



# Leighton Contractors Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

March 2015

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Norditech Pty Ltd  
Unit 36/70 Holbeche Road  
Arndell Park NSW 2148  
ABN 75 141 200 884

m: +61 403 248 038  
p: + 61 2 9622 6327  
f: +61 2 9622 6340

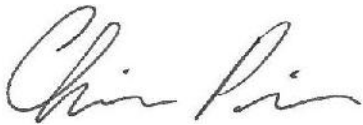
[info@norditech.com.au](mailto:info@norditech.com.au)  
[www.norditech.com.au](http://www.norditech.com.au)



## Document Control

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Prepared by



Chris Priser  
22 May 2015

Approved by



Bruno Nourdine  
22 May 2015

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## Glossary

The following terms and abbreviations may be found throughout this report:

AQMS – Air Quality Monitoring Station

EPA – Environment Protection Authority

NO – Nitric Oxide

NO<sub>2</sub> – Nitrogen Dioxide

NO<sub>x</sub> – Nitrogen Oxides

CO – Carbon Monoxide

PM<sub>10</sub> – Particulate matter of 10 microns or less aerodynamic equivalent size

PM<sub>2.5</sub> – Particulate matter of 2.5 microns or less aerodynamic equivalent size

TSP – Total Suspended Particulate

HVAS – High Volume Air Sampler

ppm – Parts Per Million

µg/m<sup>3</sup> – micrograms per cubic meter

AHS – Aviation High School

KSHS – Kedron State High School

LS – Lewis Street

ALOC – Airportlink Operation Centre

BS – Bryden St

## Executive Summary

### Exceedence Reporting

There were no readings over the relevant Air Quality Standards during the reporting period.

AirportlinkM7 AQMS Exceedence Reporting March 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Exceedences March 2015				
			Station 1 (AHS)	Station 2 (KSHS)	Station 3 (LS)	Station 4 (ALOC)	Station 5 (BS)
Carbon Monoxide	8 hour (rolling average)	8 ppm	0	0	0	0	0
Nitrogen dioxide	1 hour	0.120 ppm	0	0	0	0	0
	1 year	63 µg/m <sup>3</sup>	0	0	0	0	0
PM2.5	24 hour	25 µg/m <sup>3</sup>	0	0	0	0	0
PM10	24 hour	50 µg/m <sup>3</sup>	0	0	0	0	0

Table 1 Exceedence Reporting

Maximum allowed concentration criteria are as specified in Condition 19(k) of the Conditions of Approval.

## Introduction

Norditech Pty Ltd was appointed by Leighton Contractors Pty Limited in February 2015 to operate, maintain and report on the AirportlinkM7 Air Quality Monitoring Network.

The AirportlinkM7 Air Quality Monitoring Network consists of five sites located in close proximity to key locations of the Airportlink project, and is a requirement of the Conditions of Approval issued by the Coordinator General.

The addresses of the two parties are as follows

AirportlinkM7  
PO Box 412  
Lutwyche QLD 4030

Norditech Pty Ltd  
Unit 36/70 Holbeche Rd  
Arndell Park NSW 2148

## Monitoring

### Site Locations

AirportlinkM7 Site Location Coordinates		
	Latitude	Longitude
Station 1 (Aviation High School)	-27° 24' 46.5084"	153° 3' 48.0744"
Station 2 (Kedron State High School)	-27° 24' 47.5344"	153° 2' 17.8476"
Station 3 (Lewis Street)	-27° 24' 39.5532"	153° 3' 18.18"
Station 4 (Airportlink Operation Centre)	-27° 24' 43.2252"	153° 1' 58.3104"
Station 5 (Bryden Street)	-27° 26' 22.5852"	153° 2' 5.784"

Table 2 Site Location Coordinates

### Station Instrumentation Details

Each station continuously monitors the following pollutants:

- NO (Nitrogen Oxide)
- NO<sub>2</sub> (Nitrogen Dioxide)
- NO<sub>x</sub> (Total Oxides of Nitrogen)
- CO (Carbon Monoxide)
- PM<sub>10</sub>
- PM<sub>2.5</sub>
- TSP (Samples on a 1 in 6 day cycle)

Monthly validated data for each site are provided in the following Microsoft® Excel™ spreadsheet

- 201503 ALM7 Monthly Validated Data Spreadsheet.xlsx
  - Sheet 1 – 1 hour average data
  - Sheet 2 – 8 hour average data
  - Sheet 3 – 24 hour average data

Instrumentation Details								
Parameter	Units	Uncertainty	Method	Last Calibration Date				
				Station 1	Station 2	Station 3	Station 4	Station 5
NO NO <sub>2</sub> NO <sub>x</sub>	ppm	2.78%	AS 3580.5.1	11/3/15	10/3/15	11/3/15	11/3/15	11/3/15
CO	ppm	2.56%	AS 3580.7.1	10/3/15	10/3/15	10/3/15	11/3/15	10/3/15
PM <sub>10</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>
PM <sub>2.5</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11 / EQPM 0308-170	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>
TSP	µg/m <sup>3</sup>	7.34%	AS 3580.9.3	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>	<i>Due April 2015</i>

Table 3 Instrumentation Details

## Data Logging

Data are recorded to a WinAQMS data logger located at each site at 5 minute averaging periods, calculated from 10 second samples. All data are retrieved periodically, approximately on an hourly basis, over a private 3G network, to a central WinCollect database, where data validation is performed to remove any data not deemed as valid prior to reporting. Data validation is performed as per the relevant standard, and/or as per the instrument manufacturers recommended guidelines.

All averages greater than 5 minute averages are calculated from the 5 minute average data set. 75% valid data must be available to calculate re-averaged data. For example, to calculate a 1hr average from 5 minute data, there must be a minimum of 45 valid 5 minute average data points available.

All data is recorded to Australian Eastern Standard Time.

Data capture rates are calculated as per the following formula:

$$\text{Data Capture Rate \%} = \frac{\text{Available data points}}{\text{Total data points}} * 100$$

where:

Available data points = total number of 5 minute averages for the reporting period in which valid data was recorded

Total data points = total number of 5 minute averages for the reporting period inclusive of invalid data



## Results

### Station 1 (Aviation High School)

#### Summary

Station 1 Aviation High School Ambient AQMS Summary March 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.006	0.2	5.8	18.6
Min 1hr Average	-0.001	0.0	-2.8	0.0
Max 1hr Average	0.022	0.5	33.5	62.6
Max 8hr Rolling Average	-	0.4	-	-
Max 24hr Average	-	-	12.8	48.5
Capture Rate (%)	<b>30.8</b>	93.4	97.4	<b>66.0</b>

Table 4 Station 1 Monthly Summary

### Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary March 2015						
Date	24hr Avg (phm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2015	-	-	-	-	0	0.0
2/03/2015	-	-	-	-	0	0.0
3/03/2015	-	-	-	-	0	0.0
4/03/2015	-	-	-	-	0	0.0
5/03/2015	-	-	-	-	0	0.0
6/03/2015	-	-	-	-	0	0.0
7/03/2015	-	-	-	-	0	0.0
8/03/2015	-	-	-	-	0	0.0
9/03/2015	-	-	-	-	0	0.0
10/03/2015	-	-	-	-	0	0.0
11/03/2015	-	-	-	-	0	0.0
12/03/2015	-	-	-	-	0	0.0
13/03/2015	-	-	-	-	0	0.0
14/03/2015	-	-	-	-	0	0.0
15/03/2015	-	-	-	-	0	0.0
16/03/2015	-	-	-	-	0	0.0
17/03/2015	-	-	-	-	0	0.0
18/03/2015	-	-	-	-	0	0.0
19/03/2015	-	-	-	-	0	0.0
20/03/2015	-	-	-	-	0	0.0
21/03/2015	-	-	-	-	0	0.0
22/03/2015	0.005	0.001	0.009	2:00	0	91.7
23/03/2015	0.005	0.000	0.013	21:00	0	95.8
24/03/2015	0.006	0.002	0.011	2:00	0	95.8
25/03/2015	0.004	0.000	0.010	7:00	0	95.8
26/03/2015	0.004	0.000	0.010	6:00	0	95.8
27/03/2015	0.006	0.001	0.012	5:00	0	95.8
28/03/2015	0.003	-0.001	0.017	7:00	0	95.8
29/03/2015	0.006	-0.001	0.021	20:00	0	95.8
30/03/2015	0.011	0.002	0.022	21:00	0	95.8
31/03/2015	0.008	0.001	0.018	10:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 5 Station 1 Nitrogen Dioxide Monthly Summary

## Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary March 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/03/2015	0.2	0.1	0.4	06:00	0.3	08:00	0	94.1
2/03/2015	0.2	0.2	0.3	7:00	0.3	13:00	0	94.1
3/03/2015	0.2	0.2	0.3	7:00	0.3	8:00	0	89.9
4/03/2015	0.3	0.2	0.5	11:00	0.4	15:00	0	88.5
5/03/2015	0.3	0.2	0.5	11:00	0.4	14:00	0	94.1
6/03/2015	0.2	0.1	0.2	23:00	0.2	23:00	0	93.4
7/03/2015	0.2	0.2	0.3	12:00	0.3	14:00	0	92.7
8/03/2015	0.2	0.1	0.4	11:00	0.3	14:00	0	91.0
9/03/2015	0.2	0.2	0.4	13:00	0.3	14:00	0	91.7
10/03/2015	-	-	-	-	-	-	0	64.6
11/03/2015	0.1	0.1	0.4	7:00	0.2	9:00	0	94.4
12/03/2015	0.1	0.1	0.2	7:00	0.2	11:00	0	90.3
13/03/2015	0.2	0.1	0.3	7:00	0.2	8:00	0	94.1
14/03/2015	0.1	0.1	0.2	9:00	0.2	1:00	0	94.8
15/03/2015	0.1	0.0	0.2	18:00	0.2	23:00	0	94.8
16/03/2015	0.1	0.1	0.2	8:00	0.1	0:00	0	94.8
17/03/2015	0.1	0.0	0.3	7:00	0.1	11:00	0	94.8
18/03/2015	0.2	0.1	0.3	6:00	0.2	12:00	0	95.1
19/03/2015	0.2	0.1	0.4	6:00	0.2	11:00	0	94.1
20/03/2015	0.2	0.1	0.4	8:00	0.3	12:00	0	94.4
21/03/2015	0.2	0.2	0.4	18:00	0.3	22:00	0	95.1
22/03/2015	0.2	0.1	0.3	9:00	0.3	0:00	0	95.1
23/03/2015	0.2	0.1	0.4	22:00	0.2	23:00	0	94.4
24/03/2015	0.2	0.1	0.4	6:00	0.3	4:00	0	94.1
25/03/2015	0.2	0.1	0.3	6:00	0.2	12:00	0	94.4
26/03/2015	0.2	0.1	0.3	7:00	0.3	11:00	0	94.4
27/03/2015	0.2	0.1	0.4	6:00	0.3	11:00	0	94.4
28/03/2015	0.1	0.1	0.2	6:00	0.2	8:00	0	95.5
29/03/2015	0.1	0.0	0.2	7:00	0.1	8:00	0	95.1
30/03/2015	0.2	0.0	0.3	6:00	0.2	8:00	0	95.1
31/03/2015	0.2	0.1	0.3	8:00	0.2	11:00	0	95.1

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 6 Station 1 Carbon Monoxide Monthly Summary

PM<sub>2.5</sub> Summary

Station 1 Aviation High School Ambient AQMS Particulate PM <sub>2.5</sub> Summary March 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
1/03/2015	3.0	-2.0	6.8	16:00	0	100.0
2/03/2015	1.9	-2.8	5.9	17:00	0	100.0
3/03/2015	4.5	0.0	11.0	17:00	0	87.5
4/03/2015	7.3	3.2	10.8	13:00	0	91.7
5/03/2015	5.1	-1.0	16.1	16:00	0	95.8
6/03/2015	12.8	9.7	18.7	8:00	0	100.0
7/03/2015	11.0	6.2	16.9	16:00	0	100.0
8/03/2015	9.6	2.8	14.7	13:00	0	100.0
9/03/2015	5.5	-0.8	10.8	15:00	0	100.0
10/03/2015	5.1	1.2	11.8	21:00	0	95.8
11/03/2015	5.9	2.0	9.7	17:00	0	100.0
12/03/2015	2.7	-2.0	7.0	17:00	0	95.8
13/03/2015	3.6	0.1	7.8	7:00	0	100.0
14/03/2015	6.3	2.3	9.8	21:00	0	95.8
15/03/2015	6.2	2.3	10.0	19:00	0	95.8
16/03/2015	6.6	2.3	9.6	17:00	0	95.8
17/03/2015	5.3	2.0	7.8	20:00	0	100.0
18/03/2015	6.9	1.3	11.9	18:00	0	95.8
19/03/2015	6.3	2.0	9.8	16:00	0	95.8
20/03/2015	11.7	2.0	33.5	14:00	0	87.5
21/03/2015	4.4	-1.8	8.9	15:00	0	100.0
22/03/2015	5.0	1.2	7.9	19:00	0	100.0
23/03/2015	3.5	0.2	8.9	6:00	0	91.3
24/03/2015	3.6	-0.9	6.8	16:00	0	100.0
25/03/2015	4.4	0.3	8.8	0:00	0	100.0
26/03/2015	2.2	-0.8	5.8	8:00	0	100.0
27/03/2015	7.4	1.1	15.9	18:00	0	100.0
28/03/2015	7.5	2.3	17.3	8:00	0	100.0
29/03/2015	6.4	3.0	9.6	14:00	0	100.0
30/03/2015	4.4	-0.9	7.9	7:00	0	100.0
31/03/2015	3.7	-0.8	8.0	9:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 7 Station 1 PM<sub>2.5</sub> Monthly Summary

**PM<sub>10</sub> Summary**

Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary March 2015						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Averages			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/03/2015	7.5	3.8	19.1	15:00	0	100.0
2/03/2015	10.5	1.1	37.5	15:00	0	100.0
3/03/2015	16.4	7.1	31.0	16:00	0	87.5
4/03/2015	17.1	7.1	39.3	17:00	0	95.8
5/03/2015	15.9	4.0	54.1	17:00	0	100.0
6/03/2015	<b>48.4</b>	<b>38.7</b>	58.7	15:00	0	100.0
7/03/2015	32.4	19.9	60.3	17:00	0	100.0
8/03/2015	19.5	0.0	44.6	17:00	0	100.0
9/03/2015	18.9	7.2	41.0	11:00	0	100.0
10/03/2015	16.5	10.2	25.5	8:00	0	100.0
11/03/2015	17.8	11.8	29.2	8:00	0	100.0
12/03/2015	11.2	6.1	17.8	7:00	0	100.0
13/03/2015	11.7	2.4	20.8	11:00	0	100.0
14/03/2015	17.8	9.0	29.3	21:00	0	100.0
15/03/2015	14.3	8.3	26.3	17:00	0	100.0
16/03/2015	20.0	6.1	37.1	15:00	0	100.0
17/03/2015	21.8	13.8	28.8	0:00	0	100.0
18/03/2015	14.8	1.3	25.9	18:00	0	100.0
19/03/2015	17.8	8.8	31.9	13:00	0	100.0
20/03/2015	26.7	10.4	<b>62.6</b>	12:00	0	100.0
21/03/2015	-	-	-	-	0	62.5
22/03/2015	-	-	-	-	0	0.0
23/03/2015	-	-	-	-	0	0.0
24/03/2015	-	-	-	-	0	0.0
25/03/2015	-	-	-	-	0	0.0
26/03/2015	-	-	-	-	0	0.0
27/03/2015	-	-	-	-	0	0.0
28/03/2015	-	-	-	-	0	0.0
29/03/2015	-	-	-	-	0	0.0
30/03/2015	-	-	-	-	0	0.0
31/03/2015	-	-	-	-	0	0.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 8 Station 1 PM<sub>10</sub> Monthly Summary

## Station 2 (Kedron State High School)

### Summary

Station 2 Kedron State High School Ambient AQMS Summary March 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.008	-	3.2	18.0
Min 1hr Average	0.002	-	-4.5	-1.0
Max 1hr Average	0.027	-	26.5	68.2
Max 8hr Rolling Average	-	-	-	-
Max 24hr Average	-	-	10.6	49.6
Capture Rate (%)	92.9	0.0	84.7	93.0

Table 9 Station 2 Monthly Summary

Nitrogen Dioxide Summary

Station 2 Kedron State High School Ambient AQMS Nitrogen Dioxide Summary March 2015						
Date	24hr Avg (phm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2015	0.005	0.003	0.010	3:00	0	95.8
2/03/2015	0.007	0.005	0.013	6:00	0	95.8
3/03/2015	0.008	0.004	0.022	6:00	0	95.8
4/03/2015	0.009	0.004	0.021	7:00	0	91.7
5/03/2015	0.007	0.003	0.015	6:00	0	95.8
6/03/2015	0.005	0.002	0.010	7:00	0	95.8
7/03/2015	0.007	0.003	0.019	5:00	0	95.8
8/03/2015	0.007	0.003	0.017	5:00	0	95.8
9/03/2015	0.009	0.004	0.018	6:00	0	95.8
10/03/2015	0.006	0.004	0.013	6:00	0	87.5
11/03/2015	0.008	0.003	0.018	6:00	0	95.8
12/03/2015	0.009	0.004	0.017	6:00	0	91.7
13/03/2015	0.010	0.004	0.020	5:00	0	95.8
14/03/2015	0.008	0.004	0.015	6:00	0	95.8
15/03/2015	0.006	0.003	0.012	19:00	0	95.8
16/03/2015	0.008	0.004	0.019	6:00	0	95.8
17/03/2015	0.009	0.003	0.020	6:00	0	95.8
18/03/2015	0.008	0.004	0.014	6:00	0	95.8
19/03/2015	0.007	0.004	0.016	7:00	0	95.8
20/03/2015	0.007	0.003	0.014	9:00	0	95.8
21/03/2015	0.009	0.003	0.024	18:00	0	95.8
22/03/2015	-	-	-	-	0	70.8
23/03/2015	-	-	-	-	0	47.8
24/03/2015	0.008	0.004	0.015	7:00	0	95.8
25/03/2015	0.006	0.004	0.012	7:00	0	95.8
26/03/2015	0.007	0.003	0.014	23:00	0	95.8
27/03/2015	0.010	0.006	0.018	2:00	0	95.8
28/03/2015	0.007	0.004	0.012	6:00	0	95.8
29/03/2015	0.008	0.003	0.017	23:00	0	95.8
30/03/2015	0.015	0.004	0.025	9:00	0	95.8
31/03/2015	0.014	0.005	0.027	9:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

