



Leighton Contractors Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

July 2015

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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



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Prepared by



Chris Priser
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Approved by



Bruno Nourdine
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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

NO₂ – Nitrogen Dioxide

NO_x – Nitrogen Oxides

CO – Carbon Monoxide

PM₁₀ – Particulate matter of 10 microns or less aerodynamic equivalent size

PM_{2.5} – 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/m³ – 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 July 2015							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences July 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 ³	0	0	0	0	0
PM2.5	24 hour	25 µg/m ³	0	0	0	0	0
PM10	24 hour	50 µg/m ³	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)
- NO₂ (Nitrogen Dioxide)
- NO_x (Total Oxides of Nitrogen)
- CO (Carbon Monoxide)
- PM₁₀
- PM_{2.5}
- 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 ₂ NO _x	ppm	2.78%	AS 3580.5.1	22/07/15	22/07/15	22/07/15	22/07/15	22/07/15
CO	ppm	2.56%	AS 3580.7.1	22/07/15	22/07/15	22/07/15	22/07/15	22/07/15
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	26/05/15	7/05/15*	7/05/15*	17/07/15*	25/05/15
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.12 / EQPM 0308-170	26/05/15	27/05/15	27/05/15	25/05/15	25/05/15
TSP	µg/m ³	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 July 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.010	0.3	6.6	12.2
Min 1hr Average	-0.002	0.0	-1.0	2.5
Max 1hr Average	0.036	1.1	30.0	79.5
Max 8hr Rolling Average	N/A	0.9	N/A	N/A
Max 24hr Average	N/A	N/A	14.5	18.6
Capture Rate (%)	96.6	87.2	91.7	97.7

Table 4 Station 1 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary July 2015

Date	24hr Avg (ppm)	Min (ppm)	1 hr Avgs		Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
			Max (ppm)	Time of Max		
1/07/2015	0.015	0.004	0.036	18:00	0	95.8
2/07/2015	0.004	-0.001	0.015	06:00	0	95.8
3/07/2015	0.010	0.000	0.026	18:00	0	87.5
4/07/2015	0.011	0.001	0.029	18:00	0	95.8
5/07/2015	0.011	0.003	0.026	17:00	0	95.8
6/07/2015	0.013	0.002	0.026	17:00	0	95.8
7/07/2015	0.012	0.003	0.023	07:00	0	95.8
8/07/2015	0.008	0.001	0.019	00:00	0	95.8
9/07/2015	0.011	0.001	0.025	18:00	0	95.8
10/07/2015	0.013	0.005	0.019	21:00	0	95.8
11/07/2015	0.008	0.002	0.015	08:00	0	95.8
12/07/2015	0.004	-0.002	0.018	21:00	0	95.8
13/07/2015	0.003	-0.002	0.019	07:00	0	95.8
14/07/2015	0.002	-0.002	0.006	06:00	0	95.8
15/07/2015	0.016	0.002	0.028	17:00	0	95.8
16/07/2015	0.012	0.001	0.030	17:00	0	95.8
17/07/2015	0.001	-0.002	0.004	07:00	0	95.8
18/07/2015	0.009	-0.002	0.030	18:00	0	95.8
19/07/2015	0.003	-0.001	0.010	07:00	0	95.8
20/07/2015	0.006	0.000	0.016	19:00	0	95.8
21/07/2015	0.012	0.001	0.027	18:00	0	95.8
22/07/2015	0.012	0.006	0.020	08:00	0	83.3
23/07/2015	0.011	0.002	0.022	18:00	0	95.8
24/07/2015	0.011	0.003	0.019	10:00	0	95.8
25/07/2015	0.011	-0.001	0.024	18:00	0	95.8
26/07/2015	0.013	0.004	0.029	18:00	0	95.8
27/07/2015	0.005	-0.001	0.016	07:00	0	95.8
28/07/2015	0.008	0.001	0.018	07:00	0	95.8
29/07/2015	0.014	0.001	0.031	20:00	0	95.8
30/07/2015	0.016	0.005	0.030	19:00	0	95.8
31/07/2015	0.015	0.002	0.033	19:00	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 July 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		
1/07/2015	0.3	0.2	0.8	08:00	0.7	01:00	0	96.2
2/07/2015	0.1	0.1	0.3	7:00	0.3	00:00	0	95.5
3/07/2015	0.2	0.1	0.4	18:00	0.3	23:00	0	89.9
4/07/2015	0.3	0.1	0.9	23:00	0.7	23:00	0	96.5
5/07/2015	0.4	0.1	0.8	0:00	0.8	02:00	0	95.5
6/07/2015	0.3	0.1	0.7	6:00	0.4	10:00	0	96.2
7/07/2015	0.3	0.1	0.7	7:00	0.5	07:00	0	96.2
8/07/2015	0.1	0.1	0.3	20:00	0.2	00:00	0	96.5
9/07/2015	0.2	0.1	0.4	22:00	0.3	23:00	0	96.9
10/07/2015	0.3	0.1	0.7	07:00	0.4	01:00	0	96.9
11/07/2015	0.3	0.1	0.5	0:00	0.4	04:00	0	96.9
12/07/2015	0.2	0.1	0.6	21:00	0.4	23:00	0	96.9
13/07/2015	0.1	0.1	0.2	7:00	0.3	00:00	0	96.2
14/07/2015	0.1	0.1	0.2	8:00	0.1	12:00	0	96.2
15/07/2015	0.4	0.1	0.9	19:00	0.6	23:00	0	96.2
16/07/2015	0.4	0.1	0.7	18:00	0.6	01:00	0	96.5
17/07/2015	0.1	0.1	0.1	7:00	0.3	00:00	0	96.2
18/07/2015	0.3	0.1	0.9	20:00	0.5	23:00	0	94.8
19/07/2015	0.1	0.1	0.3	21:00	0.5	01:00	0	96.2
20/07/2015	0.2	0.1	0.3	19:00	0.2	23:00	0	96.2
21/07/2015	0.3	0.1	0.8	18:00	0.5	23:00	0	96.2
22/07/2015	0.2	0.0	0.5	0:00	0.6	01:00	0	84.0
23/07/2015	0.4	0.2	0.9	21:00	0.6	23:00	0	96.9
24/07/2015	0.3	0.1	0.7	3:00	0.8	03:00	0	96.9
25/07/2015	0.4	0.1	1.1	22:00	0.8	23:00	0	96.9
26/07/2015	0.4	0.2	0.8	0:00	0.9	01:00	0	96.2
27/07/2015	0.2	0.1	0.3	7:00	0.5	00:00	0	95.8
28/07/2015	0.2	0.1	0.3	7:00	0.2	12:00	0	80.6
¹ 29/07/2015	-	-	-	-	-	-	0	0.0
¹ 30/07/2015	-	-	-	-	-	-	0	0.0
¹ 31/07/2015	-	-	-	-	-	-	0	42.5

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

1.No data due to instrument fault

PM_{2.5} Summary
Station 1 Aviation High School Ambient AQMS Particulate PM_{2.5} Summary July 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	4.8	0.0	14.3	19:00	0	91.7
12/07/2015	-	-1.0	4.0	18:00	0	75.0
13/07/2015	-	-1.0	6.9	18:00	0	75.0
14/07/2015	-	0.0	23.3	23:00	0	75.0
15/07/2015	-	0.4	25.6	00:00	0	75.0
6/07/2015	5.2	-1.0	14.6	07:00	0	87.5
7/07/2015	6.2	0.3	15.2	04:00	0	87.5
8/07/2015	5.7	1.0	10.8	01:00	0	95.8
9/07/2015	4.6	-0.8	13.0	21:00	0	95.8
10/07/2015	6.9	-0.9	12.0	02:00	0	100.0
11/07/2015	9.2	2.3	20.4	02:00	0	100.0
12/07/2015	4.9	0.3	11.0	19:00	0	100.0
13/07/2015	5.6	-0.8	21.6	11:00	0	95.8
14/07/2015	3.0	-0.9	6.9	08:00	0	83.3
15/07/2015	7.2	0.1	21.1	22:00	0	100.0
16/07/2015	-	-	-	-	0	58.3
17/07/2015	3.1	-1.0	5.8	20:00	0	95.8
18/07/2015	6.1	-0.8	30.0	20:00	0	91.7
19/07/2015	5.2	1.0	11.9	23:00	0	87.5
20/07/2015	4.5	0.1	10.8	00:00	0	100.0
21/07/2015	6.3	0.0	11.8	20:00	0	100.0
22/07/2015	6.6	1.3	15.8	04:00	0	87.5
23/07/2015	6.8	2.5	12.3	09:00	0	100.0
24/07/2015	9.6	3.3	17.7	00:00	0	100.0
25/07/2015	6.9	2.1	21.0	23:00	0	95.8
26/07/2015	14.5	5.1	24.9	22:00	0	100.0
27/07/2015	5.3	-0.9	13.5	00:00	0	100.0
28/07/2015	4.5	0.0	10.0	22:00	0	91.7
29/07/2015	8.4	-0.7	21.7	20:00	0	100.0
30/07/2015	7.9	1.0	12.8	02:00	0	100.0
31/07/2015	10.0	3.1	25.3	23:00	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_{2.5} Monthly Summary

