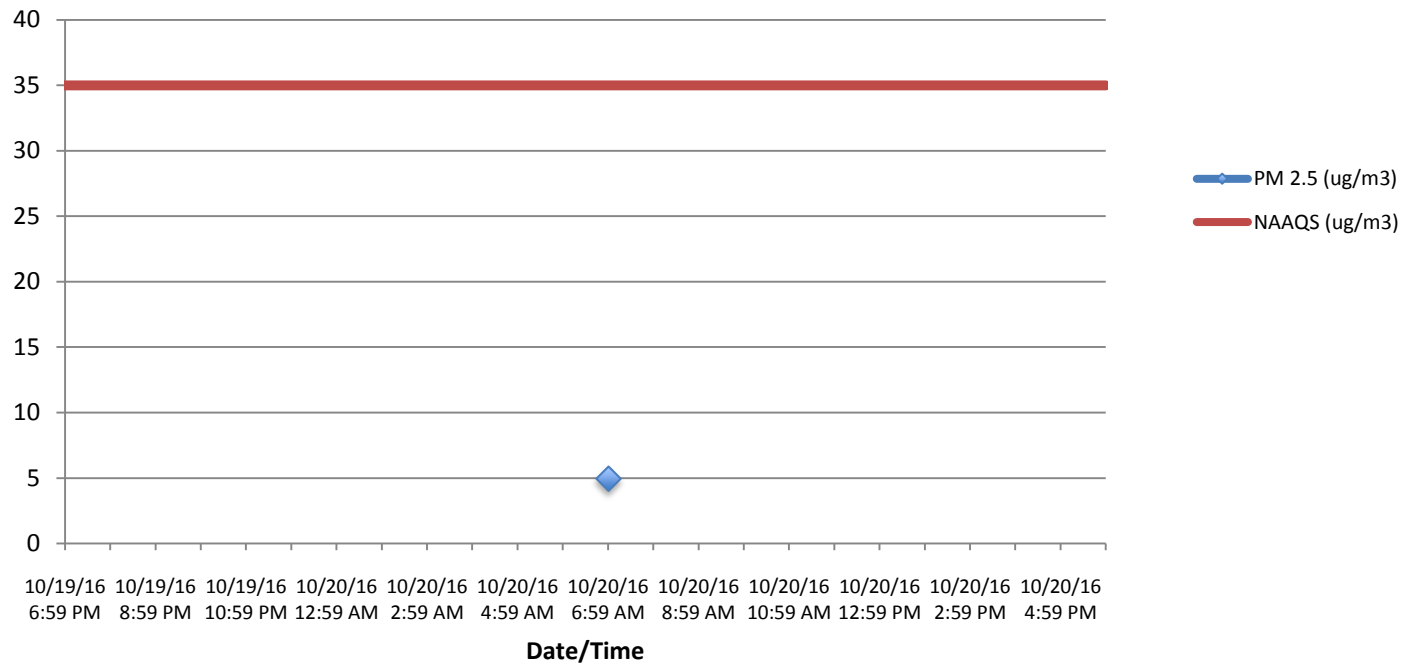


### Hourly Averages SO2 (ppb) NAAQS 75 ppb





# 24 Hour Average PM 2.5 (ug/m3) NAAQS 35 ug/m3



### Hourly Averages PM 2.5 (ug/m3)