### Carbon Monoxide Summary

Station 2 Kedron State High School Ambient AQMS Carbon Monoxide Summary March 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/03/2015	-	-	-	-	-	-	0	0.0
2/03/2015	-	-	-	-	-	-	0	0.0
3/03/2015	-	-	-	-	-	-	0	0.0
4/03/2015	-	-	-	-	-	-	0	0.0
5/03/2015	-	-	-	-	-	-	0	0.0
6/03/2015	-	-	-	-	-	-	0	0.0
7/03/2015	-	-	-	-	-	-	0	0.0
8/03/2015	-	-	-	-	-	-	0	0.0
9/03/2015	-	-	-	-	-	-	0	0.0
10/03/2015	-	-	-	-	-	-	0	0.0
11/03/2015	-	-	-	-	-	-	0	0.0
12/03/2015	-	-	-	-	-	-	0	0.0
13/03/2015	-	-	-	-	-	-	0	0.0
14/03/2015	-	-	-	-	-	-	0	0.0
15/03/2015	-	-	-	-	-	-	0	0.0
16/03/2015	-	-	-	-	-	-	0	0.0
17/03/2015	-	-	-	-	-	-	0	0.0
18/03/2015	-	-	-	-	-	-	0	0.0
19/03/2015	-	-	-	-	-	-	0	0.0
20/03/2015	-	-	-	-	-	-	0	0.0
21/03/2015	-	-	-	-	-	-	0	0.0
22/03/2015	-	-	-	-	-	-	0	0.0
23/03/2015	-	-	-	-	-	-	0	0.0
24/03/2015	-	-	-	-	-	-	0	0.0
25/03/2015	-	-	-	-	-	-	0	0.0
26/03/2015	-	-	-	-	-	-	0	0.0
27/03/2015	-	-	-	-	-	-	0	0.0
28/03/2015	-	-	-	-	-	-	0	0.0
29/03/2015	-	-	-	-	-	-	0	0.0
30/03/2015	-	-	-	-	-	-	0	0.0
31/03/2015	-	-	-	-	-	-	0	0.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 11 Station 2 Carbon Monoxide Monthly Summary



PM2.5 Summary

Station 2 Kedron State High School Ambient AQMS Particulate PM2.5 Summary March 2015						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/03/2015	-0.4	-4.5	4.8	17:00	0	95.8
2/03/2015	1.6	-3.9	6.7	19:00	0	100.0
3/03/2015	3.2	-0.7	5.9	16:00	0	100.0
4/03/2015	3.2	-1.0	7.0	16:00	0	91.7
5/03/2015	1.6	-3.9	5.7	16:00	0	95.8
6/03/2015	10.6	6.0	16.8	3:00	0	100.0
7/03/2015	8.0	2.2	15.1	11:00	0	95.8
8/03/2015	4.4	-1.0	12.6	7:00	0	100.0
9/03/2015	2.1	-3.9	8.8	7:00	0	95.8
10/03/2015	2.0	-1.7	5.8	14:00	0	95.8
11/03/2015	2.2	-1.0	6.9	8:00	0	100.0
12/03/2015	-0.1	-3.7	5.8	8:00	0	100.0
13/03/2015	2.6	-3.7	10.4	9:00	0	100.0
14/03/2015	4.5	1.0	9.5	0:00	0	100.0
15/03/2015	3.6	-1.8	10.7	22:00	0	100.0
16/03/2015	4.3	-1.0	14.7	7:00	0	100.0
17/03/2015	4.1	-0.8	7.8	6:00	0	100.0
18/03/2015	2.8	-3.6	8.7	21:00	0	100.0
19/03/2015	0.9	-1.9	3.9	21:00	0	100.0
20/03/2015	6.9	-1.0	26.5	14:00	0	100.0
21/03/2015	0.8	-3.5	4.7	0:00	0	95.8
22/03/2015	-	-	-	-	0	70.8
23/03/2015	-	-	-	-	0	39.1
24/03/2015	-	-	-	-	0	0.0
25/03/2015	-	-	-	-	0	0.0
26/03/2015	-	-	-	-	0	0.0
27/03/2015	-	-	-	-	0	56.5
28/03/2015	4.9	0.4	8.8	15:00	0	100.0
29/03/2015	2.3	-2.0	5.9	20:00	0	100.0
30/03/2015	2.7	-2.9	8.7	10:00	0	100.0
31/03/2015	2.9	-2.9	9.7	10:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 12 Station 2 PM<sub>2.5</sub> Monthly Summary

*PM<sub>10</sub> Summary*

Station 2 Kedron State High School Ambient AQMS Particulate PM10 Summary March 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
1/03/2015	8.7	4.3	19.5	11:00	0	95.8
2/03/2015	13.9	7.0	24.8	16:00	0	95.8
3/03/2015	19.1	6.5	27.0	8:00	0	100.0
4/03/2015	16.7	6.2	34.5	8:00	0	91.7
5/03/2015	15.7	4.2	30.3	23:00	0	95.8
6/03/2015	49.3	29.7	68.2	14:00	0	100.0
7/03/2015	33.8	21.1	56.3	10:00	0	91.7
8/03/2015	19.6	10.4	27.0	7:00	0	95.8
9/03/2015	20.7	9.2	32.6	9:00	0	95.8
10/03/2015	17.6	11.1	25.3	15:00	0	95.8
11/03/2015	18.6	11.9	33.3	15:00	0	95.8
12/03/2015	12.2	1.5	28.4	8:00	0	100.0
13/03/2015	13.5	7.0	19.5	6:00	0	95.8
14/03/2015	19.7	15.0	26.5	16:00	0	100.0
15/03/2015	15.4	8.7	25.8	20:00	0	95.8
16/03/2015	20.7	6.1	36.8	17:00	0	100.0
17/03/2015	22.9	10.7	39.9	14:00	0	95.8
18/03/2015	15.3	4.2	27.8	9:00	0	95.8
19/03/2015	19.2	7.7	41.4	7:00	0	100.0
20/03/2015	25.5	9.1	54.5	14:00	0	95.8
21/03/2015	10.2	-0.1	23.6	9:00	0	100.0
22/03/2015	-	-	-	-	0	70.8
23/03/2015	-	-	-	-	0	47.8
24/03/2015	9.9	4.8	17.8	14:00	0	95.8
25/03/2015	11.4	2.3	37.8	14:00	0	95.8
26/03/2015	8.9	0.3	18.0	10:00	0	100.0
27/03/2015	22.8	7.3	42.5	19:00	0	95.8
28/03/2015	25.2	13.0	37.3	0:00	0	100.0
29/03/2015	14.9	7.8	24.8	9:00	0	100.0
30/03/2015	15.3	9.7	30.8	9:00	0	95.8
31/03/2015	-	-	-	-	0	50.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 13 Station 2 PM<sub>10</sub> Monthly Summary

### Station 3 (Lewis Street)

#### Summary

Station 3 Lewis St Ambient AQMS Summary March 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.007	0.1	-	13.5
Min 1hr Average	0.000	0.0	-	-5.7
Max 1hr Average	0.019	0.4	-	53.6
Max 8hr Rolling Average	-	0.4	-	-
Max 24hr Average	-	-	-	43.4
Capture Rate (%)	95.0	94.2	0.0	98.9

Table 14 Station 3 Monthly Summary

### Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary March 2015						
Date	24hr Avg (phm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2015	0.003	0.001	0.007	5:00	0	95.8
2/03/2015	0.005	0.003	0.008	8:00	0	87.5
3/03/2015	0.007	0.002	0.015	6:00	0	91.7
4/03/2015	0.006	0.003	0.013	7:00	0	95.8
5/03/2015	0.006	0.001	0.011	20:00	0	95.8
6/03/2015	0.005	0.000	0.009	20:00	0	95.8
7/03/2015	0.006	0.001	0.010	7:00	0	95.8
8/03/2015	0.005	0.002	0.011	5:00	0	95.8
9/03/2015	0.007	0.003	0.014	6:00	0	95.8
10/03/2015	0.007	0.003	0.012	6:00	0	87.5
11/03/2015	0.009	0.006	0.015	6:00	0	95.8
12/03/2015	0.009	0.006	0.014	7:00	0	91.7
13/03/2015	0.007	0.004	0.013	3:00	0	95.8
14/03/2015	0.004	0.003	0.007	23:00	0	95.8
15/03/2015	0.005	0.002	0.012	0:00	0	95.8
16/03/2015	0.006	0.003	0.010	6:00	0	95.8
17/03/2015	0.007	0.003	0.016	6:00	0	95.8
18/03/2015	0.006	0.004	0.013	10:00	0	95.8
19/03/2015	0.006	0.002	0.011	7:00	0	95.8
20/03/2015	0.007	0.002	0.012	9:00	0	95.8
21/03/2015	0.006	0.002	0.018	18:00	0	95.8
22/03/2015	0.007	0.004	0.011	0:00	0	95.8
23/03/2015	0.007	0.003	0.013	19:00	0	95.8
24/03/2015	0.006	0.002	0.013	7:00	0	95.8
25/03/2015	0.005	0.002	0.011	23:00	0	95.8
26/03/2015	0.005	0.002	0.011	0:00	0	95.8
27/03/2015	0.008	0.004	0.012	4:00	0	95.8
28/03/2015	0.007	0.004	0.015	8:00	0	95.8
29/03/2015	0.007	0.002	0.014	20:00	0	95.8
30/03/2015	0.013	0.005	0.019	8:00	0	95.8
31/03/2015	0.011	0.004	0.019	9:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 15 Station 3 Nitrogen Dioxide Monthly Summary

## Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary March 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/03/2015	0.1	0.0	0.4	04:00	0.3	04:00	0	95.1
2/03/2015	0.1	0.0	0.1	7:00	0.1	23:00	0	87.8
3/03/2015	0.1	0.0	0.2	6:00	0.1	8:00	0	94.4
4/03/2015	0.1	0.0	0.2	6:00	0.1	8:00	0	95.1
5/03/2015	0.1	0.0	0.2	7:00	0.1	22:00	0	95.8
6/03/2015	0.0	0.0	0.1	20:00	0.1	0:00	0	94.8
7/03/2015	0.1	0.0	0.1	7:00	0.1	10:00	0	95.8
8/03/2015	0.1	0.1	0.2	5:00	0.1	8:00	0	95.8
9/03/2015	0.2	0.1	0.3	7:00	0.2	10:00	0	95.8
10/03/2015	-	-	-	-	-	-	0	62.2
11/03/2015	0.1	0.0	0.2	7:00	0.1	8:00	0	95.8
12/03/2015	0.1	0.0	0.2	7:00	0.1	23:00	0	92.0
13/03/2015	0.1	0.0	0.1	7:00	0.1	8:00	0	94.8
14/03/2015	0.0	0.0	0.0	23:00	0.0	0:00	0	95.8
15/03/2015	0.0	0.0	0.1	18:00	0.0	23:00	0	95.8
16/03/2015	0.0	0.0	0.1	8:00	0.0	0:00	0	95.8
17/03/2015	0.0	0.0	0.1	7:00	0.1	23:00	0	95.8
18/03/2015	0.1	0.0	0.1	18:00	0.1	22:00	0	95.8
19/03/2015	0.2	0.1	0.3	9:00	0.2	22:00	0	95.8
20/03/2015	0.2	0.2	0.3	8:00	0.3	14:00	0	95.8
21/03/2015	0.2	0.1	0.3	18:00	0.3	23:00	0	95.8
22/03/2015	0.2	0.2	0.3	9:00	0.3	0:00	0	95.8
23/03/2015	0.2	0.1	0.3	23:00	0.2	23:00	0	95.8
24/03/2015	0.2	0.2	0.4	7:00	0.3	7:00	0	95.8
25/03/2015	0.2	0.2	0.3	7:00	0.3	23:00	0	95.8
26/03/2015	0.3	0.2	0.3	22:00	0.3	23:00	0	95.8
27/03/2015	0.3	0.2	0.4	7:00	0.4	8:00	0	95.8
28/03/2015	0.2	0.2	0.3	7:00	0.3	1:00	0	95.8
29/03/2015	0.2	0.2	0.4	7:00	0.3	8:00	0	95.8
30/03/2015	0.3	0.2	0.4	7:00	0.3	9:00	0	95.8
31/03/2015	0.3	0.2	0.4	9:00	0.4	12:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 16 Station 3 Carbon Monoxide Monthly Summary

**PM<sub>2.5</sub> Summary**

Station 3 Lewis St Ambient AQMS Particulate PM <sub>2.5</sub> Summary March 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
1/03/2015	-	-	-	-	0	0.0
2/03/2015	-	-	-	-	0	0.0
3/03/2015	-	-	-	-	0	0.0
4/03/2015	-	-	-	-	0	0.0
5/03/2015	-	-	-	-	0	0.0
6/03/2015	-	-	-	-	0	0.0
7/03/2015	-	-	-	-	0	0.0
8/03/2015	-	-	-	-	0	0.0
9/03/2015	-	-	-	-	0	0.0
10/03/2015	-	-	-	-	0	0.0
11/03/2015	-	-	-	-	0	0.0
12/03/2015	-	-	-	-	0	0.0
13/03/2015	-	-	-	-	0	0.0
14/03/2015	-	-	-	-	0	0.0
15/03/2015	-	-	-	-	0	0.0
16/03/2015	-	-	-	-	0	0.0
17/03/2015	-	-	-	-	0	0.0
18/03/2015	-	-	-	-	0	0.0
19/03/2015	-	-	-	-	0	0.0
20/03/2015	-	-	-	-	0	0.0
21/03/2015	-	-	-	-	0	0.0
22/03/2015	-	-	-	-	0	0.0
23/03/2015	-	-	-	-	0	0.0
24/03/2015	-	-	-	-	0	0.0
25/03/2015	-	-	-	-	0	0.0
26/03/2015	-	-	-	-	0	0.0
27/03/2015	-	-	-	-	0	0.0
28/03/2015	-	-	-	-	0	0.0
29/03/2015	-	-	-	-	0	0.0
30/03/2015	-	-	-	-	0	0.0
31/03/2015	-	-	-	-	0	0.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 17 Station 3 PM<sub>2.5</sub> Monthly Summary

PM<sub>10</sub> Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary March 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Averages			No. of exceedences 24hr Avg > 50.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
1/03/2015	9.2	3.1	19.9	02:00	0	100.0
2/03/2015	8.9	2.1	19.0	17:00	0	83.3
3/03/2015	15.5	5.0	29.0	2:00	0	100.0
4/03/2015	13.0	5.0	28.0	11:00	0	100.0
5/03/2015	12.6	3.0	30.0	23:00	0	100.0
6/03/2015	43.7	32.0	51.0	8:00	0	95.8
7/03/2015	28.7	15.3	47.5	11:00	0	95.8
8/03/2015	16.9	11.0	23.9	10:00	0	100.0
9/03/2015	14.9	6.3	27.5	11:00	0	100.0
10/03/2015	12.3	7.4	19.0	7:00	0	91.7
11/03/2015	15.1	8.3	22.0	14:00	0	100.0
12/03/2015	10.3	4.4	16.5	17:00	0	100.0
13/03/2015	8.6	4.1	19.8	13:00	0	100.0
14/03/2015	14.8	7.3	21.9	21:00	0	100.0
15/03/2015	11.0	4.2	20.7	19:00	0	100.0
16/03/2015	17.5	4.0	29.5	20:00	0	100.0
17/03/2015	17.6	11.0	36.9	8:00	0	100.0
18/03/2015	9.5	2.3	21.6	18:00	0	100.0
19/03/2015	16.8	6.4	41.5	10:00	0	100.0
20/03/2015	22.1	9.0	53.6	14:00	0	100.0
21/03/2015	7.4	0.0	14.7	9:00	0	100.0
22/03/2015	3.3	0.1	9.0	15:00	0	100.0
23/03/2015	1.6	-5.7	7.7	20:00	0	100.0
24/03/2015	5.2	1.3	17.4	8:00	0	100.0
25/03/2015	6.9	1.1	16.5	14:00	0	100.0
26/03/2015	6.1	1.1	15.6	13:00	0	100.0
27/03/2015	17.7	2.3	33.8	20:00	0	100.0
28/03/2015	19.8	10.5	29.7	3:00	0	100.0
29/03/2015	12.7	6.9	18.8	11:00	0	100.0
30/03/2015	10.8	4.2	18.9	8:00	0	100.0
31/03/2015	9.1	0.0	38.5	12:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 18 Station 3 PM<sub>10</sub> Monthly Summary

## Station 4 (Airportlink Operation Centre)

### Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary March 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.009	0.3	9.1	18.5
Min 1hr Average	-0.001	0.1	0.1	1.0
Max 1hr Average	0.024	0.6	35.3	60.2
Max 8hr Rolling Average	-	0.4	-	-
Max 24hr Average	-	-	16.2	47.1
Capture Rate (%)	94.4	94.4	98.3	93.5

