

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



**Air Monitoring Summary**

**Camp Minden North**

**Start Time: 06-19-2016 1800 - End Time: 06-20-2016 1800**

June 20, 2016 – EPA monitored for seven ambient air pollutants over a 24 hour period at the Camp Minden North 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 June 19, 2016 1800 through June 20, 2016, 2016 1800
- 2 Highest measurement of each analyte from June 19, 2016 1800 through June 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>.

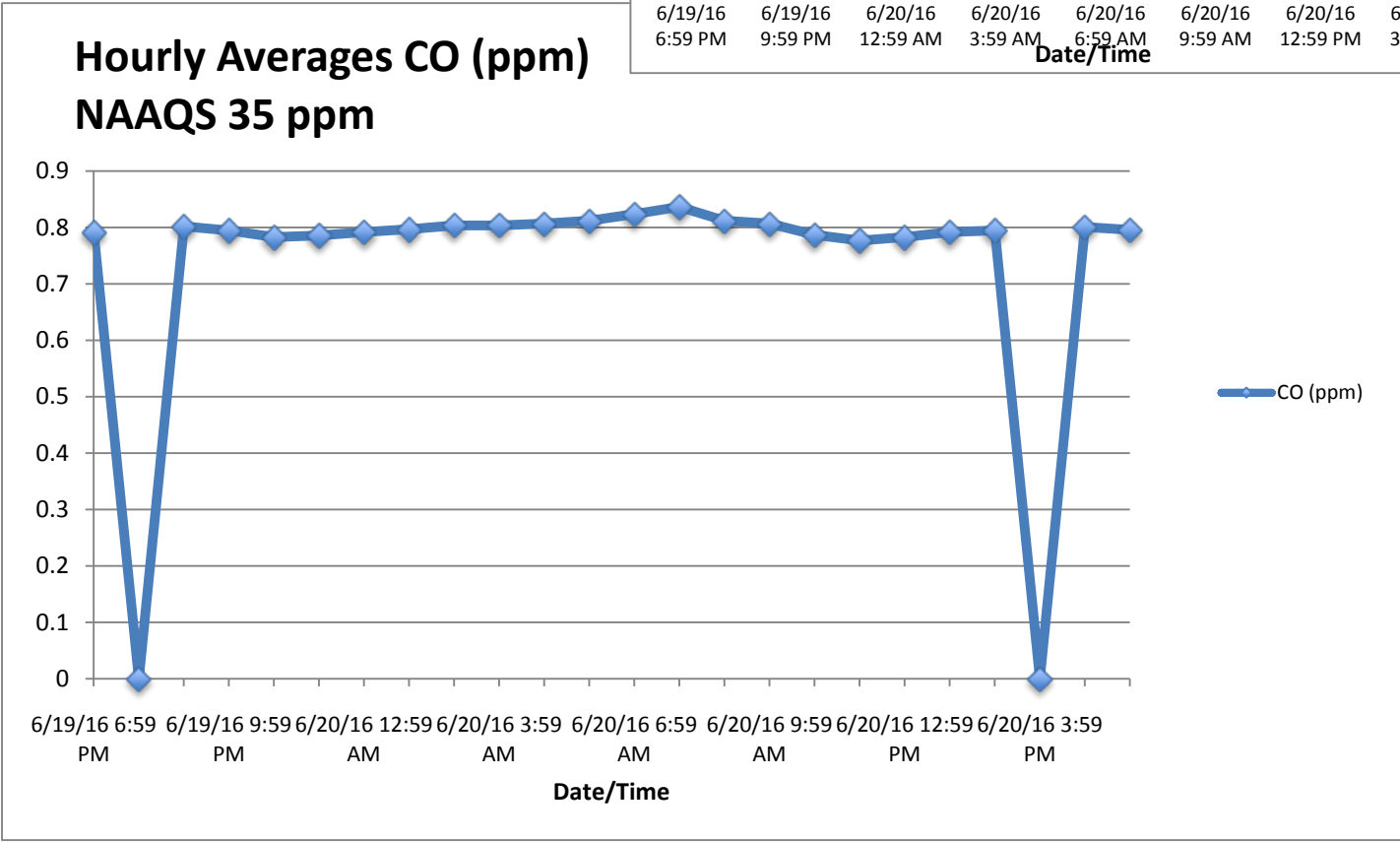
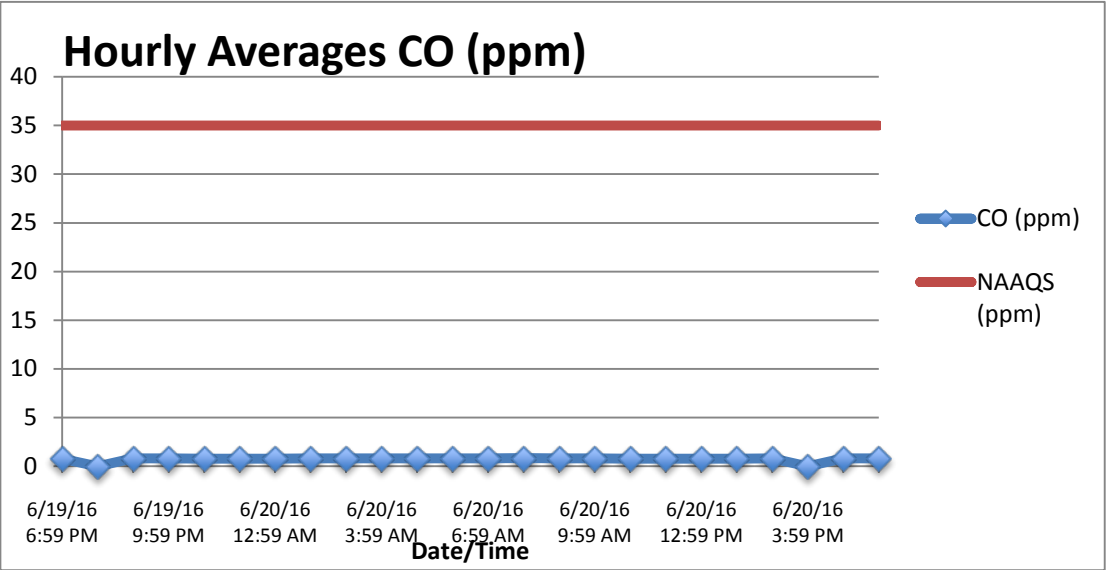
**\*\* Note:** The SO<sub>2</sub> analyzer failed to respond to the 2-day zero air purge; no improvement in flow was noted. The unit was shut down and removed for return to CleanAir for repairs; CleanAir was contacted to determine when a replacement unit would be available. There was a loss of data between 1500 -1600 CDT due to Modbus communications disruption when the SO<sub>2</sub> analyzer was disconnected; logger program was updated and reloaded at 1600 CDT. Small amount of condensation was noted in one of the solenoid connector lines. Additional countermeasures were designed and will be implemented over next few days. Monitoring for condensation will continue.

