



# Leighton Contractors Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

April 2015

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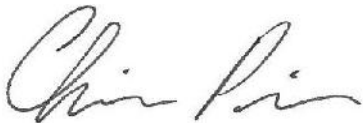
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## Glossary

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 April 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Exceedences April 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 Spreadsheets.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	29/4/15	28/4/15	28/4/15	29/4/15	29/4/15
CO	ppm	2.56%	AS 3580.7.1	29/4/15	28/4/15	28/4/15	29/4/15	29/4/15
PM <sub>10</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11	*	*	*	*	*
PM <sub>2.5</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11 / EQPM 0308-170	*	*	*	*	*
TSP	µg/m <sup>3</sup>	7.34%	AS 3580.9.3	29/4/15	28/4/15	28/4/15	29/4/15	29/4/15

Table 3 Instrumentation Details

\* BAM inspected, overhaul due May 2015.

## 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 April 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	1.8	-
Min 1hr Average	-0.001	0.0	-9.9	-
Max 1hr Average	0.038	0.7	15.2	-
Max 8hr Rolling Average	-	0.5	-	-
Max 24hr Average	-	-	6.0	-
Capture Rate (%)	95.3	95.1	94.4	0.0

Table 4 Station 1 Monthly Summary

### Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary April 2015						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/04/2015	0.007	0.000	0.018	9:00	0	95.8
2/04/2015	0.005	0.002	0.013	0:00	0	95.8
3/04/2015	0.001	-0.001	0.005	0:00	0	95.8
4/04/2015	0.002	-0.001	0.005	18:00	0	95.8
5/04/2015	0.001	-0.001	0.004	19:00	0	95.8
6/04/2015	0.004	0.000	0.009	2:00	0	95.8
7/04/2015	0.007	0.001	0.016	20:00	0	95.8
8/04/2015	0.005	0.000	0.021	18:00	0	95.8
9/04/2015	0.007	0.000	0.020	7:00	0	95.8
10/04/2015	0.006	0.001	0.014	19:00	0	91.7
11/04/2015	0.002	-0.001	0.006	22:00	0	95.8
12/04/2015	0.006	0.000	0.018	20:00	0	95.8
13/04/2015	0.005	0.000	0.011	0:00	0	95.8
14/04/2015	0.009	0.000	0.021	20:00	0	95.8
15/04/2015	0.012	0.001	0.024	19:00	0	95.8
16/04/2015	0.011	0.001	0.021	20:00	0	95.8
17/04/2015	0.009	0.000	0.018	20:00	0	91.7
18/04/2015	0.004	-0.001	0.012	7:00	0	95.8
19/04/2015	0.004	0.000	0.010	22:00	0	95.8
20/04/2015	0.007	0.000	0.015	8:00	0	95.8
21/04/2015	0.004	0.000	0.010	17:00	0	95.8
22/04/2015	0.008	0.000	0.025	18:00	0	95.8
23/04/2015	0.016	0.003	0.038	19:00	0	95.8
24/04/2015	0.015	0.002	0.029	19:00	0	95.8
25/04/2015	0.009	0.001	0.020	18:00	0	95.8
26/04/2015	0.001	-0.001	0.004	0:00	0	95.8
27/04/2015	0.014	0.000	0.032	18:00	0	95.8
28/04/2015	0.008	0.001	0.019	0:00	0	95.8
29/04/2015	0.004	0.001	0.012	6:00	0	87.5
30/04/2015	0.012	-0.001	0.022	8:00	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 April 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		
1/04/2015	0.2	0.1	0.3	09:00	0.2	13:00	0	95.5
2/04/2015	0.1	0.1	0.2	8:00	0.1	8:00	0	95.5
3/04/2015	0.1	0.0	0.2	22:00	0.1	1:00	0	95.5
4/04/2015	0.2	0.1	0.2	8:00	0.2	10:00	0	95.5
5/04/2015	0.1	0.1	0.2	8:00	0.2	2:00	0	95.5
6/04/2015	0.1	0.1	0.3	6:00	0.2	8:00	0	95.1
7/04/2015	0.2	0.0	0.3	6:00	0.2	20:00	0	95.5
8/04/2015	0.1	0.0	0.3	18:00	0.1	22:00	0	95.5
9/04/2015	0.1	0.0	0.3	6:00	0.1	0:00	0	95.5
10/04/2015	0.1	0.0	0.2	08:00	0.1	8:00	0	89.9
11/04/2015	0.1	0.1	0.1	22:00	0.1	23:00	0	95.5
12/04/2015	0.1	0.1	0.4	22:00	0.2	23:00	0	95.5
13/04/2015	0.1	0.1	0.3	0:00	0.3	3:00	0	95.5
14/04/2015	0.2	0.0	0.5	22:00	0.3	23:00	0	95.5
15/04/2015	0.3	0.1	0.6	21:00	0.4	23:00	0	95.5
16/04/2015	0.3	0.0	0.7	22:00	0.5	2:00	0	95.5
17/04/2015	0.2	0.0	0.5	0:00	0.5	2:00	0	92.4
18/04/2015	0.1	0.0	0.3	7:00	0.2	8:00	0	95.5
19/04/2015	0.1	0.0	0.3	22:00	0.2	23:00	0	95.5
20/04/2015	0.2	0.0	0.3	8:00	0.2	20:00	0	95.5
21/04/2015	0.0	0.0	0.1	17:00	0.1	0:00	0	95.5
22/04/2015	0.1	0.0	0.4	18:00	0.2	23:00	0	94.1
23/04/2015	0.2	0.1	0.7	6:00	0.3	23:00	0	95.5
24/04/2015	0.3	0.1	0.4	7:00	0.3	1:00	0	95.5
25/04/2015	0.2	0.1	0.4	4:00	0.4	6:00	0	95.5
26/04/2015	0.1	0.1	0.1	0:00	0.2	1:00	0	95.5
27/04/2015	0.2	0.1	0.5	20:00	0.3	23:00	0	95.5
28/04/2015	0.1	0.1	0.3	0:00	0.4	1:00	0	95.5
29/04/2015	0.1	0.1	0.2	6:00	-	-	0	85.1
30/04/2015	0.2	0.1	0.4	8:00	0.3	15:00	0	95.5

