FINAL
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VI

Air Monitoring Summary

Camp Minden Area I
Start Time: 12-16-2016 1800 - End Time: 12-17-2016 1800

December 17, 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 December 16, 2016 1800 through December 17, 2016, 2016 1800
2 Highest measurement of each analyte from December 16, 2016 1800 through December 17, 2016 1800

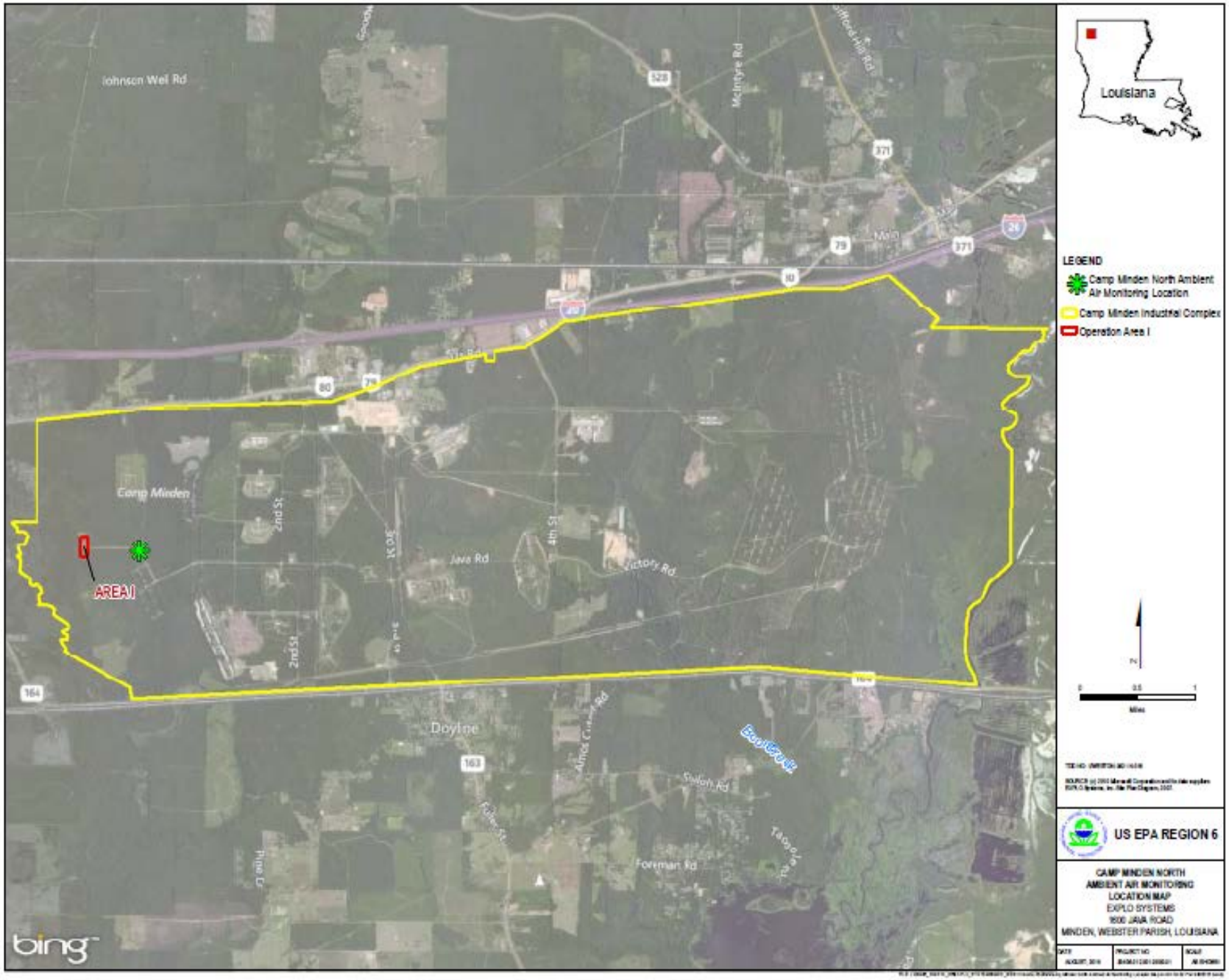
National Ambient Air Quality Standards (NAAQS) of criteria pollutants (CO, NO2, SO2, and PM2.5) are listed with specific time frames and calculation formulas. Please visit NAAQS website for more in-depth information on how these are calculated - https://www.epa.gov/criteria-air-pollutants/naaqs-table.

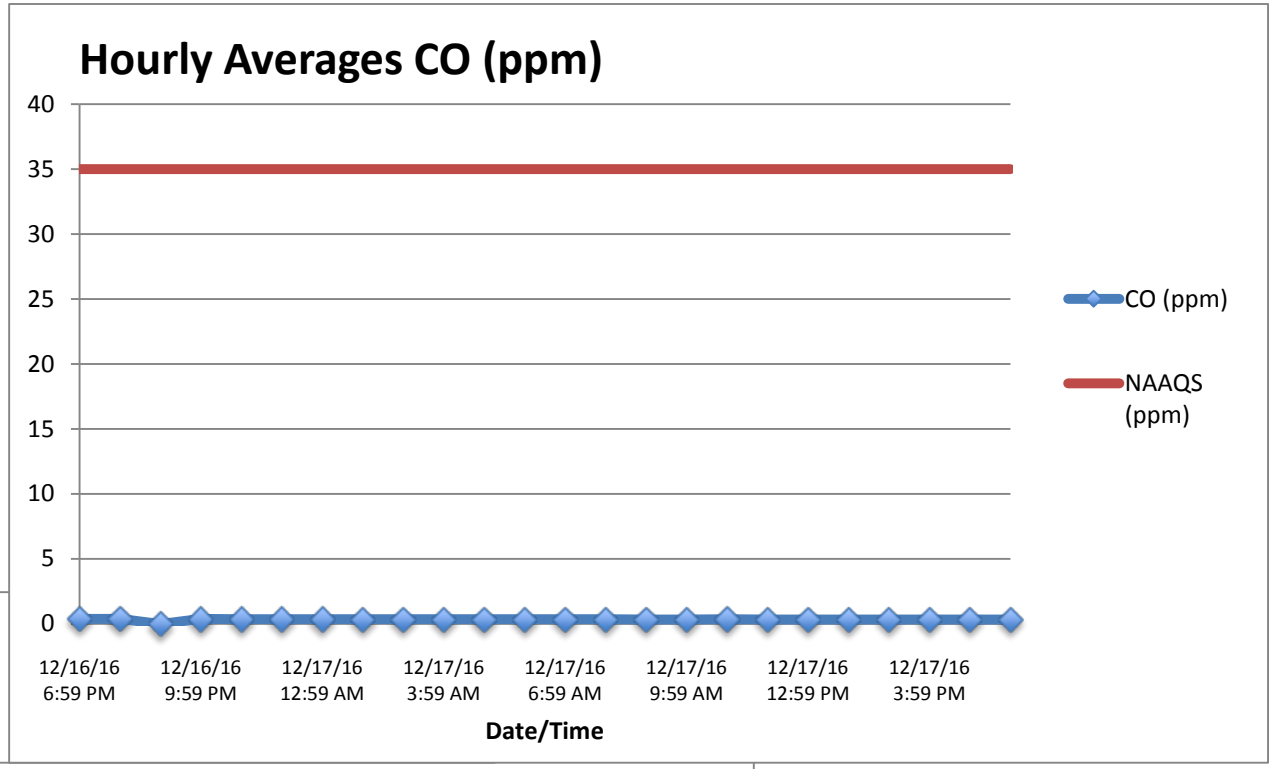
**The monitoring database has been validated for calendar day 12/17/126 (through 00:00 12/18/16 CST). All analyzers were operating normally. There were occasional BAM zero noise band values, +4.7 ug/m3 offset was applied (CST and 12/17/16 0100 – 1500, 2100 – 2300 CST).