\*\* Note: PM2.5 was captured in 60-min averages. All other analytes were captured in 1-min averages.

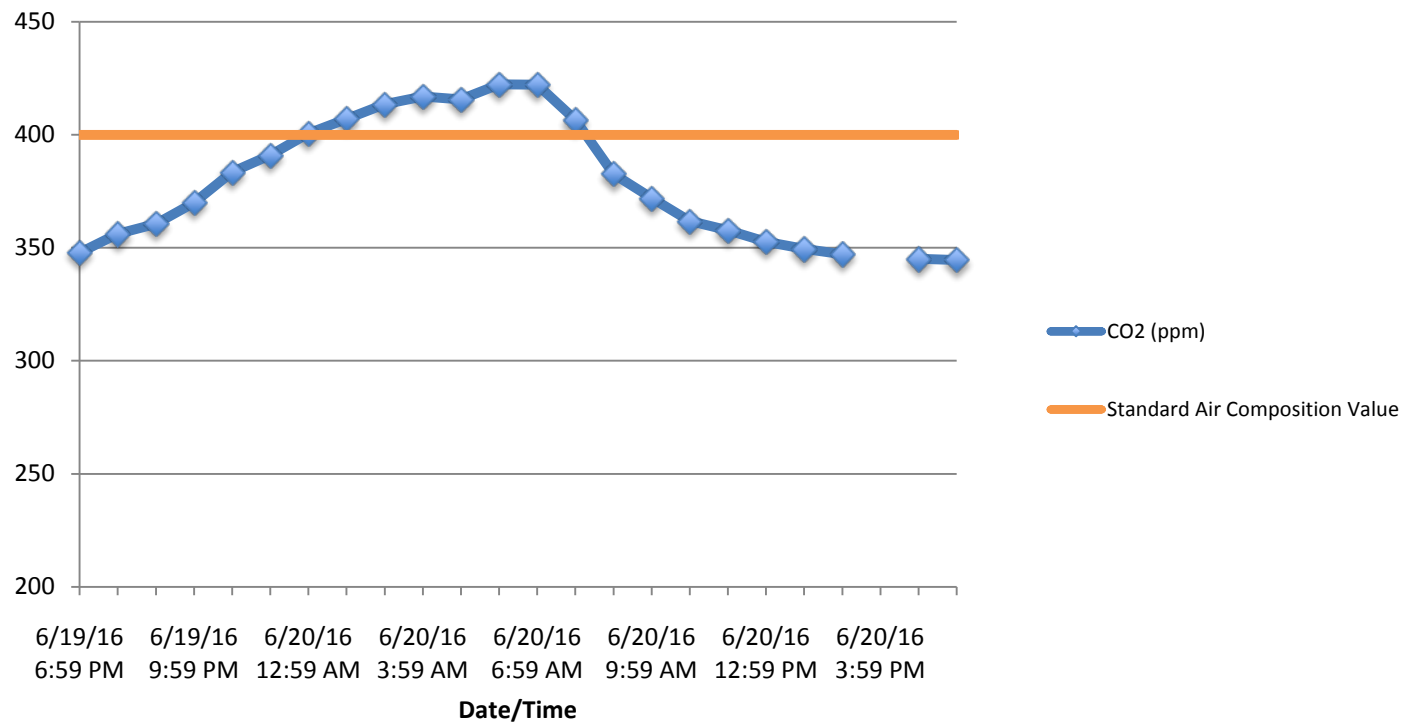
### Summary for 20 June 2016 at Camp Minden North

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.837	1.329	ppm	35 (1-hour)
CO2	422.3	442.0	ppm	For Monitoring Only
NO	0.8	2.6	ppb	For Monitoring Only
NO2	0.8	1.9	ppb	100 (1-hour)
NOX	1.6	4.0	ppb	100 (1-hour)
SO2	0.0	0.0	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	7.59	17.0	ug/m3	35 (24-hour)

