

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



**Air Monitoring Summary**

**Camp Minden North**

**Start Time: 06-1-2016 1800 - End Time: 06-2-2016 1800**

June 2, 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 1, 2016 1800 through June 2, 2016, 2016 1800
- 2 Highest measurement of each analyte from June 1, 2016 1800 through June 2, 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/naaqs-table>.

\*\* Note: PM<sub>2.5</sub> was captured in 60-min averages. All other analytes were captured in 1-min averages.

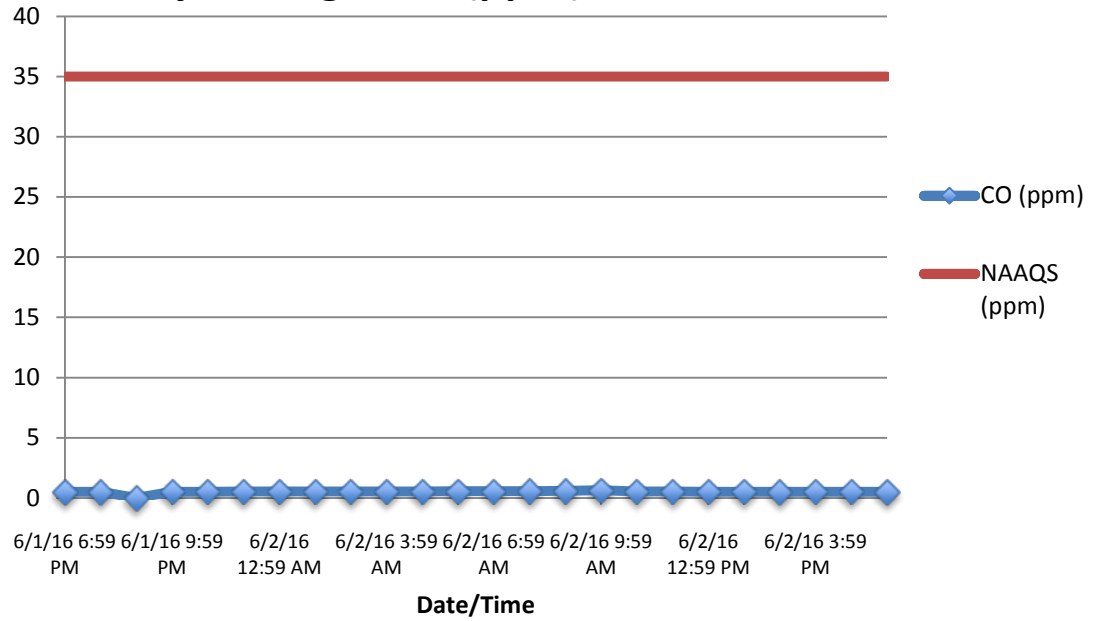
\*\*\* Late Note: The trailer data logger experienced severe Modbus communications issues (dropped scans) starting on June 2 and continuing until data logger program reloaded on the morning of June 4. The issues required missing 1-minute data to be recovered from the backup text-file data streams being recorded by the analyzers, with the corresponding 15- and 60-minute averages being regenerated and updated. Data losses outside of calibration checks after recovery were minimal. The nightly zero/span checks were also affected, and were performed manually remotely to ensure instruments were operating properly. The logger program was updated to address future Modbus issues. All telemetry & automation functions have been normal since the program reset on June 4.