1.No data due to instrument fault

PM₁₀ Summary
Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary July 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	18.6	4.5	79.5	07:00	0	95.8
2/07/2015	6.2	3.0	9.7	16:00	0	95.8
3/07/2015	10.7	4.7	18.1	18:00	0	100.0
4/07/2015	14.3	6.8	30.6	19:00	0	100.0
5/07/2015	14.2	5.2	29.6	07:00	0	83.3
6/07/2015	12.2	2.6	29.8	17:00	0	100.0
7/07/2015	14.5	6.7	29.6	07:00	0	91.7
8/07/2015	11.0	6.3	18.1	09:00	0	100.0
9/07/2015	10.0	3.7	18.6	15:00	0	95.8
10/07/2015	10.5	4.6	21.8	07:00	0	100.0
11/07/2015	10.4	5.2	22.5	07:00	0	100.0
12/07/2015	9.2	2.5	19.8	05:00	0	87.5
13/07/2015	8.3	3.5	16.3	17:00	0	100.0
14/07/2015	5.3	2.9	8.3	17:00	0	100.0
15/07/2015	13.1	4.2	26.1	19:00	0	100.0
16/07/2015	14.4	3.6	28.5	07:00	0	91.7
17/07/2015	8.8	3.0	22.6	14:00	0	100.0
18/07/2015	13.0	4.7	33.5	20:00	0	100.0
19/07/2015	10.5	7.9	16.5	18:00	0	100.0
20/07/2015	11.7	7.0	17.8	16:00	0	100.0
21/07/2015	14.4	8.6	26.2	19:00	0	100.0
22/07/2015	11.2	5.3	17.6	01:00	0	87.5
23/07/2015	11.6	5.6	19.4	19:00	0	100.0
24/07/2015	13.8	8.2	27.4	09:00	0	100.0
25/07/2015	12.5	2.9	29.0	22:00	0	100.0
26/07/2015	17.6	10.0	27.6	19:00	0	100.0
27/07/2015	7.4	3.0	14.3	17:00	0	100.0
28/07/2015	13.1	5.8	21.6	18:00	0	100.0
29/07/2015	16.8	6.3	31.0	19:00	0	100.0
30/07/2015	15.3	9.7	24.4	07:00	0	100.0
31/07/2015	16.7	4.2	29.8	08:00	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 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary July 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.012	0.2	4.4	11.0
Min 1hr Average	0.002	0.0	-1.0	0.0
Max 1hr Average	0.033	0.9	22.4	99.6
Max 8hr Rolling Average	N/A	0.7	N/A	N/A
Max 24hr Average	N/A	N/A	10.1	17.1
Capture Rate (%)	81.5	88.3	94.6	85.1

Table 9 Station 2 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 2 Kedron State High School Ambient AQMS Nitrogen Dioxide Summary July 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		
1/07/2015	0.014	0.004	0.024	18:00	0	95.8
2/07/2015	0.007	0.003	0.018	06:00	0	95.8
¹ 3/07/2015	-	-	-	-	0	54.2
¹ 4/07/2015	-	-	-	-	0	0.0
¹ 5/07/2015	-	-	-	-	0	0.0
¹ 6/07/2015	-	-	-	-	0	0.0
¹ 7/07/2015	-	-	-	-	0	0.0
¹ 8/07/2015	-	-	-	-	0	43.5
9/07/2015	0.016	0.005	0.027	19:00	0	95.8
10/07/2015	0.014	0.005	0.027	06:00	0	95.8
11/07/2015	0.009	0.004	0.016	00:00	0	95.8
12/07/2015	0.006	0.002	0.015	21:00	0	95.8
13/07/2015	0.005	0.002	0.009	07:00	0	95.8
14/07/2015	0.005	0.002	0.011	06:00	0	95.8
15/07/2015	0.015	0.003	0.028	08:00	0	95.8
16/07/2015	0.014	0.005	0.029	18:00	0	95.8
17/07/2015	0.004	0.002	0.007	06:00	0	95.8
18/07/2015	0.011	0.002	0.031	19:00	0	95.8
19/07/2015	0.008	0.004	0.019	21:00	0	95.8
20/07/2015	0.012	0.003	0.025	07:00	0	95.8
21/07/2015	0.018	0.004	0.028	18:00	0	95.8
22/07/2015	0.018	0.008	0.025	06:00	0	91.7
23/07/2015	0.016	0.007	0.028	18:00	0	95.8
24/07/2015	0.011	0.004	0.021	09:00	0	95.8
25/07/2015	0.011	0.003	0.024	19:00	0	95.8
26/07/2015	0.013	0.007	0.025	19:00	0	95.8
27/07/2015	0.008	0.003	0.021	18:00	0	95.8
28/07/2015	0.012	0.003	0.024	07:00	0	95.8
29/07/2015	0.017	0.005	0.032	20:00	0	95.8
30/07/2015	0.017	0.005	0.029	20:00	0	95.8
31/07/2015	0.016	0.005	0.033	20:00	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

1. No data due to span out of tolerance

Carbon Monoxide Summary

Station 2 Kedron State High School Ambient AQMS Carbon Monoxide Summary July 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		
11/07/2015	-	-	-	-	-	-	0	0.0
12/07/2015	-	-	-	-	-	-	0	0.0
13/07/2015	-	-	-	-	-	-	0	32.3
4/07/2015	0.3	0.1	0.9	21:00	0.6	23:00	0	96.9
5/07/2015	0.3	0.1	0.7	0:00	0.7	01:00	0	96.9
6/07/2015	0.2	0.0	0.6	21:00	0.4	01:00	0	96.9
7/07/2015	0.2	0.0	0.3	5:00	0.4	01:00	0	96.9
8/07/2015	0.2	0.1	0.3	6:00	0.3	00:00	0	91.7
9/07/2015	0.2	0.0	0.5	22:00	0.3	23:00	0	96.9
10/07/2015	0.2	0.0	0.3	6:00	0.4	01:00	0	96.9
11/07/2015	0.2	0.1	0.4	0:00	0.3	04:00	0	96.9
12/07/2015	0.1	0.0	0.2	21:00	0.2	00:00	0	96.9
13/07/2015	0.1	0.0	0.1	17:00	0.1	00:00	0	96.9
14/07/2015	0.1	0.1	0.2	16:00	0.1	22:00	0	96.9
15/07/2015	0.3	0.1	0.6	8:00	0.4	23:00	0	96.9
16/07/2015	0.3	0.1	0.6	8:00	0.5	01:00	0	96.9
17/07/2015	0.1	0.0	0.2	16:00	0.2	00:00	0	96.9
18/07/2015	0.2	0.1	0.7	20:00	0.4	23:00	0	96.9
19/07/2015	0.2	0.1	0.3	21:00	0.5	01:00	0	96.9
20/07/2015	0.2	0.1	0.3	19:00	0.2	01:00	0	96.9
21/07/2015	0.3	0.1	0.7	22:00	0.5	23:00	0	96.9
22/07/2015	0.3	0.1	0.4	9:00	0.6	01:00	0	93.8
23/07/2015	0.3	0.1	0.8	22:00	0.4	23:00	0	96.9
24/07/2015	0.3	0.1	0.7	0:00	0.6	03:00	0	96.9
25/07/2015	0.3	0.1	0.7	22:00	0.5	23:00	0	96.9
26/07/2015	0.3	0.1	0.5	0:00	0.6	01:00	0	96.9
27/07/2015	0.1	0.0	0.2	18:00	0.3	00:00	0	96.9
28/07/2015	0.1	0.0	0.2	7:00	0.1	23:00	0	96.9
29/07/2015	0.2	0.0	0.6	20:00	0.4	23:00	0	96.9
30/07/2015	0.3	0.1	0.7	22:00	0.5	01:00	0	96.9
31/07/2015	0.3	0.0	0.7	22:00	0.5	02:00	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

