

FINAL
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VI



Air Monitoring Summary

Camp Minden Area I

Start Time: 10-29-2016 1800 - End Time: 10-30-2016 1800

October 30, 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 29, 2016 1800 through October 30, 2016, 2016 1800
- 2 Highest measurement of each analyte from October 29, 2016 1800 through October 30, 2016 1800

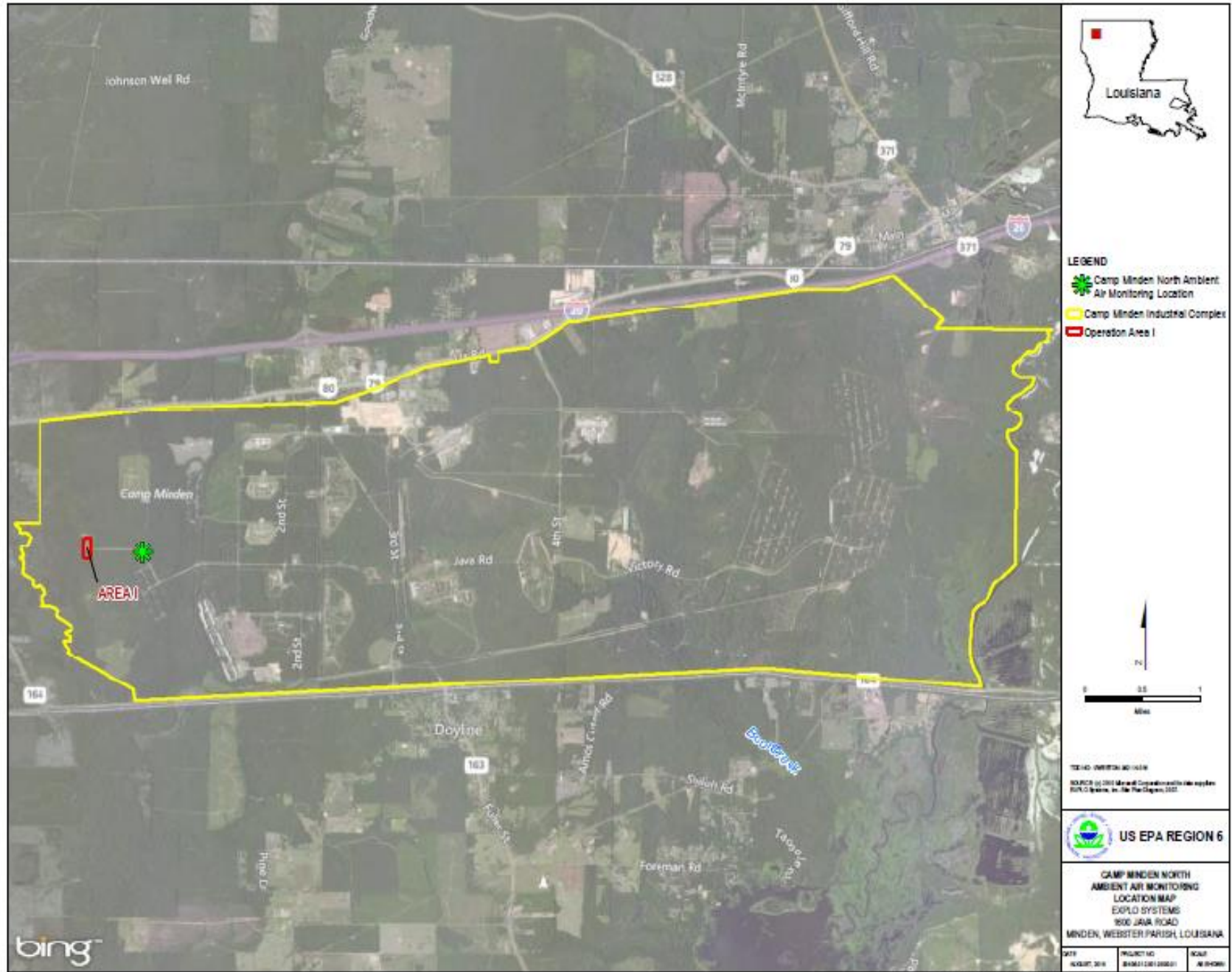
National Ambient Air Quality Standards (NAAQS) of criteria pollutants (CO, NO₂, SO₂, and PM_{2.5}) are listed with specific time frames and calculation formulas. Please visit NAAQS website for more in-depth information on how these are calculated - <https://www.epa.gov/criteria-air-pollutants/naqs-table>.