## Summary for 2 June 2016 at Camp Minden North

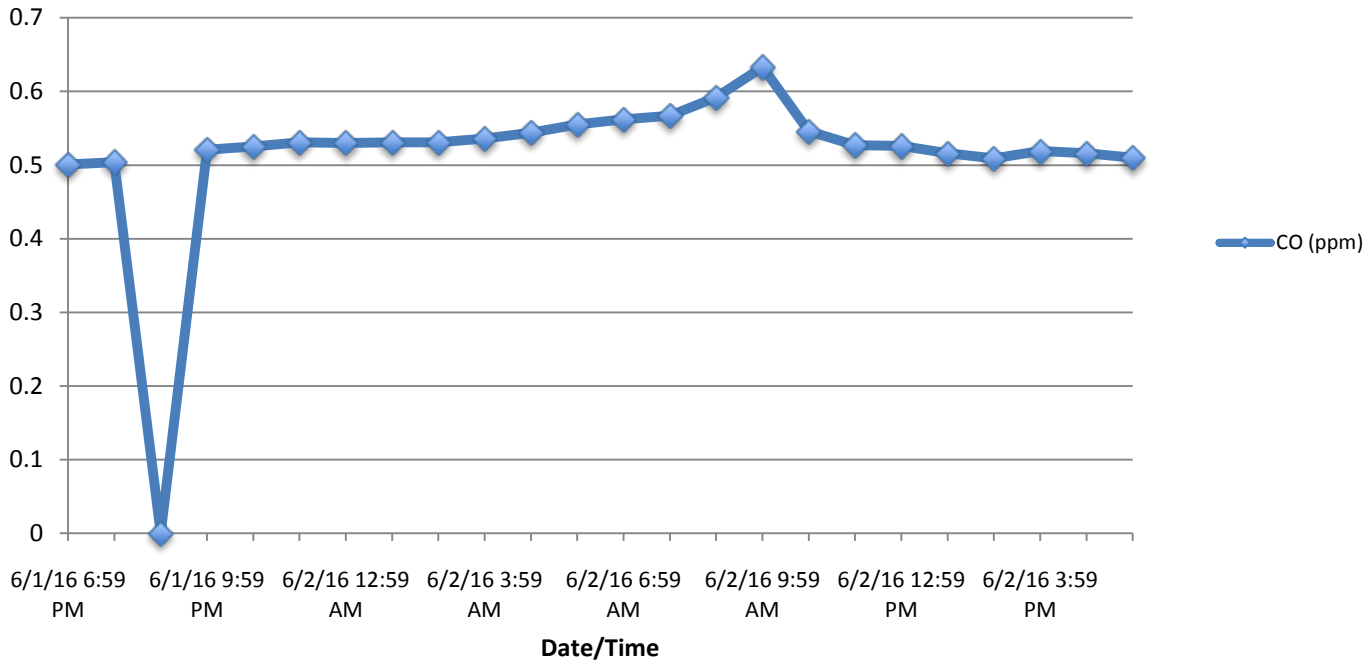
Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.633	0.923	ppm	35 (1-hour)
CO2	411.8	437.8	ppm	For Monitoring Only
NO	1.8	18.8	ppb	For Monitoring Only
NO2	2.4	6.5	ppb	100 (1-hour)
NOX	4.3	22.4	ppb	100 (1-hour)
SO2	0.5	0.9	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	3.58	8.7	ug/m3	35 (24-hour)