1.No data due to instrument fault

PM_{2.5} Summary

Station 2 Kedron State High School Ambient AQMS Particulate PM_{2.5} Summary July 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	6.6	1.2	18.3	09:00	0	100.0
2/07/2015	3.5	-0.8	7.8	09:00	0	91.7
3/07/2015	4.2	1.1	9.7	22:00	0	100.0
4/07/2015	6.8	-1.0	22.3	23:00	0	91.7
5/07/2015	8.0	0.1	19.8	01:00	0	95.8
6/07/2015	4.7	0.0	11.0	21:00	0	100.0
7/07/2015	3.2	-1.0	7.8	06:00	0	95.8
8/07/2015	3.2	0.0	6.9	07:00	0	87.5
9/07/2015	2.7	-1.0	6.0	22:00	0	95.8
10/07/2015	1.7	-1.0	6.9	23:00	0	95.8
11/07/2015	2.2	-0.9	6.9	01:00	0	100.0
¹ 12/07/2015	-	-	-	-	0	70.8
13/07/2015	2.5	-0.8	4.8	21:00	0	95.8
14/07/2015	1.1	-1.0	3.9	07:00	0	79.2
15/07/2015	3.3	-0.8	12.6	22:00	0	95.8
16/07/2015	7.5	-0.7	13.8	10:00	0	100.0
17/07/2015	1.3	-1.0	5.8	22:00	0	87.5
18/07/2015	5.3	-0.9	22.4	21:00	0	87.5
19/07/2015	3.5	-1.0	7.9	00:00	0	91.7
20/07/2015	2.7	-1.0	6.8	07:00	0	91.7
21/07/2015	5.9	1.5	12.7	21:00	0	100.0
22/07/2015	6.4	-0.8	12.6	07:00	0	95.8
23/07/2015	4.5	1.2	9.8	20:00	0	100.0
24/07/2015	6.9	1.1	17.7	10:00	0	100.0
25/07/2015	4.2	0.1	18.8	23:00	0	100.0
26/07/2015	10.1	5.1	16.1	07:00	0	100.0
27/07/2015	2.9	0.0	19.6	18:00	0	100.0
28/07/2015	2.4	0.0	7.0	23:00	0	91.7
29/07/2015	3.5	-0.7	9.9	21:00	0	95.8
30/07/2015	4.6	-1.0	8.8	22:00	0	95.8
31/07/2015	6.0	0.1	14.5	09:00	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_{2.5} Monthly Summary

1.No data due to instrument fault

PM₁₀ Summary

Station 2 Kedron State High School Ambient AQMS Particulate PM10 Summary July 2015						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
¹ 1/07/2015	-	-	-	-	0	70.8
¹ 2/07/2015	-	3.1	10.9	19:00	0	79.2
3/07/2015	11.6	5.1	26.1	21:00	0	79.2
4/07/2015	17.1	6.2	99.6	12:00	0	95.8
5/07/2015	13.3	5.0	27.6	21:00	0	87.5
¹ 6/07/2015	-	2.3	20.2	10:00	0	78.3
¹ 7/07/2015	-	-	-	-	0	50.0
8/07/2015	11.6	4.1	21.2	10:00	0	91.7
9/07/2015	10.5	5.1	18.0	09:00	0	91.7
¹ 10/07/2015	-	-	-	-	0	62.5
11/07/2015	9.6	4.0	16.0	10:00	0	95.7
12/07/2015	11.1	3.0	37.5	06:00	0	100.0
13/07/2015	10.1	4.3	22.4	13:00	0	83.3
¹ 14/07/2015	-	-	-	-	0	54.2
15/07/2015	9.9	3.0	18.3	14:00	0	91.7
16/07/2015	14.5	6.0	36.1	10:00	0	100.0
17/07/2015	8.2	2.1	23.3	14:00	0	100.0
18/07/2015	8.2	0.3	28.0	19:00	0	87.5
19/07/2015	9.9	3.1	21.2	00:00	0	87.5
20/07/2015	13.0	7.0	36.0	17:00	0	83.3
21/07/2015	15.2	8.3	24.5	10:00	0	100.0
22/07/2015	10.1	1.5	18.7	08:00	0	95.8
23/07/2015	11.3	3.2	22.8	20:00	0	100.0
24/07/2015	10.1	1.3	24.9	08:00	0	95.8
25/07/2015	7.9	0.0	22.8	22:00	0	87.5
¹ 26/07/2015	-	-	-	-	0	45.8
27/07/2015	3.1	0.0	8.0	00:00	0	83.3
28/07/2015	11.5	4.3	22.6	15:00	0	95.8
29/07/2015	14.1	3.2	44.6	07:00	0	100.0
30/07/2015	11.2	5.0	20.3	09:00	0	91.7
31/07/2015	13.0	7.4	25.5	20:00	0	83.3

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 PM₁₀ Monthly Summary

1.No data due to instrument fault

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary July 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.011	0.4	4.1	11.9
Min 1hr Average	0.002	0.1	-1.0	0.5
Max 1hr Average	0.031	1.2	28.5	34.5
Max 8hr Rolling Average	N/A	1.0	N/A	N/A
Max 24hr Average	N/A	N/A	9.4	18.7
Capture Rate (%)	97.1	96.4	84.0	98.1

Table 14 Station 3 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary July 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		
1/07/2015	0.014	0.004	0.030	18:00	0	95.8
2/07/2015	0.006	0.003	0.014	07:00	0	95.8
3/07/2015	0.012	0.003	0.026	21:00	0	95.8
4/07/2015	0.013	0.005	0.026	18:00	0	95.8
5/07/2015	0.010	0.003	0.023	19:00	0	95.8
6/07/2015	0.011	0.003	0.022	21:00	0	95.8
7/07/2015	0.014	0.005	0.026	18:00	0	95.8
8/07/2015	0.012	0.005	0.021	00:00	0	95.8
9/07/2015	0.015	0.006	0.026	17:00	0	95.8
10/07/2015	0.014	0.006	0.022	07:00	0	95.8
11/07/2015	0.009	0.004	0.018	09:00	0	95.8
12/07/2015	0.005	0.002	0.019	22:00	0	95.8
13/07/2015	0.004	0.002	0.011	07:00	0	95.8
14/07/2015	0.004	0.002	0.006	07:00	0	95.8
15/07/2015	0.014	0.005	0.024	08:00	0	95.8
16/07/2015	0.012	0.004	0.026	18:00	0	95.8
17/07/2015	0.003	0.002	0.005	07:00	0	95.8
18/07/2015	0.011	0.002	0.028	18:00	0	95.8
19/07/2015	0.009	0.004	0.016	00:00	0	95.8
20/07/2015	0.010	0.005	0.019	07:00	0	95.8
21/07/2015	0.015	0.006	0.028	17:00	0	95.8
22/07/2015	0.016	0.010	0.022	09:00	0	91.7
23/07/2015	0.015	0.007	0.026	18:00	0	95.8
24/07/2015	0.012	0.005	0.023	08:00	0	95.8
25/07/2015	0.011	0.002	0.022	19:00	0	95.8
26/07/2015	0.014	0.007	0.027	20:00	0	95.8
27/07/2015	0.006	0.003	0.015	18:00	0	95.8
28/07/2015	0.013	0.004	0.023	06:00	0	95.83
29/07/2015	0.017	0.005	0.031	19:00	0	95.83
30/07/2015	0.017	0.007	0.028	19:00	0	95.83
31/07/2015	0.015	0.003	0.029	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 July 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		
1/07/2015	0.4	0.3	0.8	08:00	0.7	01:00	0	96.5
2/07/2015	0.2	0.1	0.4	7:00	0.4	00:00	0	96.5
3/07/2015	0.3	0.2	0.4	21:00	0.4	23:00	0	96.5
4/07/2015	0.5	0.3	1.2	23:00	0.9	23:00	0	96.5
5/07/2015	0.4	0.3	0.9	0:00	1.0	01:00	0	96.5
6/07/2015	0.4	0.3	0.7	7:00	0.5	09:00	0	96.5
7/07/2015	0.4	0.2	0.5	0:00	0.5	04:00	0	96.5
8/07/2015	0.3	0.2	0.4	20:00	0.4	23:00	0	96.5
9/07/2015	0.4	0.3	0.7	23:00	0.6	23:00	0	96.5
10/07/2015	0.4	0.3	0.6	22:00	0.6	01:00	0	96.5
11/07/2015	0.4	0.3	0.7	0:00	0.6	03:00	0	96.5
12/07/2015	0.5	0.3	0.8	21:00	0.6	23:00	0	95.8
13/07/2015	0.2	0.2	0.3	17:00	0.6	00:00	0	96.5
14/07/2015	0.3	0.2	0.3	23:00	0.3	23:00	0	96.5
15/07/2015	0.5	0.3	0.9	22:00	0.7	23:00	0	96.5
16/07/2015	0.5	0.3	0.8	8:00	0.8	01:00	0	96.5
17/07/2015	0.2	0.2	0.3	22:00	0.4	00:00	0	96.5
18/07/2015	0.4	0.3	1.0	20:00	0.7	23:00	0	96.5
19/07/2015	0.3	0.3	0.4	21:00	0.7	01:00	0	96.5
20/07/2015	0.4	0.3	0.4	19:00	0.4	00:00	0	96.5
21/07/2015	0.5	0.3	1.1	19:00	0.8	23:00	0	96.5
22/07/2015	0.5	0.3	0.7	0:00	0.9	01:00	0	93.8
23/07/2015	0.5	0.3	0.9	22:00	0.6	23:00	0	96.5
24/07/2015	0.5	0.3	0.8	3:00	0.8	04:00	0	95.8
25/07/2015	0.4	0.2	1.0	21:00	0.7	23:00	0	96.5
26/07/2015	0.5	0.4	0.8	0:00	0.8	02:00	0	96.5
27/07/2015	0.2	0.1	0.3	0:00	0.6	00:00	0	96.5
28/07/2015	0.3	0.2	0.4	19:00	0.3	23:00	0	96.5
29/07/2015	0.4	0.2	0.9	20:00	0.7	23:00	0	96.5
30/07/2015	0.5	0.3	0.9	21:00	0.7	01:00	0	96.5
31/07/2015	0.5	0.3	0.9	23:00	0.7	02:00	0	96.5

