



Ventia Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

July 2016

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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

CS – Cartwright St

Executive Summary

Exceedance Reporting

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

AirportlinkM7 AQMS Exceedance Reporting July 2016							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences July 2016				
			Station 1 (AHS)	Station 2 (KSHS)	Station 3 (LS)	Station 4 (ALOC)	Station 5 (CS)
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 Exceedance Reporting

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

Introduction

Norditech Pty Ltd was appointed by Ventia 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 (Cartwright 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

- 201508 ALM7 Monthly Validated Data Spreadsheet.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 ₂ NO _x	ppm	2.78%	AS 3580.5.1	26/07/2016	27/07/2016	26/07/2016	26/07/2016	27/07/2016
CO	ppm	2.56%	AS 3580.7.1	26/07/2016	27/07/2016	26/07/2016	26/07/2016	27/07/2016
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	23/05/2016*	23/05/2016	22/05/2016*	22/05/2016*	23/05/2016
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308- 170	23/05/2016	23/05/2016	22/05/2016	22/05/2016	23/05/2016
TSP	µg/m ³	7.34%	AS 3580.9.3	26/07/2016	27/07/2016	26/07/2016	26/07/2016	27/07/2016

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 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.039	30/07/2016 19:00	96.7
CO	ppm	8.0	8 Hours	0.7	31/07/2016 02:00	96.2
PM _{2.5}	µg/m3	25	24 Hours	15.2	31/07/2016	91.8
PM ₁₀	µg/m3	50	24 Hours	26.6	14/07/2016	98.1