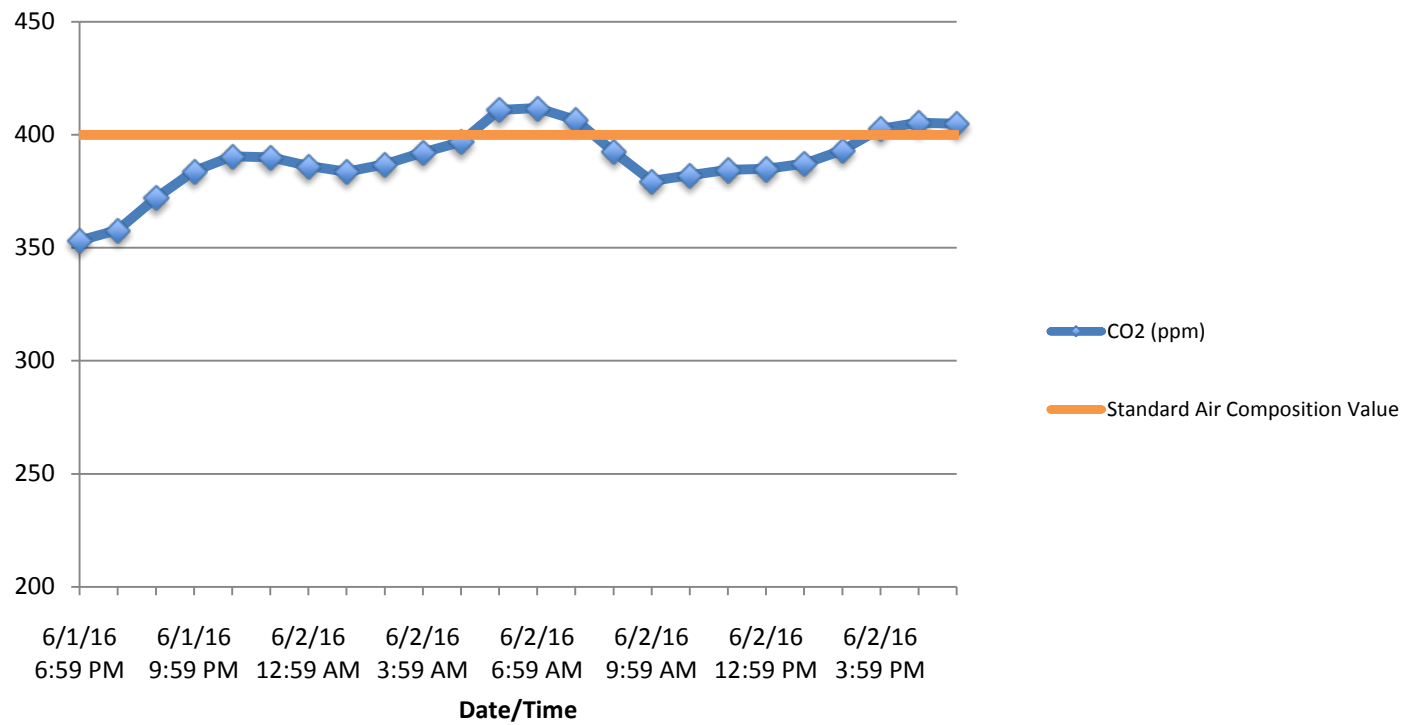
### Hourly Averages CO (ppm)



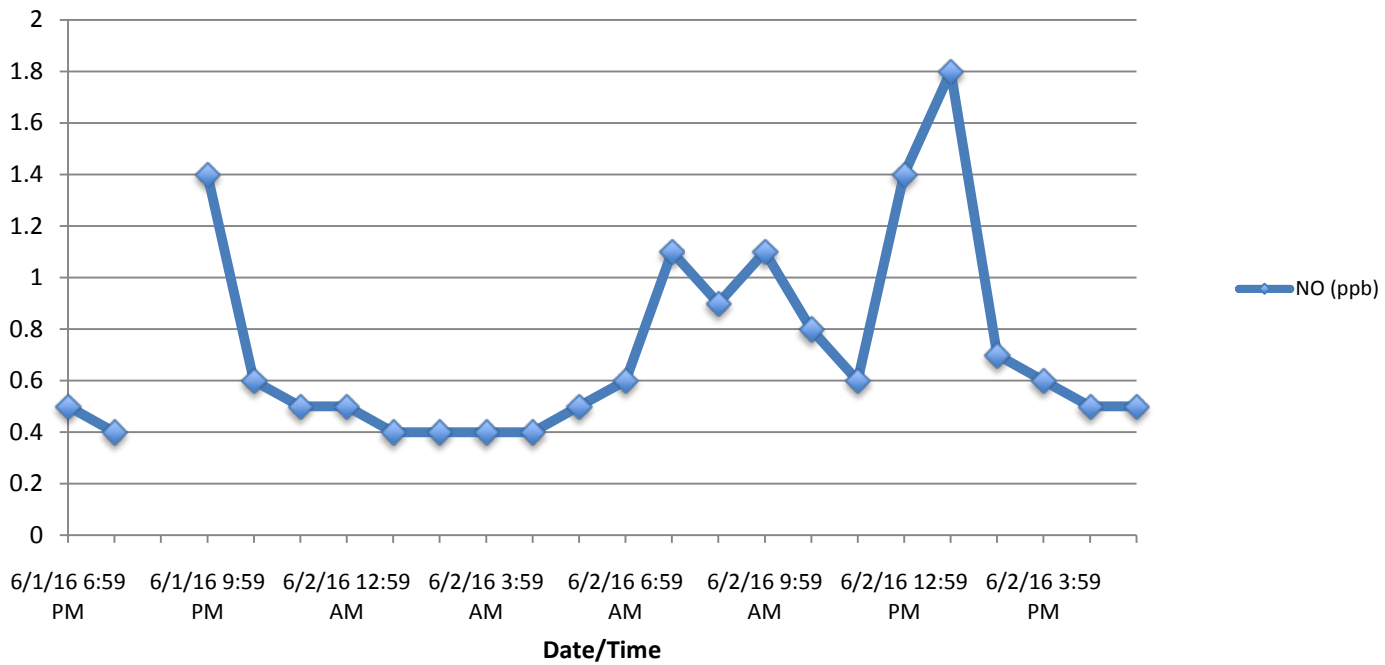
### Hourly Averages CO (ppm) NAAQS 35 ppm