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 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM_{2.5} Summary July 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	6.5	-0.9	18.0	18:00	0	100.0
2/07/2015	2.9	-0.6	6.7	07:00	0	100.0
3/07/2015	4.3	0.2	8.9	21:00	0	100.0
4/07/2015	7.2	-0.8	27.8	22:00	0	91.7
5/07/2015	9.4	2.3	25.5	00:00	0	100.0
6/07/2015	5.0	0.3	9.7	20:00	0	91.7
7/07/2015	4.7	-1.0	9.7	22:00	0	95.8
8/07/2015	3.8	-0.6	7.8	01:00	0	87.5
9/07/2015	2.5	-1.0	8.9	20:00	0	91.7
10/07/2015	3.7	-0.9	8.9	23:00	0	100.0
11/07/2015	4.1	-0.8	8.5	10:00	0	100.0
12/07/2015	1.5	-1.0	6.0	23:00	0	83.3
¹ 13/07/2015	-	-	-	-	0	50.0
¹ 14/07/2015	-	-	-	-	0	47.8
¹ 15/07/2015	-	-	-	-	0	70.8
16/07/2015	7.6	0.0	17.6	09:00	0	87.5
¹ 17/07/2015	-	-	-	-	0	54.2
¹ 18/07/2015	-	-0.8	28.5	21:00	0	79.2
19/07/2015	2.1	-1.0	7.8	00:00	0	83.3
20/07/2015	1.3	-1.0	5.0	20:00	0	87.5
21/07/2015	3.0	-1.0	9.0	23:00	0	83.3
22/07/2015	3.0	-1.0	9.6	02:00	0	95.8
23/07/2015	2.1	-1.0	6.1	23:00	0	91.7
24/07/2015	3.5	-0.9	10.7	10:00	0	100.0
¹ 25/07/2015	-	-	-	-	0	45.8
26/07/2015	8.4	0.0	23.7	21:00	0	95.8
¹ 27/07/2015	-	-	-	-	0	33.3
¹ 28/07/2015	-	-1.0	3.8	21:00	0	78.3
29/07/2015	3.7	-0.9	19.5	20:00	0	87.5
30/07/2015	3.2	-1.0	9.5	23:00	0	95.8
31/07/2015	4.9	0.0	14.6	09:00	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 17 Station 3 PM_{2.5} Monthly Summary

1. No data due to instrument fault

PM₁₀ Summary
Station 3 Lewis St Ambient AQMS Particulate PM10 Summary July 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	11.6	3.2	34.2	08:00	0	100.0
2/07/2015	5.4	1.7	13.5	07:00	0	87.5
3/07/2015	10.6	3.4	19.3	19:00	0	100.0
4/07/2015	14.2	6.3	34.5	19:00	0	100.0
5/07/2015	10.9	2.1	21.5	07:00	0	95.8
6/07/2015	9.4	1.6	28.0	07:00	0	100.0
7/07/2015	11.6	4.9	22.5	19:00	0	83.3
8/07/2015	10.5	5.4	18.4	09:00	0	100.0
9/07/2015	8.3	3.7	12.5	17:00	0	100.0
10/07/2015	8.6	3.1	23.7	07:00	0	95.8
11/07/2015	7.9	2.7	17.1	07:00	0	95.8
12/07/2015	9.1	0.5	23.4	05:00	0	95.8
13/07/2015	9.3	4.8	18.4	12:00	0	100.0
14/07/2015	6.2	3.5	8.3	17:00	0	100.0
15/07/2015	11.6	4.0	19.1	19:00	0	100.0
16/07/2015	13.8	3.4	29.7	08:00	0	91.7
17/07/2015	8.9	3.1	19.3	13:00	0	100.0
18/07/2015	15.7	4.7	33.8	20:00	0	100.0
19/07/2015	11.6	8.3	17.9	18:00	0	100.0
20/07/2015	12.4	7.1	18.1	16:00	0	100.0
21/07/2015	15.6	9.9	24.8	19:00	0	100.0
22/07/2015	12.2	6.1	19.1	01:00	0	95.8
23/07/2015	12.5	5.9	20.6	19:00	0	100.0
24/07/2015	13.8	6.9	25.0	08:00	0	100.0
25/07/2015	13.3	3.0	34.5	21:00	0	100.0
26/07/2015	17.9	11.4	30.9	20:00	0	100.0
27/07/2015	7.7	2.6	17.0	14:00	0	100.0
28/07/2015	15.8	5.8	24.9	22:00	0	100.0
29/07/2015	18.7	6.8	33.2	19:00	0	100.0
30/07/2015	15.4	9.9	26.2	08:00	0	100.0
31/07/2015	16.5	4.2	34.4	08:00	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 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary July 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.012	0.3	4.4	10.4
Min 1hr Average	0.002	0.1	-1.0	-1.0
Max 1hr Average	0.038	0.9	24.5	35.1
Max 8hr Rolling Average	N/A	0.8	N/A	N/A
Max 24hr Average	N/A	N/A	9.1	13.9
Capture Rate (%)	97.1	90.5	46.6	90.1

Table 19 Station 4 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary July 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		
1/07/2015	0.014	0.004	0.036	18:00	0	95.8
2/07/2015	0.006	0.002	0.016	07:00	0	95.8
3/07/2015	0.010	0.002	0.023	17:00	0	95.8
4/07/2015	0.013	0.004	0.034	19:00	0	95.8
5/07/2015	0.008	0.003	0.027	18:00	0	95.8
6/07/2015	0.015	0.002	0.037	18:00	0	95.8
7/07/2015	0.015	0.004	0.033	18:00	0	95.8
8/07/2015	0.014	0.003	0.024	19:00	0	95.8
9/07/2015	0.018	0.005	0.038	16:00	0	95.8
10/07/2015	0.014	0.007	0.022	20:00	0	95.8
11/07/2015	0.011	0.004	0.017	09:00	0	95.8
12/07/2015	0.004	0.002	0.011	21:00	0	95.8
13/07/2015	0.004	0.002	0.008	07:00	0	95.8
14/07/2015	0.004	0.002	0.011	06:00	0	95.8
15/07/2015	0.016	0.002	0.027	19:00	0	95.8
16/07/2015	0.012	0.004	0.029	18:00	0	91.7
17/07/2015	0.003	0.002	0.005	16:00	0	95.8
18/07/2015	0.012	0.002	0.032	18:00	0	95.8
19/07/2015	0.008	0.003	0.019	18:00	0	95.8
20/07/2015	0.014	0.007	0.021	19:00	0	95.8
21/07/2015	0.021	0.011	0.036	17:00	0	95.8
22/07/2015	0.019	0.009	0.026	14:00	0	91.7
23/07/2015	0.018	0.004	0.032	18:00	0	95.8
24/07/2015	0.014	0.006	0.024	07:00	0	95.8
25/07/2015	0.013	0.002	0.030	18:00	0	95.8
26/07/2015	0.014	0.007	0.029	18:00	0	95.8
27/07/2015	0.008	0.002	0.027	18:00	0	95.8
28/07/2015	0.014	0.002	0.026	17:00	0	95.8
29/07/2015	0.016	0.003	0.038	19:00	0	95.8
30/07/2015	0.018	0.010	0.034	19:00	0	95.8
31/07/2015	0.018	0.004	0.037	20:00	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 July 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		
1/07/2015	0.4	0.2	0.6	08:00	0.6	00:00	0	96.9
2/07/2015	0.2	0.2	0.4	7:00	0.4	00:00	0	96.9
3/07/2015	0.2	0.2	0.3	23:00	0.3	23:00	0	96.9
4/07/2015	0.4	0.2	0.7	23:00	0.6	23:00	0	96.9
5/07/2015	0.4	0.2	0.7	0:00	0.6	02:00	0	96.9
6/07/2015	0.4	0.2	0.6	18:00	0.5	23:00	0	96.9
7/07/2015	0.4	0.2	0.6	18:00	0.5	01:00	0	96.9
8/07/2015	0.3	0.2	0.4	18:00	0.4	00:00	0	96.9
9/07/2015	0.4	0.3	0.7	16:00	0.5	21:00	0	96.9
10/07/2015	0.4	0.3	0.5	23:00	0.5	00:00	0	96.9
11/07/2015	0.4	0.3	0.5	0:00	0.5	03:00	0	96.9
12/07/2015	0.2	0.2	0.3	21:00	0.3	00:00	0	96.9
13/07/2015	0.1	0.1	0.2	2:00	0.2	00:00	0	96.9
14/07/2015	0.2	0.2	0.2	8:00	0.2	13:00	0	96.9
15/07/2015	0.4	0.2	0.6	19:00	0.4	23:00	0	96.9
16/07/2015	0.4	0.2	0.6	8:00	0.5	10:00	0	94.1
17/07/2015	0.2	0.2	0.2	17:00	0.3	00:00	0	96.9
¹ 18/07/2015	-	-	-	-	-	-	0	3.8
¹ 19/07/2015	-	-	-	-	-	-	0	0.0
20/07/2015	0.3	0.2	0.4	17:00	0.3	20:00	0	93.4
21/07/2015	0.5	0.3	0.8	19:00	0.7	23:00	0	96.9
22/07/2015	0.4	0.3	0.5	14:00	0.6	00:00	0	95.5
23/07/2015	0.5	0.3	0.9	23:00	0.6	23:00	0	96.9
24/07/2015	0.5	0.3	0.9	0:00	0.8	03:00	0	96.9
25/07/2015	0.5	0.3	0.8	20:00	0.6	23:00	0	96.9
26/07/2015	0.4	0.3	0.6	0:00	0.7	01:00	0	96.9
27/07/2015	0.3	0.2	0.5	18:00	0.4	00:00	0	96.9
28/07/2015	0.3	0.2	0.4	17:00	0.3	23:00	0	96.9
29/07/2015	0.3	0.2	0.7	19:00	0.5	23:00	0	96.9
30/07/2015	0.4	0.3	0.6	20:00	0.5	01:00	0	96.9
31/07/2015	0.5	0.3	0.9	21:00	0.6	23:00	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

