



# Leighton Contractors Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

August 2015

Ref: DR.1508APL230

Issue Date: 22 September 2015

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

m: +61 403 248 038  
p: + 61 2 9622 6327  
f: +61 2 9622 6340  
bruno.nourdine@norditech.com.au  
www.norditech.com.au



## Document Control

Revision	Date	Details	Prepared By	Approved By
0	22/09/2015	Original	CP	BN

Prepared by



Chris Priser  
22 September 2015

Approved by



Bruno Nourdine  
22 September 2015

## Contents

<b>Glossary</b> .....	<b>1</b>
<b>Executive Summary</b> .....	<b>2</b>
<i>Exceedence Reporting</i> .....	2
<b>Introduction</b> .....	<b>4</b>
<b>Monitoring</b> .....	<b>5</b>
<i>Site Locations</i> .....	5
<i>Station Instrumentation Details</i> .....	5
<i>Data Logging</i> .....	6
<b>Results</b> .....	<b>7</b>
<i>Station 1 (Aviation High School)</i> .....	7
Summary .....	7
Nitrogen Dioxide Summary.....	8
Carbon Monoxide Summary.....	9
PM <sub>2.5</sub> Summary .....	10
PM <sub>10</sub> Summary .....	11
<i>Station 2 (Kedron State High School)</i> .....	12
Summary .....	12
Nitrogen Dioxide Summary.....	13
Carbon Monoxide Summary.....	14
PM <sub>2.5</sub> Summary.....	15
PM <sub>10</sub> Summary .....	16
<i>Station 3 (Lewis Street)</i> .....	17
Summary .....	17
Nitrogen Dioxide Summary.....	18
Carbon Monoxide Summary.....	19
PM <sub>2.5</sub> Summary .....	20
PM <sub>10</sub> Summary.....	20
<i>Station 4 (Airportlink Operation Centre)</i> .....	22
Summary .....	22
Nitrogen Dioxide Summary.....	23
Carbon Monoxide Summary.....	24
PM <sub>2.5</sub> Summary .....	25
PM <sub>10</sub> Summary .....	25
<i>Station 5 (Bryden Street)</i> .....	27
Summary .....	27
Nitrogen Dioxide Summary.....	28
Carbon Monoxide Summary.....	29
PM <sub>2.5</sub> Summary .....	30
PM <sub>10</sub> Summary.....	31
<b>Graphical Representations</b> .....	<b>32</b>
<i>Nitrogen Dioxide</i> .....	32
<i>Carbon Monoxide 8hr Rolling Averages</i> .....	33
<i>PM<sub>10</sub> 24hr Averages</i> .....	34
<i>PM<sub>2.5</sub> 24hr Averages</i> .....	35
<b>TSP High Volume Air Sampler Results</b> .....	<b>36</b>
<b>Validation Tables</b> .....	<b>37</b>

<i>Station 1 Aviation High School .....</i>	<i>37</i>
<i>Station 2 Kedron State High School .....</i>	<i>38</i>
<i>Station 3 Lewis Street.....</i>	<i>39</i>
<i>Station 4 Airport Link Operation Centre .....</i>	<i>40</i>
<i>Station 5 Bryden St.....</i>	<i>41</i>

## 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 nine readings over the relevant Air Quality Standards during the reporting period.

AirportlinkM7 AQMS Exceedence Reporting August 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences August 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
PM <sub>2.5</sub>	24 hour	25 µg/m <sup>3</sup>	2	0	1	0	3
PM <sub>10</sub>	24 hour	50 µg/m <sup>3</sup>	0	0	0	0	3

Table 1 Exceedence Reporting

PM<sub>2.5</sub> at Station 1 (AHS) exceeded the 24 hour average maximum allowed concentration of 25 µg/m<sup>3</sup> two times.

- A reading of 31.6 µg/m<sup>3</sup> was recorded on 8/08/2015
- A reading of 27.0 µg/m<sup>3</sup> was recorded on 10/08/2015

PM<sub>2.5</sub> at Station 3 (LS) exceeded the 24 hour average maximum allowed concentration of 25 µg/m<sup>3</sup> one time.

- A reading of 27.8 µg/m<sup>3</sup> was recorded on 8/08/2015

PM<sub>2.5</sub> at Station 5 (BS) exceeded the 24 hour average maximum allowed concentration of 25 µg/m<sup>3</sup> three times.

- A reading of 45.0 µg/m<sup>3</sup> was recorded on 8/08/2015
- A reading of 42.0 µg/m<sup>3</sup> was recorded on 9/08/2015
- A reading of 43.7 µg/m<sup>3</sup> was recorded on 10/08/2015

PM<sub>10</sub> at Station 5 (BS) exceeded the 24 hour average maximum allowed concentration of 50 µg/m<sup>3</sup> three times.

- A reading of 53.3 µg/m<sup>3</sup> was recorded on 8/08/2015
- A reading of 51.2 µg/m<sup>3</sup> was recorded on 9/08/2015
- A reading of 58.1 µg/m<sup>3</sup> was recorded on 10/08/2015

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

It should be noted that the Royal Queensland Show ran from 7/08/2015 – 16/08/2015 at the Brisbane Showgrounds, with fireworks taking place on the evenings of the 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> of August. The Brisbane Showgrounds are located approximately 1 kilometre south of Station 5 (Bryden Street).

## 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

- 201508 ALM7 Monthly Validated Data Spreadsheets.xlsx
  - Sheet 1 – 5 minute average data
  - Sheet 2 – 1 hour average data
  - Sheet 3 – 8 hour average data
  - Sheet 4 – 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	27/08/15	27/08/15	27/08/15	28/08/15	28/08/15
CO	ppm	2.56%	AS 3580.7.1	27/08/15	27/08/15	27/08/15	28/08/15	28/08/15
PM <sub>10</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.11	28/08/15*	28/08/15	27/08/15*	28/08/15*	28/08/15
PM <sub>2.5</sub>	µg/m <sup>3</sup>	3.21 µg/m <sup>3</sup>	AS 3580.9.12 / EQPM 0308-170	28/08/15	28/08/15	27/08/15	28/08/15	28/08/15
TSP	µg/m <sup>3</sup>	7.34%	AS 3580.9.3	22/07/15	22/07/15	22/07/15	22/07/15	22/07/15

Table 3 Instrumentation Details

\* These sites have TEOMs installed operating under method AS 3580.9.8

## 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 9 out of 12 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 August 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	0.010	0.2	10.4	16.4
Min 1hr Average	-0.002	-0.3	-1.0	2.8
Max 1hr Average	0.037	1.0	109.8	99.3
Max 8hr Rolling Average	N/A	0.9	N/A	N/A
Max 24hr Average	N/A	N/A	<b>31.6</b>	33.8
Capture Rate (%)	91.4	95.2	97.2	97.0

Table 4 Station 1 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

### Nitrogen Dioxide Summary

#### Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary August 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		
1/08/2015	0.013	0.002	0.024	19:00	0	95.8
2/08/2015	0.007	0.000	0.017	0:00	0	95.8
3/08/2015	0.009	-0.001	0.025	19:00	0	95.8
4/08/2015	0.009	-0.002	0.028	17:00	0	95.8
5/08/2015	0.003	-0.002	0.023	6:00	0	95.8
6/08/2015	0.006	-0.001	0.019	6:00	0	95.8
7/08/2015	0.016	-0.001	0.037	18:00	0	95.8
8/08/2015	0.015	0.001	0.035	19:00	0	95.8
9/08/2015	0.011	-0.001	0.023	19:00	0	95.8
10/08/2015	0.013	0.003	0.025	8:00	0	95.8
11/08/2015	0.015	0.006	0.026	8:00	0	95.8
12/08/2015	0.008	-0.002	0.021	7:00	0	95.8
<sup>1</sup> 13/08/2015	-	-	-	-	0	16.7
<sup>1</sup> 14/08/2015	-	-	-	-	0	47.8
15/08/2015	0.012	-0.001	0.022	22:00	0	95.8
16/08/2015	0.006	0.000	0.020	0:00	0	95.8
17/08/2015	0.011	0.004	0.022	8:00	0	95.8
18/08/2015	0.015	0.002	0.031	20:00	0	95.8
19/08/2015	0.010	0.001	0.021	0:00	0	95.8
20/08/2015	0.008	0.001	0.020	20:00	0	95.8
21/08/2015	0.009	0.001	0.022	7:00	0	95.8
22/08/2015	0.007	0.000	0.013	22:00	0	95.8
23/08/2015	0.004	-0.001	0.013	8:00	0	95.8
24/08/2015	0.007	0.001	0.017	6:00	0	95.8
25/08/2015	0.011	0.003	0.022	19:00	0	95.8
26/08/2015	0.010	0.003	0.020	22:00	0	95.8
27/08/2015	0.021	0.008	0.028	18:00	0	87.5
28/08/2015	0.013	0.002	0.025	20:00	0	95.8
29/08/2015	0.010	0.001	0.019	19:00	0	95.8
30/08/2015	0.003	-0.001	0.014	20:00	0	95.8
31/08/2015	0.009	-0.001	0.027	18:00	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