** The monitoring database has been validated for calendar day 10/30/16 (through 00:00 10/31/16 CST). All analyzers were operating normally except CO₂. CO₂ purge gas ran out overnight 10/29 – 10/30. Both daytime and nighttime CO₂ readings appear elevated. CO₂ data were invalidated for entire period, and will continue flagged until purge is restored. There were two brief periods of elevated NO_x readings on 10/30. From 0637 – 0647 CDT, 1-minute NO_x concentrations peaked at 190 ppb; winds were variable less than 1 mph. Between 1340 -1344 CDT, 1-minute NO_x peaked at 245 ppb; winds were from south at approx. 5 mph. There were less pronounced increases simultaneously for CO and CO₂ during those periods. The trailer logger was reset at 0501 CDT to clear Modbus communications. Weather station was reset at 0707 CDT to restore communications.

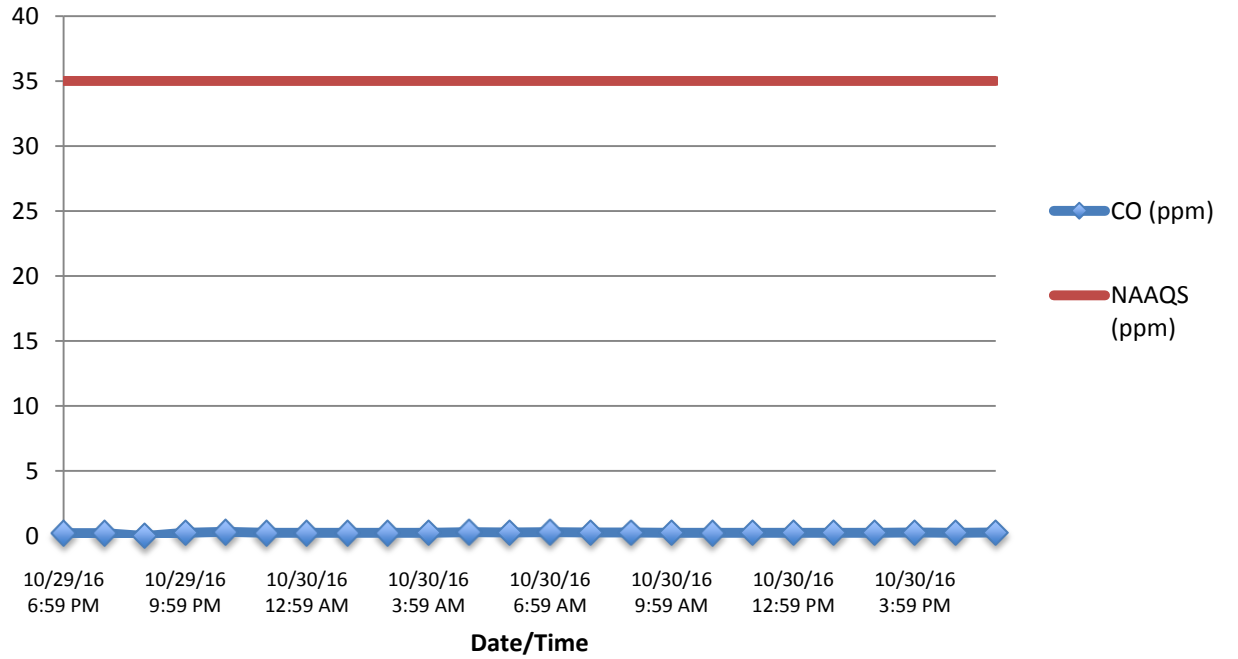
Summary for 30 October 2016 at Camp Minden Area I

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.299	0.831	ppm	35 (1-hour)
CO2	617.5	688.2	ppm	For Monitoring Only
NO	6.6	161.9	ppb	For Monitoring Only
NO2	4.2	82.8	ppb	100 (1-hour)
NOX	10.8	244.6	ppb	100 (1-hour)
SO2	1.1	1.6	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	13.1	29.7	ug/m3	35 (24-hour)