¹.No data due span out of tolerance

PM_{2.5} Summary
Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM_{2.5} Summary July 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
¹ 1/07/2015	-	-	-	-	0	0.0
¹ 2/07/2015	-	-	-	-	0	0.0
¹ 3/07/2015	-	-	-	-	0	0.0
¹ 4/07/2015	-	-	-	-	0	0.0
¹ 5/07/2015	-	-	-	-	0	0.0
¹ 6/07/2015	-	-	-	-	0	0.0
¹ 7/07/2015	-	-	-	-	0	0.0
¹ 8/07/2015	-	-	-	-	0	0.0
¹ 9/07/2015	-	-	-	-	0	0.0
¹ 10/07/2015	-	-	-	-	0	0.0
¹ 11/07/2015	-	-	-	-	0	0.0
¹ 12/07/2015	-	-	-	-	0	0.0
¹ 13/07/2015	-	-	-	-	0	0.0
¹ 14/07/2015	-	-	-	-	0	0.0
¹ 15/07/2015	-	-	-	-	0	0.0
¹ 16/07/2015	-	-	-	-	0	45.8
17/07/2015	1.9	-0.9	7.8	16:00	0	95.8
18/07/2015	5.1	0.1	24.5	21:00	0	100.0
19/07/2015	4.0	1.1	10.7	00:00	0	100.0
20/07/2015	2.8	-0.7	5.5	10:00	0	100.0
21/07/2015	5.6	1.3	12.7	20:00	0	100.0
22/07/2015	4.5	-1.0	10.7	00:00	0	95.8
23/07/2015	4.5	-0.9	11.9	15:00	0	100.0
24/07/2015	6.0	-1.0	15.6	10:00	0	95.8
¹ 25/07/2015	-	0.0	17.5	20:00	0	79.2
26/07/2015	9.1	1.0	19.8	07:00	0	100.0
¹ 27/07/2015	-	-	-	-	0	62.5
28/07/2015	2.3	-1.0	9.5	06:00	0	87.5
29/07/2015	3.3	-0.8	9.0	20:00	0	100.0
30/07/2015	3.2	0.3	6.9	08:00	0	91.7
31/07/2015	5.0	-1.0	16.4	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 22 Station 4 PM_{2.5} Monthly Summary

1.No data due to instrument fault

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary July 2015

Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	13.1	5.1	28.9	18:00	0	100.0
2/07/2015	5.1	0.0	12.0	13:00	0	100.0
3/07/2015	9.4	2.3	15.0	15:00	0	100.0
4/07/2015	12.0	4.2	25.0	20:00	0	100.0
5/07/2015	11.0	5.3	21.6	00:00	0	100.0
6/07/2015	10.9	4.3	22.4	10:00	0	100.0
7/07/2015	11.1	0.5	26.9	20:00	0	100.0
8/07/2015	9.9	5.1	16.6	16:00	0	100.0
9/07/2015	10.3	1.0	23.1	17:00	0	100.0
10/07/2015	9.7	3.2	19.8	12:00	0	100.0
11/07/2015	8.2	2.3	17.9	10:00	0	100.0
12/07/2015	6.4	-1.0	34.1	06:00	0	100.0
13/07/2015	7.4	4.1	11.6	15:00	0	100.0
14/07/2015	4.9	1.0	11.0	11:00	0	91.7
¹ 15/07/2015	-	-0.7	18.6	13:00	0	73.9
¹ 16/07/2015	-	-	-	-	0	0.0
¹ 17/07/2015	-	-	-	-	0	0.0
¹ 18/07/2015	-	-	-	-	0	34.8
19/07/2015	8.8	6.5	13.9	18:00	0	100.0
20/07/2015	10.0	6.9	13.7	19:00	0	100.0
21/07/2015	13.8	8.2	22.0	18:00	0	100.0
22/07/2015	10.3	7.0	15.2	00:00	0	95.8
23/07/2015	11.5	5.4	21.4	18:00	0	100.0
24/07/2015	11.4	5.5	20.9	02:00	0	100.0
25/07/2015	9.9	2.9	21.9	18:00	0	100.0
26/07/2015	13.9	6.5	22.4	18:00	0	100.0
27/07/2015	6.8	3.1	13.3	18:00	0	100.0
28/07/2015	11.5	5.0	18.3	16:00	0	100.0
29/07/2015	12.8	4.9	25.6	19:00	0	100.0
30/07/2015	12.2	9.8	16.3	19:00	0	100.0
31/07/2015	13.6	4.8	22.8	21:00	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 PM₁₀ Monthly Summary

1.No data due to instrument fault

Station 5 (Bryden Street)

Summary

Station 5 Bryden St Ambient AQMS Summary July 2015				
	NO ₂ (ppm)	CO (ppm)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)
Monthly Average	0.013	0.3	10.5	16.0
Min 1hr Average	0.000	0.1	0.2	1.4
Max 1hr Average	0.036	1.1	33.8	47.5
Max 8hr Rolling Average	N/A	0.8	N/A	N/A
Max 24hr Average	N/A	N/A	16.5	22.7
Capture Rate (%)	97.2	96.6	98.7	99.9

Table 24 Station 5 Monthly Summary

Maximum allowable CO 8 hour rolling average is 8ppm
 Maximum allowable NO₂ 1 hour average is 0.12 ppm
 Maximum allowable PM_{2.5} 24 hour average is 25 µg/m³
 Maximum allowable PM₁₀ 24 hour average is 50 µg/m³

Nitrogen Dioxide Summary

Station 5 Bryden St Ambient AQMS Nitrogen Dioxide Summary July 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		
1/07/2015	0.014	0.003	0.034	17:00	0	95.8
2/07/2015	0.006	0.002	0.022	06:00	0	95.8
3/07/2015	0.015	0.002	0.028	22:00	0	95.8
4/07/2015	0.015	0.006	0.033	18:00	0	95.8
5/07/2015	0.012	0.002	0.029	19:00	0	95.8
6/07/2015	0.017	0.002	0.036	18:00	0	95.8
7/07/2015	0.016	0.009	0.027	18:00	0	95.8
8/07/2015	0.015	0.007	0.025	06:00	0	95.8
9/07/2015	0.017	0.006	0.028	17:00	0	95.8
10/07/2015	0.016	0.006	0.024	07:00	0	95.8
11/07/2015	0.010	0.003	0.019	09:00	0	95.8
12/07/2015	0.005	0.000	0.022	20:00	0	95.8
13/07/2015	0.003	0.001	0.006	07:00	0	95.8
14/07/2015	0.004	0.000	0.009	23:00	0	95.8
15/07/2015	0.018	0.004	0.027	07:00	0	95.8
16/07/2015	0.014	0.003	0.031	18:00	0	95.8
17/07/2015	0.003	0.001	0.004	07:00	0	95.8
18/07/2015	0.011	0.001	0.034	18:00	0	95.8
19/07/2015	0.010	0.003	0.022	00:00	0	95.8
20/07/2015	0.012	0.005	0.024	07:00	0	95.8
21/07/2015	0.018	0.007	0.031	18:00	0	95.8
22/07/2015	0.016	0.008	0.023	08:00	0	91.7
23/07/2015	0.018	0.008	0.028	19:00	0	95.8
24/07/2015	0.014	0.006	0.024	10:00	0	95.8
25/07/2015	0.012	0.002	0.030	18:00	0	95.8
26/07/2015	0.013	0.003	0.029	18:00	0	95.8
27/07/2015	0.007	0.002	0.022	06:00	0	95.8
28/07/2015	0.014	0.004	0.026	06:00	0	95.8
29/07/2015	0.017	0.005	0.036	19:00	0	95.8
30/07/2015	0.019	0.005	0.035	19:00	0	95.8
31/07/2015	0.019	0.004	0.036	20:00	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 July 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		
1/07/2015	0.3	0.1	0.5	07:00	0.5	01:00	0	95.8
2/07/2015	0.1	0.1	0.4	6:00	0.3	00:00	0	95.8
3/07/2015	0.2	0.1	0.3	23:00	0.2	23:00	0	95.8
4/07/2015	0.3	0.2	0.9	19:00	0.6	23:00	0	95.8
5/07/2015	0.3	0.1	0.6	19:00	0.7	01:00	0	95.8
6/07/2015	0.4	0.1	0.8	20:00	0.5	23:00	0	95.8
7/07/2015	0.2	0.1	0.4	22:00	0.6	01:00	0	95.8
8/07/2015	0.2	0.2	0.3	19:00	0.3	23:00	0	95.8
9/07/2015	0.3	0.2	0.6	20:00	0.4	23:00	0	95.8
10/07/2015	0.3	0.2	0.7	23:00	0.4	01:00	0	95.8
11/07/2015	0.4	0.3	0.7	0:00	0.5	03:00	0	95.8
12/07/2015	0.2	0.1	0.4	21:00	0.3	00:00	0	95.8
13/07/2015	0.1	0.1	0.1	0:00	0.3	01:00	0	95.8
14/07/2015	0.2	0.2	0.2	23:00	0.2	23:00	0	95.8
15/07/2015	0.4	0.1	0.8	19:00	0.6	23:00	0	95.8
16/07/2015	0.3	0.1	0.7	18:00	0.6	01:00	0	95.8
17/07/2015	0.1	0.1	0.1	0:00	0.4	00:00	0	95.8
18/07/2015	0.3	0.2	0.6	21:00	0.4	23:00	0	95.8
19/07/2015	0.2	0.2	0.3	21:00	0.5	01:00	0	95.8
20/07/2015	0.2	0.1	0.3	8:00	0.2	00:00	0	95.8
21/07/2015	0.4	0.2	1.0	20:00	0.6	23:00	0	95.8
22/07/2015	0.3	0.2	0.4	17:00	0.7	01:00	0	91.7
23/07/2015	0.4	0.2	0.9	23:00	0.6	23:00	0	95.8
24/07/2015	0.4	0.2	0.9	0:00	0.8	03:00	0	95.8
25/07/2015	0.3	0.2	0.7	18:00	0.5	23:00	0	95.8
26/07/2015	0.4	0.2	0.5	21:00	0.5	01:00	0	95.8
27/07/2015	0.1	0.1	0.3	7:00	0.4	00:00	0	95.8
28/07/2015	0.1	0.1	0.3	22:00	0.2	23:00	0	95.8
29/07/2015	0.3	0.1	0.7	19:00	0.4	23:00	0	95.8
30/07/2015	0.4	0.2	0.8	21:00	0.6	23:00	0	95.8
31/07/2015	0.5	0.2	1.1	22:00	0.6	01:00	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_{2.5} Summary