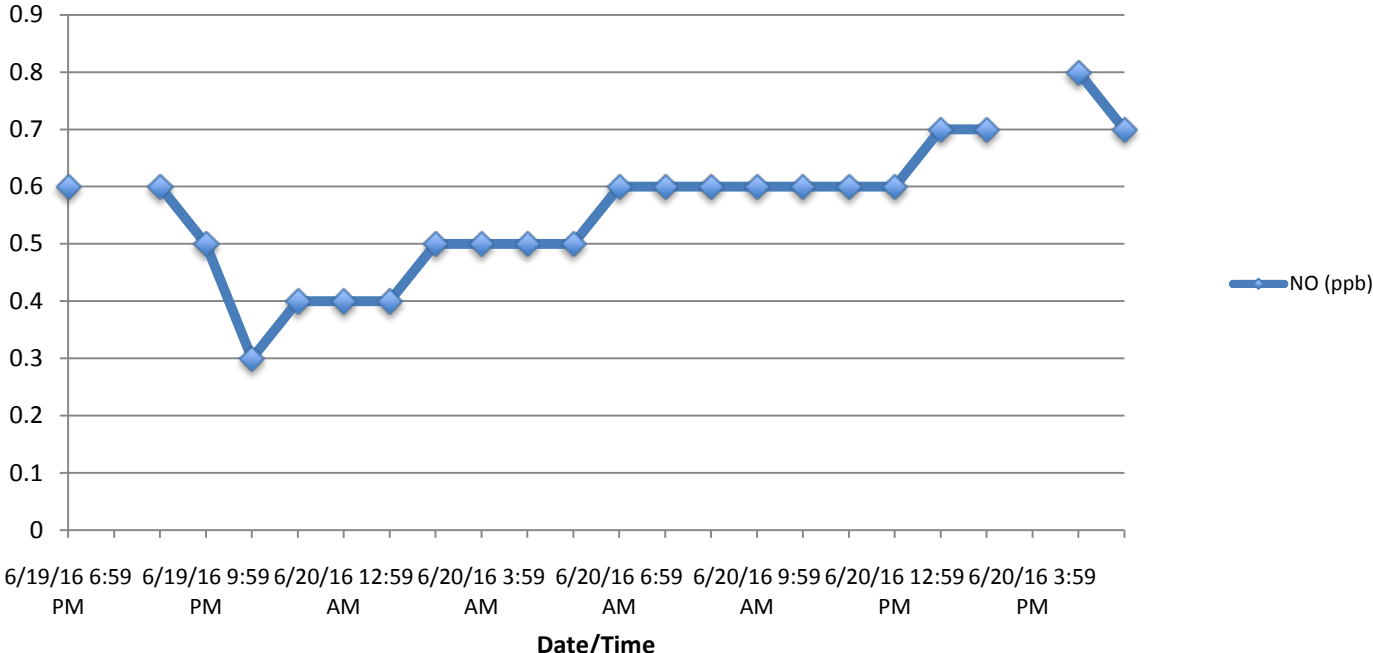




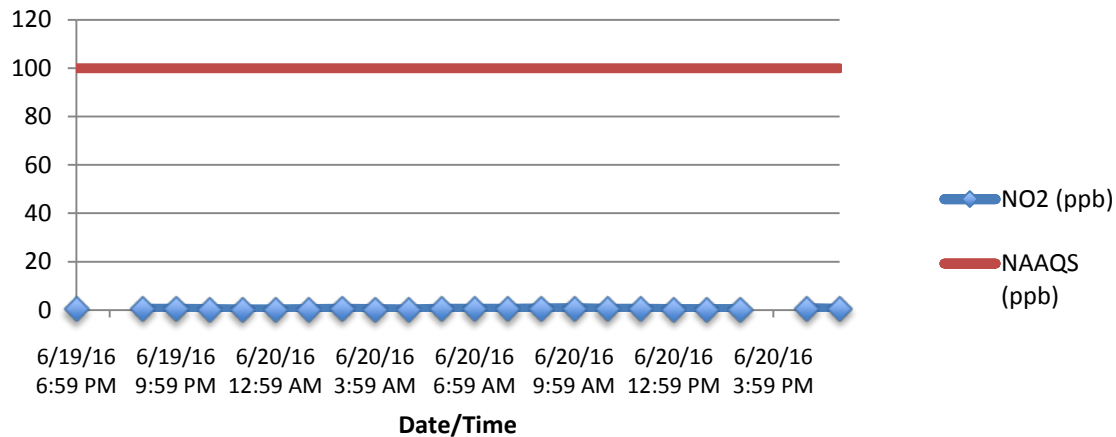
## Hourly Averages CO2 (ppm) For Monitoring Only