Table 19 Station 4 Monthly Summary



## Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary March 2015						
Date	24hr Avg (phm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2015	0.002	-0.001	0.006	2:00	0	95.8
2/03/2015	0.009	0.000	0.020	14:00	0	87.5
3/03/2015	0.007	0.001	0.012	10:00	0	95.8
4/03/2015	0.007	0.004	0.012	7:00	0	95.8
5/03/2015	0.005	0.001	0.011	19:00	0	95.8
6/03/2015	0.006	-0.001	0.015	7:00	0	95.8
7/03/2015	0.004	0.001	0.009	10:00	0	95.8
8/03/2015	0.004	0.001	0.009	5:00	0	95.8
9/03/2015	0.006	0.002	0.011	11:00	0	79.2
10/03/2015	0.005	0.003	0.012	7:00	0	95.8
11/03/2015	0.010	0.002	0.016	18:00	0	79.2
12/03/2015	0.013	0.008	0.019	18:00	0	91.7
13/03/2015	0.013	0.009	0.020	16:00	0	95.8
14/03/2015	0.011	0.007	0.019	18:00	0	95.8
15/03/2015	0.010	0.006	0.018	19:00	0	95.8
16/03/2015	0.015	0.008	0.024	16:00	0	95.8
17/03/2015	0.012	0.008	0.019	8:00	0	95.8
18/03/2015	0.011	0.006	0.017	10:00	0	95.8
19/03/2015	0.010	0.007	0.016	7:00	0	95.8
20/03/2015	0.010	0.006	0.014	12:00	0	95.8
21/03/2015	0.010	0.005	0.018	18:00	0	95.8
22/03/2015	0.010	0.006	0.013	12:00	0	95.8
23/03/2015	0.012	0.006	0.016	21:00	0	95.8
24/03/2015	0.009	0.006	0.013	7:00	0	95.8
25/03/2015	0.008	0.006	0.012	7:00	0	95.8
26/03/2015	0.008	0.006	0.013	22:00	0	95.8
27/03/2015	0.012	0.007	0.020	18:00	0	95.8
28/03/2015	0.011	0.007	0.016	10:00	0	95.8
29/03/2015	0.010	0.006	0.014	22:00	0	95.8
30/03/2015	0.016	0.010	0.024	21:00	0	95.8
31/03/2015	0.017	0.011	0.024	9:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 20 Station 4 Nitrogen Dioxide Monthly Summary

## Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary March 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/03/2015	0.3	0.2	0.3	03:00	0.3	04:00	0	94.4
2/03/2015	0.3	0.1	0.4	14:00	0.3	14:00	0	89.2
3/03/2015	0.3	0.2	0.4	8:00	0.3	10:00	0	95.5
4/03/2015	0.3	0.3	0.5	7:00	0.4	8:00	0	95.5
5/03/2015	0.4	0.3	0.5	19:00	0.4	22:00	0	95.5
6/03/2015	0.2	0.1	0.5	20:00	0.4	1:00	0	95.1
7/03/2015	0.3	0.3	0.4	10:00	0.3	11:00	0	95.5
8/03/2015	0.3	0.3	0.4	6:00	0.4	7:00	0	95.5
9/03/2015	0.4	0.3	0.5	7:00	-	-	0	81.9
10/03/2015	0.4	0.3	0.6	7:00	0.4	8:00	0	95.5
11/03/2015	0.3	0.2	0.5	7:00	-	-	0	81.6
12/03/2015	0.3	0.2	0.5	18:00	0.4	21:00	0	91.7
13/03/2015	0.3	0.2	0.5	16:00	0.4	18:00	0	94.4
14/03/2015	0.2	0.2	0.3	19:00	0.3	0:00	0	95.5
15/03/2015	0.2	0.1	0.3	19:00	0.3	0:00	0	95.1
16/03/2015	0.2	0.1	0.4	16:00	0.3	19:00	0	95.1
17/03/2015	0.2	0.1	0.3	8:00	0.2	0:00	0	95.1
18/03/2015	0.2	0.1	0.2	10:00	0.2	22:00	0	95.1
19/03/2015	0.3	0.2	0.4	7:00	0.3	23:00	0	95.5
20/03/2015	0.3	0.2	0.4	7:00	0.4	14:00	0	95.1
21/03/2015	0.3	0.2	0.4	18:00	0.4	22:00	0	95.5
22/03/2015	0.3	0.2	0.4	13:00	0.4	15:00	0	95.5
23/03/2015	0.2	0.1	0.4	22:00	0.3	23:00	0	95.1
24/03/2015	0.2	0.2	0.4	7:00	0.3	1:00	0	95.1
25/03/2015	0.3	0.2	0.5	7:00	0.3	8:00	0	95.1
26/03/2015	0.3	0.2	0.4	22:00	0.3	0:00	0	95.1
27/03/2015	0.3	0.2	0.4	6:00	0.4	22:00	0	95.1
28/03/2015	0.2	0.2	0.4	10:00	0.4	0:00	0	95.1
29/03/2015	0.2	0.1	0.3	8:00	0.2	8:00	0	95.1
30/03/2015	0.2	0.1	0.4	8:00	0.3	10:00	0	95.1
31/03/2015	0.3	0.2	0.5	10:00	0.4	12:00	0	95.1

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM<sub>2.5</sub> Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM <sub>2.5</sub> Summary March 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
1/03/2015	4.6	0.1	9.6	09:00	0	100.0
2/03/2015	6.2	3.0	8.9	7:00	0	87.5
3/03/2015	8.1	4.3	11.8	20:00	0	100.0
4/03/2015	9.3	5.1	16.6	11:00	0	100.0
5/03/2015	7.5	4.0	16.9	22:00	0	100.0
6/03/2015	16.2	12.6	22.0	7:00	0	100.0
7/03/2015	13.0	8.0	23.5	11:00	0	100.0
8/03/2015	10.4	6.1	16.7	8:00	0	100.0
9/03/2015	9.8	6.2	18.5	12:00	0	83.3
10/03/2015	9.3	6.0	16.5	8:00	0	91.7
11/03/2015	9.1	5.1	12.9	14:00	0	83.3
12/03/2015	8.2	5.1	12.0	5:00	0	100.0
13/03/2015	7.4	5.1	12.1	23:00	0	100.0
14/03/2015	9.2	5.0	13.0	9:00	0	100.0
15/03/2015	8.3	5.2	12.0	23:00	0	100.0
16/03/2015	10.2	5.0	15.8	15:00	0	100.0
17/03/2015	8.1	5.0	10.8	9:00	0	100.0
18/03/2015	7.3	3.1	11.9	16:00	0	100.0
19/03/2015	9.2	6.0	12.8	19:00	0	100.0
20/03/2015	13.5	6.0	35.3	14:00	0	100.0
21/03/2015	6.7	2.0	8.9	18:00	0	100.0
22/03/2015	7.1	1.3	11.8	9:00	0	100.0
23/03/2015	6.5	3.2	10.8	20:00	0	100.0
24/03/2015	5.4	2.0	9.0	14:00	0	100.0
25/03/2015	5.7	2.1	10.0	14:00	0	100.0
26/03/2015	6.3	4.1	9.0	0:00	0	100.0
27/03/2015	9.6	5.0	15.9	16:00	0	100.0
28/03/2015	10.2	5.1	15.6	8:00	0	100.0
29/03/2015	11.3	6.1	23.3	12:00	0	100.0
30/03/2015	14.2	10.2	26.5	12:00	0	100.0
31/03/2015	13.7	7.1	19.9	10:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 22 Station 4 PM<sub>2.5</sub> Monthly Summary

**PM<sub>10</sub> Summary**

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM <sub>10</sub> Summary March 2015						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ( $\mu\text{g}/\text{m}^3$ )	Max ( $\mu\text{g}/\text{m}^3$ )	Time of Max		
1/03/2015	-	-	-	-	0	0.0
2/03/2015	-	-	-	-	0	41.7
3/03/2015	16.6	5.1	27.9	17:00	0	95.8
4/03/2015	17.8	9.3	29.4	8:00	0	100.0
5/03/2015	17.7	9.7	32.1	23:00	0	100.0
6/03/2015	47.2	34.0	60.2	15:00	0	100.0
7/03/2015	33.4	19.2	55.5	11:00	0	100.0
8/03/2015	22.4	16.3	33.5	8:00	0	100.0
9/03/2015	20.2	8.1	32.7	12:00	0	83.3
10/03/2015	18.8	11.0	28.9	8:00	0	95.8
11/03/2015	19.8	10.9	27.5	16:00	0	83.3
12/03/2015	12.9	6.3	20.3	9:00	0	100.0
13/03/2015	14.2	7.3	22.5	12:00	0	100.0
14/03/2015	19.7	14.0	41.7	19:00	0	100.0
15/03/2015	16.7	10.0	24.8	18:00	0	100.0
16/03/2015	19.9	9.1	32.8	18:00	0	100.0
17/03/2015	21.2	11.5	33.0	9:00	0	100.0
18/03/2015	16.3	7.4	24.5	7:00	0	100.0
19/03/2015	19.2	10.2	27.7	22:00	0	100.0
20/03/2015	26.7	11.7	55.5	14:00	0	100.0
21/03/2015	13.2	8.2	18.9	1:00	0	100.0
22/03/2015	8.4	1.0	15.8	15:00	0	100.0
23/03/2015	9.7	4.2	13.0	20:00	0	100.0
24/03/2015	10.0	4.0	13.7	1:00	0	100.0
25/03/2015	13.5	6.9	37.4	19:00	0	100.0
26/03/2015	10.3	5.0	16.8	10:00	0	100.0
27/03/2015	21.0	7.3	37.8	14:00	0	100.0
28/03/2015	24.7	14.4	34.8	0:00	0	100.0
29/03/2015	17.1	11.9	25.5	11:00	0	100.0
30/03/2015	15.6	9.2	29.6	9:00	0	100.0
31/03/2015	13.4	7.1	28.5	10:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 23 Station 4 PM<sub>10</sub> Monthly Summary