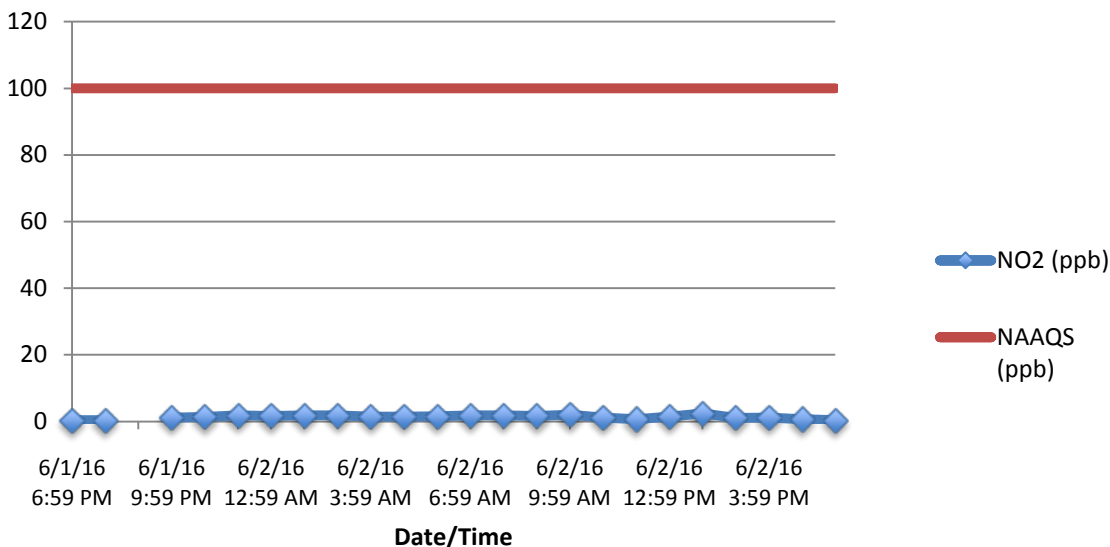
## Hourly Averages CO2 (ppm) For Monitoring Only