Summary for 17 December 2016 at Camp Minden Area I

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.395	0.711	ppm	35 (1-hour)
CO2	465.0	466.5	ppm	For Monitoring Only
NO	0.3	3.6	ppb	For Monitoring Only
NO2	2.2	4.5	ppb	100 (1-hour)
NOX	2.4	8.1	ppb	100 (1-hour)
SO2	0.7	1.2	ppb	75 (1-hour)
Analyte	**Average 24-hour Measurement**	**Highest Measurement**	**Units**	**NAAQS Standard**
PM 2.5	4.87	13.1	ug/m3	35 (24-hour)

Camp Minden Area I Station Location Map for 17 December 2016




Hourly Averages CO (ppm)
40
35
30
25
20
15
10
5
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
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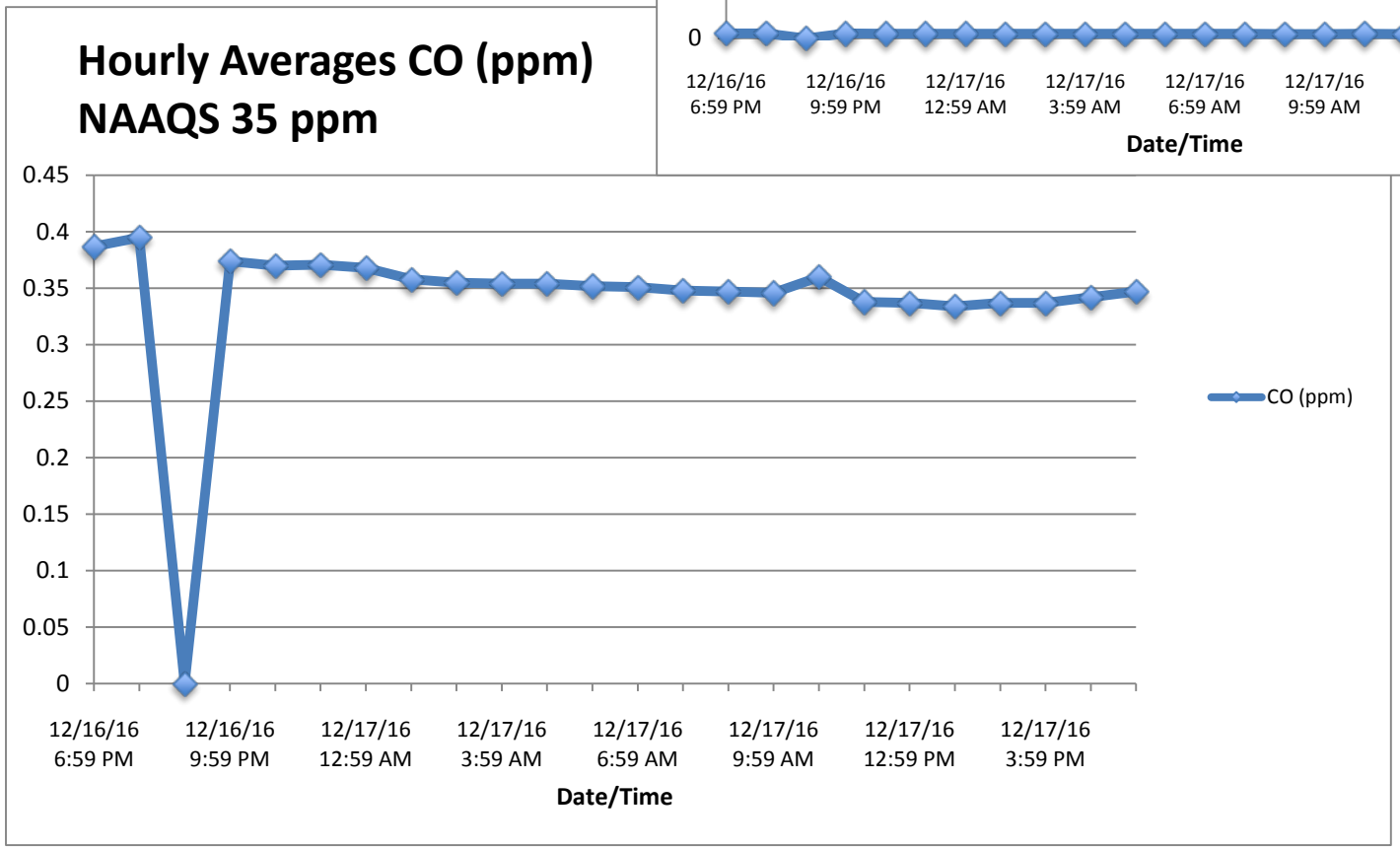
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
CO (ppm)
NAAQS (ppm)