1.No data due to instrument fault

*Carbon Monoxide Summary*

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary August 2015								
Date	1 hr Avgs				8 hr Rolling Avgs		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
	24 hr Avg (ppm)	Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/08/2015	0.3	0.1	0.8	00:00	0.7	02:00	0	96.5
2/08/2015	0.3	0.1	0.6	3:00	0.5	7:00	0	96.5
3/08/2015	0.3	0.1	0.7	7:00	0.4	10:00	0	96.2
4/08/2015	0.2	0.1	0.3	18:00	0.2	21:00	0	96.9
5/08/2015	0.1	0.1	0.3	6:00	0.2	0:00	0	95.8
6/08/2015	0.2	0.1	0.3	7:00	0.2	22:00	0	96.2
7/08/2015	0.4	0.1	1.0	20:00	0.7	23:00	0	96.2
8/08/2015	0.5	0.1	1.0	0:00	0.9	2:00	0	96.5
9/08/2015	0.3	0.1	0.8	2:00	0.8	2:00	0	96.2
10/08/2015	0.3	0.1	0.9	02:00	0.7	7:00	0	96.2
11/08/2015	0.1	-0.1	0.3	7:00	0.2	13:00	0	96.5
12/08/2015	0.0	-0.3	0.3	0:00	0.2	7:00	0	96.2
13/08/2015	0.1	0.0	0.2	17:00	0.2	22:00	0	95.5
14/08/2015	0.3	0.1	0.9	22:00	0.5	23:00	0	86.8
15/08/2015	0.3	0.1	0.8	0:00	0.7	2:00	0	96.5
16/08/2015	0.2	0.1	0.7	0:00	0.4	2:00	0	96.5
17/08/2015	0.3	0.1	0.6	6:00	0.4	8:00	0	95.8
18/08/2015	0.3	0.1	0.7	7:00	0.4	23:00	0	95.8
19/08/2015	0.2	0.1	0.4	0:00	0.5	2:00	0	96.5
20/08/2015	0.2	0.1	0.4	22:00	0.3	23:00	0	96.2
21/08/2015	0.2	0.1	0.4	8:00	0.3	1:00	0	96.9
22/08/2015	0.2	0.1	0.3	6:00	0.3	8:00	0	96.9
23/08/2015	0.1	0.0	0.3	8:00	0.3	9:00	0	96.9
24/08/2015	0.1	0.1	0.3	7:00	0.2	10:00	0	96.5
25/08/2015	0.3	0.1	0.6	7:00	0.3	12:00	0	95.1
26/08/2015	0.2	0.1	0.4	22:00	0.3	0:00	0	96.2
27/08/2015	0.4	0.2	0.6	21:00	0.5	23:00	0	90.3
28/08/2015	0.3	0.1	0.6	21:00	0.5	1:00	0	96.2
29/08/2015	0.2	0.1	0.5	0:00	0.5	2:00	0	96.2
30/08/2015	0.2	0.1	0.2	20:00	0.3	1:00	0	96.2
31/08/2015	0.2	0.1	0.4	21:00	0.2	23:00	0	96.2

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 August 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		
1/08/2015	11.6	3.2	19.3	22:00	0	100.0
2/08/2015	10.8	3.3	19.9	3:00	0	95.8
3/08/2015	8.9	2.3	15.7	20:00	0	100.0
4/08/2015	7.3	3.0	15.3	19:00	0	100.0
5/08/2015	4.8	0.3	9.7	18:00	0	100.0
6/08/2015	5.2	-1.0	9.8	18:00	0	87.5
7/08/2015	9.8	1.2	27.8	22:00	0	100.0
8/08/2015	<b>31.6</b>	1.0	109.8	2:00	1	100.0
9/08/2015	21.1	2.5	80.8	3:00	0	100.0
10/08/2015	27.0	8.8	108.2	3:00	1	100.0
11/08/2015	14.1	8.3	20.9	7:00	0	95.8
12/08/2015	12.6	5.3	29.7	16:00	0	100.0
13/08/2015	5.9	0.1	10.8	17:00	0	83.3
14/08/2015	7.4	0.0	22.8	23:00	0	95.8
15/08/2015	16.5	6.3	36.1	23:00	0	100.0
16/08/2015	10.9	-0.8	55.8	18:00	0	100.0
17/08/2015	6.9	2.3	18.8	8:00	0	100.0
18/08/2015	9.6	4.0	18.5	20:00	0	100.0
19/08/2015	9.9	4.0	16.8	0:00	0	100.0
20/08/2015	8.2	4.0	15.8	1:00	0	100.0
21/08/2015	7.0	2.3	16.0	9:00	0	100.0
22/08/2015	8.0	3.0	14.5	8:00	0	95.8
23/08/2015	7.5	0.0	15.2	4:00	0	100.0
24/08/2015	8.1	0.3	23.8	6:00	0	95.8
25/08/2015	6.9	1.1	15.1	2:00	0	100.0
26/08/2015	7.8	0.0	17.8	17:00	0	91.7
27/08/2015	9.8	5.0	15.8	0:00	0	91.7
28/08/2015	7.5	-0.8	18.7	4:00	0	100.0
29/08/2015	7.1	1.4	12.7	22:00	0	100.0
30/08/2015	6.8	2.2	14.5	1:00	0	79.2
31/08/2015	4.4	-0.8	10.8	17:00	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 August 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		
1/08/2015	18.5	12.9	28.2	08:00	0	100.0
2/08/2015	14.2	7.6	22.5	7:00	0	100.0
3/08/2015	17.0	5.1	32.4	15:00	0	95.8
4/08/2015	18.8	3.8	38.7	17:00	0	100.0
5/08/2015	9.5	3.1	14.7	16:00	0	100.0
6/08/2015	11.8	5.2	74.5	15:00	0	100.0
7/08/2015	20.6	5.9	45.3	23:00	0	100.0
8/08/2015	<b>33.8</b>	5.9	99.3	1:00	0	100.0
9/08/2015	22.8	5.3	71.9	2:00	0	100.0
10/08/2015	29.1	8.3	95.1	2:00	0	100.0
11/08/2015	22.9	9.4	38.0	13:00	0	100.0
12/08/2015	19.3	6.7	37.6	13:00	0	95.8
13/08/2015	10.9	5.9	19.9	0:00	0	100.0
14/08/2015	15.2	7.6	24.6	22:00	0	100.0
15/08/2015	21.9	11.0	36.7	23:00	0	100.0
16/08/2015	11.7	4.7	27.9	0:00	0	95.8
17/08/2015	14.1	3.9	28.2	7:00	0	100.0
18/08/2015	17.3	5.1	32.4	18:00	0	100.0
19/08/2015	17.1	9.0	25.5	9:00	0	100.0
20/08/2015	15.2	8.4	22.4	9:00	0	100.0
21/08/2015	12.0	6.7	25.5	8:00	0	95.8
22/08/2015	11.3	6.7	23.5	7:00	0	100.0
23/08/2015	12.3	8.0	19.5	8:00	0	95.8
24/08/2015	13.5	2.8	24.8	14:00	0	100.0
25/08/2015	15.3	5.7	28.0	7:00	0	100.0
26/08/2015	15.9	3.9	29.4	16:00	0	87.5
27/08/2015	19.1	5.1	35.5	14:00	0	91.7
28/08/2015	13.3	2.9	23.0	14:00	0	87.5
29/08/2015	12.3	7.2	21.2	17:00	0	100.0
30/08/2015	9.1	3.2	42.8	18:00	0	70.8
31/08/2015	10.2	2.9	25.0	14:00	0	91.7

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 August 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	0.011	0.2	6.6	16.3
Min 1hr Average	0.002	0.0	-1.0	0.2
Max 1hr Average	0.041	0.9	104.6	115.3
Max 8hr Rolling Average	N/A	0.8	N/A	N/A
Max 24hr Average	N/A	N/A	19.0	29.3
Capture Rate (%)	95.4	95.4	91.7	96.2

Table 9 Station 2 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>



### Nitrogen Dioxide Summary

#### Station 2 Kedron State High School Ambient AQMS Nitrogen Dioxide Summary August 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		
1/08/2015	0.013	0.003	0.024	21:00	0	95.8
2/08/2015	0.008	0.003	0.019	0:00	0	95.8
3/08/2015	0.010	0.003	0.027	19:00	0	95.8
4/08/2015	0.012	0.002	0.027	6:00	0	95.8
5/08/2015	0.007	0.002	0.017	6:00	0	95.8
6/08/2015	0.007	0.002	0.021	6:00	0	95.8
7/08/2015	0.015	0.003	0.034	20:00	0	95.8
8/08/2015	0.016	0.004	0.029	21:00	0	95.8
9/08/2015	0.012	0.004	0.023	0:00	0	95.8
10/08/2015	0.012	0.004	0.021	6:00	0	95.8
11/08/2015	0.016	0.005	0.028	11:00	0	95.8
12/08/2015	0.009	0.002	0.017	2:00	0	95.8
13/08/2015	0.005	0.002	0.013	17:00	0	95.8
14/08/2015	0.014	0.005	0.028	21:00	0	95.8
15/08/2015	0.016	0.004	0.028	2:00	0	95.8
16/08/2015	0.009	0.004	0.019	23:00	0	95.8
17/08/2015	0.011	0.004	0.019	21:00	0	95.8
18/08/2015	0.015	0.003	0.032	20:00	0	95.8
19/08/2015	0.014	0.003	0.029	6:00	0	91.7
20/08/2015	0.014	0.003	0.026	6:00	0	95.8
21/08/2015	0.013	0.004	0.026	6:00	0	95.8
22/08/2015	0.008	0.002	0.018	0:00	0	95.8
23/08/2015	0.005	0.002	0.010	8:00	0	95.8
24/08/2015	0.006	0.003	0.013	6:00	0	95.8
25/08/2015	0.012	0.003	0.024	19:00	0	95.8
26/08/2015	0.011	0.003	0.020	23:00	0	95.8
27/08/2015	0.022	0.011	0.041	8:00	0	87.5
28/08/2015	0.014	0.003	0.026	20:00	0	95.8
29/08/2015	0.013	0.003	0.020	18:00	0	95.8
30/08/2015	0.006	0.003	0.011	19:00	0	95.8
31/08/2015	0.009	0.003	0.023	18:00	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 August 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		
1/08/2015	0.2	0.1	0.7	00:00	0.5	02:00	0	96.9
2/08/2015	0.2	0.0	0.5	2:00	0.4	4:00	0	96.9
3/08/2015	0.2	0.0	0.5	7:00	0.3	8:00	0	96.9
4/08/2015	0.1	0.0	0.3	18:00	0.2	0:00	0	96.9
5/08/2015	0.0	0.0	0.1	6:00	0.1	0:00	0	96.9
6/08/2015	0.1	0.0	0.2	20:00	0.2	23:00	0	96.9
7/08/2015	0.3	0.1	0.9	23:00	0.6	23:00	0	96.9
8/08/2015	0.4	0.1	0.8	0:00	0.8	2:00	0	96.9
9/08/2015	0.3	0.1	0.9	0:00	0.6	2:00	0	96.9
10/08/2015	0.3	0.1	0.6	7:00	0.5	3:00	0	96.9
11/08/2015	0.3	0.2	0.5	7:00	0.3	11:00	0	96.9
12/08/2015	0.2	0.0	0.4	6:00	0.3	7:00	0	96.9
13/08/2015	0.1	0.0	0.2	17:00	0.1	23:00	0	96.9
14/08/2015	0.2	0.0	0.7	23:00	0.4	23:00	0	96.9
15/08/2015	0.3	0.1	0.7	0:00	0.5	3:00	0	96.5
16/08/2015	0.2	0.1	0.5	0:00	0.4	2:00	0	96.9
17/08/2015	0.2	0.0	0.4	7:00	0.3	2:00	0	96.9
18/08/2015	0.2	0.0	0.5	7:00	0.3	23:00	0	96.9
19/08/2015	0.2	0.1	0.4	6:00	0.3	2:00	0	94.4
20/08/2015	0.2	0.1	0.3	6:00	0.2	9:00	0	96.9
21/08/2015	0.2	0.1	0.4	7:00	0.3	23:00	0	96.9
22/08/2015	0.2	0.1	0.3	7:00	0.3	1:00	0	96.9
23/08/2015	0.1	0.1	0.2	5:00	0.2	6:00	0	96.9
24/08/2015	0.1	0.1	0.2	7:00	0.1	23:00	0	96.9
25/08/2015	0.2	0.1	0.5	22:00	0.3	23:00	0	96.9
26/08/2015	0.1	0.0	0.4	0:00	0.4	1:00	0	96.9
27/08/2015	0.3	0.1	0.6	21:00	0.5	23:00	0	91.7
28/08/2015	0.2	0.1	0.5	22:00	0.5	0:00	0	96.9
29/08/2015	0.2	0.1	0.4	0:00	0.4	1:00	0	96.9
30/08/2015	0.1	0.0	0.2	0:00	0.2	0:00	0	96.9
31/08/2015	0.1	0.0	0.2	21:00	0.1	22:00	0	96.9