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 April 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		
1/04/2015	5.4	0.0	10.0	20:00	0	100.0
2/04/2015	4.2	-0.8	7.8	12:00	0	100.0
3/04/2015	3.8	-1.8	8.9	17:00	0	100.0
4/04/2015	3.5	-0.8	8.8	17:00	0	100.0
5/04/2015	3.2	-2.0	5.9	21:00	0	100.0
6/04/2015	3.6	1.0	7.6	17:00	0	100.0
7/04/2015	5.3	1.2	10.8	22:00	0	95.8
8/04/2015	-	-	-	-	0	54.2
9/04/2015	-	-	-	-	0	60.9
10/04/2015	-	-	-	-	0	39.1
11/04/2015	-3.2	-9.9	3.8	19:00	0	100.0
12/04/2015	-4.5	-9.8	3.9	23:00	0	95.8
13/04/2015	-0.3	-8.8	6.0	19:00	0	100.0
14/04/2015	1.7	-2.9	7.8	6:00	0	100.0
15/04/2015	1.8	-1.7	5.0	19:00	0	100.0
16/04/2015	2.5	-2.9	6.9	7:00	0	100.0
17/04/2015	-0.8	-7.0	5.8	1:00	0	100.0
18/04/2015	-3.1	-7.7	0.8	17:00	0	100.0
19/04/2015	-2.3	-6.8	1.9	6:00	0	100.0
20/04/2015	-2.1	-9.0	4.5	21:00	0	100.0
21/04/2015	1.0	-4.8	4.8	23:00	0	100.0
22/04/2015	-0.2	-6.9	4.8	18:00	0	100.0
23/04/2015	2.6	-5.8	8.8	21:00	0	100.0
24/04/2015	4.8	-7.6	15.2	7:00	0	100.0
25/04/2015	6.0	-3.8	13.0	7:00	0	100.0
26/04/2015	2.5	-2.8	9.8	1:00	0	100.0
27/04/2015	2.8	-4.8	7.8	19:00	0	100.0
28/04/2015	5.1	1.1	10.6	8:00	0	100.0
29/04/2015	2.3	-1.8	4.8	9:00	0	91.7
30/04/2015	1.5	-3.5	5.9	19:00	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 April 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avs			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		
1/04/2015	-	-	-	-	0	0.0
2/04/2015	-	-	-	-	0	0.0
3/04/2015	-	-	-	-	0	0.0
4/04/2015	-	-	-	-	0	0.0
5/04/2015	-	-	-	-	0	0.0
6/04/2015	-	-	-	-	0	0.0
7/04/2015	-	-	-	-	0	0.0
8/04/2015	-	-	-	-	0	0.0
9/04/2015	-	-	-	-	0	0.0
10/04/2015	-	-	-	-	0	0.0
11/04/2015	-	-	-	-	0	0.0
12/04/2015	-	-	-	-	0	0.0
13/04/2015	-	-	-	-	0	0.0
14/04/2015	-	-	-	-	0	0.0
15/04/2015	-	-	-	-	0	0.0
16/04/2015	-	-	-	-	0	0.0
17/04/2015	-	-	-	-	0	0.0
18/04/2015	-	-	-	-	0	0.0
19/04/2015	-	-	-	-	0	0.0
20/04/2015	-	-	-	-	0	0.0
21/04/2015	-	-	-	-	0	0.0
22/04/2015	-	-	-	-	0	0.0
23/04/2015	-	-	-	-	0	0.0
24/04/2015	-	-	-	-	0	0.0
25/04/2015	-	-	-	-	0	0.0
26/04/2015	-	-	-	-	0	0.0
27/04/2015	-	-	-	-	0	0.0
28/04/2015	-	-	-	-	0	0.0
29/04/2015	-	-	-	-	0	0.0
30/04/2015	-	-	-	-	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 April 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	0.7	12.4
Min 1hr Average	-0.003	0.0	-9.9	-2.0
Max 1hr Average	0.032	1.2	16.5	433.4
Max 8hr Rolling Average	-	0.7	-	-
Max 24hr Average	-	-	6.2	33.5
Capture Rate (%)	90.7	65.7	86.8	68.6

Table 9 Station 2 Monthly Summary

*Nitrogen Dioxide Summary*

Station 2 Kedron State High School Ambient AQMS Nitrogen Dioxide Summary April 2015						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/04/2015	0.012	0.003	0.024	8:00	0	95.8
2/04/2015	0.011	0.005	0.019	6:00	0	95.8
3/04/2015	0.006	0.003	0.011	7:00	0	95.8
4/04/2015	0.006	0.003	0.011	7:00	0	95.8
5/04/2015	0.006	0.003	0.010	18:00	0	95.8
6/04/2015	0.006	0.003	0.009	7:00	0	95.8
7/04/2015	0.008	0.003	0.018	20:00	0	95.8
8/04/2015	0.007	0.003	0.023	18:00	0	95.8
9/04/2015	0.009	0.003	0.021	6:00	0	83.3
10/04/2015	0.012	0.005	0.019	0:00	0	95.8
11/04/2015	0.009	0.003	0.017	23:00	0	95.8
12/04/2015	0.009	0.004	0.019	21:00	0	95.8
13/04/2015	0.010	0.005	0.018	23:00	0	95.8
14/04/2015	0.013	0.005	0.024	20:00	0	95.8
15/04/2015	0.016	0.006	0.023	20:00	0	95.8
16/04/2015	0.017	0.008	0.021	19:00	0	79.2
17/04/2015	0.013	0.003	0.021	20:00	0	95.8
18/04/2015	0.007	0.002	0.016	2:00	0	95.8
19/04/2015	0.007	0.003	0.015	21:00	0	95.8
20/04/2015	0.011	0.004	0.021	7:00	0	95.8
21/04/2015	0.006	0.003	0.011	17:00	0	95.8
22/04/2015	0.009	0.003	0.024	18:00	0	95.8
23/04/2015	0.014	0.005	0.032	21:00	0	95.8
24/04/2015	0.014	0.005	0.023	4:00	0	95.8
25/04/2015	0.010	0.003	0.018	0:00	0	95.8
26/04/2015	0.004	0.003	0.011	0:00	0	95.8
27/04/2015	-	-	-	-	0	62.5
28/04/2015	-	-	-	-	0	26.1
29/04/2015	0.007	0.000	0.016	6:00	0	75.0
30/04/2015	0.008	-0.003	0.015	17:00	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 April 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		
1/04/2015	-	-	-	-	-	-	0	0.0
2/04/2015	-	-	-	-	-	-	0	0.0
3/04/2015	-	-	-	-	-	-	0	0.0
4/04/2015	-	-	-	-	-	-	0	0.0
5/04/2015	-	-	-	-	-	-	0	0.0
6/04/2015	-	-	-	-	-	-	0	0.0
7/04/2015	-	-	-	-	-	-	0	0.0
8/04/2015	-	-	-	-	-	-	0	0.0
9/04/2015	-	-	-	-	-	-	0	15.3
10/04/2015	0.1	0.1	0.2	20:00	0.3	3:00	0	95.5
11/04/2015	0.1	0.1	0.2	23:00	0.2	1:00	0	95.5
12/04/2015	0.2	0.1	0.3	23:00	0.2	23:00	0	95.5
13/04/2015	0.1	0.0	0.2	0:00	0.3	1:00	0	95.5
14/04/2015	0.2	0.1	0.5	22:00	0.3	23:00	0	95.5
15/04/2015	0.2	0.1	0.5	21:00	0.3	1:00	0	95.5
16/04/2015	0.3	0.1	0.7	22:00	-	-	0	80.9
17/04/2015	0.4	0.3	0.6	22:00	0.5	3:00	0	95.5
18/04/2015	0.3	0.2	0.4	8:00	0.4	1:00	0	95.5
19/04/2015	0.4	0.3	0.5	21:00	0.4	23:00	0	95.5
20/04/2015	0.4	0.1	1.2	12:00	0.7	17:00	0	95.5
21/04/2015	0.2	0.2	0.2	16:00	0.2	0:00	0	95.5
22/04/2015	0.3	0.2	0.5	19:00	0.4	23:00	0	95.5
23/04/2015	0.3	0.2	0.6	21:00	0.4	23:00	0	95.5
24/04/2015	0.4	0.3	0.6	8:00	0.5	1:00	0	95.5
25/04/2015	0.3	0.2	0.4	0:00	0.4	2:00	0	95.5
26/04/2015	0.2	0.1	0.3	0:00	0.3	1:00	0	95.5
27/04/2015	0.4	0.2	0.6	22:00	-	-	0	82.6
28/04/2015	0.4	0.3	0.5	6:00	0.5	1:00	0	87.8
29/04/2015	0.3	0.3	0.5	7:00	-	-	0	74.0
30/04/2015	0.4	0.2	0.6	17:00	0.5	18:00	0	95.5