Hourly Averages CO (ppm)
NAAQS 35 ppm
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
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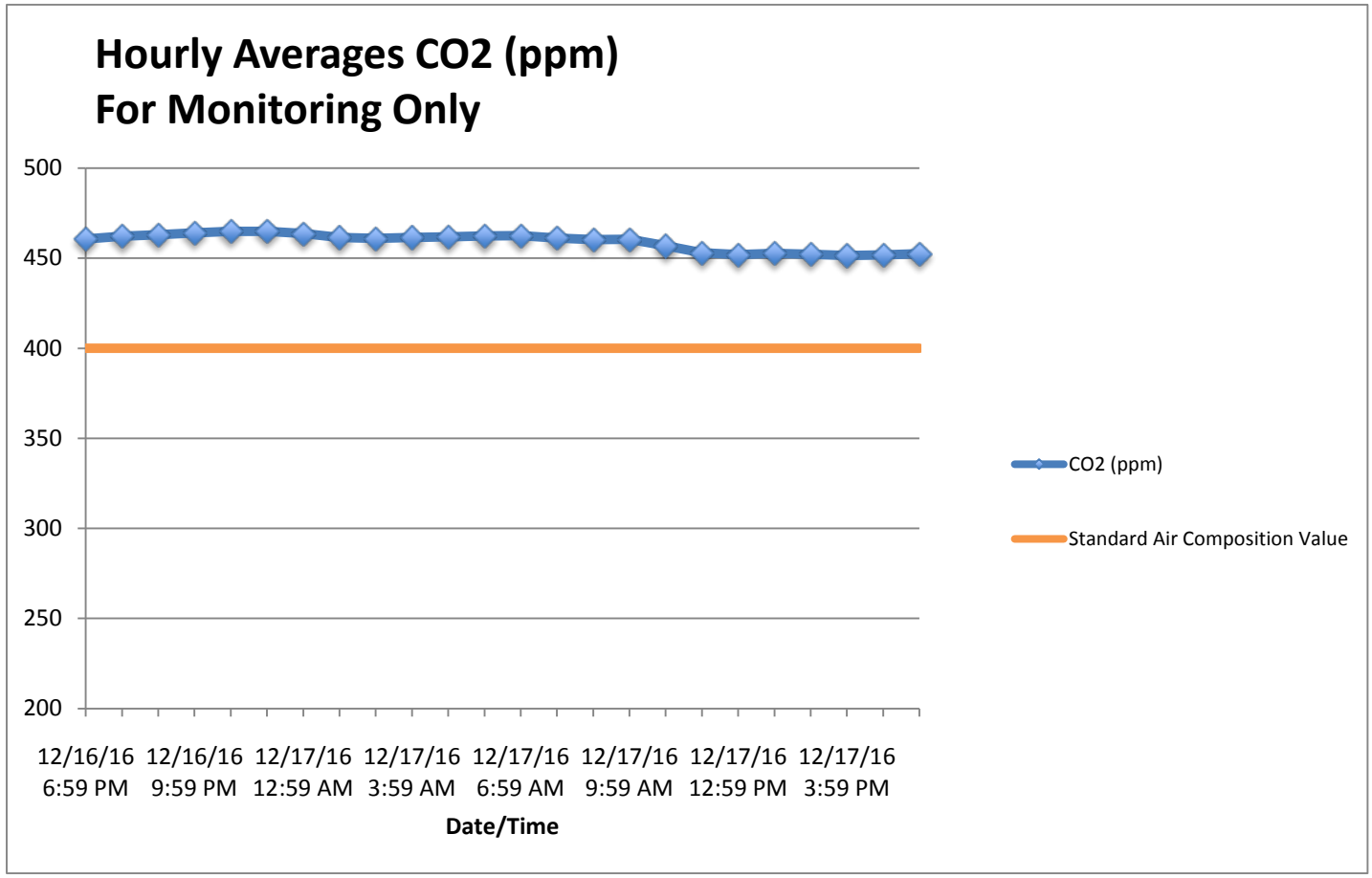
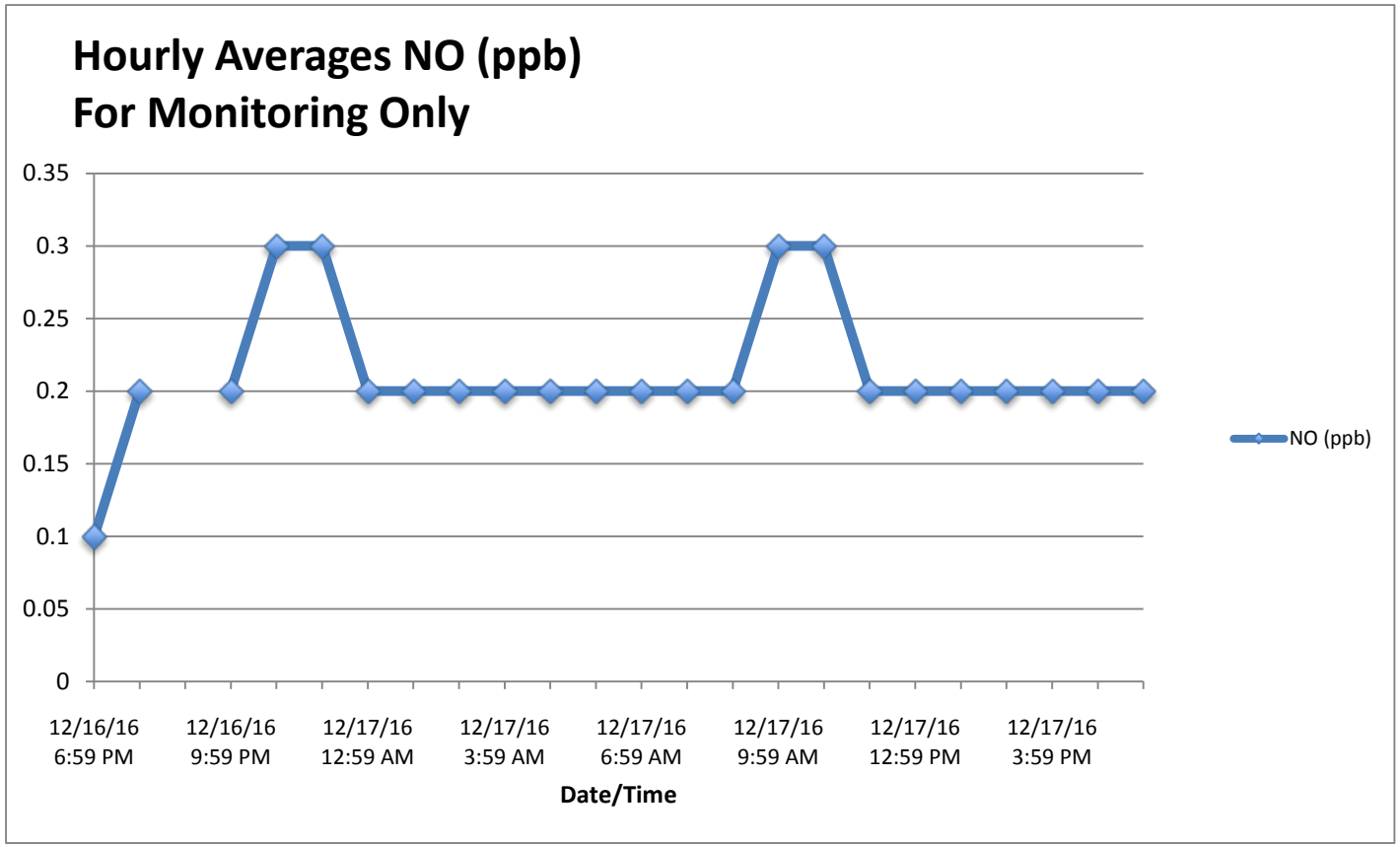
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
CO (ppm)