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

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

**Station 2 Kedron State High School Ambient AQMS Particulate PM<sub>2.5</sub> Summary August 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		
1/08/2015	8.8	2.1	20.2	01:00	0	100.0
2/08/2015	7.3	-0.9	16.4	0:00	0	100.0
3/08/2015	3.8	-0.9	8.7	6:00	0	100.0
<sup>1</sup> 4/08/2015	-	-	-	-	0	41.7
5/08/2015	2.3	-1.0	4.0	10:00	0	87.0
<sup>1</sup> 6/08/2015	-	-1.0	5.0	8:00	0	73.9
<sup>1</sup> 7/08/2015	-	-	-	-	0	54.2
<sup>1</sup> 8/08/2015	-	-	-	-	0	34.8
9/08/2015	<b>19.0</b>	2.0	104.6	2:00	0	100.0
10/08/2015	14.8	0.1	75.8	2:00	0	100.0
11/08/2015	10.4	4.4	16.5	10:00	0	100.0
12/08/2015	8.0	2.0	17.6	7:00	0	100.0
13/08/2015	1.4	-1.0	3.0	20:00	0	87.5
14/08/2015	5.0	0.2	13.8	23:00	0	100.0
15/08/2015	13.1	1.5	34.0	1:00	0	100.0
16/08/2015	7.0	0.0	20.5	1:00	0	95.8
17/08/2015	5.0	1.0	16.1	9:00	0	100.0
18/08/2015	6.5	1.1	13.6	23:00	0	100.0
19/08/2015	8.2	1.2	17.5	6:00	0	100.0
20/08/2015	6.6	1.1	12.6	8:00	0	100.0
21/08/2015	4.1	-0.8	9.8	8:00	0	100.0
22/08/2015	6.3	3.1	14.3	9:00	0	91.7
23/08/2015	5.2	2.1	9.0	0:00	0	100.0
24/08/2015	2.9	-0.8	4.9	18:00	0	100.0
25/08/2015	4.9	2.1	11.6	21:00	0	100.0
26/08/2015	5.6	0.3	10.8	22:00	0	100.0
27/08/2015	8.4	3.0	12.8	21:00	0	91.7
28/08/2015	6.0	0.1	14.4	1:00	0	100.0
29/08/2015	5.4	0.3	9.8	5:00	0	100.0
30/08/2015	3.5	-1.0	9.7	20:00	0	100.0
31/08/2015	2.1	-0.8	3.9	10:00	0	91.7

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

1.Loss of data due to intermittent instrument fault

**PM<sub>10</sub> Summary**
**Station 2 Kedron State High School Ambient AQMS Particulate PM10 Summary August 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		
1/08/2015	-	-	-	-	0	37.5
2/08/2015	15.3	7.1	27.0	1:00	0	91.7
3/08/2015	14.4	8.1	27.4	15:00	0	100.0
4/08/2015	18.0	3.1	34.2	20:00	0	95.8
5/08/2015	8.5	4.1	12.7	18:00	0	95.8
6/08/2015	6.7	2.0	16.3	11:00	0	100.0
7/08/2015	14.0	0.2	33.0	23:00	0	100.0
18/08/2015	-	14.6	85.1	1:00	0	79.2
9/08/2015	<b>29.3</b>	9.8	115.3	2:00	0	100.0
10/08/2015	26.4	10.8	79.6	2:00	0	100.0
11/08/2015	25.9	9.1	46.9	14:00	0	100.0
12/08/2015	21.3	9.5	33.0	13:00	0	100.0
13/08/2015	13.9	0.3	35.8	12:00	0	100.0
14/08/2015	14.6	5.0	27.7	14:00	0	100.0
15/08/2015	24.6	14.5	38.3	1:00	0	100.0
16/08/2015	14.3	5.3	30.0	0:00	0	95.8
17/08/2015	13.5	8.0	21.7	14:00	0	100.0
18/08/2015	16.9	8.3	28.5	19:00	0	100.0
19/08/2015	18.2	10.1	28.0	10:00	0	100.0
20/08/2015	18.9	11.8	38.3	9:00	0	100.0
21/08/2015	12.5	7.1	21.5	9:00	0	100.0
22/08/2015	13.3	8.3	22.0	13:00	0	100.0
23/08/2015	13.3	7.3	18.5	16:00	0	100.0
24/08/2015	13.9	3.1	21.0	20:00	0	100.0
25/08/2015	16.5	8.6	31.6	15:00	0	100.0
26/08/2015	14.8	7.0	24.5	15:00	0	100.0
27/08/2015	18.9	10.1	35.7	10:00	0	91.7
28/08/2015	10.8	2.2	19.4	3:00	0	95.8
29/08/2015	11.6	6.4	19.0	14:00	0	100.0
30/08/2015	8.2	2.1	22.8	20:00	0	100.0
31/08/2015	7.1	1.5	16.4	11:00	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 13 Station 2 PM<sub>10</sub> Monthly Summary

1. Loss of data due to intermittent instrument fault

## Station 3 (Lewis Street)

### Summary

Station 3 Lewis St Ambient AQMS Summary August 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	0.011	0.4	6.1	15.2
Min 1hr Average	0.002	0.1	-1.0	1.4
Max 1hr Average	0.032	1.2	105.2	89.5
Max 8hr Rolling Average	N/A	1.1	N/A	N/A
Max 24hr Average	N/A	N/A	27.8	30.8
Capture Rate (%)	95.6	95.6	89.0	98.1

Table 14 Station 3 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

### Nitrogen Dioxide Summary

#### Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary August 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		
1/08/2015	0.013	0.004	0.021	8:00	0	95.8
2/08/2015	0.008	0.003	0.017	8:00	0	95.8
3/08/2015	0.010	0.003	0.019	19:00	0	95.8
4/08/2015	0.011	0.002	0.028	18:00	0	95.8
5/08/2015	0.004	0.002	0.011	7:00	0	95.8
6/08/2015	0.006	0.002	0.016	19:00	0	95.8
7/08/2015	0.015	0.005	0.031	18:00	0	95.8
8/08/2015	0.017	0.005	0.030	19:00	0	95.8
9/08/2015	0.014	0.004	0.024	0:00	0	95.8
10/08/2015	0.012	0.005	0.026	9:00	0	95.8
11/08/2015	0.016	0.009	0.027	11:00	0	95.8
12/08/2015	0.009	0.002	0.022	0:00	0	95.8
13/08/2015	0.004	0.002	0.007	18:00	0	95.8
14/08/2015	0.014	0.005	0.027	20:00	0	95.8
15/08/2015	0.016	0.006	0.023	4:00	0	95.8
16/08/2015	0.011	0.004	0.019	0:00	0	95.8
17/08/2015	0.012	0.005	0.020	8:00	0	95.8
18/08/2015	0.016	0.004	0.029	20:00	0	95.8
19/08/2015	0.015	0.008	0.023	6:00	0	95.8
20/08/2015	0.013	0.006	0.021	20:00	0	95.8
21/08/2015	0.013	0.007	0.024	7:00	0	95.8
22/08/2015	0.009	0.003	0.015	7:00	0	95.8
23/08/2015	0.006	0.003	0.013	8:00	0	95.8
24/08/2015	0.007	0.003	0.016	6:00	0	95.8
25/08/2015	0.012	0.003	0.024	18:00	0	95.8
26/08/2015	0.010	0.003	0.019	7:00	0	95.8
27/08/2015	0.022	0.011	0.032	8:00	0	87.5
28/08/2015	0.014	0.003	0.025	19:00	0	95.83
29/08/2015	0.014	0.005	0.022	18:00	0	95.83
30/08/2015	0.005	0.002	0.012	20:00	0	95.83
31/08/2015	0.009	0.003	0.025	20:00	0	95.83