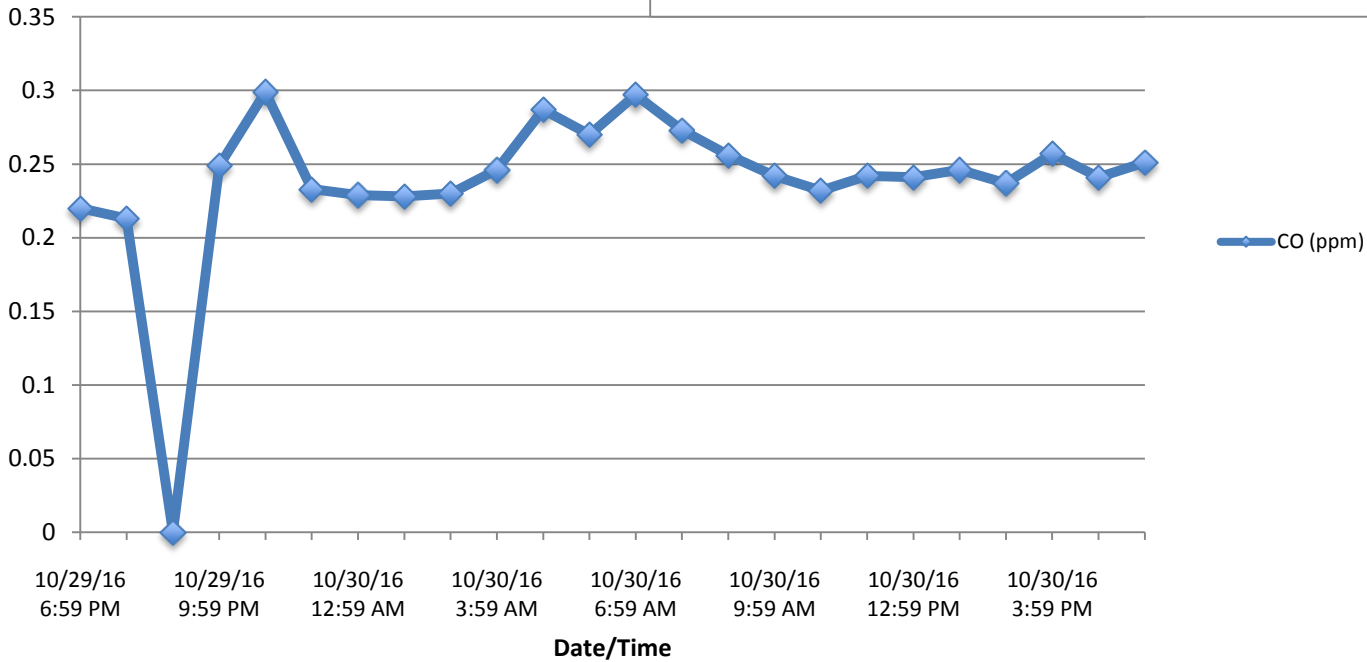
Camp Minden Area I Station Location Map for 30 October 2016



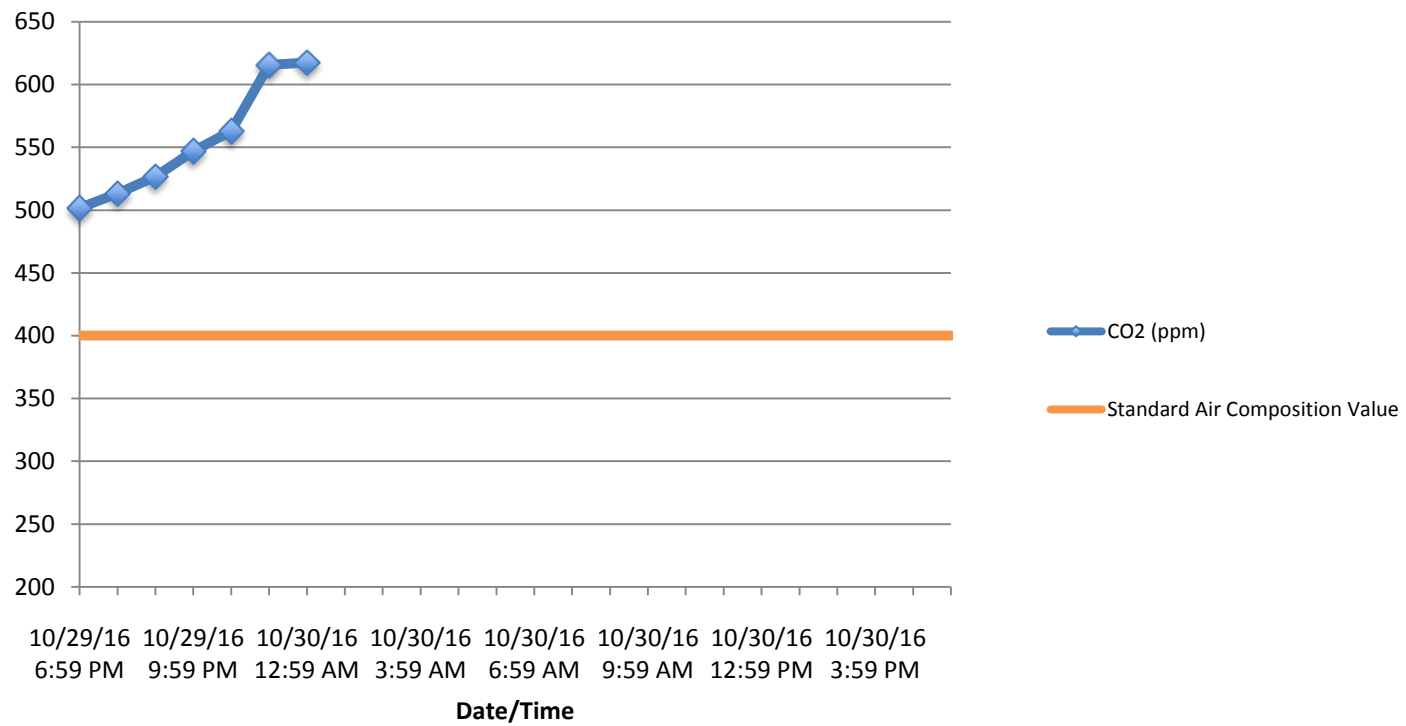
Hourly Averages CO (ppm)