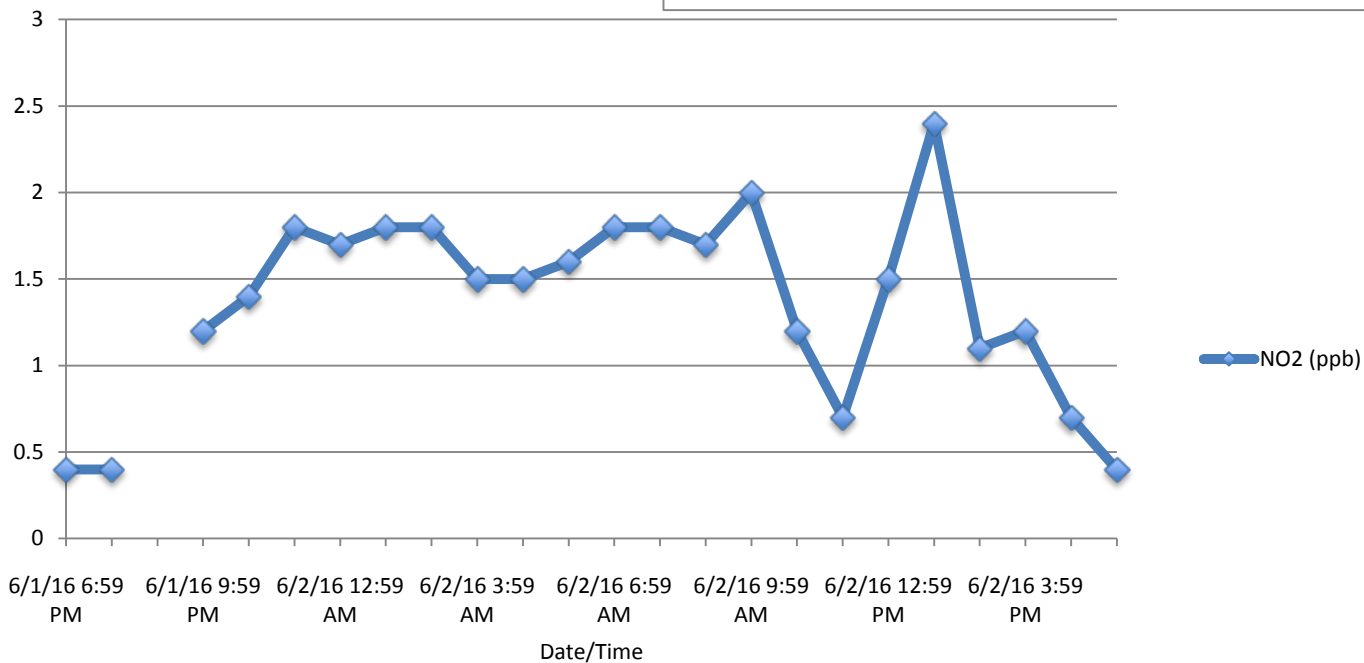
## Hourly Averages NO (ppb) For Monitoring Only



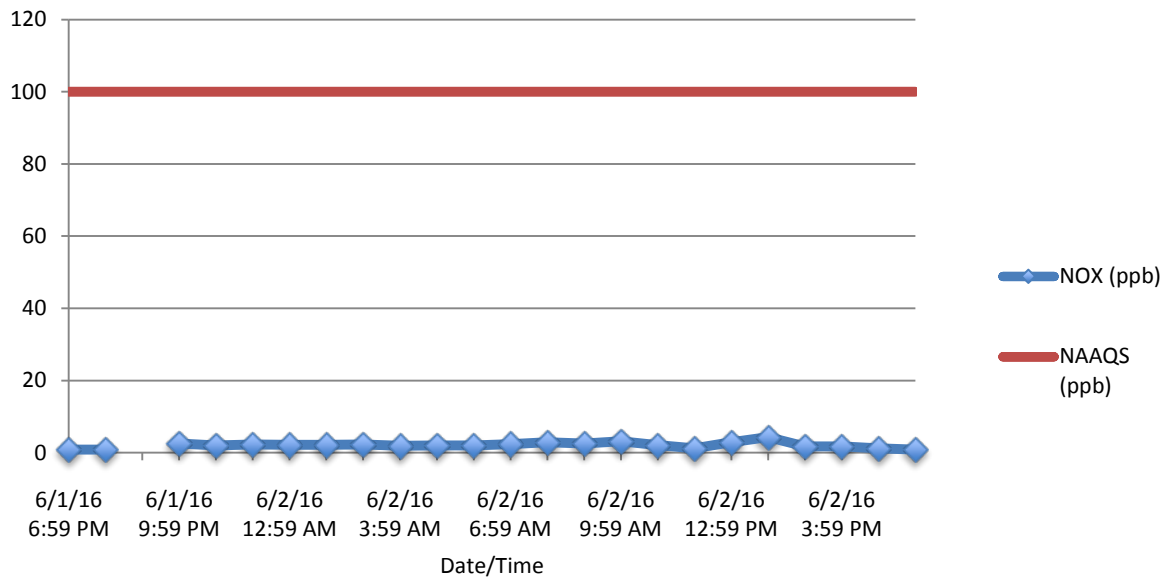
### Hourly Averages NO2 (ppb)