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 August 2015

Date	24 hr Avg (ppm)	1 hr Avgs			8 hr Rolling Avgs		No. of exceedences	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max	8hr Avg > 8.0 ppm	
1/08/2015	0.5	0.4	1.0	00:00	0.8	03:00	0	95.5
2/08/2015	0.4	0.3	0.7	2:00	0.7	4:00	0	96.5
3/08/2015	0.4	0.3	0.7	7:00	0.4	20:00	0	96.9
4/08/2015	0.3	0.2	0.4	19:00	0.4	0:00	0	96.9
5/08/2015	0.2	0.2	0.3	7:00	0.3	0:00	0	96.9
6/08/2015	0.3	0.2	0.4	7:00	0.3	8:00	0	96.9
7/08/2015	0.5	0.2	1.2	21:00	0.9	23:00	0	96.9
8/08/2015	0.6	0.3	1.1	0:00	1.1	3:00	0	96.9
9/08/2015	0.5	0.3	0.9	2:00	0.9	2:00	0	96.9
10/08/2015	0.6	0.4	1.1	03:00	0.9	04:00	0	96.9
11/08/2015	0.5	0.4	0.7	8:00	0.5	13:00	0	96.9
12/08/2015	0.4	0.2	0.6	7:00	0.5	7:00	0	96.9
13/08/2015	0.2	0.2	0.2	17:00	0.2	0:00	0	96.9
14/08/2015	0.5	0.3	1.0	23:00	0.7	23:00	0	96.9
15/08/2015	0.5	0.4	0.9	0:00	0.8	3:00	0	95.8
16/08/2015	0.5	0.3	0.7	0:00	0.6	2:00	0	96.9
17/08/2015	0.4	0.3	0.6	7:00	0.5	1:00	0	96.2
18/08/2015	0.4	0.2	0.7	21:00	0.5	23:00	0	96.9
19/08/2015	0.4	0.3	0.6	0:00	0.6	2:00	0	96.9
20/08/2015	0.4	0.3	0.4	9:00	0.4	0:00	0	96.9
21/08/2015	0.4	0.3	0.6	7:00	0.5	23:00	0	96.9
22/08/2015	0.4	0.3	0.5	7:00	0.5	2:00	0	96.9
23/08/2015	0.3	0.3	0.5	8:00	0.4	8:00	0	96.9
24/08/2015	0.3	0.3	0.4	6:00	0.3	23:00	0	96.9
25/08/2015	0.4	0.3	0.5	7:00	0.5	23:00	0	96.9
26/08/2015	0.3	0.1	0.5	0:00	0.5	1:00	0	96.9
27/08/2015	0.4	0.2	0.7	21:00	0.6	22:00	0	89.9
28/08/2015	0.4	0.3	0.7	22:00	0.6	1:00	0	96.9
29/08/2015	0.4	0.3	0.6	0:00	0.5	2:00	0	96.9
30/08/2015	0.2	0.2	0.4	0:00	0.4	1:00	0	96.9
31/08/2015	0.3	0.2	0.4	20:00	0.3	21:00	0	96.9

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 August 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		
1/08/2015	6.8	1.0	19.9	1:00	0	100.0
<sup>1</sup> 2/08/2015	-	-1.0	18.1	1:00	0	75.0
3/08/2015	3.2	0.0	5.9	8:00	0	100.0
<sup>1</sup> 4/08/2015	-	-1.0	6.9	20:00	0	79.2
<sup>1</sup> 5/08/2015	-	-	-	-	0	66.7
<sup>1</sup> 6/08/2015	-	-	-	-	0	69.6
7/08/2015	5.1	-1.0	23.6	21:00	0	100.0
8/08/2015	<b>27.8</b>	1.0	84.0	4:00	1	83.3
9/08/2015	19.4	1.0	95.0	2:00	0	100.0
10/08/2015	20.8	-0.1	105.2	4:00	0	100.0
11/08/2015	8.3	3.3	13.8	10:00	0	100.0
12/08/2015	6.8	0.0	17.2	8:00	0	91.7
<sup>1</sup> 13/08/2015	-	-1.0	1.9	19:00	0	75.0
14/08/2015	3.5	-0.9	15.9	14:00	0	100.0
15/08/2015	11.2	-0.8	25.7	2:00	0	100.0
16/08/2015	5.8	0.2	23.0	0:00	0	95.8
17/08/2015	2.9	-1.0	8.7	9:00	0	91.7
18/08/2015	4.8	-0.9	13.0	22:00	0	100.0
19/08/2015	6.2	2.0	11.0	8:00	0	100.0
20/08/2015	3.5	-0.9	7.0	10:00	0	100.0
21/08/2015	1.8	-1.0	5.9	9:00	0	100.0
22/08/2015	3.9	-0.9	12.0	9:00	0	100.0
23/08/2015	2.7	-1.0	7.7	9:00	0	87.5
<sup>1</sup> 24/08/2015	-	-	-	-	0	65.2
25/08/2015	3.2	-0.8	7.0	14:00	0	91.3
<sup>1</sup> 26/08/2015	-	-0.8	7.1	23:00	0	79.2
27/08/2015	6.1	1.4	15.0	3:00	0	91.7
<sup>1</sup> 28/08/2015	-	0.2	8.9	0:00	0	79.2
29/08/2015	4.0	-1.0	8.0	6:00	0	95.8
<sup>1</sup> 30/08/2015	-	-1.0	10.6	21:00	0	79.2
<sup>1</sup> 31/08/2015	-	-0.9	6.6	22:00	0	73.9

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

1. Loss of data due to intermittent instrument fault



**PM<sub>10</sub> Summary**
**Station 3 Lewis St Ambient AQMS Particulate PM10 Summary August 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		
1/08/2015	17.6	12.3	29.7	8:00	0	100.0
2/08/2015	14.3	8.4	26.5	7:00	0	100.0
3/08/2015	15.6	4.9	30.8	7:00	0	100.0
4/08/2015	18.4	3.0	33.7	17:00	0	100.0
5/08/2015	10.1	4.8	18.7	17:00	0	100.0
6/08/2015	8.4	5.2	18.7	7:00	0	100.0
7/08/2015	19.6	6.3	43.4	23:00	0	100.0
8/08/2015	<b>30.8</b>	6.5	77.0	0:00	0	100.0
9/08/2015	23.6	7.9	79.9	1:00	0	100.0
10/08/2015	25.1	6.3	89.5	3:00	0	100.0
11/08/2015	21.4	5.6	41.5	13:00	0	100.0
12/08/2015	17.0	9.1	30.7	7:00	0	95.8
13/08/2015	11.0	7.1	21.1	0:00	0	100.0
14/08/2015	14.2	5.4	23.3	13:00	0	100.0
15/08/2015	21.2	12.3	27.8	18:00	0	100.0
16/08/2015	12.1	5.7	24.0	0:00	0	100.0
17/08/2015	11.9	5.7	28.5	7:00	0	95.8
18/08/2015	15.7	5.3	29.9	7:00	0	100.0
19/08/2015	16.7	8.1	24.4	7:00	0	100.0
20/08/2015	15.3	8.7	21.1	9:00	0	100.0
21/08/2015	12.0	6.5	20.5	8:00	0	95.8
22/08/2015	11.0	7.4	21.1	7:00	0	100.0
23/08/2015	11.7	6.8	19.5	8:00	0	100.0
24/08/2015	11.9	3.3	17.7	14:00	0	100.0
25/08/2015	14.5	5.9	25.1	16:00	0	100.0
26/08/2015	13.5	5.1	23.5	17:00	0	91.7
27/08/2015	15.5	8.5	33.5	8:00	0	91.7
28/08/2015	10.5	3.1	19.5	14:00	0	95.8
29/08/2015	11.6	7.0	18.0	17:00	0	100.0
30/08/2015	7.7	1.4	40.0	18:00	0	83.3
31/08/2015	8.9	1.5	17.4	9:00	0	91.7

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 August 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	0.013	0.4	6.1	13.9
Min 1hr Average	0.002	0.2	-1.0	2.1
Max 1hr Average	0.040	0.9	107.7	90.3
Max 8hr Rolling Average	N/A	0.7	N/A	N/A
Max 24hr Average	N/A	N/A	20.3	22.4
Capture Rate (%)	95.4	95.4	83.3	98.4