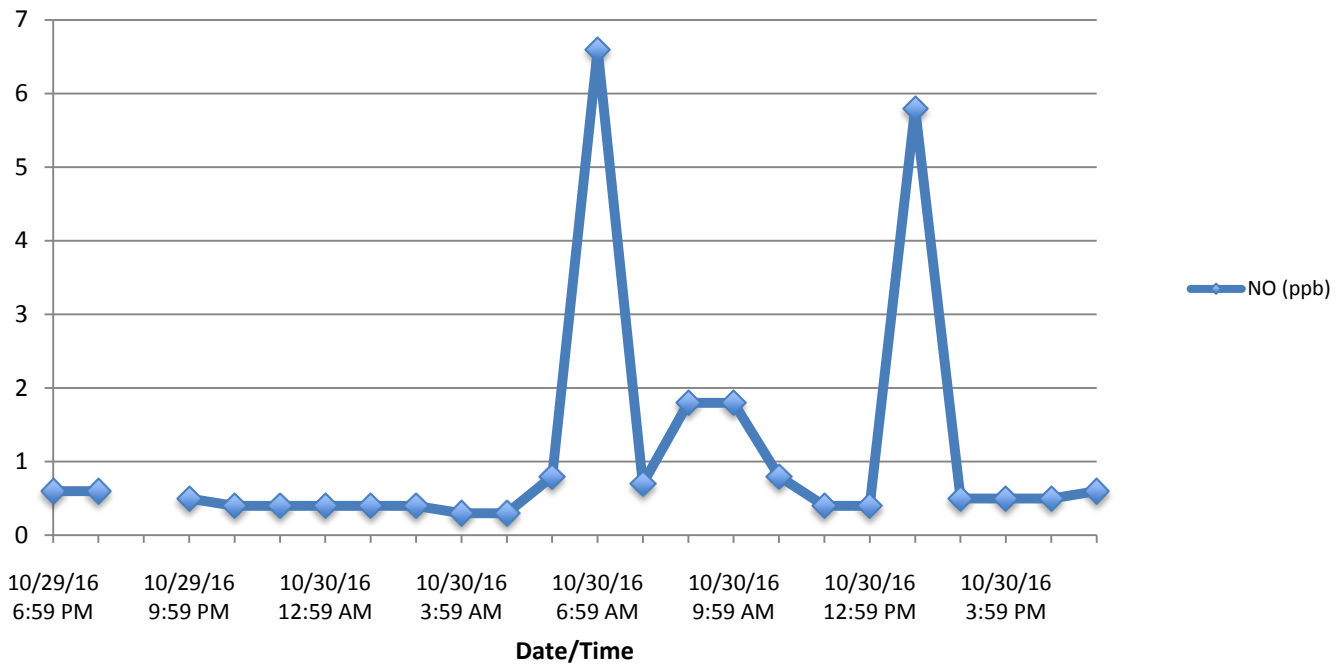
Hourly Averages CO (ppm) NAAQS 35 ppm



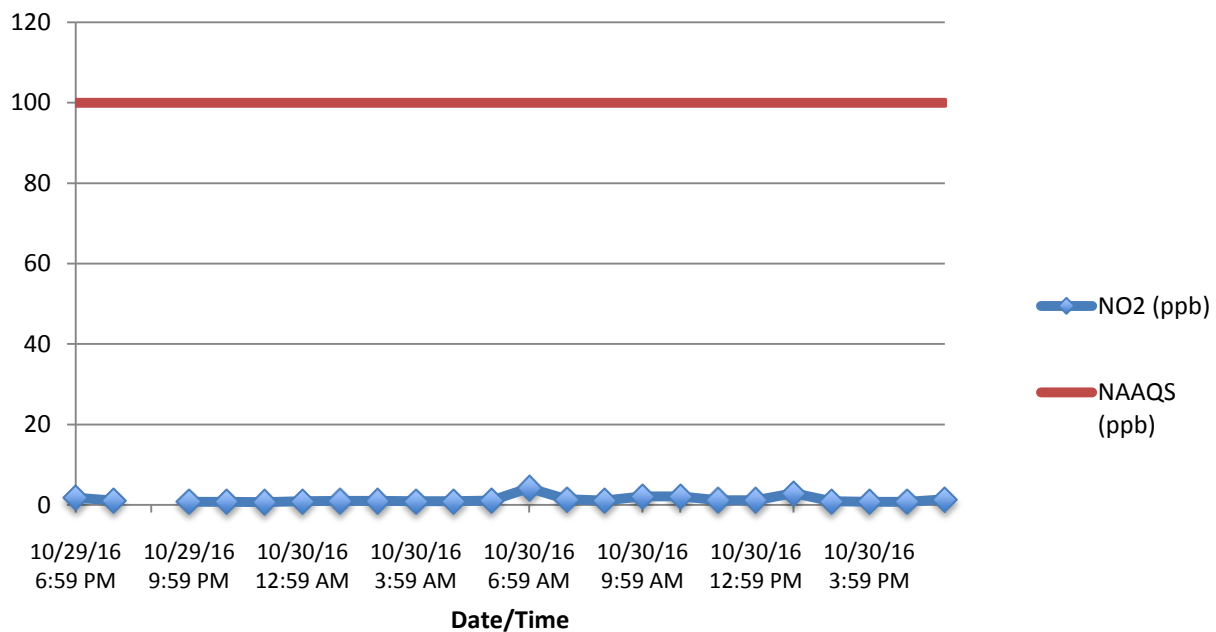