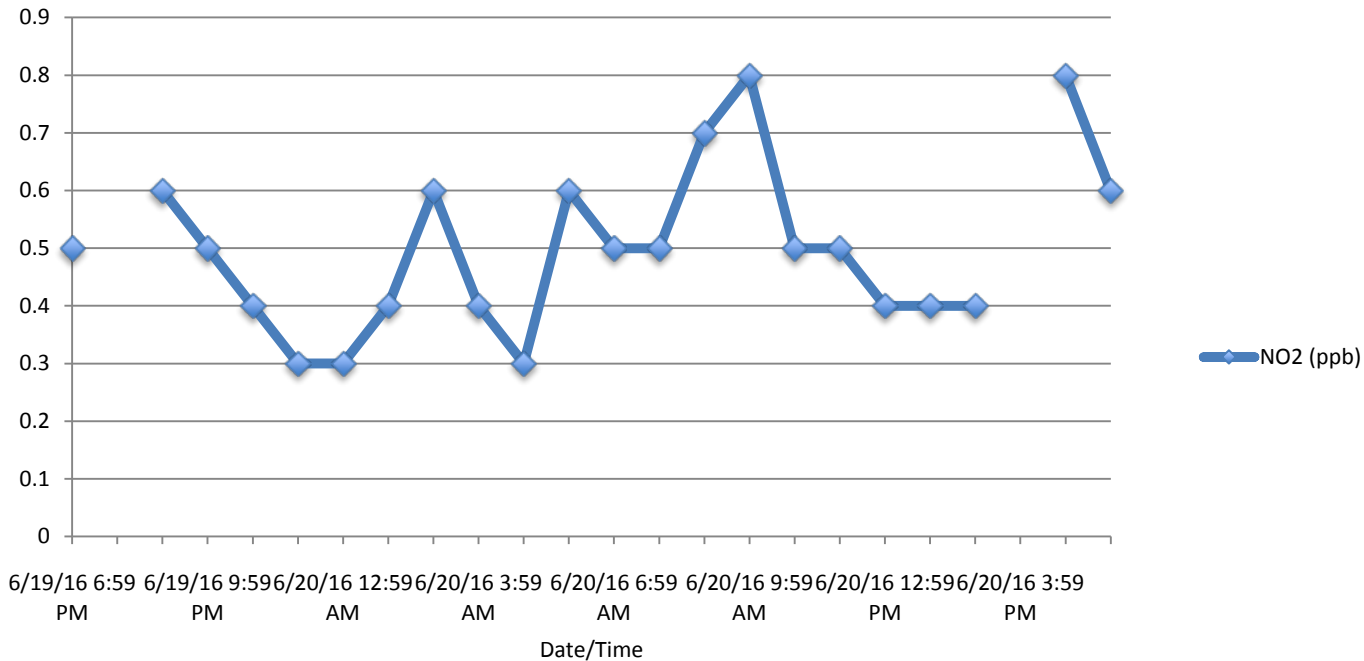
# Hourly Averages NO (ppb) For Monitoring Only



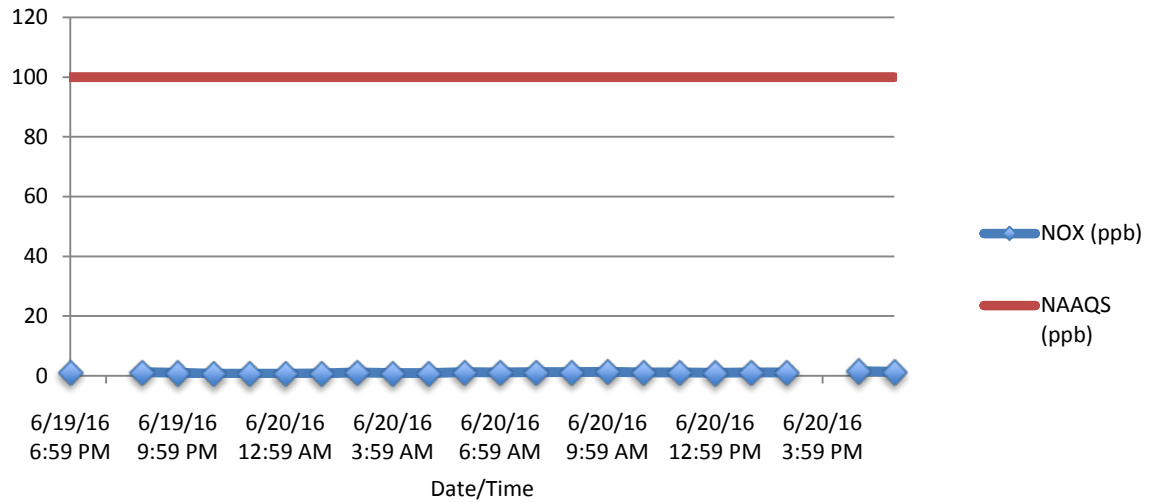
### Hourly Averages NO2 (ppb)