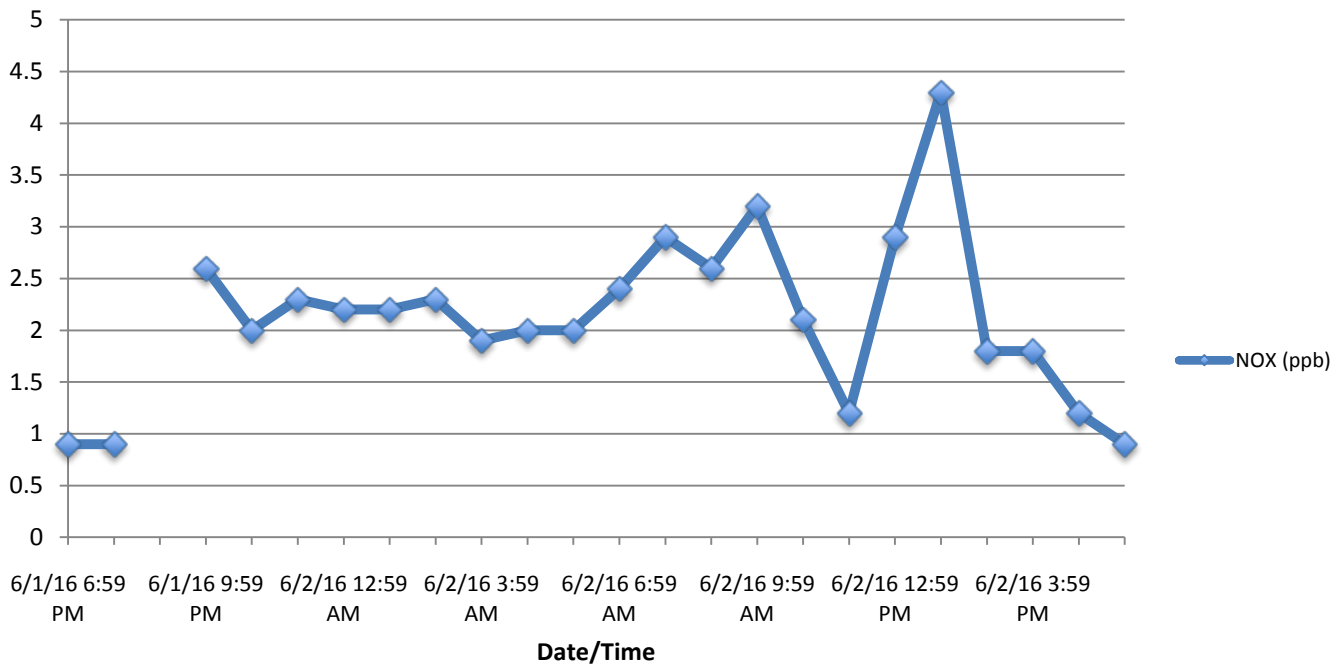
### Hourly Averages NO2 (ppb) NAAQS 100 ppb