Hourly Averages CO2 (ppm) For Monitoring Only



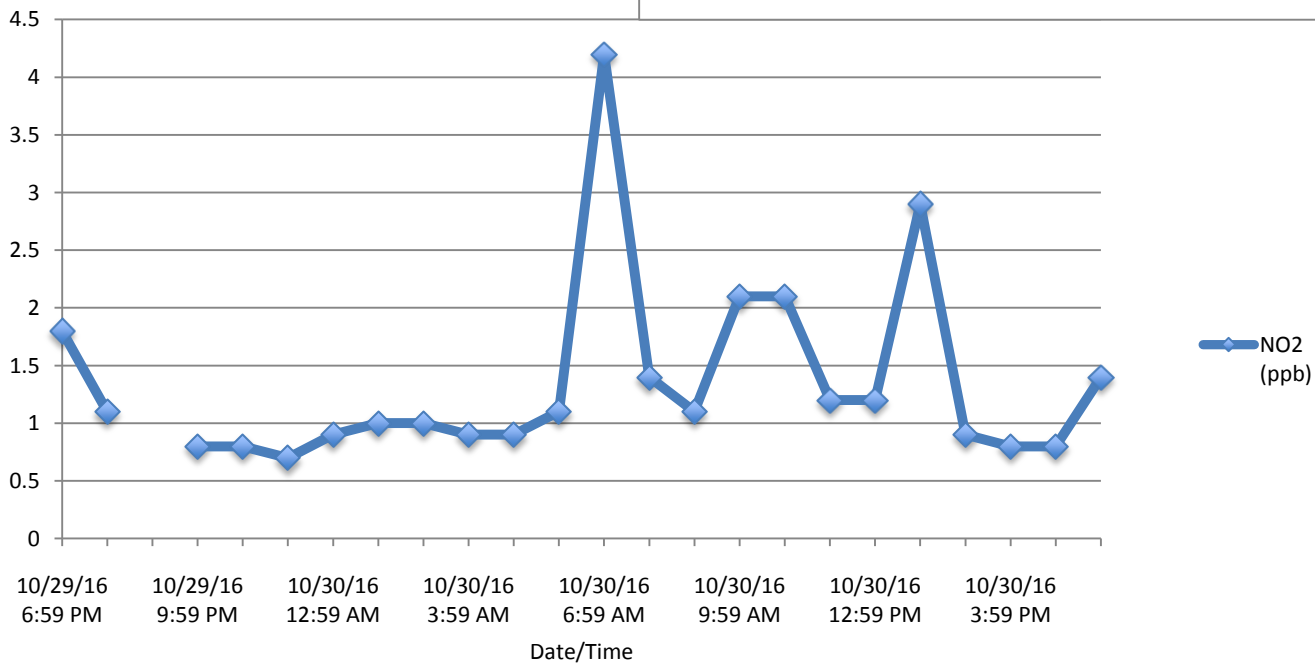
Hourly Averages NO (ppb) For Monitoring Only