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 April 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		
1/04/2015	-	-	-	-	0	41.7
2/04/2015	-	-	-	-	0	0.0
3/04/2015	-	-	-	-	0	47.8
4/04/2015	-1.7	-8.0	3.9	14:00	0	100.0
5/04/2015	-2.4	-7.8	4.8	19:00	0	100.0
6/04/2015	0.6	-3.8	5.9	1:00	0	100.0
7/04/2015	-0.5	-9.7	5.8	19:00	0	100.0
8/04/2015	5.2	1.3	9.8	9:00	0	100.0
9/04/2015	4.1	1.1	6.8	18:00	0	100.0
10/04/2015	6.1	-0.6	10.8	8:00	0	91.7
11/04/2015	2.4	-1.9	13.7	10:00	0	100.0
12/04/2015	1.0	-1.9	4.8	1:00	0	100.0
13/04/2015	3.4	-0.8	8.9	22:00	0	100.0
14/04/2015	4.5	1.0	10.8	22:00	0	100.0
15/04/2015	2.8	-2.8	6.8	9:00	0	100.0
16/04/2015	2.6	-0.9	9.7	5:00	0	100.0
17/04/2015	1.9	-4.0	7.8	4:00	0	100.0
18/04/2015	1.5	-2.8	6.8	5:00	0	100.0
19/04/2015	-0.3	-3.8	3.8	17:00	0	100.0
20/04/2015	2.6	-1.8	5.0	19:00	0	100.0
21/04/2015	-	-	-	-	0	33.3
22/04/2015	-	-	-	-	0	47.8
23/04/2015	-3.4	-8.0	0.9	21:00	0	100.0
24/04/2015	-1.3	-9.9	5.9	20:00	0	100.0
25/04/2015	-2.3	-9.9	3.9	0:00	0	100.0
26/04/2015	-3.0	-5.9	0.8	3:00	0	100.0
27/04/2015	-2.9	-7.9	2.8	20:00	0	87.5
28/04/2015	-1.7	-6.8	3.9	7:00	0	79.2
29/04/2015	-1.9	-4.0	0.8	6:00	0	79.2
30/04/2015	-1.0	-5.8	4.8	20:00	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 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 April 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		
1/04/2015	-	-	-	-	0	0.0
2/04/2015	-	-	-	-	0	0.0
3/04/2015	-	-	-	-	0	0.0
4/04/2015	-	-	-	-	0	0.0
5/04/2015	-	-	-	-	0	0.0
6/04/2015	-	-	-	-	0	0.0
7/04/2015	-	-	-	-	0	0.0
8/04/2015	-	-	-	-	0	0.0
9/04/2015	-	-	-	-	0	20.8
10/04/2015	18.0	8.7	32.0	19:00	0	95.8
11/04/2015	33.3	7.3	433.4	10:00	0	100.0
12/04/2015	8.0	2.2	15.2	20:00	0	100.0
13/04/2015	16.3	6.9	23.8	17:00	0	100.0
14/04/2015	20.1	11.5	32.7	11:00	0	100.0
15/04/2015	16.9	11.1	23.6	7:00	0	100.0
16/04/2015	11.6	6.4	18.3	15:00	0	100.0
17/04/2015	10.5	3.1	18.7	8:00	0	100.0
18/04/2015	10.0	2.4	18.6	10:00	0	100.0
19/04/2015	5.8	2.0	11.8	15:00	0	100.0
20/04/2015	6.2	1.1	10.8	12:00	0	100.0
21/04/2015	8.7	2.8	17.3	12:00	0	100.0
22/04/2015	3.3	-2.0	10.8	20:00	0	100.0
23/04/2015	7.3	0.2	23.0	21:00	0	100.0
24/04/2015	13.1	5.2	23.7	9:00	0	100.0
25/04/2015	11.2	4.0	17.8	22:00	0	100.0
26/04/2015	18.5	5.0	52.8	11:00	0	100.0
27/04/2015	9.1	2.1	19.9	21:00	0	87.5
28/04/2015	15.4	7.1	24.1	8:00	0	79.2
29/04/2015	10.3	0.0	21.9	2:00	0	79.2
30/04/2015	6.1	-0.6	11.8	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 13 Station 2 PM<sub>10</sub> Monthly Summary

### Station 3 (Lewis Street)

#### Summary

Station 3 Lewis St Ambient AQMS Summary April 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	0.2	-	7.6
Min 1hr Average	0.001	0.0	-	-4.7
Max 1hr Average	0.030	0.7	-	40.5
Max 8hr Rolling Average	-	0.6	-	-
Max 24hr Average	-	-	-	14.6
Capture Rate (%)	95.3	94.4	0.0	83.9