Hourly Averages CO2 (ppm)
For Monitoring Only
500
450
400
350
300
250
200
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
CO2 (ppm)
Standard Air Composition Value


Hourly Averages NO (ppb)
For Monitoring Only
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
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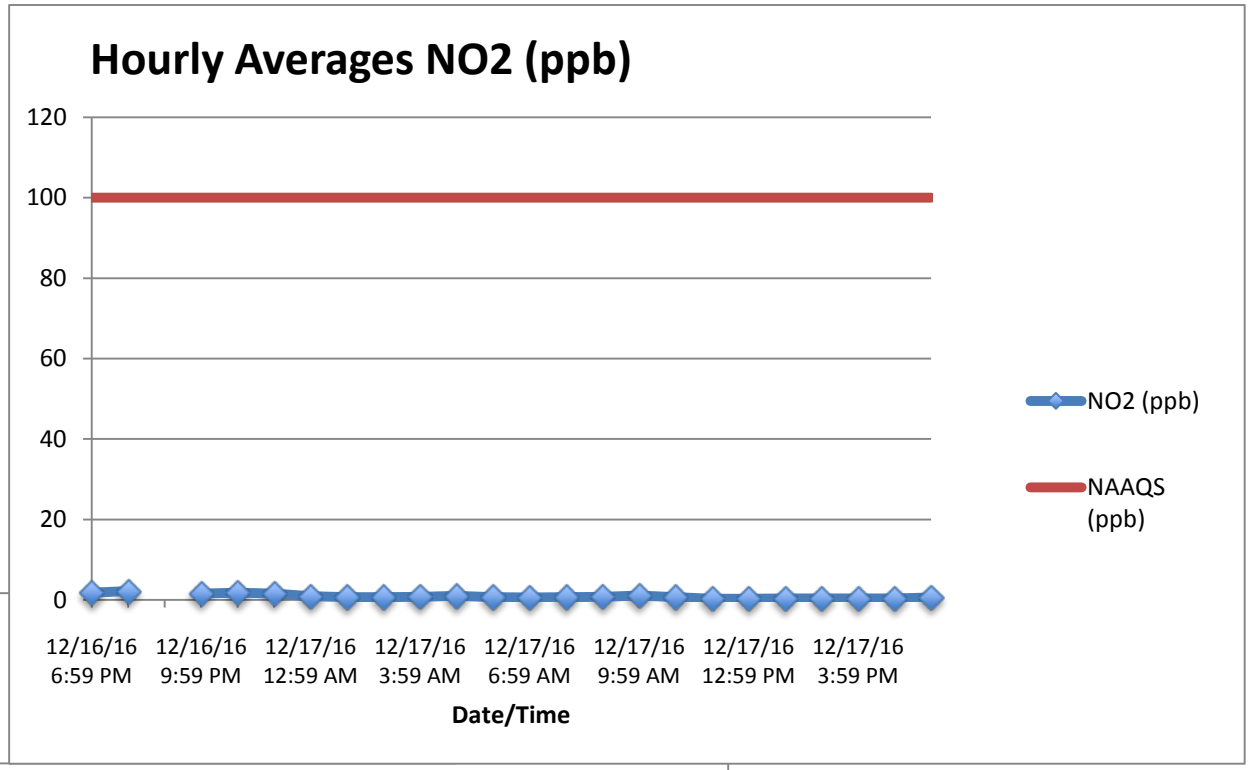
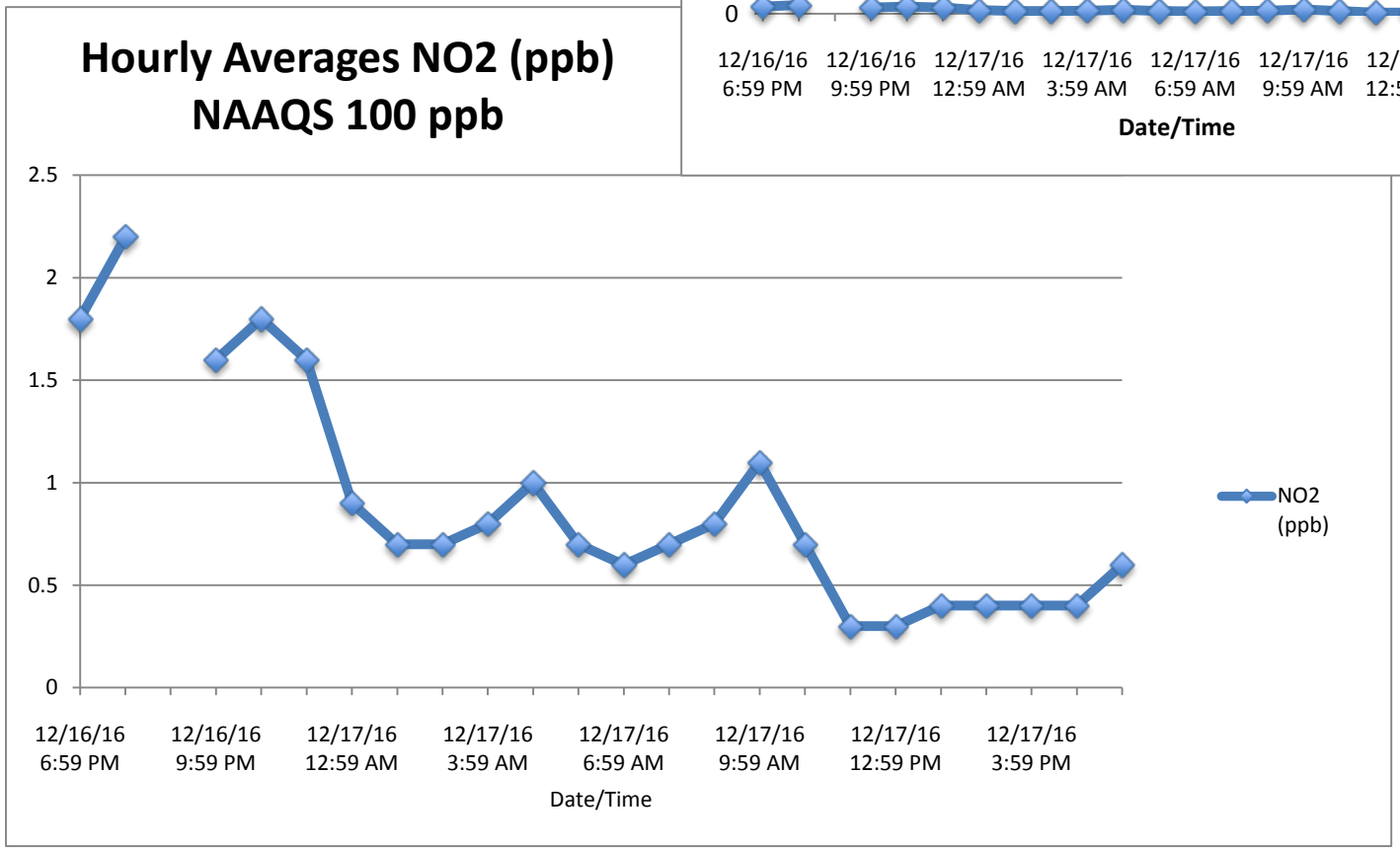