## Station 5 (Bryden Street)

### Summary

Station 5 Bryden St Ambient AQMS Summary March 2015				
	NO <sub>2</sub> (ppm)	CO (ppm)	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
Monthly Average	0.007	0.1	6.5	23.6
Min 1hr Average	0.001	0.0	-5.5	2.9
Max 1hr Average	0.024	0.3	32.2	88.2
Max 8hr Rolling Average	-	0.3	-	-
Max 24hr Average	-	-	13.3	48.7
Capture Rate (%)	95.2	65.3	97.2	99.3

Table 24 Station 5 Monthly Summary

*Nitrogen Dioxide Summary*

Station 5 Bryden St Ambient AQMS Nitrogen Dioxide Summary March 2015						
Date	24hr Avg (phm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/03/2015	0.003	0.001	0.008	2:00	0	95.8
2/03/2015	0.006	0.003	0.010	7:00	0	95.8
3/03/2015	0.007	0.003	0.014	5:00	0	91.7
4/03/2015	0.007	0.003	0.018	7:00	0	95.8
5/03/2015	0.006	0.003	0.014	8:00	0	95.8
6/03/2015	0.006	0.002	0.010	6:00	0	95.8
7/03/2015	0.007	0.002	0.015	4:00	0	95.8
8/03/2015	0.005	0.002	0.013	4:00	0	95.8
9/03/2015	0.007	0.004	0.014	6:00	0	95.8
10/03/2015	0.006	0.003	0.009	16:00	0	83.3
11/03/2015	0.007	0.003	0.016	5:00	0	95.8
12/03/2015	0.008	0.003	0.016	6:00	0	91.7
13/03/2015	0.008	0.004	0.014	7:00	0	95.8
14/03/2015	0.006	0.003	0.011	23:00	0	95.8
15/03/2015	0.005	0.002	0.011	2:00	0	95.8
16/03/2015	0.007	0.002	0.016	6:00	0	95.8
17/03/2015	0.009	0.002	0.020	6:00	0	95.8
18/03/2015	0.008	0.003	0.018	6:00	0	95.8
19/03/2015	0.007	0.003	0.013	6:00	0	95.8
20/03/2015	0.007	0.002	0.013	8:00	0	95.8
21/03/2015	0.008	0.002	0.022	17:00	0	95.8
22/03/2015	0.008	0.003	0.012	23:00	0	95.8
23/03/2015	0.008	0.003	0.016	21:00	0	95.8
24/03/2015	0.007	0.003	0.013	6:00	0	95.8
25/03/2015	0.005	0.003	0.010	7:00	0	95.8
26/03/2015	0.007	0.003	0.013	23:00	0	95.8
27/03/2015	0.009	0.004	0.013	2:00	0	95.8
28/03/2015	0.006	0.002	0.012	7:00	0	95.8
29/03/2015	0.008	0.002	0.018	22:00	0	95.8
30/03/2015	0.012	0.003	0.022	9:00	0	95.8
31/03/2015	0.013	0.004	0.024	9:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 25 Station 5 Nitrogen Dioxide Monthly Summary

### Carbon Monoxide Summary

Station 5 Bryden St Ambient AQMS Carbon Monoxide Summary March 2015								
Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/03/2015	-	-	-	-	-	-	0	0.0
2/03/2015	-	-	-	-	-	-	0	0.0
3/03/2015	-	-	-	-	-	-	0	0.0
4/03/2015	-	-	-	-	-	-	0	0.0
5/03/2015	-	-	-	-	-	-	0	0.0
6/03/2015	-	-	-	-	-	-	0	0.0
7/03/2015	-	-	-	-	-	-	0	0.0
8/03/2015	-	-	-	-	-	-	0	0.0
9/03/2015	-	-	-	-	-	-	0	0.0
10/03/2015	-	-	-	-	-	-	0	16.7
11/03/2015	0.2	0.1	0.3	7:00	0.2	8:00	0	95.8
12/03/2015	0.2	0.0	0.3	6:00	0.3	23:00	0	91.7
13/03/2015	0.1	0.1	0.2	7:00	0.2	0:00	0	95.8
14/03/2015	0.1	0.1	0.1	23:00	0.1	0:00	0	95.8
15/03/2015	0.1	0.0	0.2	17:00	0.1	23:00	0	95.8
16/03/2015	0.1	0.1	0.2	8:00	0.1	0:00	0	95.8
17/03/2015	0.1	0.0	0.2	7:00	0.1	10:00	0	95.8
18/03/2015	0.1	0.0	0.2	6:00	0.1	1:00	0	95.8
19/03/2015	0.1	0.0	0.2	6:00	0.1	0:00	0	95.8
20/03/2015	0.1	0.0	0.2	13:00	0.1	13:00	0	95.8
21/03/2015	0.1	0.0	0.3	17:00	0.3	23:00	0	95.8
22/03/2015	0.1	0.1	0.2	9:00	0.2	0:00	0	95.8
23/03/2015	0.1	0.0	0.3	22:00	0.1	1:00	0	95.8
24/03/2015	0.1	0.0	0.2	6:00	0.1	5:00	0	95.8
25/03/2015	0.1	0.0	0.2	7:00	0.1	9:00	0	95.8
26/03/2015	0.1	0.0	0.2	23:00	0.1	8:00	0	95.8
27/03/2015	0.1	0.1	0.3	6:00	0.2	8:00	0	95.8
28/03/2015	0.0	0.0	0.1	7:00	0.1	8:00	0	95.8
29/03/2015	0.0	-0.1	0.2	7:00	0.1	8:00	0	95.8
30/03/2015	0.1	0.0	0.3	7:00	0.2	10:00	0	95.8
31/03/2015	0.1	0.0	0.3	9:00	0.2	12:00	0	95.8

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM<sub>2.5</sub> Summary

Station 5 Bryden St Ambient AQMS Particulate PM <sub>2.5</sub> Summary March 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	Min (µg/m <sup>3</sup> )	1 hr Avgs		No. of exceedences 24hr Avg > 25.0 µg/m <sup>3</sup>	Capture Rate
			Max (µg/m <sup>3</sup> )	Time of Max		
1/03/2015	-3.5	-5.5	-1.5	18:00	0	91.7
2/03/2015	-2.3	-4.6	1.8	15:00	0	100.0
3/03/2015	0.1	-4.0	7.6	13:00	0	87.5
4/03/2015	3.8	-5.0	9.5	13:00	0	87.5
5/03/2015	6.3	3.2	10.2	23:00	0	100.0
6/03/2015	13.1	8.8	18.2	7:00	0	100.0
7/03/2015	13.3	8.8	18.7	11:00	0	100.0
8/03/2015	9.0	4.0	13.2	10:00	0	100.0
9/03/2015	6.5	3.0	10.6	15:00	0	100.0
10/03/2015	6.8	0.8	17.0	18:00	0	95.8
11/03/2015	6.4	2.3	12.5	8:00	0	100.0
12/03/2015	5.8	2.3	15.4	13:00	0	100.0
13/03/2015	6.2	2.2	11.6	8:00	0	100.0
14/03/2015	8.8	5.4	14.2	18:00	0	100.0
15/03/2015	7.3	3.7	11.9	4:00	0	91.7
16/03/2015	7.7	5.7	11.5	5:00	0	91.7
17/03/2015	8.0	4.9	14.6	7:00	0	100.0
18/03/2015	8.9	4.2	12.7	17:00	0	100.0
19/03/2015	7.6	4.2	10.6	8:00	0	100.0
20/03/2015	11.3	2.4	32.2	14:00	0	100.0
21/03/2015	5.2	2.4	9.5	9:00	0	95.8
22/03/2015	5.9	1.0	9.0	15:00	0	100.0
23/03/2015	4.4	0.2	6.3	14:00	0	100.0
24/03/2015	5.3	2.7	8.5	7:00	0	95.8
25/03/2015	5.4	2.3	8.0	13:00	0	91.7
26/03/2015	4.2	2.2	7.7	4:00	0	95.7
27/03/2015	8.1	3.3	14.3	14:00	0	95.8
28/03/2015	8.7	6.0	13.6	7:00	0	100.0
29/03/2015	7.1	5.0	11.2	14:00	0	100.0
30/03/2015	7.9	4.1	16.8	7:00	0	95.8
31/03/2015	6.6	1.8	13.2	12:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 27 Station 5 PM<sub>2.5</sub> Monthly Summary



PM<sub>10</sub> Summary

Station 5 Bryden St Ambient AQMS Particulate PM10 Summary March 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m <sup>3</sup>	Capture Rate
		Min (µg/m <sup>3</sup> )	Max (µg/m <sup>3</sup> )	Time of Max		
1/03/2015	16.6	9.3	24.5	07:00	0	95.8
2/03/2015	16.5	8.7	24.3	15:00	0	100.0
3/03/2015	22.7	8.5	62.6	13:00	0	95.8
4/03/2015	20.6	8.0	38.3	11:00	0	95.8
5/03/2015	23.9	4.8	88.2	15:00	0	100.0
6/03/2015	48.7	37.3	60.0	15:00	0	100.0
7/03/2015	34.4	15.0	54.6	10:00	0	100.0
8/03/2015	22.3	16.9	30.7	9:00	0	100.0
9/03/2015	21.4	10.9	37.0	10:00	0	95.8
10/03/2015	17.4	7.2	25.1	18:00	0	100.0
11/03/2015	17.8	11.2	30.9	13:00	0	100.0
12/03/2015	13.5	5.2	21.7	2:00	0	100.0
13/03/2015	13.7	2.9	26.3	22:00	0	100.0
14/03/2015	25.3	16.2	37.5	18:00	0	100.0
15/03/2015	18.5	5.2	35.7	21:00	0	100.0
16/03/2015	27.0	13.2	44.9	17:00	0	100.0
17/03/2015	32.8	18.5	47.5	8:00	0	100.0
18/03/2015	24.3	14.2	40.7	17:00	0	100.0
19/03/2015	30.7	11.7	47.5	15:00	0	100.0
20/03/2015	38.3	14.1	77.6	14:00	0	100.0
21/03/2015	21.3	7.2	33.5	11:00	0	100.0
22/03/2015	14.1	8.5	19.5	10:00	0	100.0
23/03/2015	15.1	10.0	22.4	8:00	0	100.0
24/03/2015	22.2	11.5	56.7	9:00	0	95.8
25/03/2015	22.6	8.4	39.6	14:00	0	100.0
26/03/2015	19.6	10.6	29.2	16:00	0	100.0
27/03/2015	30.3	15.2	47.5	22:00	0	100.0
28/03/2015	31.6	19.4	41.3	3:00	0	100.0
29/03/2015	24.1	17.0	29.6	8:00	0	100.0
30/03/2015	24.1	14.8	37.5	9:00	0	100.0
31/03/2015	19.2	9.0	34.2	10:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.