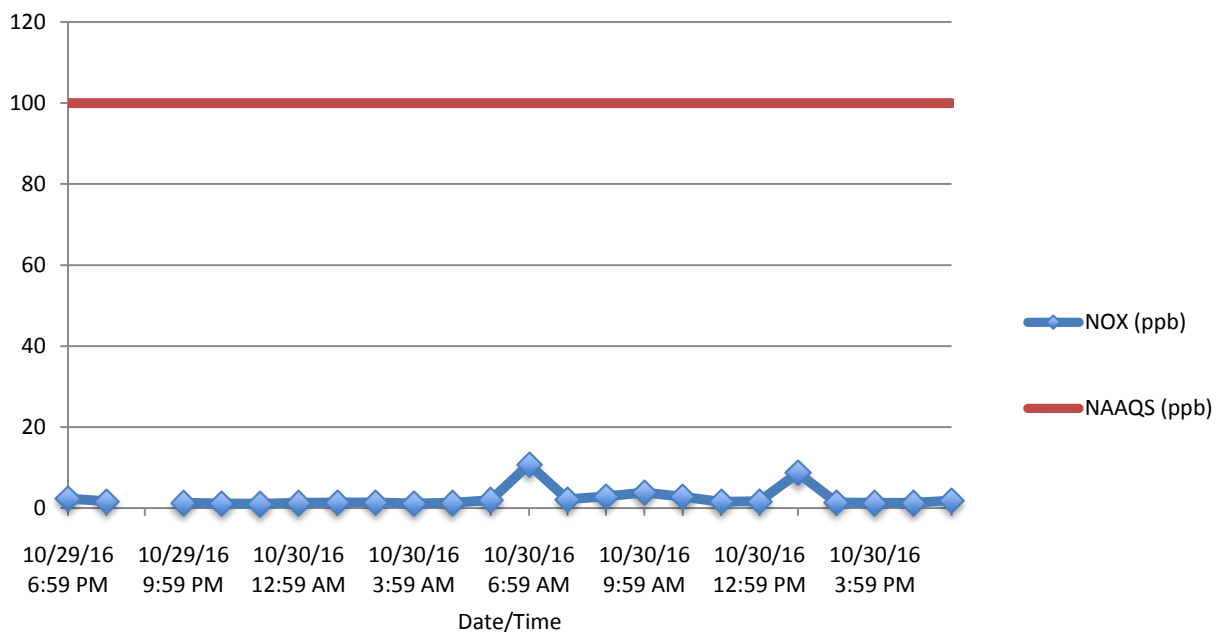
Hourly Averages NO2 (ppb)