Table 14 Station 3 Monthly Summary

### Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary April 2015						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/04/2015	0.010	0.002	0.020	9:00	0	95.8
2/04/2015	0.009	0.007	0.013	0:00	0	95.8
3/04/2015	0.005	0.002	0.009	0:00	0	95.8
4/04/2015	0.005	0.002	0.008	9:00	0	95.8
5/04/2015	0.003	0.001	0.005	3:00	0	95.8
6/04/2015	0.004	0.002	0.007	5:00	0	95.8
7/04/2015	0.006	0.002	0.015	6:00	0	95.8
8/04/2015	0.004	0.001	0.015	18:00	0	95.8
9/04/2015	0.009	0.002	0.018	19:00	0	95.8
10/04/2015	0.009	0.004	0.015	0:00	0	95.8
11/04/2015	0.006	0.003	0.012	23:00	0	95.8
12/04/2015	0.009	0.003	0.016	20:00	0	95.8
13/04/2015	0.008	0.004	0.014	6:00	0	95.8
14/04/2015	0.012	0.005	0.020	19:00	0	95.8
15/04/2015	0.014	0.005	0.020	19:00	0	95.8
16/04/2015	0.013	0.007	0.020	7:00	0	87.5
17/04/2015	0.011	0.003	0.018	20:00	0	91.7
18/04/2015	0.006	0.002	0.012	2:00	0	95.8
19/04/2015	0.005	0.002	0.009	22:00	0	95.8
20/04/2015	0.007	0.003	0.014	7:00	0	95.8
21/04/2015	0.003	0.001	0.007	7:00	0	95.8
22/04/2015	0.006	0.002	0.022	19:00	0	95.8
23/04/2015	0.013	0.004	0.030	19:00	0	95.8
24/04/2015	0.012	0.002	0.022	8:00	0	95.8
25/04/2015	0.008	0.001	0.014	8:00	0	95.8
26/04/2015	0.002	0.001	0.007	0:00	0	95.8
27/04/2015	0.012	0.002	0.027	19:00	0	95.8
28/04/2015	0.010	0.005	0.017	0:00	0	95.8
29/04/2015	0.008	0.004	0.016	7:00	0	91.7
30/04/2015	0.013	0.002	0.020	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 April 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		
1/04/2015	0.1	0.0	0.2	09:00	0.2	00:00	0	95.8
2/04/2015	0.1	0.1	0.2	8:00	0.2	20:00	0	95.8
3/04/2015	0.1	0.1	0.2	8:00	0.2	0:00	0	95.8
4/04/2015	0.2	0.1	0.2	22:00	0.2	23:00	0	95.8
5/04/2015	0.2	0.1	0.2	0:00	0.2	2:00	0	95.8
6/04/2015	0.2	0.1	0.2	22:00	0.2	23:00	0	95.8
7/04/2015	0.2	0.0	0.4	6:00	0.2	20:00	0	95.8
8/04/2015	0.0	0.0	0.1	18:00	0.2	0:00	0	95.8
9/04/2015	0.1	0.0	0.2	19:00	0.2	23:00	0	95.8
10/04/2015	0.2	0.1	0.2	20:00	0.2	23:00	0	95.1
11/04/2015	0.2	0.1	0.2	18:00	0.2	1:00	0	95.8
12/04/2015	0.2	0.0	0.4	21:00	0.3	22:00	0	94.8
13/04/2015	0.1	0.0	0.1	6:00	0.2	1:00	0	95.8
14/04/2015	0.1	0.0	0.4	23:00	0.2	23:00	0	95.8
15/04/2015	0.2	0.0	0.5	22:00	0.3	23:00	0	95.8
16/04/2015	-	-	-	-	0.4	2:00	0	67.7
17/04/2015	0.2	0.1	0.4	22:00	0.3	23:00	0	89.2
18/04/2015	0.3	0.2	0.4	7:00	0.4	8:00	0	95.8
19/04/2015	0.3	0.3	0.4	22:00	0.4	23:00	0	95.8
20/04/2015	0.3	0.2	0.4	15:00	0.4	1:00	0	95.8
21/04/2015	0.2	0.1	0.2	0:00	0.3	0:00	0	95.8
22/04/2015	0.2	0.2	0.4	19:00	0.3	23:00	0	95.8
23/04/2015	0.4	0.2	0.7	21:00	0.5	23:00	0	95.8
24/04/2015	0.4	0.3	0.6	8:00	0.5	1:00	0	95.8
25/04/2015	0.4	0.3	0.5	6:00	0.5	6:00	0	95.8
26/04/2015	0.2	0.2	0.4	0:00	0.4	1:00	0	95.8
27/04/2015	0.4	0.2	0.7	20:00	0.5	23:00	0	95.8
28/04/2015	0.4	0.3	0.5	0:00	0.6	1:00	0	95.8
29/04/2015	0.3	0.3	0.4	8:00	0.4	12:00	0	91.3
30/04/2015	0.5	0.3	0.7	9:00	0.5	15:00	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 April 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		
1/04/2015	-	-	-	-	0	0.0
2/04/2015	-	-	-	-	0	0.0
3/04/2015	-	-	-	-	0	0.0
4/04/2015	-	-	-	-	0	0.0
5/04/2015	-	-	-	-	0	0.0
6/04/2015	-	-	-	-	0	0.0
7/04/2015	-	-	-	-	0	0.0
8/04/2015	-	-	-	-	0	0.0
9/04/2015	-	-	-	-	0	0.0
10/04/2015	-	-	-	-	0	0.0
11/04/2015	-	-	-	-	0	0.0
12/04/2015	-	-	-	-	0	0.0
13/04/2015	-	-	-	-	0	0.0
14/04/2015	-	-	-	-	0	0.0
15/04/2015	-	-	-	-	0	0.0
16/04/2015	-	-	-	-	0	0.0
17/04/2015	-	-	-	-	0	0.0
18/04/2015	-	-	-	-	0	0.0
19/04/2015	-	-	-	-	0	0.0
20/04/2015	-	-	-	-	0	0.0
21/04/2015	-	-	-	-	0	0.0
22/04/2015	-	-	-	-	0	0.0
23/04/2015	-	-	-	-	0	0.0
24/04/2015	-	-	-	-	0	0.0
25/04/2015	-	-	-	-	0	0.0
26/04/2015	-	-	-	-	0	0.0
27/04/2015	-	-	-	-	0	0.0
28/04/2015	-	-	-	-	0	0.0
29/04/2015	-	-	-	-	0	0.0
30/04/2015	-	-	-	-	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 April 2015						
Date	24 hr Avg (µg/m <sup>3</sup> )	1 hr Avs			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		
1/04/2015	6.5	-4.7	19.5	15:00	0	91.7
2/04/2015	7.9	2.0	18.5	15:00	0	100.0
3/04/2015	8.0	-3.0	21.1	21:00	0	100.0
4/04/2015	6.3	2.1	12.7	0:00	0	100.0
5/04/2015	3.5	-1.8	28.0	22:00	0	100.0
6/04/2015	2.3	-2.9	6.0	7:00	0	100.0
7/04/2015	5.5	1.3	9.9	23:00	0	100.0
8/04/2015	8.2	-4.0	23.0	8:00	0	100.0
9/04/2015	4.3	-3.8	10.7	20:00	0	100.0
10/04/2015	12.8	5.2	29.1	21:00	0	100.0
11/04/2015	7.1	1.1	22.8	0:00	0	100.0
12/04/2015	5.3	2.1	8.6	16:00	0	100.0
13/04/2015	9.8	3.2	18.2	18:00	0	100.0
14/04/2015	14.6	9.0	24.2	15:00	0	100.0
15/04/2015	11.3	6.2	24.3	9:00	0	100.0
16/04/2015	9.2	5.1	18.3	8:00	0	87.5
17/04/2015	6.6	1.2	12.6	9:00	0	91.3
18/04/2015	-	-	-	-	0	0.0
19/04/2015	-	-	-	-	0	0.0
20/04/2015	-	-	-	-	0	0.0
21/04/2015	-	-	-	-	0	0.0
22/04/2015	-	-	-	-	0	52.2
23/04/2015	5.4	-3.6	16.4	18:00	0	100.0
24/04/2015	8.5	-3.6	25.0	9:00	0	100.0
25/04/2015	4.7	-3.5	16.5	8:00	0	100.0
26/04/2015	13.6	3.1	40.5	10:00	0	100.0
27/04/2015	7.8	2.0	19.3	20:00	0	100.0
28/04/2015	11.6	4.0	21.0	8:00	0	100.0
29/04/2015	8.7	2.7	12.8	4:00	0	100.0
30/04/2015	4.5	-0.9	8.9	13:00	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 April 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	0.012	0.3	-	10.3
Min 1hr Average	0.003	0.0	-	-4.6
Max 1hr Average	0.031	0.9	-	49.5
Max 8hr Rolling Average	-	0.6	-	-
Max 24hr Average	-	-	-	23.6
Capture Rate (%)	88.1	85.8	0.0	91.8