There will be no daily results if there is less than 75% valid data for that day

Table 28 Station 5 PM<sub>10</sub> Monthly Summary

## Graphical Representations

### Nitrogen Dioxide

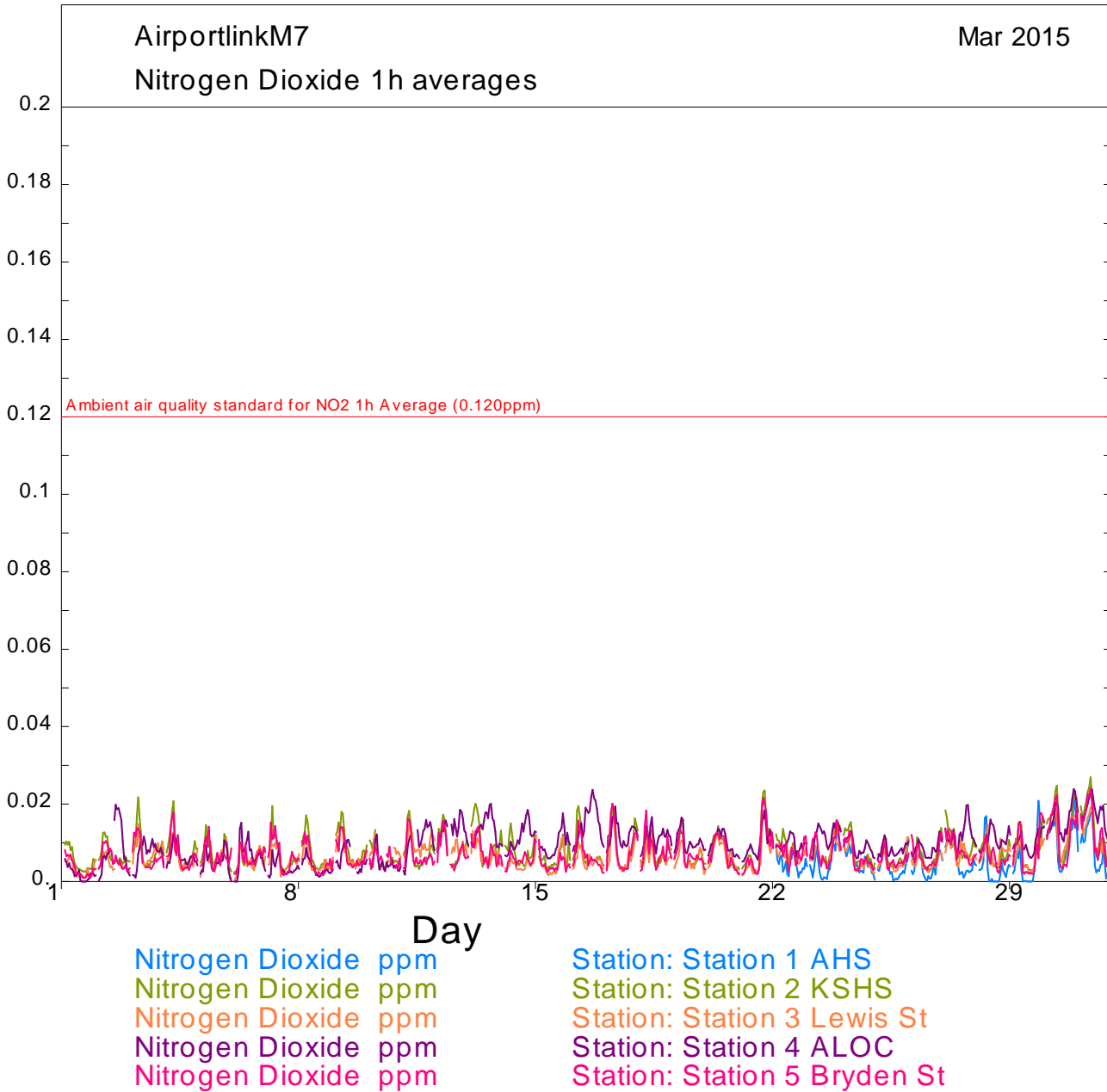


Figure 1 Nitrogen Dioxide 1hr averages

Carbon Monoxide 8hr Rolling Averages

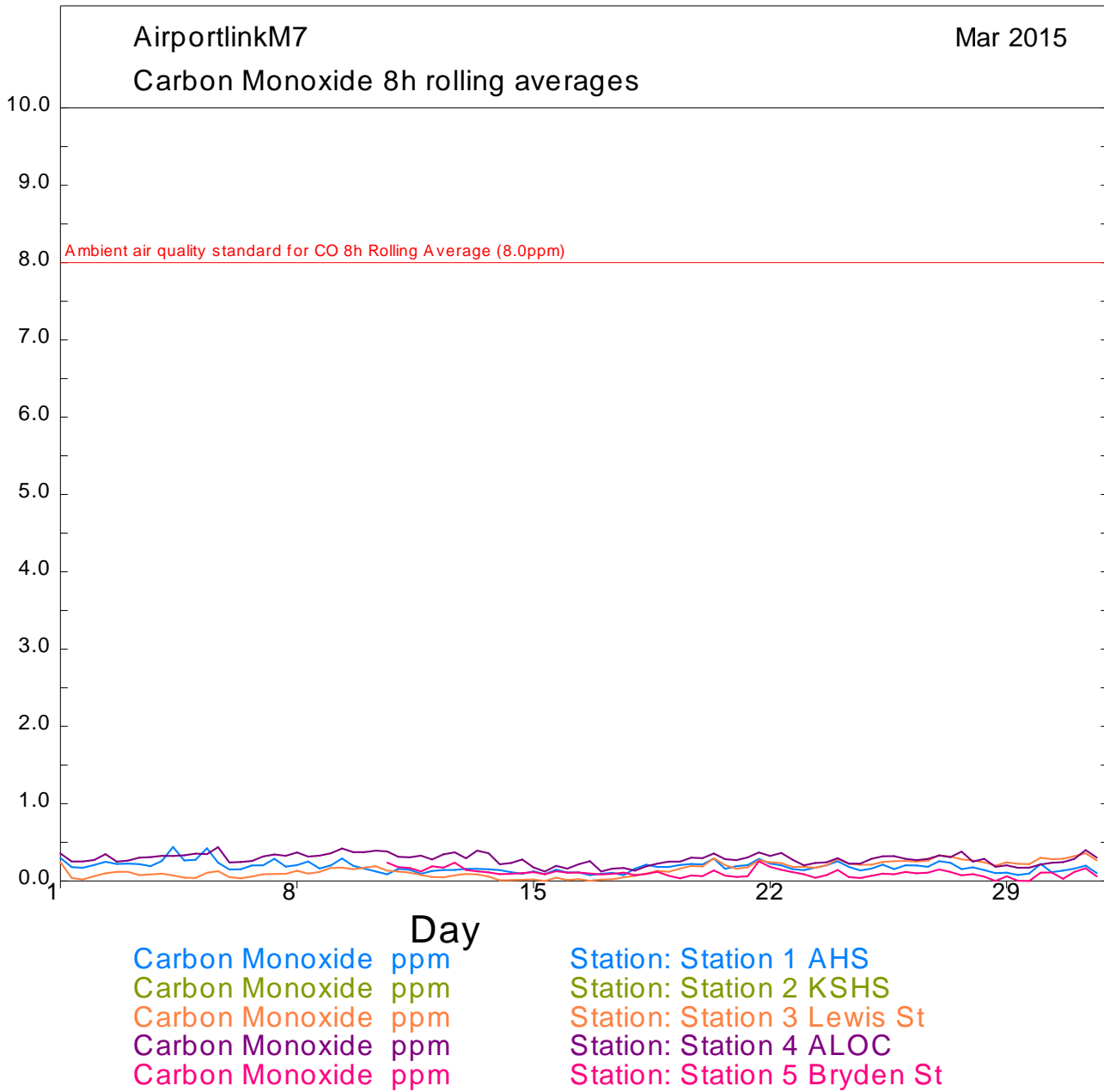


Figure 2 Carbon Monoxide 8hr rolling averages

PM<sub>10</sub> 24hr Averages

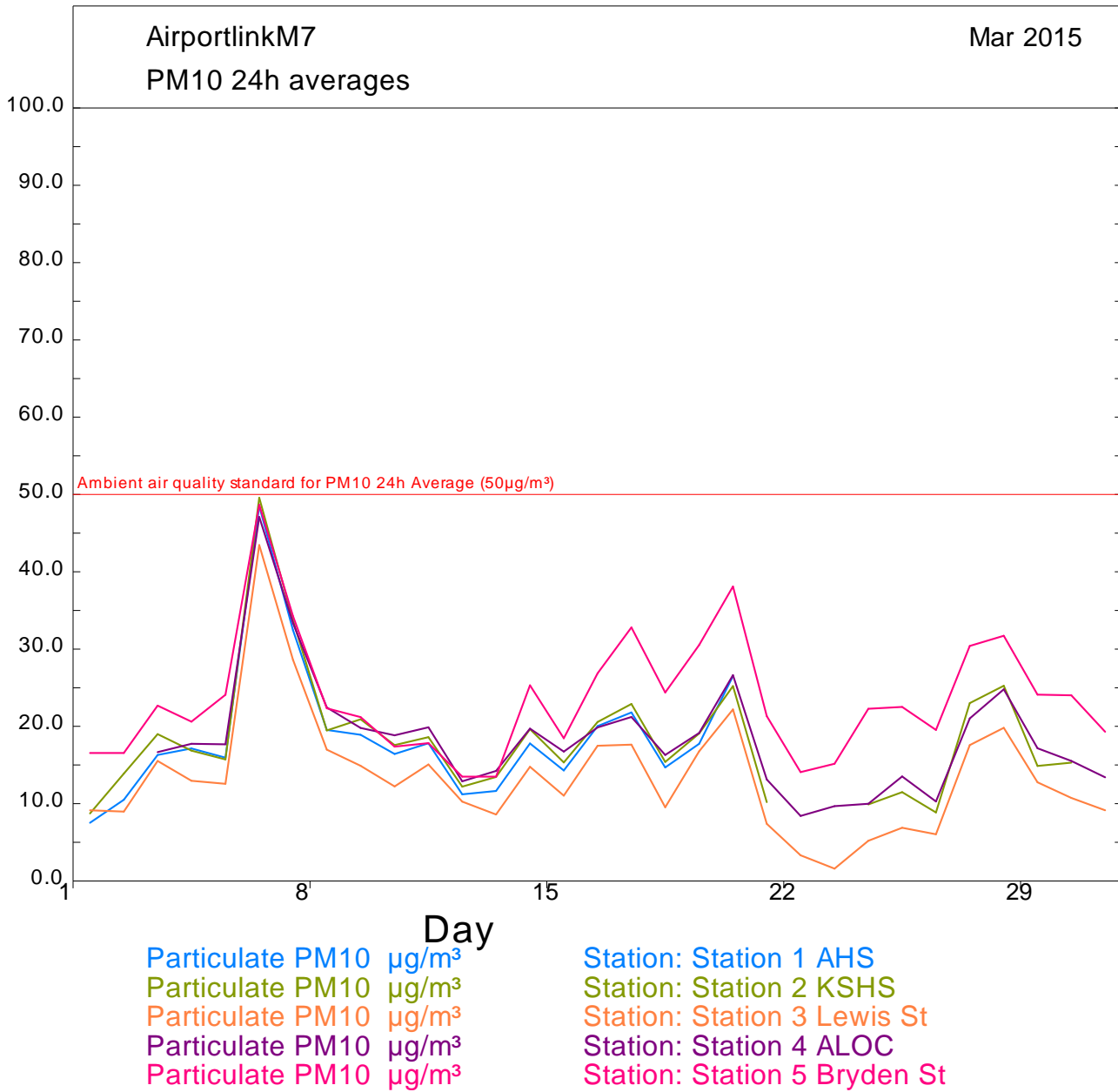


Figure 3 PM<sub>10</sub> 24hr Averages

PM<sub>2.5</sub> 24hr Averages

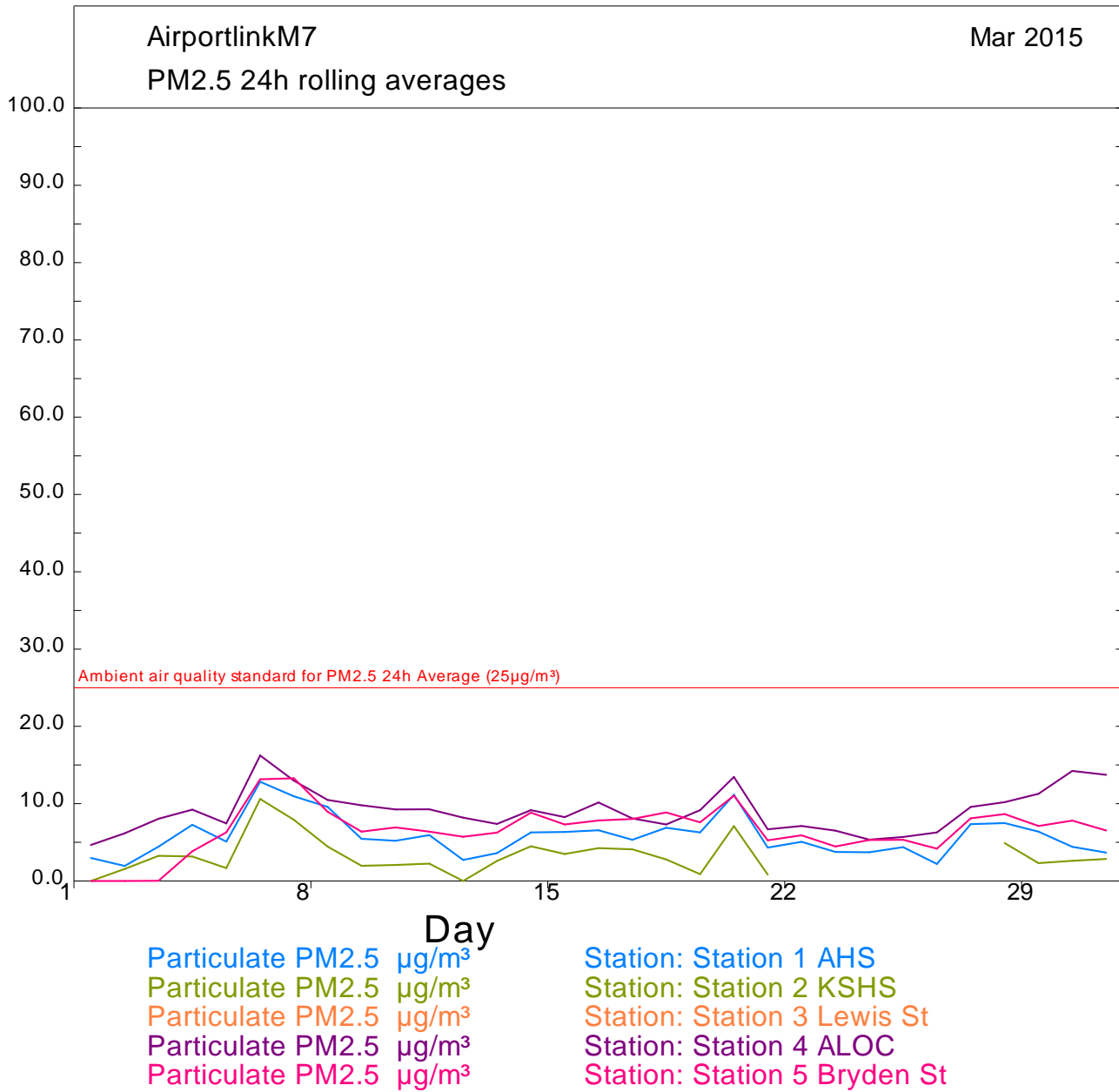


Figure 4 PM<sub>2.5</sub> 24hr Averages

## TSP High Volume Air Sampler Results

Total Suspended Particulate High Volume Air Sampler results are presented in Table 29 below. The HVAS are run on a one in six day cycle.

The Coordinator Generals criterion of 90  $\mu\text{g}/\text{m}^3$  was not exceeded during the reporting period at any of the five sites.

TSP Results March 2015					
Sample Date	Station 1 AHS ( $\mu\text{g}/\text{m}^3$ )	Station 2 KSHS ( $\mu\text{g}/\text{m}^3$ )	Station 3 LS ( $\mu\text{g}/\text{m}^3$ )	Station 4 ALOC ( $\mu\text{g}/\text{m}^3$ )	Station 5 BS ( $\mu\text{g}/\text{m}^3$ )
7/03/2015	-	47	45	43	48
13/03/2015	23	23	20	27	25
19/03/2015	37	32	35	32	32
25/03/2015	21	19	18	20	20
31/03/2015	20	19	18	23	17
Monthly Average	25.3	28.0	27.2	29.0	28.4

Table 29 TSP High Volume Air Sampler Results