### Hourly Averages NOX (ppb)

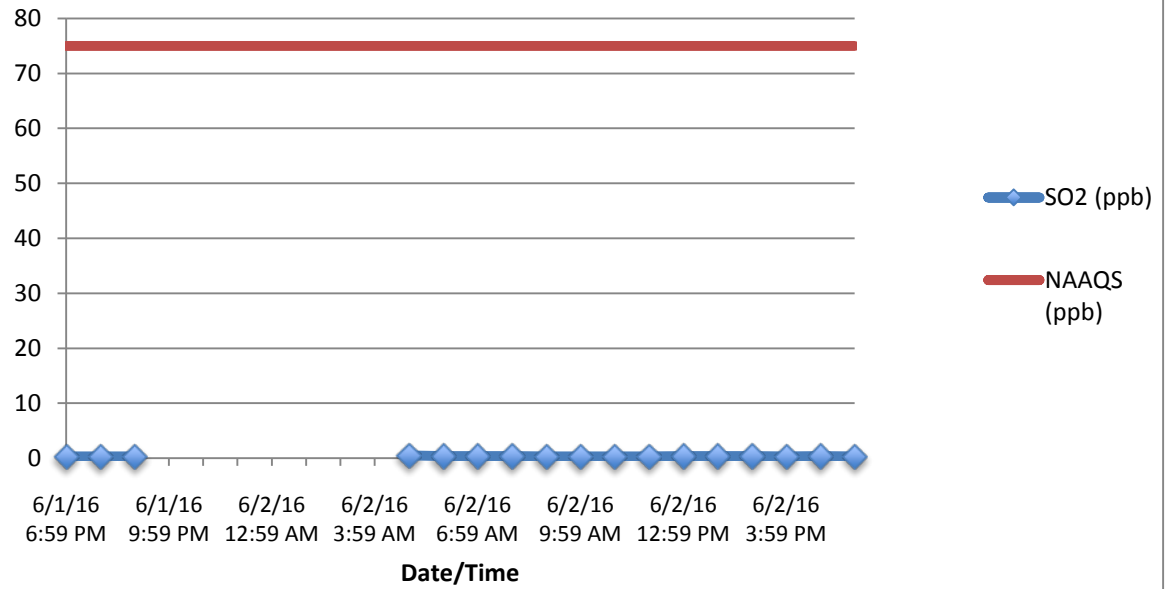


### Hourly Averages NOX (ppb) NAAQS 100 ppb

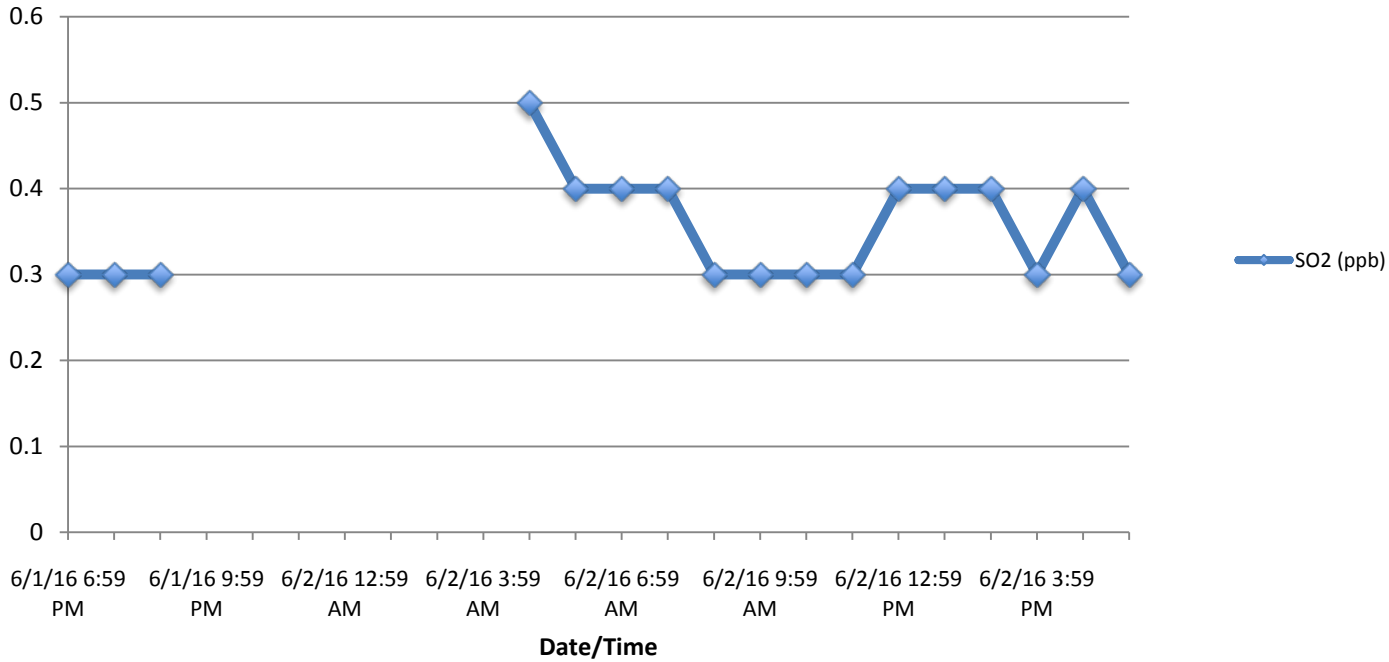