Table 19 Station 4 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

### Nitrogen Dioxide Summary

#### Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary August 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		
1/08/2015	0.015	0.007	0.027	23:00	0	95.8
2/08/2015	0.012	0.005	0.025	0:00	0	95.8
3/08/2015	0.014	0.003	0.032	19:00	0	95.8
4/08/2015	0.013	0.002	0.034	18:00	0	95.8
5/08/2015	0.006	0.002	0.020	6:00	0	95.8
6/08/2015	0.006	0.002	0.017	6:00	0	95.8
7/08/2015	0.016	0.002	0.040	19:00	0	95.8
8/08/2015	0.018	0.007	0.036	19:00	0	95.8
9/08/2015	0.013	0.006	0.030	19:00	0	95.8
10/08/2015	0.015	0.006	0.023	23:00	0	95.8
11/08/2015	0.020	0.009	0.031	11:00	0	95.8
12/08/2015	0.010	0.002	0.019	7:00	0	95.8
13/08/2015	0.004	0.002	0.010	17:00	0	95.8
14/08/2015	0.016	0.003	0.035	19:00	0	95.8
15/08/2015	0.017	0.010	0.028	2:00	0	95.8
16/08/2015	0.011	0.004	0.021	20:00	0	95.8
17/08/2015	0.013	0.007	0.019	18:00	0	95.8
18/08/2015	0.018	0.006	0.036	20:00	0	95.8
19/08/2015	0.016	0.009	0.030	18:00	0	95.8
20/08/2015	0.017	0.010	0.028	18:00	0	95.8
21/08/2015	0.017	0.008	0.025	8:00	0	95.8
22/08/2015	0.010	0.005	0.017	0:00	0	95.8
23/08/2015	0.008	0.003	0.013	0:00	0	95.8
24/08/2015	0.011	0.006	0.019	6:00	0	95.8
25/08/2015	0.014	0.002	0.027	19:00	0	95.8
26/08/2015	0.013	0.004	0.023	22:00	0	95.8
27/08/2015	0.024	0.009	0.037	8:00	0	95.8
28/08/2015	0.017	0.005	0.029	20:00	0	83.3
29/08/2015	0.013	0.008	0.018	21:00	0	95.8
30/08/2015	0.005	0.003	0.012	18:00	0	95.8
31/08/2015	0.007	0.002	0.018	18:00	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 August 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		
1/08/2015	0.4	0.3	0.7	23:00	0.7	1:00	0	96.9
2/08/2015	0.4	0.3	0.8	0:00	0.6	5:00	0	96.9
3/08/2015	0.4	0.3	0.7	19:00	0.5	10:00	0	96.9
4/08/2015	0.3	0.2	0.5	18:00	0.4	0:00	0	96.9
5/08/2015	0.2	0.2	0.3	6:00	0.3	0:00	0	96.9
6/08/2015	0.2	0.2	0.3	7:00	0.3	11:00	0	96.9
7/08/2015	0.4	0.2	0.9	23:00	0.7	23:00	0	96.9
8/08/2015	0.5	0.2	0.8	19:00	0.7	2:00	0	96.9
9/08/2015	0.5	0.3	0.8	2:00	0.7	02:00	0	96.9
10/08/2015	0.4	0.3	0.7	3:00	0.6	9:00	0	96.9
11/08/2015	0.5	0.4	0.7	7:00	0.6	13:00	0	96.9
12/08/2015	0.3	0.2	0.5	7:00	0.5	0:00	0	96.9
13/08/2015	0.2	0.2	0.2	17:00	0.2	23:00	0	96.9
14/08/2015	0.4	0.2	0.7	23:00	0.5	23:00	0	96.9
15/08/2015	0.4	0.3	0.7	0:00	0.6	2:00	0	96.9
16/08/2015	0.4	0.3	0.5	0:00	0.5	2:00	0	96.9
17/08/2015	0.4	0.3	0.5	7:00	0.4	8:00	0	96.9
18/08/2015	0.4	0.3	0.6	20:00	0.5	23:00	0	96.9
19/08/2015	0.4	0.3	0.5	18:00	0.5	1:00	0	96.5
20/08/2015	0.4	0.3	0.6	18:00	0.4	23:00	0	96.9
21/08/2015	0.4	0.3	0.5	8:00	0.4	0:00	0	96.9
22/08/2015	0.4	0.3	0.4	2:00	0.4	0:00	0	96.9
23/08/2015	0.3	0.3	0.4	2:00	0.4	8:00	0	96.9
24/08/2015	0.3	0.2	0.4	7:00	0.3	8:00	0	96.9
25/08/2015	0.4	0.3	0.6	23:00	0.5	23:00	0	96.9
26/08/2015	0.3	0.2	0.5	0:00	0.5	0:00	0	96.9
27/08/2015	0.5	0.3	0.7	9:00	0.6	22:00	0	96.9
28/08/2015	0.4	0.2	0.6	21:00	-	-	0	84.4
29/08/2015	0.3	0.3	0.4	0:00	0.5	1:00	0	96.9
30/08/2015	0.3	0.2	0.4	18:00	0.3	0:00	0	96.9
31/08/2015	0.2	0.2	0.3	5:00	0.3	0:00	0	96.9

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 August 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		
1/08/2015	6.6	2.1	17.0	1:00	0	100.0
<sup>1</sup> 2/08/2015	-	-1.0	17.3	9:00	0	79.2
<sup>1</sup> 3/08/2015	-	-0.7	9.9	9:00	0	75.0
4/08/2015	1.8	-1.0	5.7	16:00	0	87.0
<sup>1</sup> 5/08/2015	-	-1.0	5.8	7:00	0	75.0
<sup>1</sup> 6/08/2015	-	-	-	-	0	66.7
7/08/2015	5.1	-1.0	21.5	23:00	0	95.8
8/08/2015	19.3	2.4	92.1	0:00	0	100.0
9/08/2015	20.3	2.0	107.7	2:00	0	95.8
10/08/2015	11.7	0.0	49.0	4:00	0	83.3
11/08/2015	7.6	1.1	22.4	10:00	0	100.0
<sup>1</sup> 12/08/2015	-	-	-	-	0	70.8
<sup>1</sup> 13/08/2015	-	-	-	-	0	39.1
14/08/2015	5.9	-0.9	35.9	23:00	0	87.5
15/08/2015	11.5	2.2	34.6	0:00	0	100.0
16/08/2015	6.3	-0.6	24.4	0:00	0	95.8
<sup>1</sup> 17/08/2015	-	-	-	-	0	70.8
18/08/2015	5.1	-1.0	12.5	9:00	0	100.0
19/08/2015	5.4	1.1	10.8	0:00	0	100.0
20/08/2015	3.8	0.2	8.7	4:00	0	91.7
<sup>1</sup> 21/08/2015	-	1.0	5.0	11:00	0	79.2
22/08/2015	6.1	0.0	15.7	11:00	0	91.7
<sup>1</sup> 23/08/2015	-	-1.0	17.0	11:00	0	79.2
<sup>1</sup> 24/08/2015	-	-0.7	7.0	8:00	0	75.0
25/08/2015	1.7	-1.0	4.9	19:00	0	91.7
26/08/2015	3.6	-1.0	11.2	23:00	0	83.3
27/08/2015	7.3	-0.4	12.9	0:00	0	100.0
<sup>1</sup> 28/08/2015	-	-	-	-	0	70.8
29/08/2015	4.6	0.0	10.6	22:00	0	91.7
<sup>1</sup> 30/08/2015	-	-	-	-	0	70.8
<sup>1</sup> 31/08/2015	-	-	-	-	0	43.5

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

1. Loss of data due to intermittent instrument fault

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

**Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary August 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		
1/08/2015	14.8	10.4	30.4	0:00	0	100.0
2/08/2015	12.2	7.8	23.0	0:00	0	100.0
3/08/2015	14.0	6.6	24.9	19:00	0	100.0
4/08/2015	16.0	4.9	29.7	19:00	0	100.0
5/08/2015	8.6	3.3	14.6	16:00	0	100.0
6/08/2015	7.4	4.5	12.1	18:00	0	100.0
7/08/2015	17.0	5.7	78.6	23:00	0	100.0
8/08/2015	20.5	8.4	52.2	2:00	0	100.0
9/08/2015	22.4	7.3	90.3	1:00	0	100.0
10/08/2015	17.7	8.0	51.2	3:00	0	100.0
11/08/2015	20.7	10.1	36.2	13:00	0	100.0
12/08/2015	16.9	9.4	33.0	13:00	0	95.8
13/08/2015	10.9	6.4	19.4	1:00	0	100.0
14/08/2015	15.6	6.1	34.4	23:00	0	100.0
15/08/2015	19.7	12.5	30.9	0:00	0	100.0
16/08/2015	11.0	5.7	20.6	0:00	0	100.0
17/08/2015	11.2	3.0	18.7	17:00	0	100.0
18/08/2015	14.7	5.1	24.2	19:00	0	100.0
19/08/2015	15.1	10.3	21.9	9:00	0	100.0
20/08/2015	14.6	9.4	19.8	19:00	0	100.0
21/08/2015	11.8	4.7	18.8	8:00	0	95.8
22/08/2015	10.4	7.2	14.0	21:00	0	100.0
23/08/2015	10.4	7.0	14.3	12:00	0	100.0
24/08/2015	11.6	5.9	15.8	18:00	0	100.0
25/08/2015	14.9	7.5	29.9	16:00	0	100.0
26/08/2015	13.2	2.1	22.3	17:00	0	95.8
27/08/2015	16.7	7.6	28.7	14:00	0	100.0
28/08/2015	12.4	5.1	21.9	15:00	0	87.5
29/08/2015	10.8	5.4	21.4	16:00	0	100.0
30/08/2015	7.3	2.2	32.4	18:00	0	79.2
31/08/2015	7.6	4.0	14.1	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 23 Station 4 PM<sub>10</sub> Monthly Summary

## Station 5 (Bryden Street)

### Summary

Station 5 Bryden St Ambient AQMS Summary August 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	0.013	0.3	15.9	23.6
Min 1hr Average	0.000	0.0	-0.4	1.5
Max 1hr Average	0.041	1.9	239.4	262.5
Max 8hr Rolling Average	N/A	1.1	N/A	N/A
Max 24hr Average	N/A	N/A	45.0	58.1
Capture Rate (%)	95.4	95.3	97.4	99.5

Table 24 Station 5 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm  
 Maximum allowable NO<sub>2</sub> 1 hour average is 0.12 ppm  
 Maximum allowable PM<sub>2.5</sub> 24 hour average is 25 µg/m<sup>3</sup>  
 Maximum allowable PM<sub>10</sub> 24 hour average is 50 µg/m<sup>3</sup>