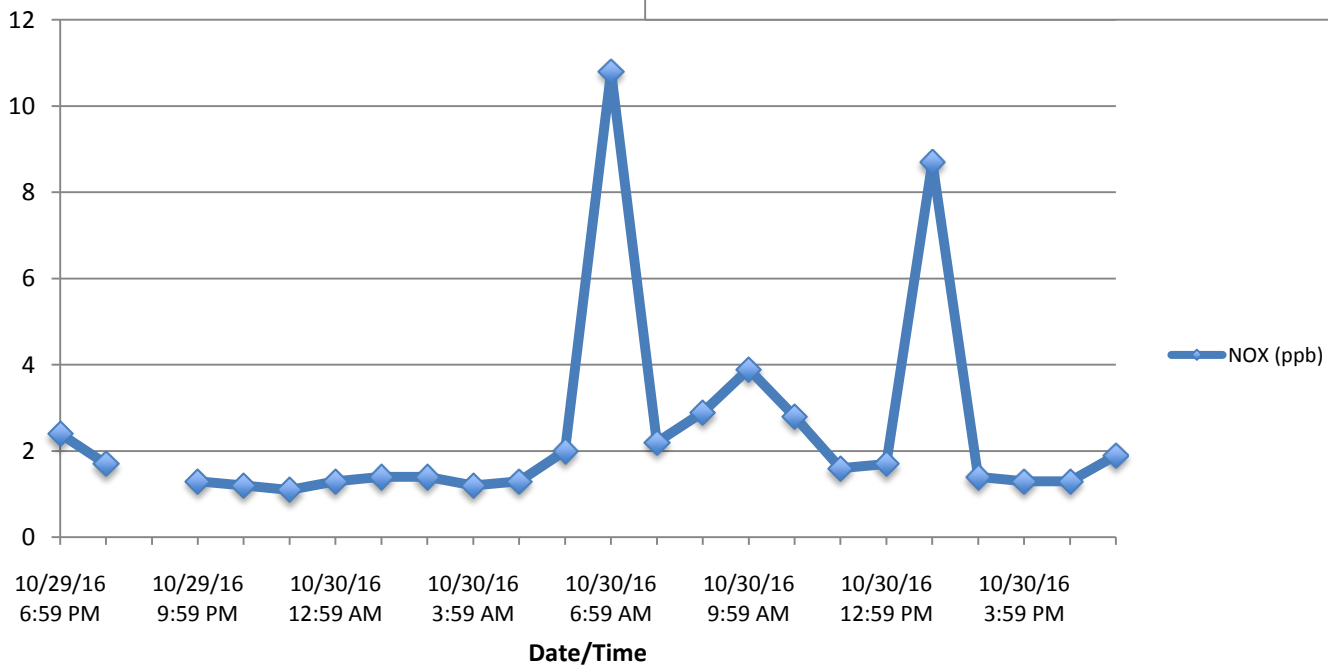
Hourly Averages NO2 (ppb) NAAQS 100 ppb



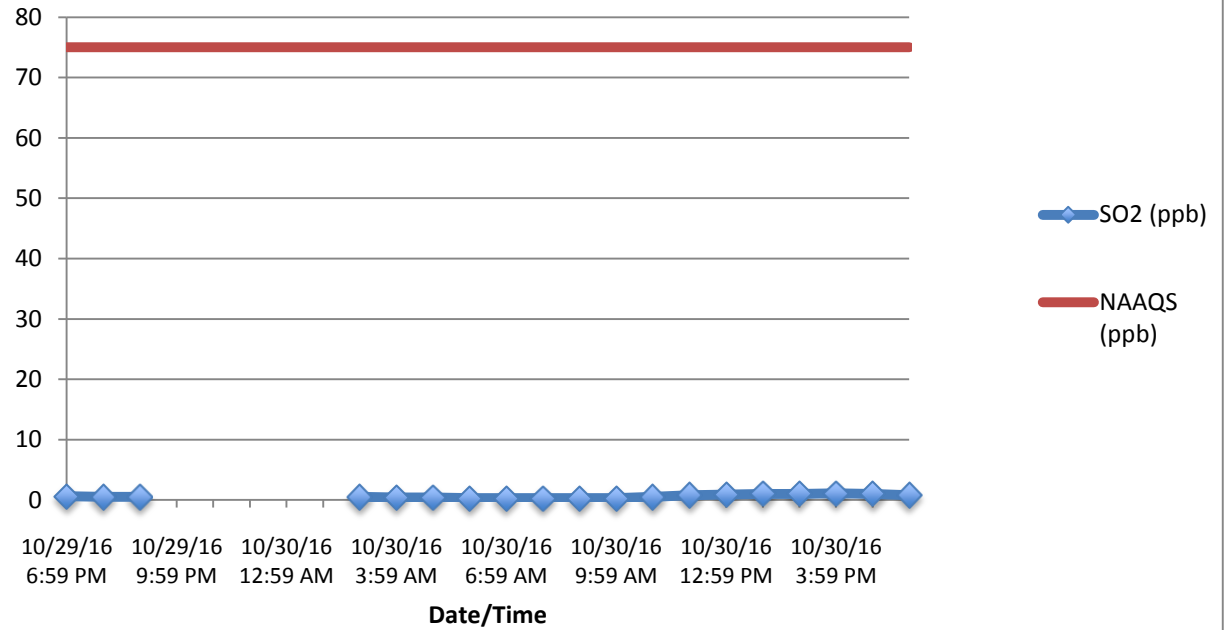
Hourly Averages NOX (ppb)