Station 5 Bryden St Ambient AQMS Particulate PM2.5 Summary July 2015						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	12.0	3.8	28.6	18:00	0	100.0
2/07/2015	8.4	2.2	17.5	08:00	0	100.0
3/07/2015	9.6	4.4	19.5	16:00	0	100.0
4/07/2015	12.7	3.5	33.8	21:00	0	100.0
5/07/2015	14.0	6.0	23.0	20:00	0	91.7
6/07/2015	12.4	0.4	23.7	07:00	0	100.0
7/07/2015	10.8	6.0	21.6	17:00	0	95.8
8/07/2015	9.1	5.2	14.2	17:00	0	100.0
9/07/2015	6.9	3.4	11.8	22:00	0	100.0
10/07/2015	8.6	0.2	18.2	15:00	0	100.0
11/07/2015	11.9	7.3	18.5	17:00	0	100.0
12/07/2015	7.4	1.2	18.4	20:00	0	100.0
13/07/2015	6.0	2.2	10.3	19:00	0	100.0
14/07/2015	5.6	1.9	9.5	08:00	0	100.0
15/07/2015	10.7	3.7	21.0	19:00	0	87.5
16/07/2015	14.9	5.2	23.6	09:00	0	100.0
17/07/2015	7.9	5.8	11.9	11:00	0	100.0
18/07/2015	11.3	4.2	25.2	22:00	0	95.8
19/07/2015	9.9	4.5	14.4	14:00	0	100.0
20/07/2015	9.1	1.6	23.0	17:00	0	100.0
21/07/2015	11.1	4.0	20.2	16:00	0	100.0
22/07/2015	9.8	3.3	16.2	01:00	0	95.8
23/07/2015	11.3	6.4	20.6	16:00	0	100.0
24/07/2015	12.9	4.0	23.2	17:00	0	95.8
25/07/2015	10.4	3.5	21.5	22:00	0	100.0
26/07/2015	16.5	9.0	26.8	20:00	0	100.0
27/07/2015	9.5	6.2	18.0	15:00	0	95.8
28/07/2015	8.5	5.2	14.9	16:00	0	100.0
29/07/2015	11.0	6.2	31.8	20:00	0	100.0
30/07/2015	12.2	3.4	27.3	20:00	0	100.0
31/07/2015	14.7	3.2	27.8	22:00	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_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Bryden St Ambient AQMS Particulate PM10 Summary July 2015						
Date	24 hr Avg (µg/m ³)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 µg/m ³	Capture Rate
		Min (µg/m ³)	Max (µg/m ³)	Time of Max		
1/07/2015	19.1	11.0	36.5	19:00	0	100.0
2/07/2015	12.1	7.5	17.8	16:00	0	100.0
3/07/2015	14.8	6.4	26.6	22:00	0	100.0
4/07/2015	20.6	9.8	47.5	20:00	0	100.0
5/07/2015	17.2	3.0	33.8	19:00	0	100.0
6/07/2015	19.6	5.2	36.3	09:00	0	100.0
7/07/2015	16.5	10.2	29.4	16:00	0	100.0
8/07/2015	15.5	11.3	23.7	10:00	0	100.0
9/07/2015	12.4	6.5	22.4	23:00	0	100.0
10/07/2015	16.9	11.0	29.2	22:00	0	100.0
11/07/2015	15.0	6.0	25.3	10:00	0	100.0
12/07/2015	11.7	2.2	34.4	06:00	0	100.0
13/07/2015	10.4	5.2	25.4	12:00	0	100.0
14/07/2015	8.0	3.4	13.3	18:00	0	100.0
15/07/2015	15.0	3.0	26.3	21:00	0	100.0
16/07/2015	16.5	1.4	37.5	08:00	0	100.0
17/07/2015	12.9	3.2	28.9	11:00	0	100.0
18/07/2015	14.1	2.4	32.4	21:00	0	100.0
19/07/2015	13.8	9.2	20.3	19:00	0	100.0
20/07/2015	13.1	7.2	22.0	20:00	0	100.0
21/07/2015	18.3	11.0	30.2	13:00	0	100.0
22/07/2015	15.4	9.5	28.2	01:00	0	95.8
23/07/2015	17.7	9.2	30.8	21:00	0	100.0
24/07/2015	20.6	11.1	27.9	02:00	0	100.0
25/07/2015	16.0	6.5	31.2	23:00	0	100.0
26/07/2015	22.7	15.0	30.5	22:00	0	100.0
27/07/2015	13.7	7.0	23.8	13:00	0	100.0
28/07/2015	15.8	7.0	21.8	08:00	0	100.0
29/07/2015	18.0	7.4	33.6	20:00	0	100.0
30/07/2015	18.7	12.0	26.5	08:00	0	100.0
31/07/2015	22.7	10.3	43.9	08:00	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 PM₁₀ Monthly Summary