### Nitrogen Dioxide Summary

#### Station 5 Bryden St Ambient AQMS Nitrogen Dioxide Summary August 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		
1/08/2015	0.015	0.004	0.026	23:00	0	95.8
2/08/2015	0.011	0.002	0.026	0:00	0	95.8
3/08/2015	0.011	0.001	0.030	19:00	0	95.8
4/08/2015	0.013	0.001	0.026	6:00	0	95.8
5/08/2015	0.004	0.001	0.016	6:00	0	95.8
6/08/2015	0.008	0.001	0.024	6:00	0	95.8
7/08/2015	0.018	0.002	0.041	19:00	0	95.8
8/08/2015	0.019	0.004	0.038	19:00	0	95.8
9/08/2015	0.014	0.003	0.030	0:00	0	95.8
10/08/2015	0.015	0.004	0.026	8:00	0	95.8
11/08/2015	0.020	0.008	0.033	10:00	0	95.8
12/08/2015	0.010	0.001	0.020	0:00	0	95.8
13/08/2015	0.005	0.000	0.011	22:00	0	95.8
14/08/2015	0.018	0.004	0.036	20:00	0	95.8
15/08/2015	0.016	0.006	0.027	3:00	0	95.8
16/08/2015	0.011	0.003	0.021	0:00	0	95.8
17/08/2015	0.013	0.005	0.023	7:00	0	95.8
18/08/2015	0.018	0.007	0.036	20:00	0	95.8
19/08/2015	0.015	0.005	0.029	6:00	0	95.8
20/08/2015	0.015	0.005	0.024	6:00	0	95.8
21/08/2015	0.013	0.004	0.026	7:00	0	95.8
22/08/2015	0.009	0.002	0.019	0:00	0	95.8
23/08/2015	0.006	0.001	0.013	5:00	0	95.8
24/08/2015	0.008	0.003	0.014	7:00	0	95.8
25/08/2015	0.014	0.004	0.028	19:00	0	95.8
26/08/2015	0.013	0.003	0.026	22:00	0	95.8
27/08/2015	0.023	0.013	0.034	9:00	0	95.8
28/08/2015	0.015	0.003	0.030	20:00	0	83.3
29/08/2015	0.013	0.003	0.025	18:00	0	95.8
30/08/2015	0.005	0.002	0.016	20:00	0	95.8
31/08/2015	0.011	0.001	0.029	18:00	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 August 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		
1/08/2015	0.3	0.2	0.6	22:00	0.7	01:00	0	91.7
2/08/2015	0.3	0.1	0.7	0:00	0.5	2:00	0	95.8
3/08/2015	0.3	0.2	0.6	7:00	0.4	9:00	0	95.8
4/08/2015	0.2	0.1	0.3	19:00	0.3	0:00	0	95.8
5/08/2015	0.1	0.0	0.2	6:00	0.2	0:00	0	95.8
6/08/2015	0.1	0.1	0.3	7:00	0.2	8:00	0	95.8
7/08/2015	0.4	0.1	1.1	19:00	0.7	23:00	0	95.8
8/08/2015	0.5	0.1	1.4	0:00	1.0	2:00	0	95.8
9/08/2015	0.5	0.2	1.9	0:00	1.1	2:00	0	95.8
10/08/2015	0.5	0.2	1.6	0:00	1.0	3:00	0	95.8
11/08/2015	0.4	0.3	0.6	6:00	0.5	11:00	0	95.8
12/08/2015	0.3	0.1	0.6	7:00	0.4	7:00	0	95.8
13/08/2015	0.2	0.1	0.2	23:00	0.2	23:00	0	95.8
14/08/2015	0.4	0.1	0.9	22:00	0.6	23:00	0	95.8
15/08/2015	0.4	0.2	0.7	0:00	0.7	2:00	0	95.8
16/08/2015	0.2	0.2	0.5	0:00	0.5	2:00	0	95.8
17/08/2015	0.3	0.2	0.5	7:00	0.4	8:00	0	95.8
18/08/2015	0.3	0.1	0.7	20:00	0.4	23:00	0	95.8
19/08/2015	0.3	0.2	0.4	6:00	0.4	2:00	0	95.8
20/08/2015	0.3	0.2	0.3	8:00	0.3	0:00	0	95.8
21/08/2015	0.3	0.2	0.5	7:00	0.4	23:00	0	95.8
22/08/2015	0.3	0.2	0.4	7:00	0.4	1:00	0	95.8
23/08/2015	0.2	0.1	0.3	4:00	0.3	5:00	0	95.8
24/08/2015	0.2	0.1	0.3	7:00	0.2	8:00	0	95.8
25/08/2015	0.3	0.2	0.5	23:00	0.4	23:00	0	95.8
26/08/2015	0.2	0.1	0.5	7:00	0.4	1:00	0	95.8
27/08/2015	0.4	0.2	0.7	21:00	0.5	23:00	0	95.8
28/08/2015	0.3	0.1	0.5	21:00	0.5	0:00	0	83.3
29/08/2015	0.2	0.1	0.3	18:00	0.4	2:00	0	95.8
30/08/2015	0.2	0.1	0.4	0:00	0.3	0:00	0	95.8
31/08/2015	0.2	0.1	0.4	6:00	0.2	23:00	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 August 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		
1/08/2015	14.5	6.2	28.1	21:00	0	95.8
2/08/2015	14.9	6.7	28.2	0:00	0	91.7
3/08/2015	12.2	7.2	20.0	22:00	0	95.8
4/08/2015	11.7	3.5	29.8	18:00	0	100.0
5/08/2015	7.7	4.0	14.8	17:00	0	100.0
6/08/2015	8.5	1.4	24.0	19:00	0	95.8
7/08/2015	17.2	3.3	86.2	23:00	0	100.0
8/08/2015	<b>45.0</b>	2.4	190.9	1:00	1	100.0
9/08/2015	42.0	5.7	239.4	1:00	1	100.0
10/08/2015	43.7	7.5	224.5	2:00	1	100.0
11/08/2015	18.1	6.8	33.4	20:00	0	100.0
12/08/2015	16.5	5.8	28.3	6:00	0	100.0
13/08/2015	8.9	1.2	22.7	22:00	0	95.8
14/08/2015	14.2	6.0	30.0	21:00	0	95.8
15/08/2015	20.1	5.0	35.7	0:00	0	100.0
16/08/2015	12.9	1.4	25.2	3:00	0	95.8
17/08/2015	10.4	2.3	21.2	8:00	0	100.0
18/08/2015	12.8	6.3	24.2	19:00	0	100.0
19/08/2015	13.8	2.5	23.2	8:00	0	100.0
20/08/2015	11.1	4.3	24.2	22:00	0	100.0
21/08/2015	11.7	3.0	23.5	5:00	0	100.0
22/08/2015	12.7	6.0	24.0	18:00	0	95.8
23/08/2015	10.0	4.0	19.5	20:00	0	95.8
24/08/2015	10.8	-0.4	23.6	18:00	0	91.7
25/08/2015	12.4	2.0	24.5	6:00	0	95.8
26/08/2015	12.6	2.3	30.9	20:00	0	91.7
27/08/2015	16.2	3.3	27.8	16:00	0	95.8
28/08/2015	13.6	4.4	27.4	18:00	0	87.5
29/08/2015	12.2	3.3	21.0	16:00	0	100.0
30/08/2015	11.2	5.6	24.7	16:00	0	100.0
31/08/2015	9.9	1.1	20.9	17:00	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 August 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		
1/08/2015	22.1	13.7	32.1	09:00	0	100.0
2/08/2015	19.3	10.2	37.7	1:00	0	100.0
3/08/2015	21.2	11.3	34.9	16:00	0	100.0
4/08/2015	22.8	7.6	38.3	16:00	0	100.0
5/08/2015	20.8	10.2	37.7	8:00	0	100.0
6/08/2015	13.3	6.4	30.3	8:00	0	100.0
7/08/2015	28.2	7.0	99.5	23:00	0	100.0
8/08/2015	53.3	12.7	197.3	1:00	1	100.0
9/08/2015	51.2	14.0	262.5	1:00	1	100.0
10/08/2015	<b>58.1</b>	15.5	243.9	2:00	1	100.0
11/08/2015	34.8	19.0	51.3	15:00	0	100.0
12/08/2015	27.8	16.9	44.5	13:00	0	100.0
13/08/2015	15.4	9.0	29.6	1:00	0	100.0
14/08/2015	20.8	7.3	40.0	14:00	0	95.8
15/08/2015	30.1	18.5	48.7	0:00	0	100.0
16/08/2015	16.5	8.1	27.9	3:00	0	100.0
17/08/2015	24.1	11.5	56.7	14:00	0	100.0
18/08/2015	21.1	11.1	34.4	17:00	0	100.0
19/08/2015	22.8	15.0	34.5	7:00	0	100.0
20/08/2015	20.6	14.1	29.9	10:00	0	100.0
21/08/2015	16.5	8.6	27.6	0:00	0	100.0
22/08/2015	18.1	10.6	25.8	8:00	0	100.0
23/08/2015	16.3	10.0	25.5	15:00	0	100.0
24/08/2015	20.3	10.1	41.0	15:00	0	100.0
25/08/2015	21.2	9.9	38.5	21:00	0	100.0
26/08/2015	20.3	11.0	28.2	14:00	0	100.0
27/08/2015	24.0	13.1	39.3	10:00	0	100.0
28/08/2015	18.5	7.3	31.1	21:00	0	87.5
29/08/2015	16.8	10.6	26.2	17:00	0	100.0
30/08/2015	9.1	1.5	23.4	20:00	0	100.0
31/08/2015	8.5	1.9	19.9	18:00	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