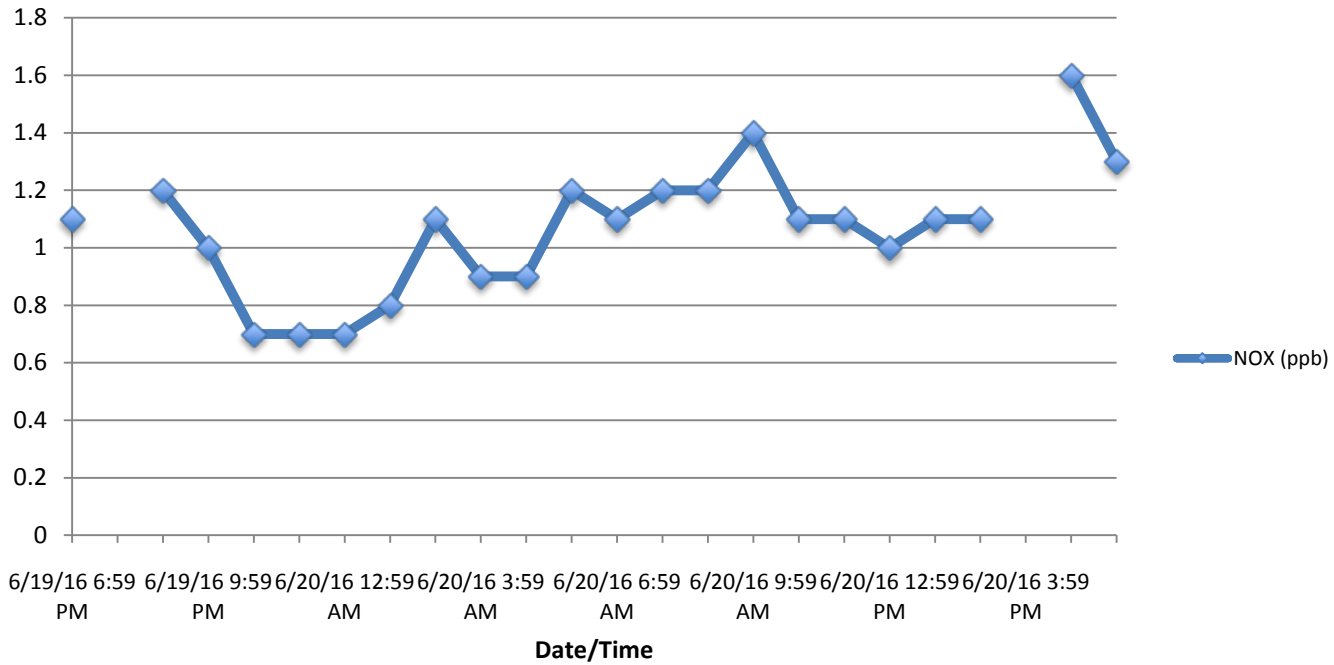
### Hourly Averages NO2 (ppb) NAAQS 100 ppb