Graphical Representations

Nitrogen Dioxide

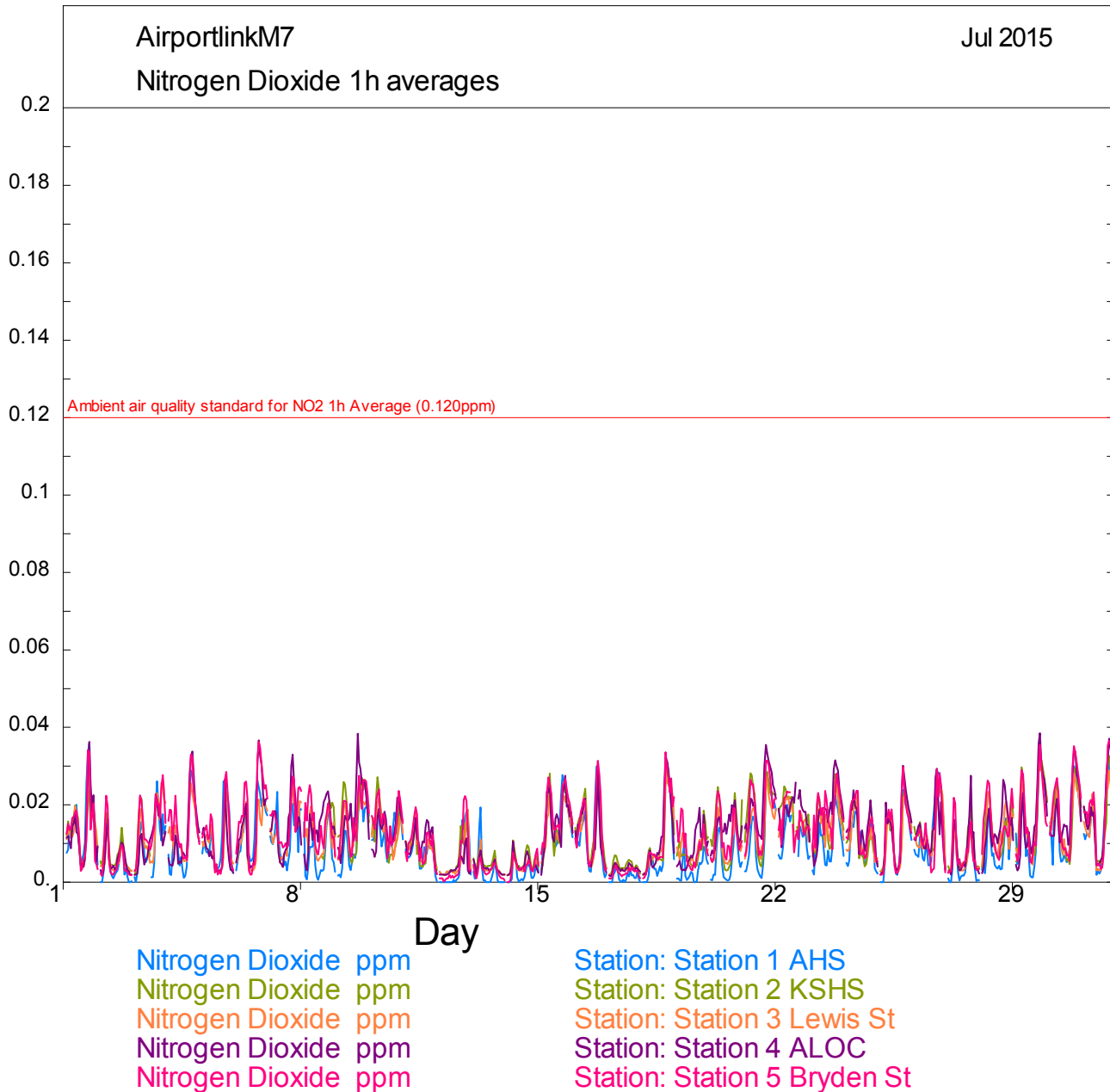


Figure 1 Nitrogen Dioxide 1hr averages

Carbon Monoxide 8hr Rolling Averages

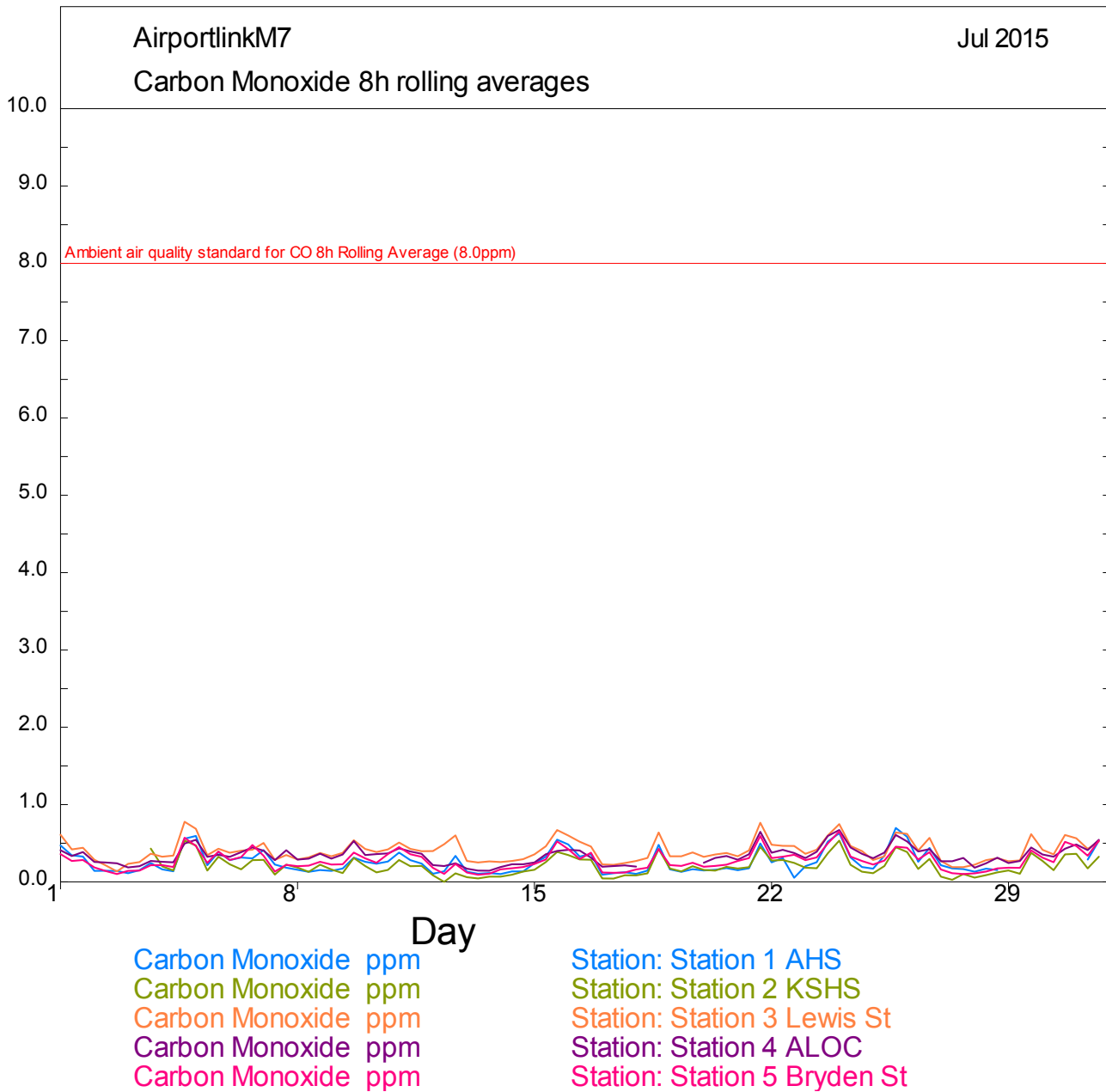


Figure 2 Carbon Monoxide 8hr rolling averages

PM₁₀ 24hr Averages

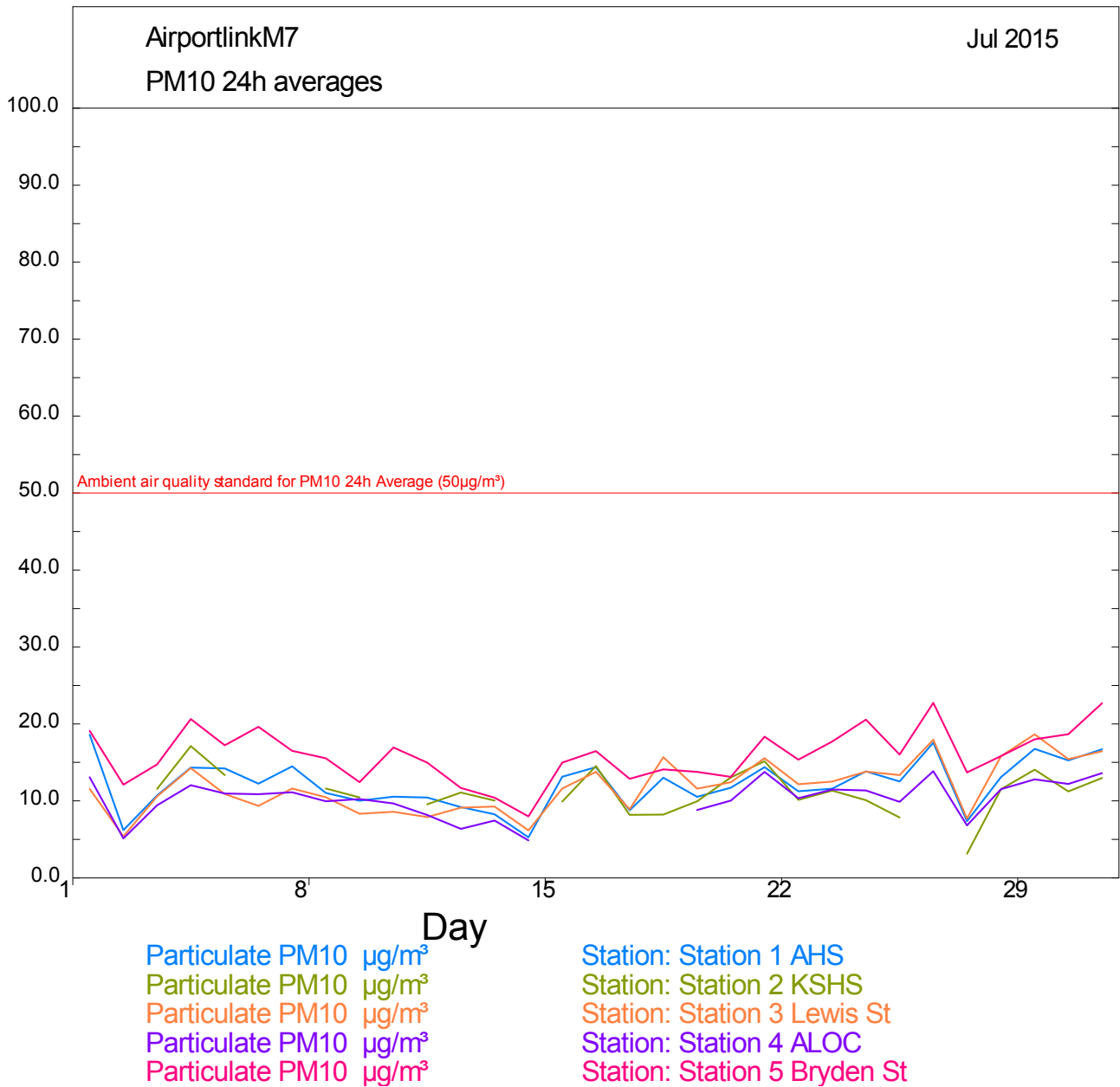


Figure 3 PM₁₀ 24hr Averages

PM_{2.5} 24hr Averages

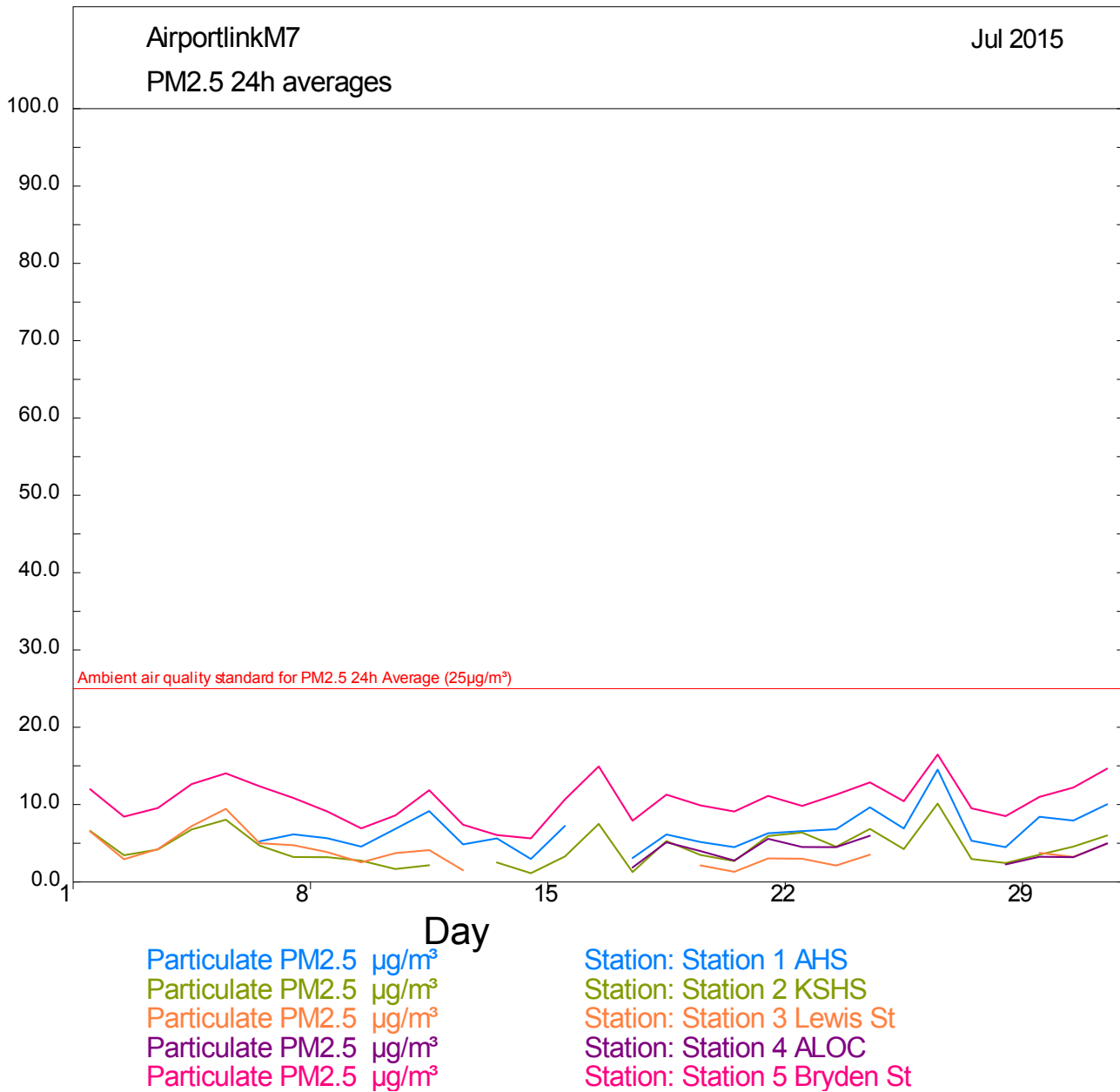


Figure 4 PM_{2.5} 24hr Averages

TSP High Volume Air Sampler Results

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

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

TSP Results July 2015					
Sample Date	Station 1 AHS ($\mu\text{g}/\text{m}^3$)	Station 2 KSHS ($\mu\text{g}/\text{m}^3$)	Station 3 LS ($\mu\text{g}/\text{m}^3$)	Station 4 ALOC ($\mu\text{g}/\text{m}^3$)	Station 5 BS ($\mu\text{g}/\text{m}^3$)
5/06/2015	93	25	24	24	34
11/06/2015	19	20	16	21	18
17/06/2015	13	10	11	9	11
23/06/2015	48	25	19	23	20
29/06/2015	7	6	6	8	7
Monthly Average	36.0	17.2	15.2	17.0	18.0

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 July 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/07/2015 1:40	31/07/2015 14:00	PM _{2.5}	Intermittent instrument faults - fault codes logged	12/08/2015	CP	
1/07/2015 9:15	31/07/2015 11:50	PM ₁₀ , PM _{2.5}	Intermittent unrealistic data less than negative 1 µg/m ³	12/08/2015	CP	
3/07/2015 12:15	3/07/2015 13:30	CO, NO, NO ₂ , NO _x	Maintenance	12/08/2015	CP	
18/07/2015 6:45	18/07/2015 6:45	All parameters	Data communication error - not enough samples	12/08/2015	CP	
22/07/2015 12:15	22/07/2015 15:15	All parameters	Maintenance	12/08/2015	CP	
28/07/2015 20:15	31/07/2015 13:35	CO	Instrument fault	12/08/2015	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 July 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/07/2015 0:00	3/07/2015 14:10	CO	Instrument fault	12/08/2015	CP	
1/07/2015 1:05	31/07/2015 23:50	PM _{2.5} , PM ₁₀	Intermittent instrument fault	12/08/2015	CP	