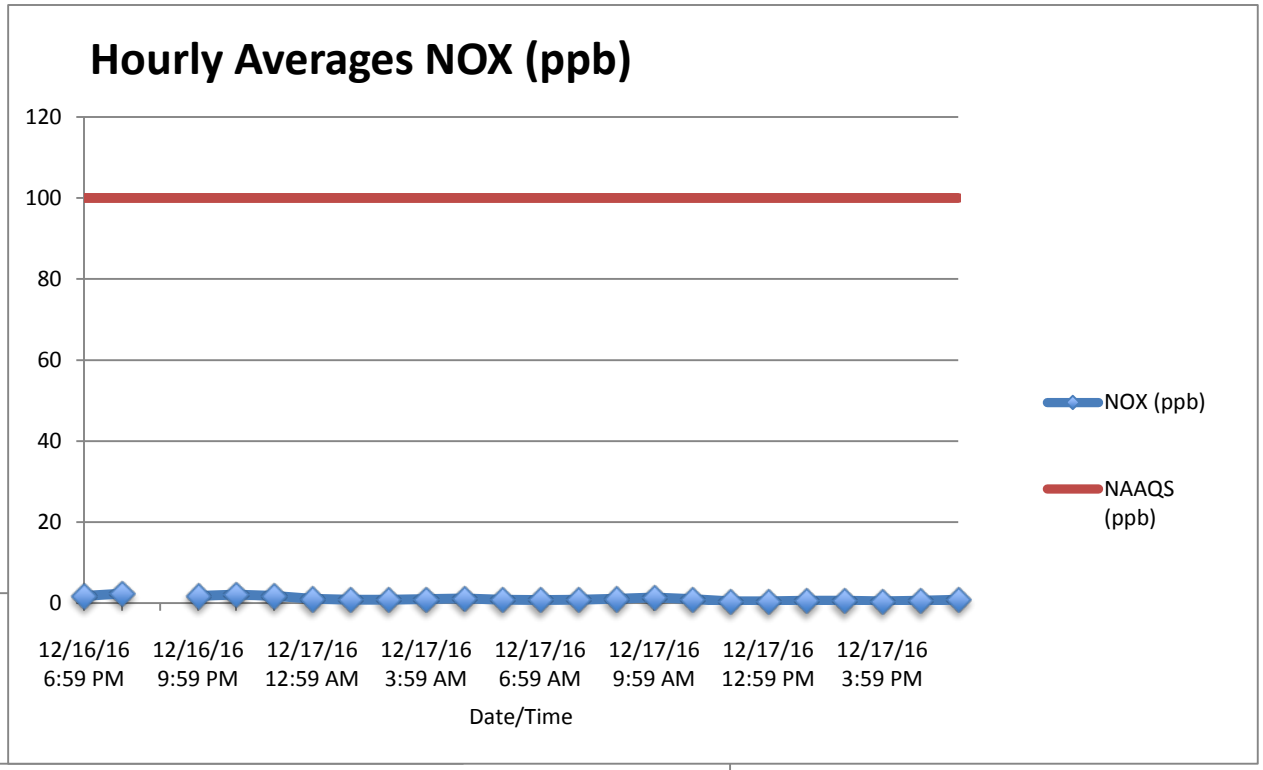
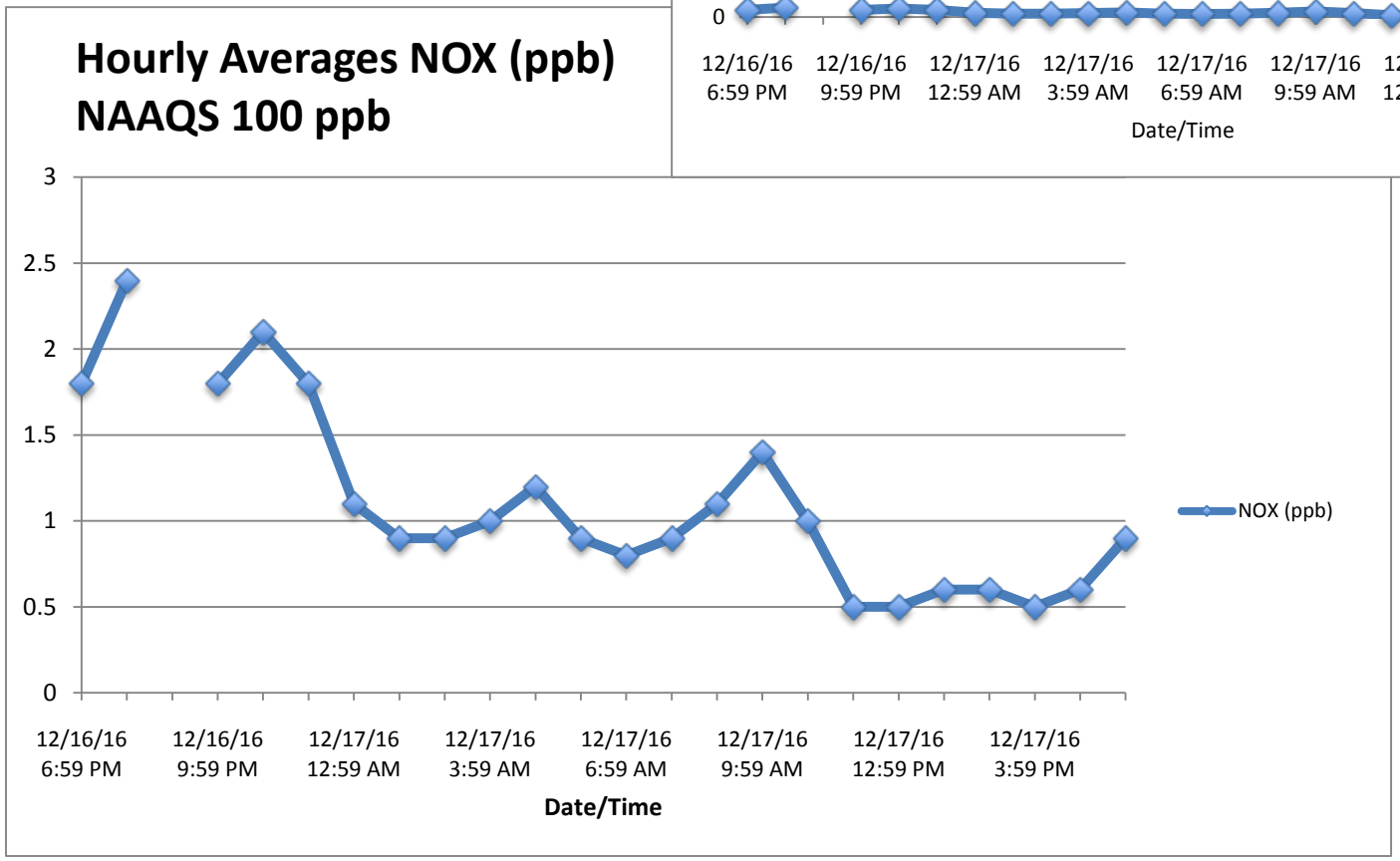
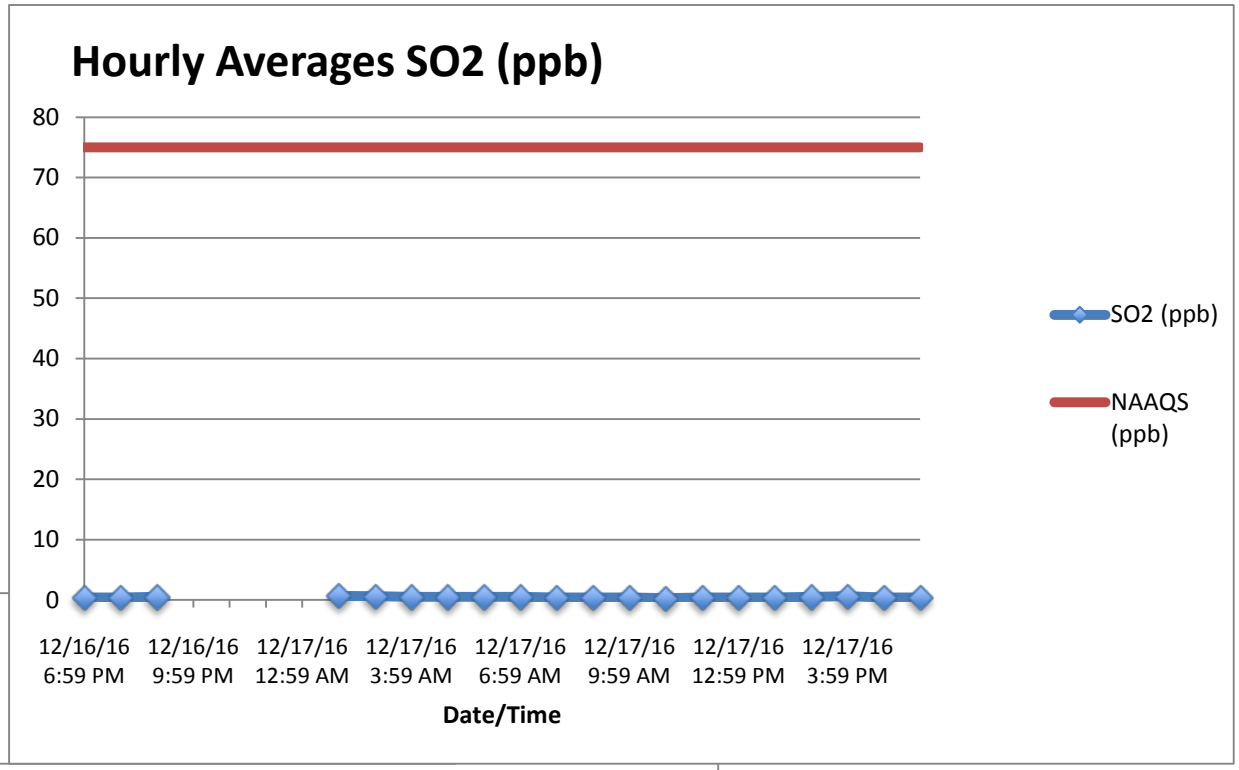
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
NO (ppb)