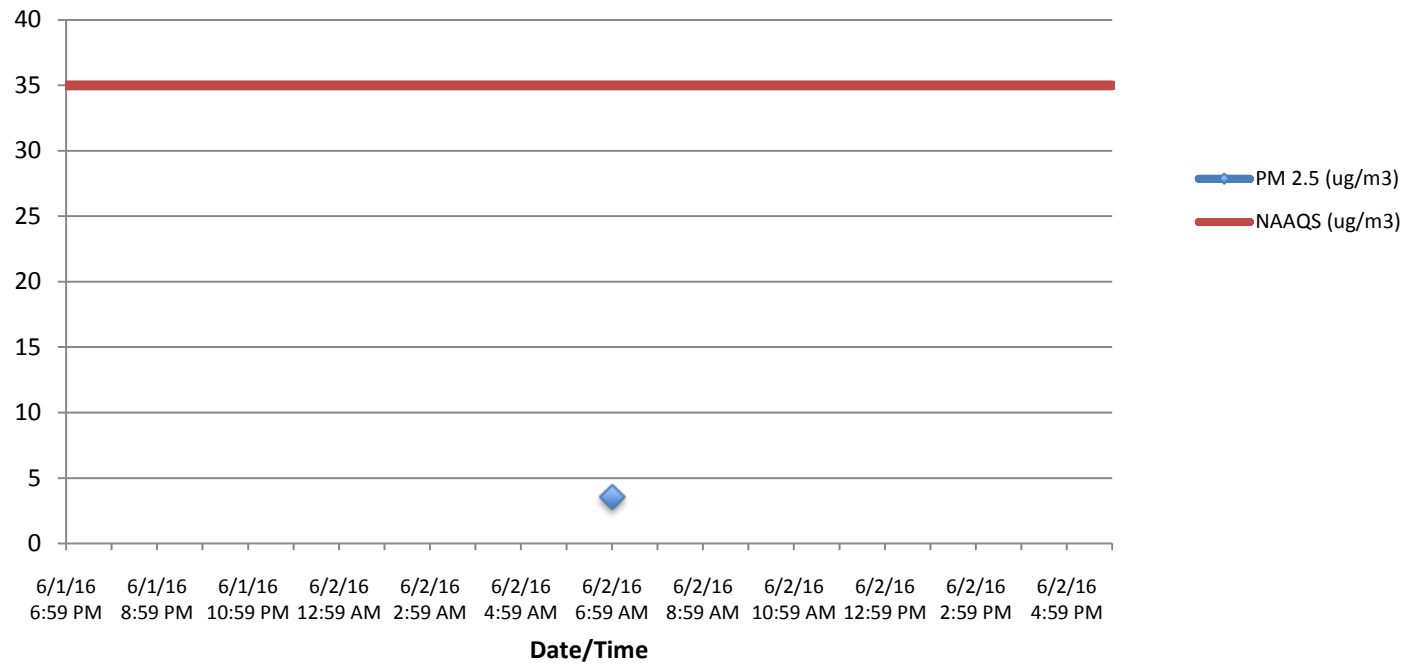
### Hourly Averages SO2 (ppb)



### 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)