3/07/2015 14:15	3/07/2015 16:10	CO, NO, NO ₂ , NO _x	Maintenance	12/08/2015	CP	
3/07/2015 16:15	8/07/2015 12:20	NO, NO ₂ , NO _x	Instrument fault - nightly span out of tolerance	12/08/2015	CP	
8/07/2015 12:25	8/07/2015 13:35	CO, NO, NO ₂ , NO _x	Maintenance	12/08/2015	CP	
22/07/2015 14:05	22/07/2015 14:45	All parameters	Maintenance	12/08/2015	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 July 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/07/2015 1:05	31/07/2015 23:05	PM _{2.5}	Intermittent instrument faults - fault codes logged	12/08/2015	CP	
1/07/2015 9:25	31/07/2015 10:55	PM ₁₀ , PM _{2.5}	Intermittent unrealistic data less than negative 1 µg/m ³	12/08/2015	CP	
22/07/2015 13:05	22/07/2015 13:40	All channels	Maintenance	12/08/2015	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 July 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/07/2015 0:00	16/07/2015 12:50	PM _{2.5}	Instrument fault	12/08/2015	CP	
1/07/2015 0:45	15/07/2015 17:05	PM ₁₀	Intermittent instrument fault	12/08/2015	CP	
15/07/2015 17:55	18/07/2015 16:00	PM ₁₀	Instrument fault	12/08/2015	CP	
16/07/2015 10:35	16/07/2015 11:10	All parameters	Maintenance	12/08/2015	CP	
16/07/2015 13:05	31/07/2015 23:05	PM _{2.5}	Intermittent instrument fault	12/08/2015	CP	
18/07/2015 1:40	20/07/2015 0:55	CO	Instrument outside of calibration tolerance	12/08/2015	CP	
22/07/2015 15:20	22/07/2015 15:35	All parameters	Maintenance	12/08/2015	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 July 2015						
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed by	
1/07/2015 1:00	31/07/2015 23:45	PM _{2.5} , PM ₁₀	Intermittent instrument faults - fault codes logged	12/08/2015	CP	
5/07/2015 13:50	27/07/2015 16:45	PM _{2.5}	Intermittent unrealistic data less than negative 1 µg/m ³	12/08/2015	CP	
22/07/2015 11:15	22/07/2015 11:40	All parameters	Maintenance	12/08/2015	CP	

Table 34 Station 5 Bryden St AQMS Data Validation Table