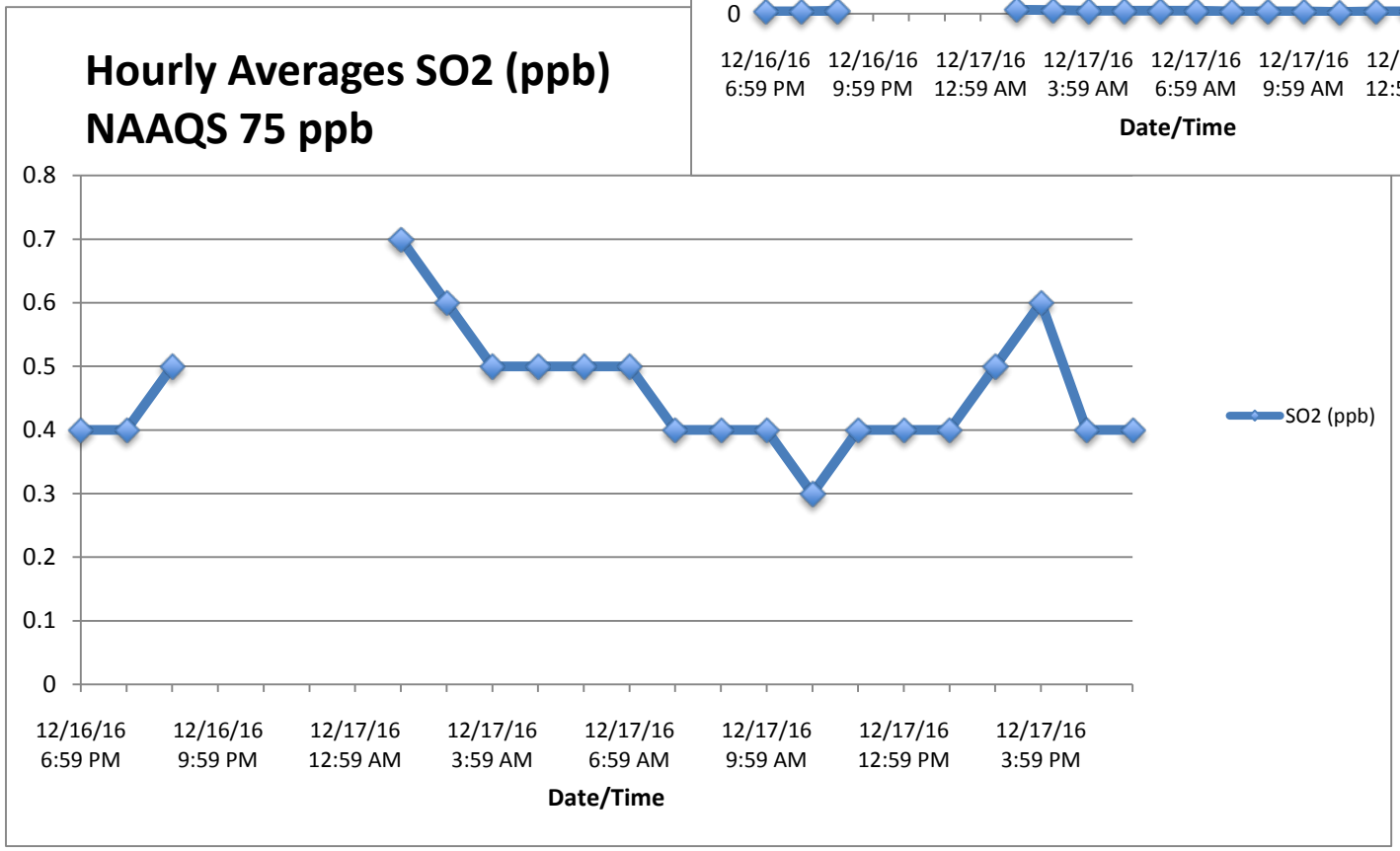

Hourly Averages NO2 (ppb)
120
100
80
60
40
20
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
NO2 (ppb)
NAAQS (ppb)