Table 19 Station 4 Monthly Summary



### Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary April 2015						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/04/2015	0.015	0.006	0.024	17:00	0	95.8
2/04/2015	0.013	0.006	0.017	18:00	0	95.8
3/04/2015	0.007	0.005	0.012	0:00	0	95.8
4/04/2015	0.008	0.006	0.010	0:00	0	95.8
5/04/2015	0.006	0.004	0.008	6:00	0	95.8
6/04/2015	0.008	0.005	0.012	6:00	0	95.8
7/04/2015	0.010	0.005	0.018	18:00	0	83.3
8/04/2015	-	-	-	-	0	54.2
9/04/2015	-	-	-	-	0	62.5
10/04/2015	0.014	0.008	0.023	17:00	0	95.8
11/04/2015	0.012	0.007	0.019	17:00	0	95.8
12/04/2015	0.010	0.005	0.020	20:00	0	95.8
13/04/2015	0.015	0.011	0.022	17:00	0	95.8
14/04/2015	0.017	0.008	0.027	20:00	0	95.8
15/04/2015	0.020	0.014	0.028	20:00	0	95.8
16/04/2015	0.018	0.012	0.023	19:00	0	95.8
17/04/2015	0.017	0.010	0.021	20:00	0	79.2
18/04/2015	0.010	0.005	0.014	9:00	0	95.8
19/04/2015	0.009	0.006	0.015	20:00	0	95.8
20/04/2015	0.010	0.004	0.017	7:00	0	95.8
21/04/2015	0.006	0.004	0.008	18:00	0	95.8
22/04/2015	0.008	0.004	0.019	19:00	0	95.8
23/04/2015	0.014	0.006	0.031	20:00	0	95.8
24/04/2015	0.014	0.006	0.025	23:00	0	95.8
25/04/2015	0.011	0.005	0.022	0:00	0	95.8
26/04/2015	0.004	0.003	0.009	0:00	0	95.8
27/04/2015	-	-	-	-	0	41.7
28/04/2015	-	-	-	-	0	26.1
29/04/2015	0.014	0.008	0.022	17:00	0	91.7
30/04/2015	0.015	0.004	0.022	8:00	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 April 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		
1/04/2015	0.2	0.1	0.5	17:00	0.3	18:00	0	95.1
2/04/2015	0.3	0.1	0.4	17:00	0.3	21:00	0	95.1
3/04/2015	0.2	0.2	0.3	0:00	0.3	0:00	0	95.1
4/04/2015	0.2	0.1	0.2	19:00	0.2	23:00	0	95.1
5/04/2015	0.2	0.1	0.3	8:00	0.3	8:00	0	95.1
6/04/2015	0.2	0.1	0.3	6:00	0.2	23:00	0	95.1
7/04/2015	0.4	0.2	0.8	18:00	0.6	20:00	0	86.1
8/04/2015	-	-	-	-	-	-	0	27.4
9/04/2015	-	-	-	-	-	-	0	26.1
10/04/2015	0.3	0.2	0.5	16:00	0.4	0:00	0	95.8
11/04/2015	0.3	0.2	0.5	17:00	0.4	19:00	0	95.8
12/04/2015	0.3	0.2	0.5	21:00	0.4	23:00	0	95.1
13/04/2015	0.3	0.2	0.5	17:00	0.4	1:00	0	95.8
14/04/2015	0.3	0.2	0.7	21:00	0.5	23:00	0	95.8
15/04/2015	0.4	0.2	0.7	21:00	0.5	1:00	0	95.8
16/04/2015	0.4	0.2	0.9	21:00	0.5	1:00	0	95.8
17/04/2015	0.3	0.3	0.4	22:00	-	-	0	79.1
18/04/2015	0.3	0.2	0.4	9:00	0.4	1:00	0	95.8
19/04/2015	0.3	0.2	0.4	20:00	0.3	23:00	0	95.8
20/04/2015	0.3	0.2	0.4	7:00	0.4	20:00	0	95.8
21/04/2015	0.2	0.1	0.2	7:00	0.3	0:00	0	95.8
22/04/2015	0.1	0.1	0.3	19:00	0.2	23:00	0	95.8
23/04/2015	0.3	0.2	0.6	20:00	0.4	23:00	0	95.8
24/04/2015	0.3	0.2	0.5	23:00	0.4	1:00	0	95.8
25/04/2015	0.3	0.2	0.5	0:00	0.4	5:00	0	95.8
26/04/2015	0.2	0.2	0.2	0:00	0.3	0:00	0	95.8
27/04/2015	-	-	-	-	-	-	0	40.8
28/04/2015	-	-	-	-	-	-	0	25.4
29/04/2015	0.3	0.2	0.5	17:00	0.4	18:00	0	92.0
30/04/2015	0.4	0.3	0.5	9:00	0.4	13:00	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 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 April 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		
1/04/2015	-	-	-	-	0	0.0
2/04/2015	-	-	-	-	0	0.0
3/04/2015	-	-	-	-	0	0.0
4/04/2015	-	-	-	-	0	0.0
5/04/2015	-	-	-	-	0	0.0
6/04/2015	-	-	-	-	0	0.0
7/04/2015	-	-	-	-	0	0.0
8/04/2015	-	-	-	-	0	0.0
9/04/2015	-	-	-	-	0	0.0
10/04/2015	-	-	-	-	0	0.0
11/04/2015	-	-	-	-	0	0.0
12/04/2015	-	-	-	-	0	0.0
13/04/2015	-	-	-	-	0	0.0
14/04/2015	-	-	-	-	0	0.0
15/04/2015	-	-	-	-	0	0.0
16/04/2015	-	-	-	-	0	0.0
17/04/2015	-	-	-	-	0	0.0
18/04/2015	-	-	-	-	0	0.0
19/04/2015	-	-	-	-	0	0.0
20/04/2015	-	-	-	-	0	0.0
21/04/2015	-	-	-	-	0	0.0
22/04/2015	-	-	-	-	0	0.0
23/04/2015	-	-	-	-	0	0.0
24/04/2015	-	-	-	-	0	0.0
25/04/2015	-	-	-	-	0	0.0
26/04/2015	-	-	-	-	0	0.0
27/04/2015	-	-	-	-	0	0.0
28/04/2015	-	-	-	-	0	0.0
29/04/2015	-	-	-	-	0	0.0
30/04/2015	-	-	-	-	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 22 Station 4 PM<sub>2.5</sub> Monthly Summary

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

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary April 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		
1/04/2015	9.6	0.0	23.5	15:00	0	100.0
2/04/2015	9.5	2.0	21.8	10:00	0	100.0
3/04/2015	11.1	-1.3	24.8	11:00	0	100.0
4/04/2015	9.3	2.2	23.3	0:00	0	100.0
5/04/2015	4.3	0.2	10.5	7:00	0	100.0
6/04/2015	4.3	-0.8	8.9	19:00	0	100.0
7/04/2015	7.2	-4.6	12.0	23:00	0	83.3
8/04/2015	-	-	-	-	0	58.3
9/04/2015	-	-	-	-	0	66.7
10/04/2015	17.8	10.0	29.4	21:00	0	100.0
11/04/2015	10.0	5.3	18.7	0:00	0	100.0
12/04/2015	8.0	1.1	16.1	12:00	0	100.0
13/04/2015	15.9	9.0	27.8	16:00	0	100.0
14/04/2015	23.6	15.3	35.7	10:00	0	100.0
15/04/2015	19.9	12.4	26.3	14:00	0	100.0
16/04/2015	7.2	-3.7	21.9	8:00	0	100.0
17/04/2015	7.2	-0.9	28.9	15:00	0	83.3
18/04/2015	12.8	4.0	31.5	10:00	0	100.0
19/04/2015	10.0	5.3	16.3	9:00	0	100.0
20/04/2015	6.5	-0.5	11.0	20:00	0	100.0
21/04/2015	6.6	1.5	16.7	11:00	0	100.0
22/04/2015	2.6	-2.5	9.9	20:00	0	100.0
23/04/2015	7.3	0.3	19.8	19:00	0	100.0
24/04/2015	9.7	2.3	17.0	19:00	0	100.0
25/04/2015	10.7	2.1	17.7	0:00	0	100.0
26/04/2015	17.6	2.2	49.5	11:00	0	100.0
27/04/2015	-	-	-	-	0	41.7
28/04/2015	-	-	-	-	0	26.1
29/04/2015	13.2	6.0	21.5	17:00	0	95.8
30/04/2015	9.3	4.0	18.4	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 23 Station 4 PM<sub>10</sub> Monthly Summary

## Station 5 (Bryden Street)

### Summary

Station 5 Bryden St Ambient AQMS Summary April 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	0.2	6.6	16.3
Min 1hr Average	0.001	-0.1	0.2	-0.3
Max 1hr Average	0.034	0.9	17.6	60.5
Max 8hr Rolling Average	-	0.5	-	-
Max 24hr Average	-	-	10.3	24.6
Capture Rate (%)	95.4	95.4	97.4	99.6