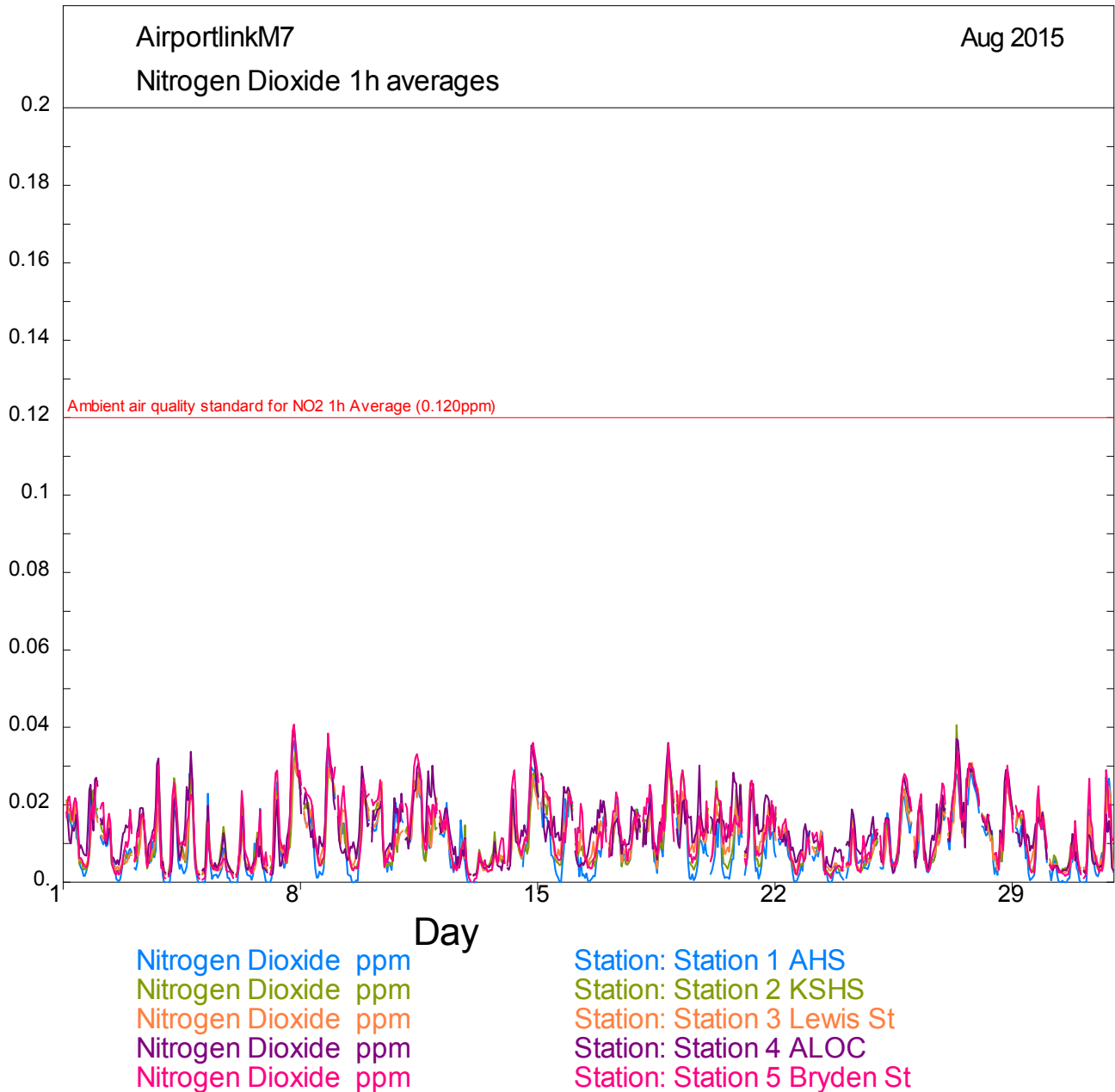


Figure 1 Nitrogen Dioxide 1hr averages

### Carbon Monoxide 8hr Rolling Averages

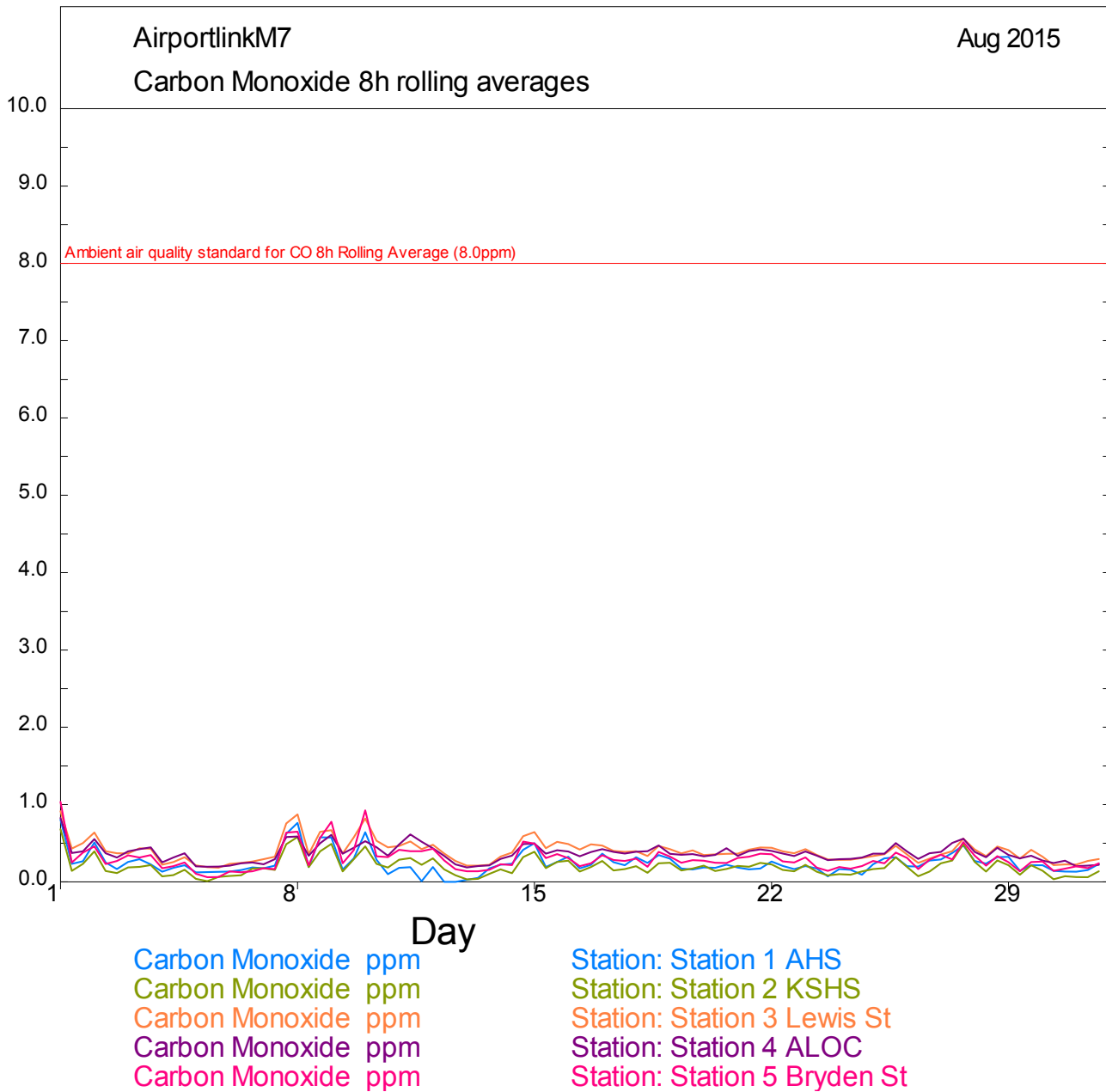


Figure 2 Carbon Monoxide 8hr rolling averages

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

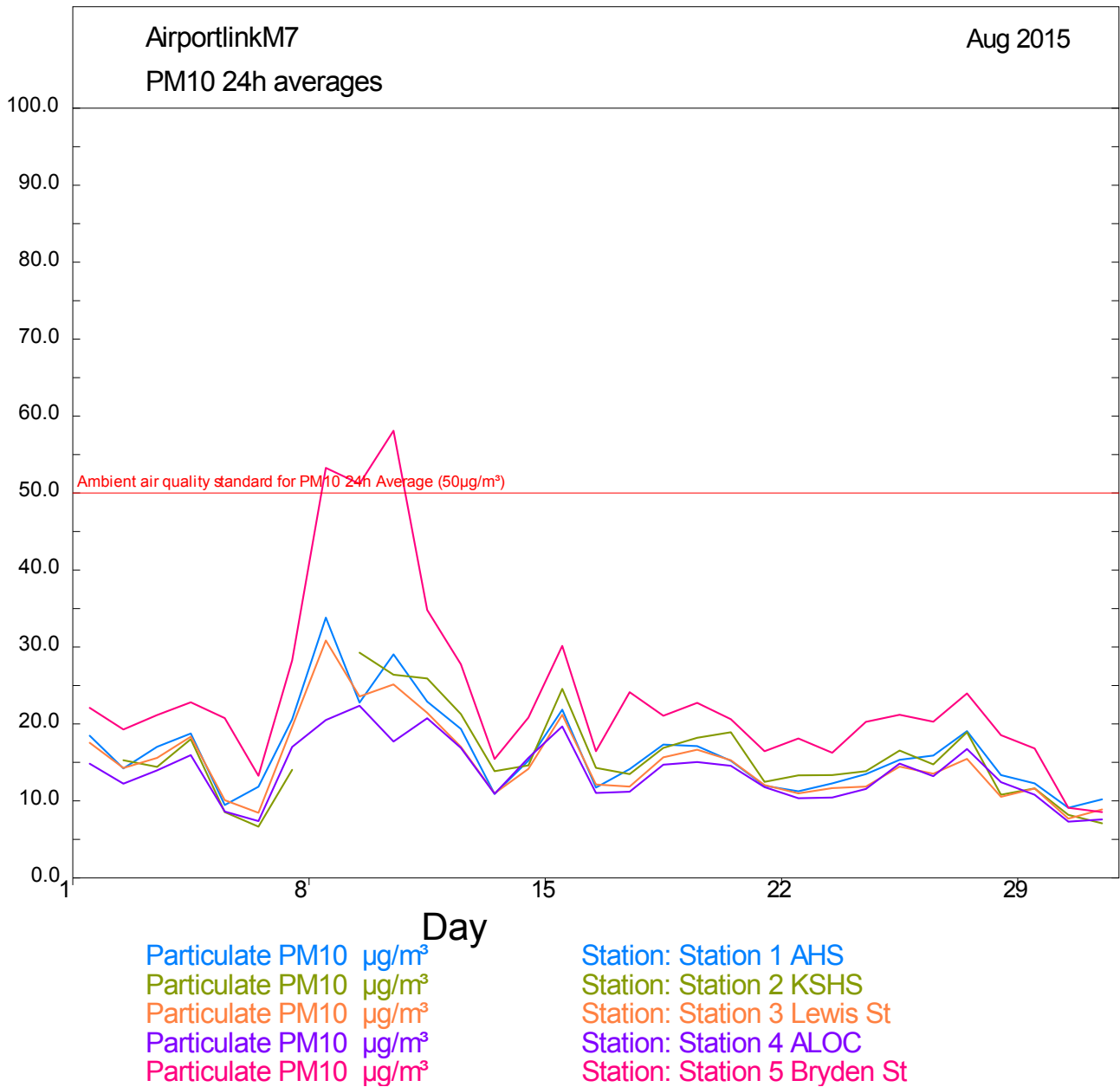


Figure 3 PM<sub>10</sub> 24hr Averages

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

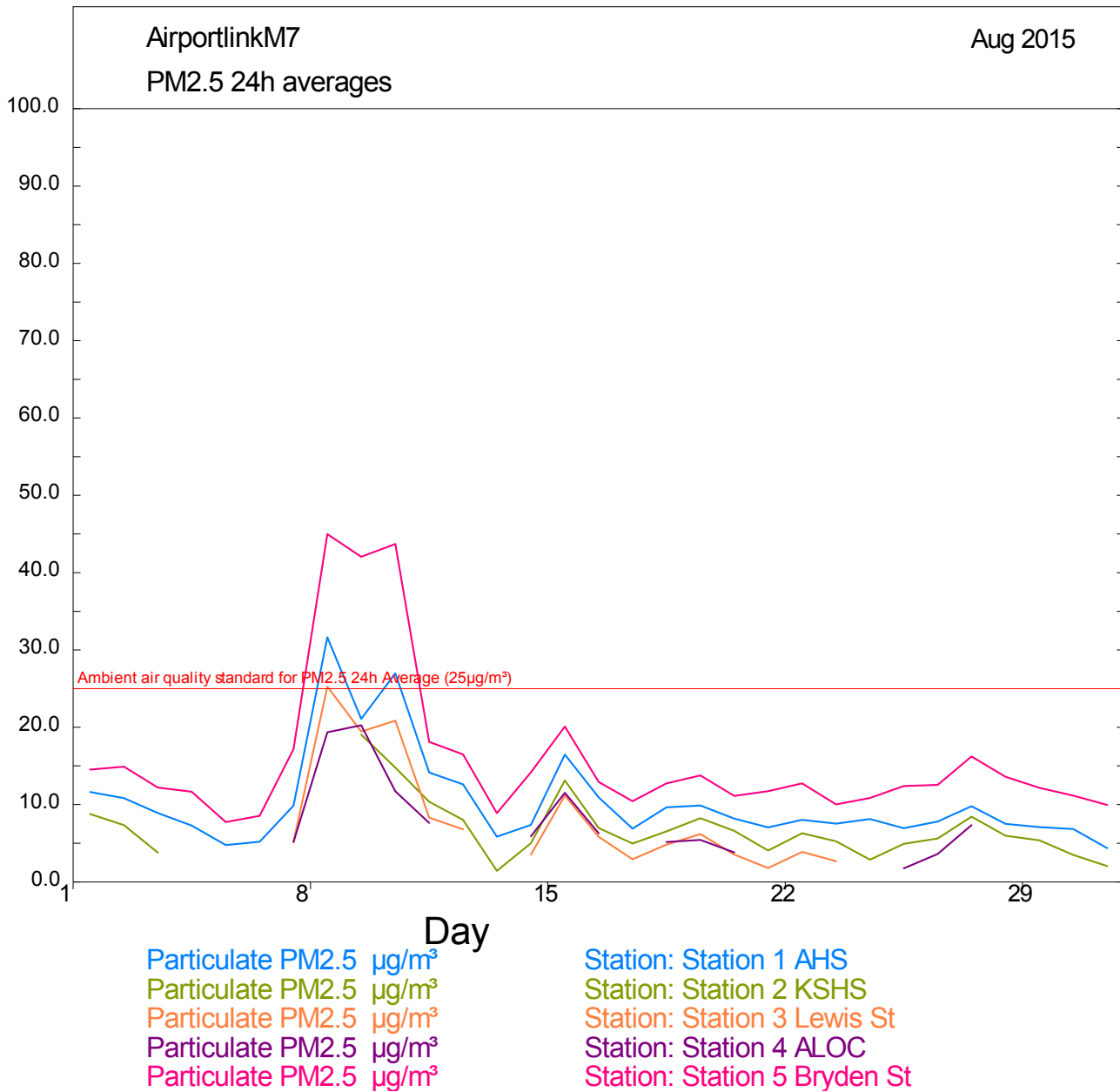


Figure 4 PM<sub>2.5</sub> 24hr Averages

## 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 August 2015					
Sample Date	Station 1 AHS (µg/m3)	Station 2 KSHS (µg/m3)	Station 3 LS (µg/m3)	Station 4 ALOC (µg/m3)	Station 5 BS (µg/m3)
4/08/2015	41	38	34	39	38
10/08/2015	56	40	47	38	65
16/08/2015	19	20	21	22	20
22/08/2015	17	15	16	20	16
28/08/2015	20	18	18	18	18
Monthly Average	30.6	26.2	27.2	27.4	31.4

Table 29 TSP High Volume Air Sampler Results



## Validation Tables

The following tables outline any data removed during the data validation process, or automatically invalidated by the data acquisition system.

### Station 1 Aviation High School

Station 1 Aviation High School Ambient AQMS Data Validation Table August 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/08/2015 11:15	31/08/2015 11:20	PM <sub>2.5</sub>	Intermittent instrument faults - fault codes logged	13/09/2015	CP
3/08/2015 20:30	31/08/2015 20:50	PM <sub>10</sub> , PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	13/09/2015	CP
13/08/2015 5:35	14/08/2015 10:20	NO, NO <sub>2</sub> , NO <sub>x</sub>	Instrument fault	13/09/2015	CP
14/08/2015 10:25	14/08/2015 12:25	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	13/09/2015	CP
14/08/2015 12:30	31/08/2015 23:55	NO, NO <sub>2</sub> , NO <sub>x</sub>	Data adjusted - multiplier of 1.061697 applied	13/09/2015	CP
23/08/2015 0:00	23/08/2015 23:50	CO	Data adjusted - offset of -0.07ppm applied	13/09/2015	CP
27/08/2015 12:10	27/08/2015 13:40	All parameters	Maintenance	13/09/2015	CP

Table 30 Station 1 Aviation High School AQMS Data Validation Table

## Station 2 Kedron State High School

Station 2 Kedron State High School Ambient AQMS Data Validation Table August 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/08/2015 1:55	31/08/2015 23:05	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent instrument fault - fault codes logged	13/09/2015	CP