### Hourly Averages NOX (ppb)

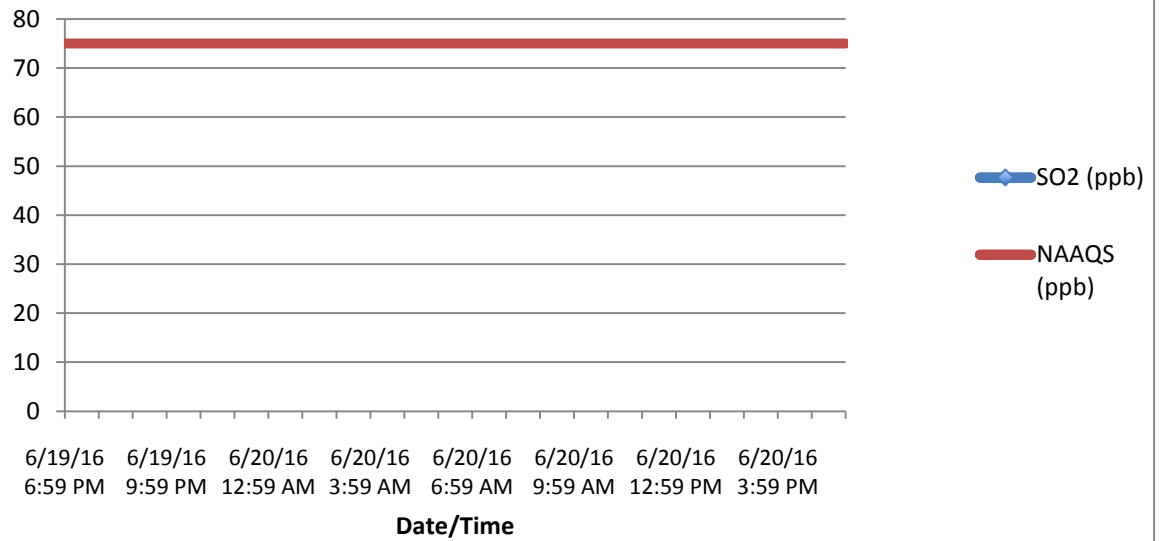


### Hourly Averages NOX (ppb) NAAQS 100 ppb

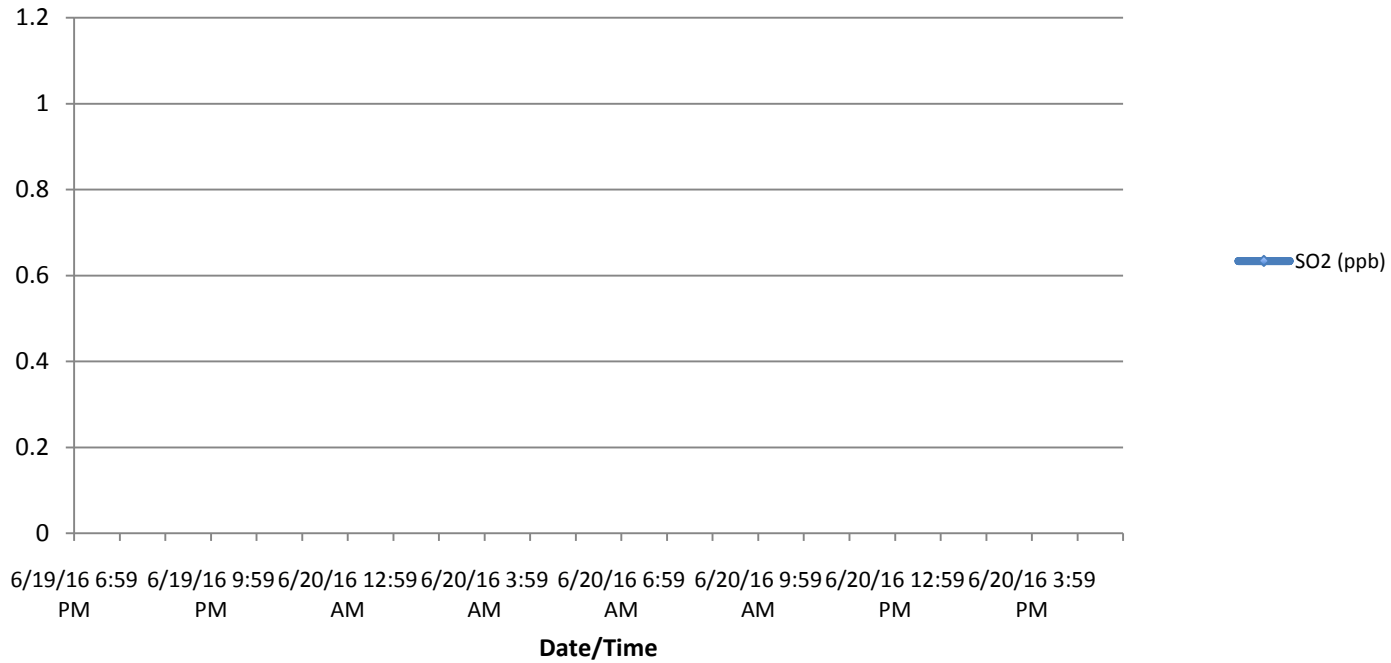