Table 24 Station 5 Monthly Summary

*Nitrogen Dioxide Summary*

Station 5 Bryden St Ambient AQMS Nitrogen Dioxide Summary April 2015						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/04/2015	0.011	0.002	0.023	8:00	0	95.8
2/04/2015	0.010	0.005	0.015	17:00	0	95.8
3/04/2015	0.005	0.001	0.011	0:00	0	95.8
4/04/2015	0.006	0.001	0.009	0:00	0	95.8
5/04/2015	0.004	0.001	0.009	3:00	0	95.8
6/04/2015	0.005	0.002	0.012	5:00	0	95.8
7/04/2015	0.007	0.002	0.024	19:00	0	95.8
8/04/2015	0.006	0.001	0.025	18:00	0	95.8
9/04/2015	0.009	0.002	0.022	6:00	0	91.7
10/04/2015	0.013	0.006	0.021	2:00	0	95.8
11/04/2015	0.007	0.003	0.014	22:00	0	95.8
12/04/2015	0.008	0.003	0.019	21:00	0	95.8
13/04/2015	0.009	0.005	0.015	6:00	0	95.8
14/04/2015	0.014	0.005	0.024	20:00	0	95.8
15/04/2015	0.014	0.005	0.023	20:00	0	95.8
16/04/2015	0.013	0.005	0.021	20:00	0	95.8
17/04/2015	0.012	0.003	0.019	20:00	0	95.8
18/04/2015	0.007	0.001	0.015	2:00	0	95.8
19/04/2015	0.006	0.001	0.014	21:00	0	95.8
20/04/2015	0.009	0.002	0.017	7:00	0	95.8
21/04/2015	0.004	0.001	0.008	6:00	0	95.8
22/04/2015	0.008	0.001	0.030	18:00	0	95.8
23/04/2015	0.015	0.003	0.034	19:00	0	95.8
24/04/2015	0.014	0.002	0.023	3:00	0	95.8
25/04/2015	0.011	0.002	0.027	0:00	0	95.8
26/04/2015	0.002	0.001	0.014	0:00	0	95.8
27/04/2015	0.015	0.003	0.034	19:00	0	95.8
28/04/2015	0.014	0.007	0.022	6:00	0	87.5
29/04/2015	0.010	0.004	0.023	6:00	0	95.8
30/04/2015	0.015	0.002	0.022	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 April 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		
1/04/2015	0.2	0.1	0.3	08:00	0.2	13:00	0	95.8
2/04/2015	0.1	0.1	0.2	8:00	0.2	0:00	0	95.8
3/04/2015	0.1	0.1	0.2	0:00	0.2	9:00	0	95.8
4/04/2015	0.2	0.1	0.2	23:00	0.2	10:00	0	95.8
5/04/2015	0.1	0.0	0.2	0:00	0.2	1:00	0	95.8
6/04/2015	0.1	0.1	0.2	7:00	0.2	8:00	0	95.8
7/04/2015	0.1	0.0	0.4	19:00	0.2	20:00	0	95.8
8/04/2015	0.0	-0.1	0.1	18:00	0.1	0:00	0	95.8
9/04/2015	0.2	0.0	0.4	23:00	0.3	23:00	0	91.7
10/04/2015	0.2	0.2	0.3	20:00	0.3	0:00	0	95.8
11/04/2015	0.2	0.1	0.3	22:00	0.3	0:00	0	95.8
12/04/2015	0.2	0.2	0.4	21:00	0.3	23:00	0	95.8
13/04/2015	0.2	0.2	0.3	6:00	0.3	3:00	0	95.8
14/04/2015	0.3	0.2	0.5	21:00	0.3	23:00	0	95.8
15/04/2015	0.3	0.2	0.6	20:00	0.4	2:00	0	95.8
16/04/2015	0.3	0.2	0.7	21:00	0.4	23:00	0	95.8
17/04/2015	0.3	0.2	0.6	22:00	0.4	2:00	0	95.8
18/04/2015	0.2	0.2	0.4	6:00	0.3	3:00	0	95.8
19/04/2015	0.3	0.2	0.5	21:00	0.3	23:00	0	95.8
20/04/2015	0.2	0.1	0.3	15:00	0.3	1:00	0	95.8
21/04/2015	0.0	0.0	0.1	0:00	0.2	0:00	0	95.8
22/04/2015	0.2	0.1	0.4	18:00	0.3	23:00	0	95.8
23/04/2015	0.3	0.1	0.7	20:00	0.5	23:00	0	95.8
24/04/2015	0.3	0.2	0.5	23:00	0.5	1:00	0	95.8
25/04/2015	0.3	0.1	0.6	0:00	0.4	1:00	0	95.8
26/04/2015	0.1	0.1	0.3	0:00	0.3	1:00	0	95.8
27/04/2015	0.3	0.1	0.6	20:00	0.4	23:00	0	95.8
28/04/2015	0.3	0.2	0.9	7:00	0.4	1:00	0	87.5
29/04/2015	0.2	0.2	0.3	8:00	0.3	11:00	0	95.8
30/04/2015	0.3	0.2	0.5	10:00	0.4	15:00	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 April 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		
1/04/2015	6.0	1.3	11.6	14:00	0	100.0
2/04/2015	4.9	0.2	7.6	14:00	0	95.8
3/04/2015	5.4	2.4	8.8	16:00	0	91.7
4/04/2015	6.2	2.7	11.0	0:00	0	100.0
5/04/2015	4.7	1.4	7.5	18:00	0	100.0
6/04/2015	5.3	2.2	9.3	9:00	0	100.0
7/04/2015	6.1	2.2	10.8	20:00	0	95.8
8/04/2015	5.8	3.0	11.9	7:00	0	95.8
9/04/2015	6.2	4.2	9.0	7:00	0	91.7
10/04/2015	8.6	4.0	13.3	4:00	0	100.0
11/04/2015	5.4	3.0	8.0	23:00	0	100.0
12/04/2015	6.7	3.2	10.6	17:00	0	95.8
13/04/2015	6.7	4.2	9.5	7:00	0	95.8
14/04/2015	8.2	3.4	16.8	6:00	0	100.0
15/04/2015	7.7	2.0	14.7	8:00	0	100.0
16/04/2015	7.7	5.0	16.2	7:00	0	91.7
17/04/2015	7.0	4.2	10.2	8:00	0	100.0
18/04/2015	6.6	2.8	13.2	10:00	0	91.7
19/04/2015	5.8	2.4	8.7	17:00	0	100.0
20/04/2015	5.8	3.3	9.6	18:00	0	95.8
21/04/2015	5.0	2.0	7.8	9:00	0	91.7
22/04/2015	4.4	1.0	9.3	18:00	0	100.0
23/04/2015	7.9	3.0	15.0	7:00	0	100.0
24/04/2015	9.2	2.0	17.6	8:00	0	100.0
25/04/2015	10.4	4.0	16.5	4:00	0	100.0
26/04/2015	5.5	3.0	9.4	0:00	0	95.8
27/04/2015	7.1	4.0	11.6	8:00	0	100.0
28/04/2015	9.1	5.2	17.5	8:00	0	95.8
29/04/2015	5.9	2.8	12.6	3:00	0	100.0
30/04/2015	6.7	3.2	10.5	19:00	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 April 2015						
Date	24 hr Avg ( $\mu\text{g}/\text{m}^3$ )	1 hr Avgs			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		
1/04/2015	17.3	8.2	30.3	16:00	0	100.0
2/04/2015	19.5	11.5	29.8	10:00	0	100.0
3/04/2015	20.6	9.2	29.8	22:00	0	100.0
4/04/2015	21.3	10.8	35.4	12:00	0	100.0
5/04/2015	6.7	2.0	13.6	1:00	0	100.0
6/04/2015	8.9	3.2	17.1	8:00	0	100.0
7/04/2015	15.1	7.2	22.9	19:00	0	100.0
8/04/2015	19.7	10.2	36.4	8:00	0	100.0
9/04/2015	13.2	6.9	20.0	15:00	0	87.5
10/04/2015	22.1	13.0	37.0	20:00	0	100.0
11/04/2015	15.4	10.2	22.7	0:00	0	100.0
12/04/2015	16.7	6.4	27.5	17:00	0	100.0
13/04/2015	20.6	11.7	29.0	21:00	0	100.0
14/04/2015	24.6	19.6	32.0	19:00	0	100.0
15/04/2015	19.5	12.2	33.6	8:00	0	100.0
16/04/2015	18.3	11.0	41.1	7:00	0	100.0
17/04/2015	16.6	9.8	25.2	10:00	0	100.0
18/04/2015	18.6	11.2	26.1	11:00	0	100.0
19/04/2015	13.1	6.2	17.8	16:00	0	100.0
20/04/2015	11.3	8.1	18.8	0:00	0	100.0
21/04/2015	13.8	7.4	29.3	12:00	0	100.0
22/04/2015	9.4	0.0	15.5	20:00	0	100.0
23/04/2015	12.6	-0.3	26.7	17:00	0	100.0
24/04/2015	14.6	6.8	27.8	9:00	0	100.0
25/04/2015	14.0	3.4	23.0	8:00	0	100.0
26/04/2015	21.9	6.0	60.5	10:00	0	100.0
27/04/2015	16.2	7.4	28.4	19:00	0	100.0
28/04/2015	21.2	8.6	56.4	8:00	0	100.0
29/04/2015	14.4	7.8	20.0	8:00	0	100.0
30/04/2015	10.9	7.0	15.5	15:00	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