4/08/2015 2:55	31/08/2015 17:50	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	13/09/2015	CP
19/08/2015 10:40	19/08/2015 11:10	CO, NO, NO <sub>2</sub> , NO <sub>x</sub>	Maintenance	13/09/2015	CP
27/08/2015 15:40	27/08/2015 16:50	All parameters	Maintenance	13/09/2015	CP

Table 31 Station 2 Kedron High School AQMS Data Validation Table

## Station 3 Lewis Street

Station 3 Lewis St Ambient AQMS Data Validation Table August 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/08/2015 1:05	31/08/2015 23:05	PM <sub>2.5</sub>	Intermittent instrument faults - fault codes logged	13/09/2015	CP
2/08/2015 11:55	31/08/2015 18:50	PM <sub>10</sub> , PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	13/09/2015	CP
27/08/2015 14:15	27/08/2015 15:50	All parameters	Maintenance	13/09/2015	CP
27/08/2015 15:55	31/08/2015 23:55	NO, NO <sub>2</sub> , NO <sub>x</sub>	Data adjusted - multiplier of 0.936602 applied	13/09/2015	CP

Table 32 Station 3 Lewis St AQMS Data Validation Table

## Station 4 Airport Link Operation Centre

Station 4 Airport Link Operation Centre AQMS Data Validation Table August 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/08/2015 1:05	31/08/2015 23:05	PM <sub>2.5</sub>	Intermittent instrument fault - fault code logged	13/09/2015	CP
2/08/2015 15:55	31/08/2015 23:55	PM <sub>10</sub> , PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	13/09/2015	CP
28/08/2015 9:55	28/08/2015 12:50	All parameters	Maintenance	13/09/2015	CP

Table 33 Station 4 Airport Link Operation Centre AQMS Data Validation Table

## Station 5 Bryden St

Station 5 Bryden St AQMS Data Validation Table August 2015					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by
1/08/2015 1:00	31/08/2015 23:05	PM <sub>2.5</sub> , PM <sub>10</sub>	Intermittent instrument faults - fault codes logged	13/09/2015	CP
2/08/2015 10:50	27/08/2015 11:50	PM <sub>2.5</sub>	Intermittent unrealistic data less than negative 1 µg/m <sup>3</sup>	13/09/2015	CP
28/08/2015 8:05	28/08/2015 10:50	All parameters	Maintenance	13/09/2015	CP

Table 34 Station 5 Bryden St AQMS Data Validation Table