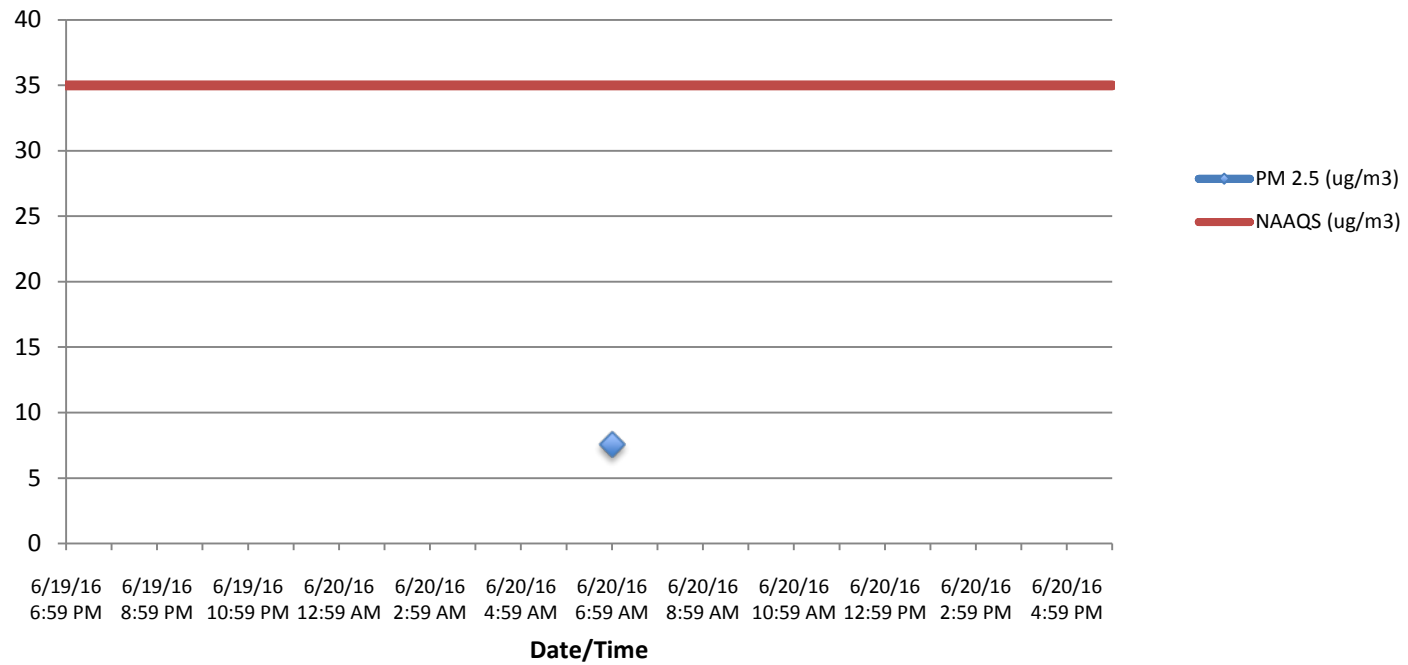
### Hourly Averages SO2 (ppb)



### 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)