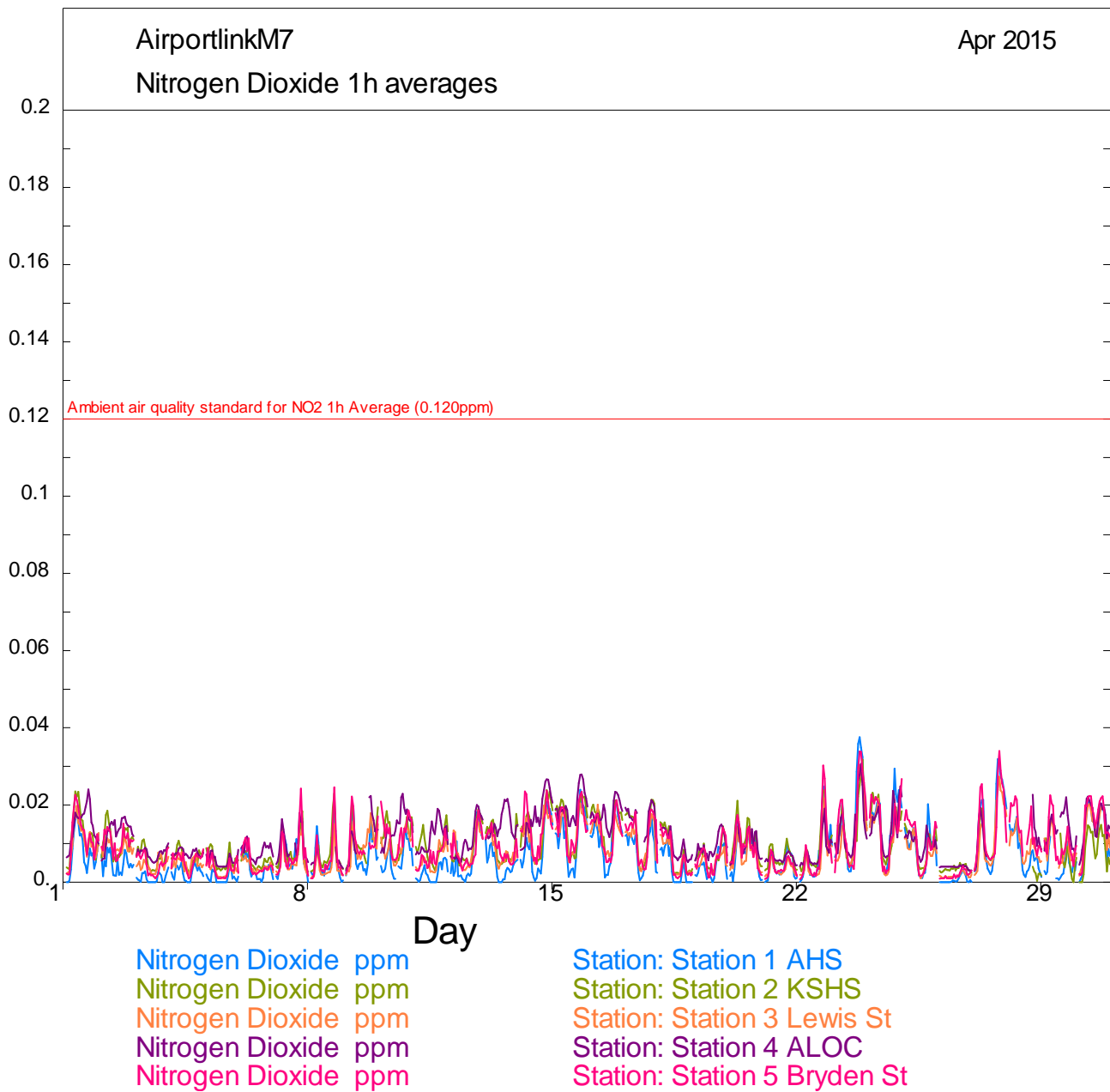


Figure 1 Nitrogen Dioxide 1hr averages

Carbon Monoxide 8hr Rolling Averages

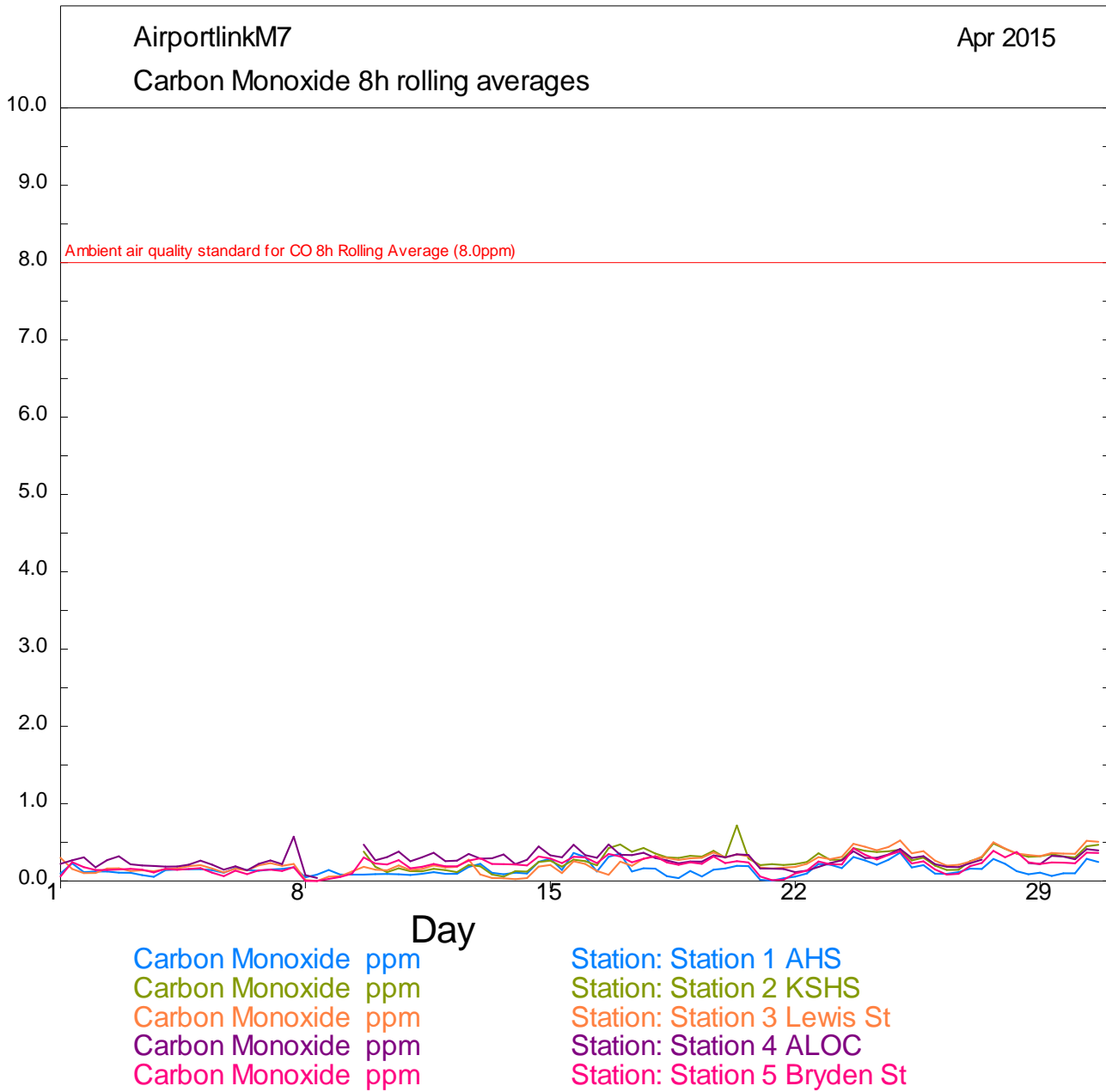


Figure 2 Carbon Monoxide 8hr rolling averages

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

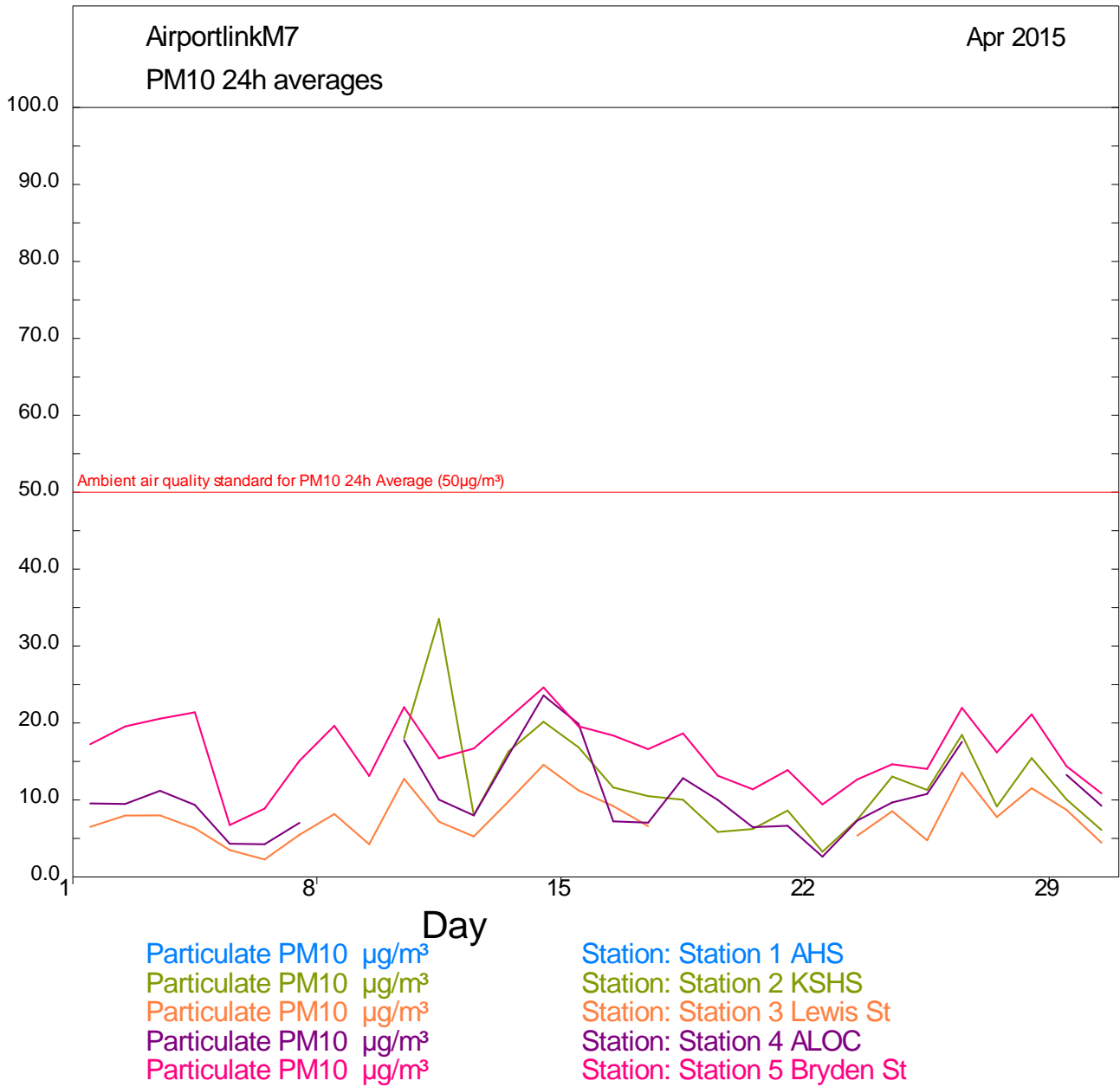


Figure 3 PM<sub>10</sub> 24hr Averages

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

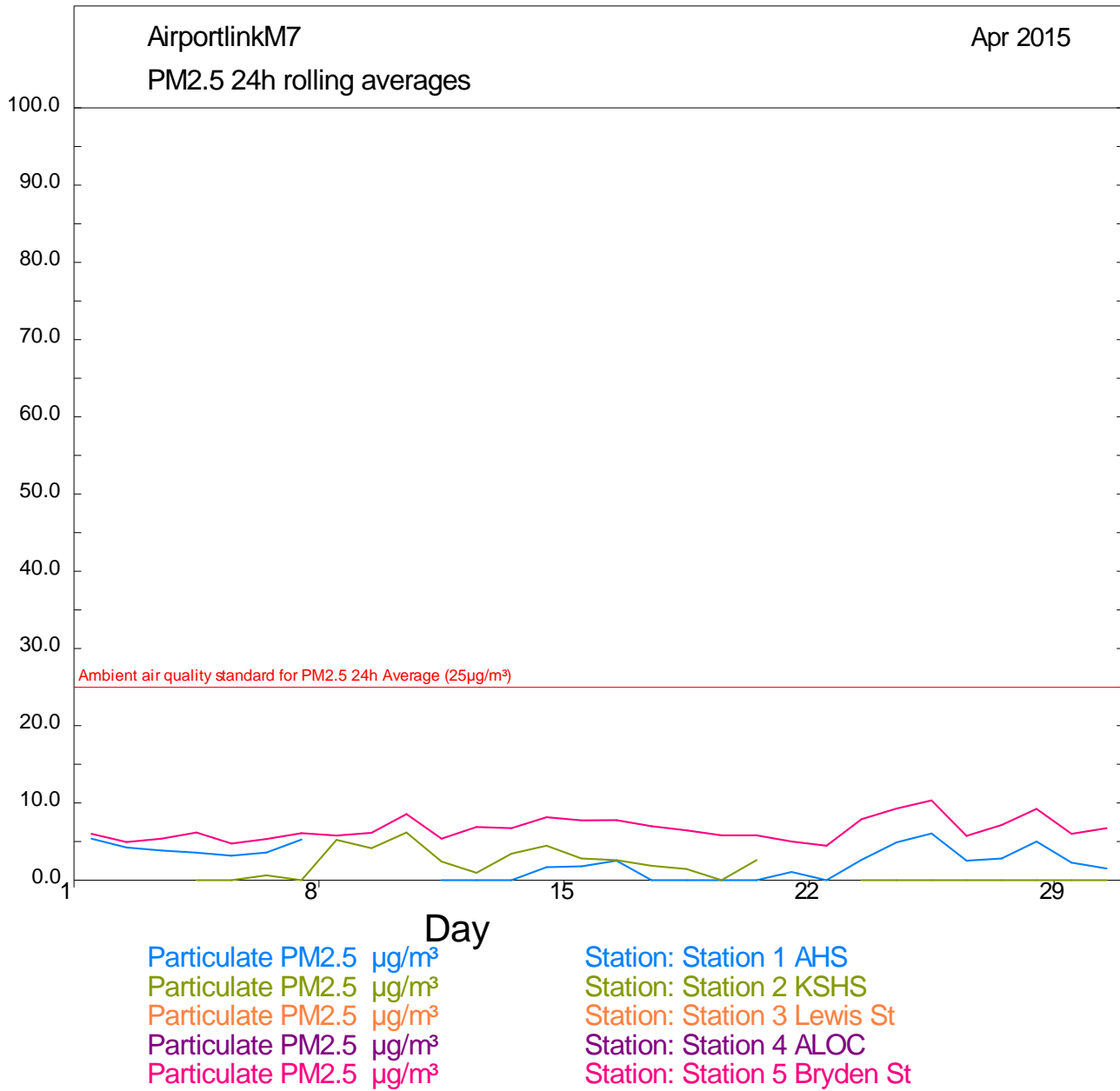


Figure 4 PM<sub>2.5</sub> 24hr Averages

## 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 µg/m<sup>3</sup> was not exceeded during the reporting period at any of the five sites.

TSP Results April 2015					
Sample Date	Station 1 AHS (µg/m <sup>3</sup> )	Station 2 KSHS (µg/m <sup>3</sup> )	Station 3 LS (µg/m <sup>3</sup> )	Station 4 ALOC (µg/m <sup>3</sup> )	Station 5 BS (µg/m <sup>3</sup> )
6/04/2015	13	12	12	11	12
12/04/2015	21	19	20	20	21
18/04/2015	16	16	17	17	19
24/04/2015	32	24	25	24	24
30/04/2015	13	9	8	10	10
Monthly Average	19.0	16.0	16.4	16.4	17.2

Table 29 TSP High Volume Air Sampler Results