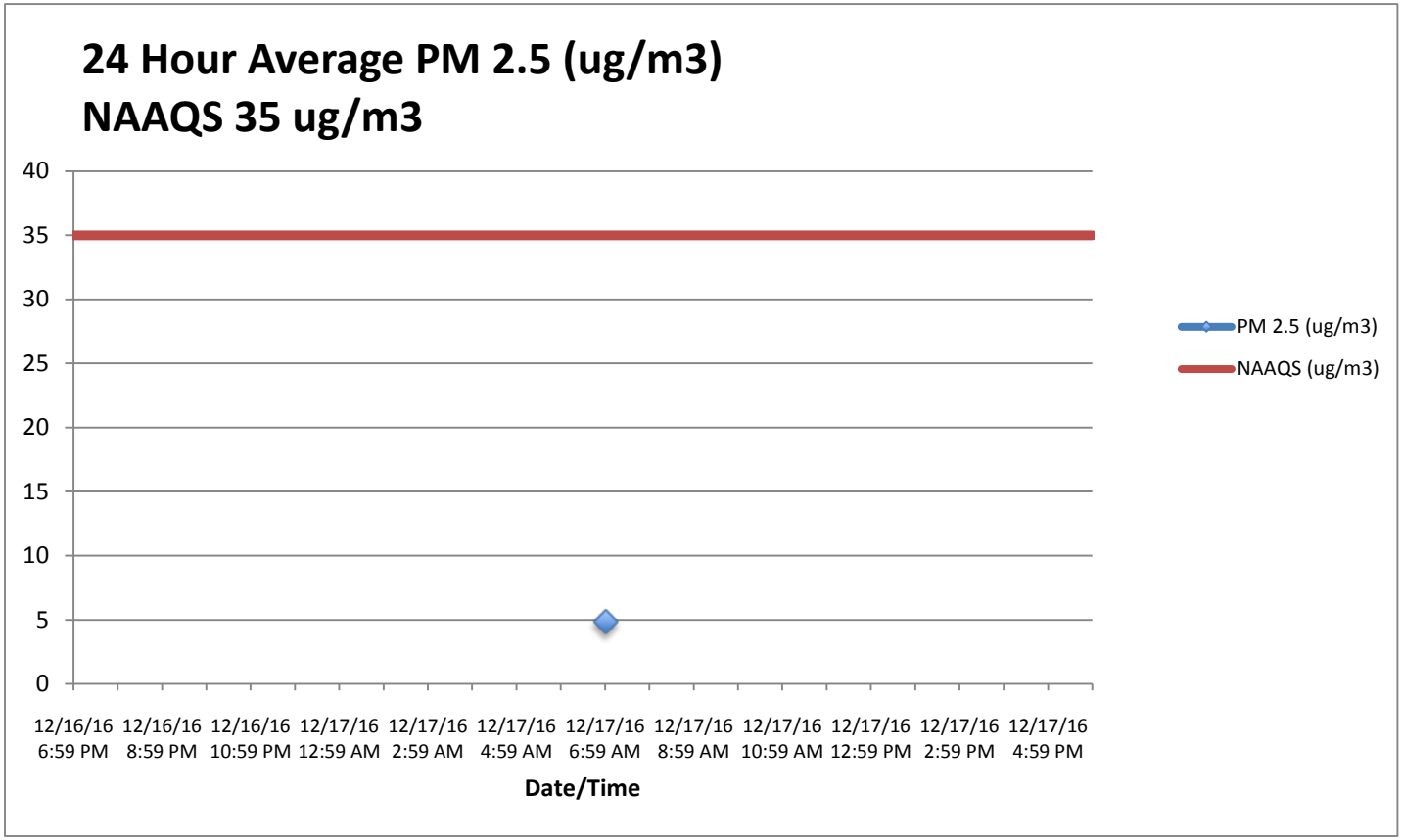

Hourly Averages NO2 (ppb)
NAAQS 100 ppb
2.5
2
1.5
1
0.5
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
NO2 (ppb)

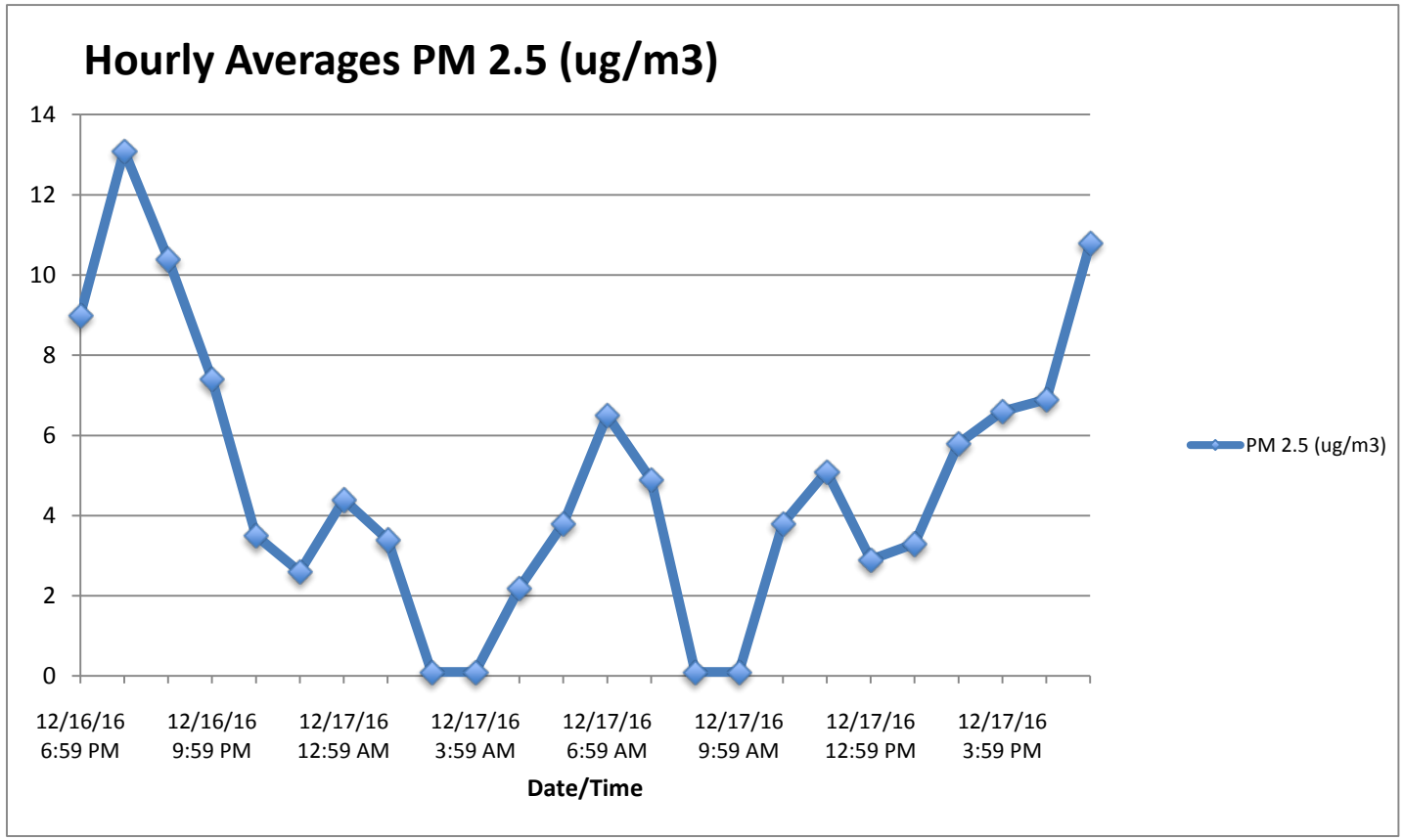

Hourly Averages NOX (ppb)
120
100
80
60
40
20
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
NOX (ppb)
NAAQS (ppb)


Hourly Averages NOX (ppb)
NAAQS 100 ppb
3
2.5
2
1.5
1
0.5
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
NOX (ppb)


Hourly Averages SO2 (ppb)
80
70
60
50
40
30
20
10
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
SO2 (ppb)
NAAQS (ppb)


Hourly Averages SO2 (ppb)
NAAQS 75 ppb
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
SO2 (ppb)


24 Hour Average PM 2.5 (ug/m3)
NAAQS 35 ug/m3
40
35
30
25
20
15
10
5
0
12/16/16 6:59 PM
12/16/16 8:59 PM
12/16/16 10:59 PM
12/17/16 12:59 AM
12/17/16 2:59 AM
12/17/16 4:59 AM
12/17/16 6:59 AM
12/17/16 8:59 AM
12/17/16 10:59 AM
12/17/16 12:59 PM
12/17/16 2:59 PM
12/17/16 4:59 PM
Date/Time
PM 2.5 (ug/m3)
NAAQS (ug/m3)


Hourly Averages PM 2.5 (ug/m3)
14
12
10
8
6
4
2
0
12/16/16 6:59 PM
12/16/16 9:59 PM
12/17/16 12:59 AM
12/17/16 3:59 AM
12/17/16 6:59 AM
12/17/16 9:59 AM
12/17/16 12:59 PM
12/17/16 3:59 PM
Date/Time
PM 2.5 (ug/m3)