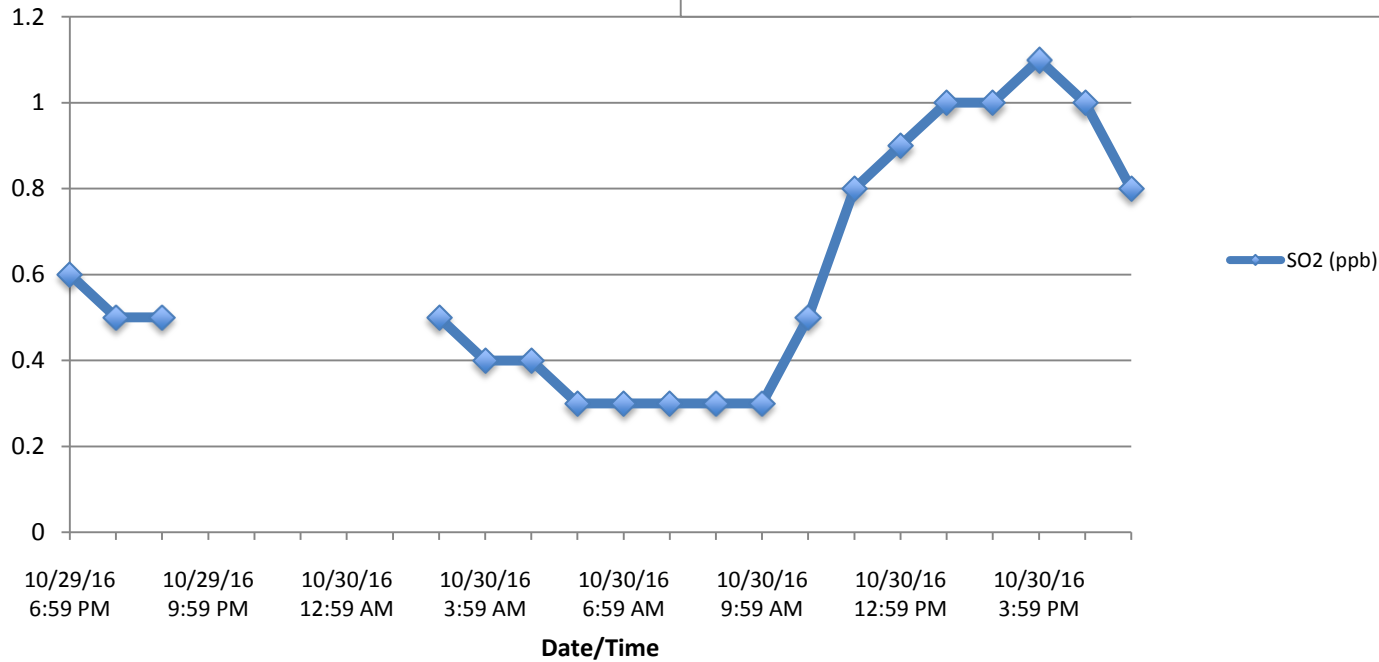
Hourly Averages NOX (ppb) NAAQS 100 ppb



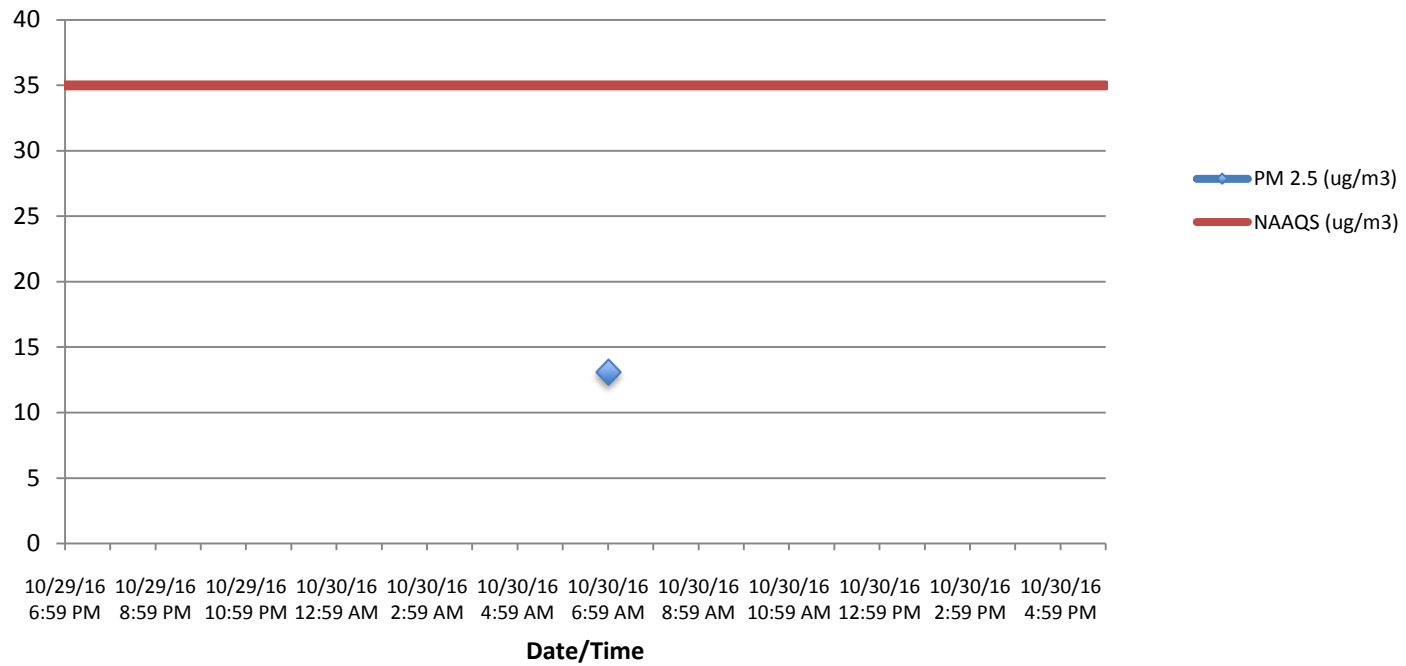
Hourly Averages SO2 (ppb)



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)