Table 4 Station 1 Monthly Summary

Graphical Representations

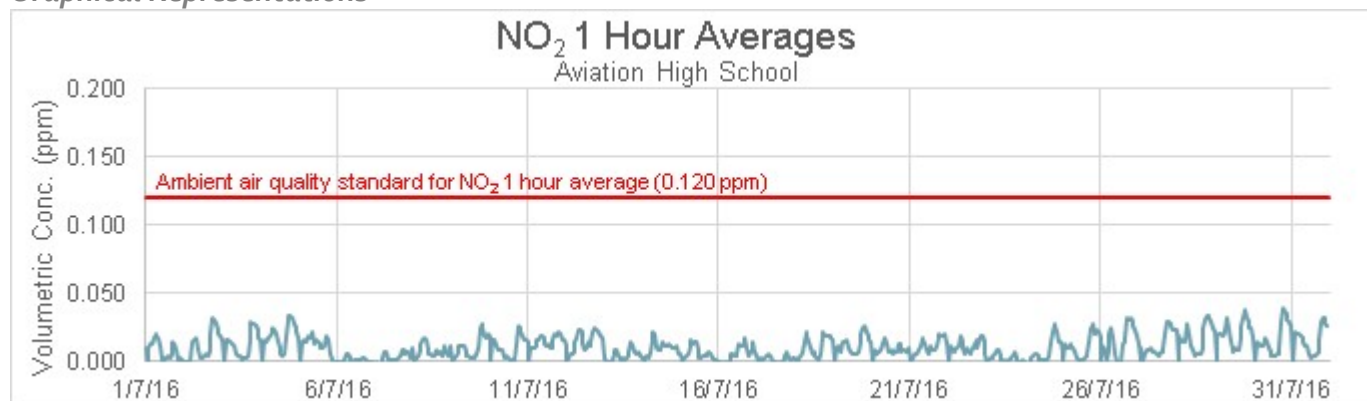


Figure 1 Station 1 Nitrogen Dioxide 1hr averages

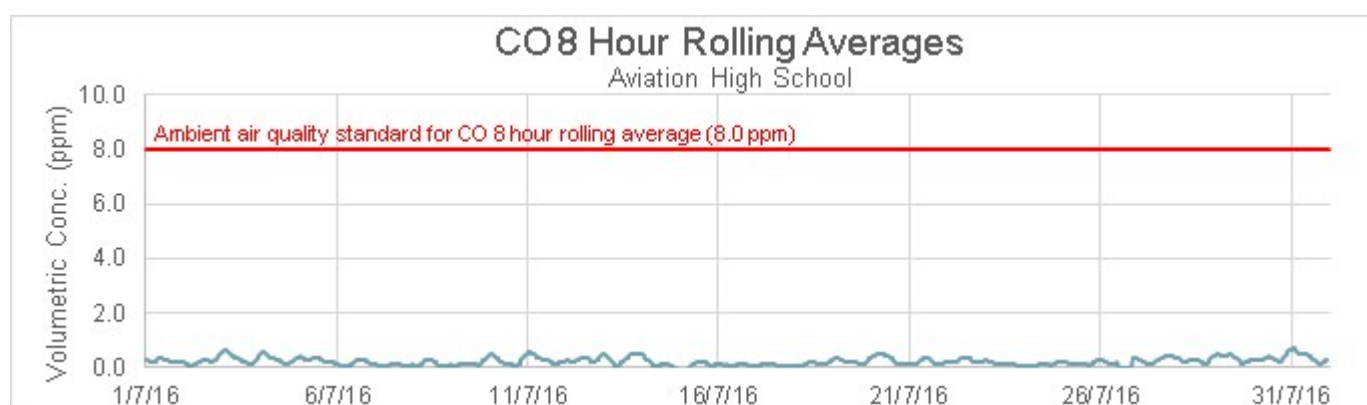


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

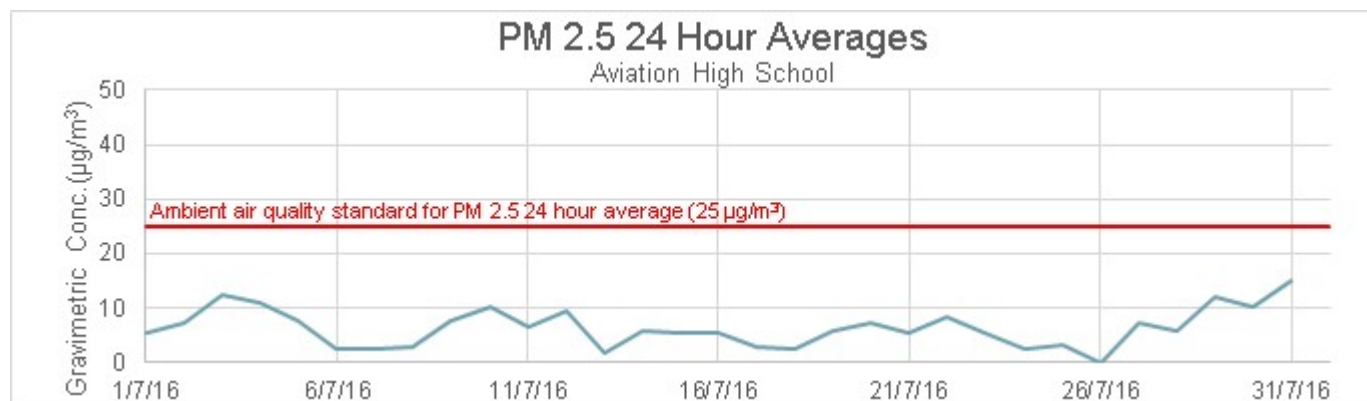


Figure 3 Station 1 PM2.5 24hr averages

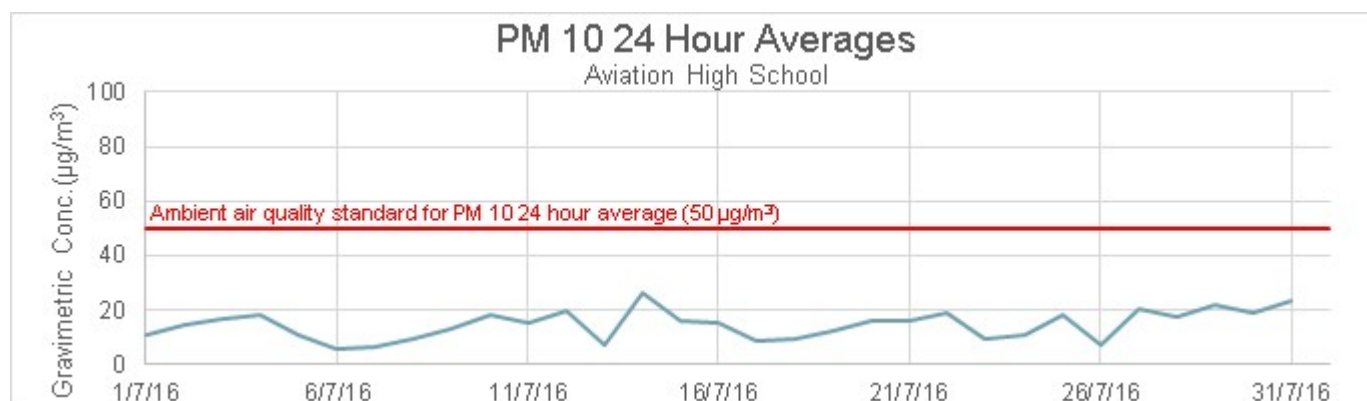


Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary July 2016						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/07/2016	0.008	0.001	0.020	06:00	0	97.2
2/07/2016	0.012	0.000	0.032	18:00	0	97.2
3/07/2016	0.014	0.002	0.029	18:00	0	97.2
4/07/2016	0.020	0.004	0.033	19:00	0	97.2
5/07/2016	0.013	0.000	0.022	09:00	0	97.2
6/07/2016	0.001	-0.001	0.006	06:00	0	97.2
7/07/2016	0.003	-0.002	0.009	18:00	0	97.2
8/07/2016	0.008	0.003	0.018	07:00	0	97.2
9/07/2016	0.011	0.002	0.028	19:00	0	97.2
10/07/2016	0.011	0.001	0.026	18:00	0	97.2
11/07/2016	0.015	0.010	0.022	19:00	0	97.2
12/07/2016	0.015	0.003	0.024	18:00	0	97.2
13/07/2016	0.005	-0.001	0.014	17:00	0	97.2
14/07/2016	0.010	0.002	0.022	07:00	0	97.2
15/07/2016	0.006	0.001	0.016	07:00	0	97.2
16/07/2016	0.006	-0.001	0.018	17:00	0	97.2
17/07/2016	0.002	-0.001	0.006	19:00	0	97.2
18/07/2016	0.011	0.002	0.022	07:00	0	97.2
19/07/2016	0.013	0.005	0.026	20:00	0	97.2
20/07/2016	0.010	0.005	0.018	09:00	0	97.2
21/07/2016	0.012	0.003	0.020	22:00	0	97.2
22/07/2016	0.012	0.006	0.020	08:00	0	97.2
23/07/2016	0.003	0.000	0.009	07:00	0	97.2
24/07/2016	0.007	-0.002	0.028	19:00	0	97.2
25/07/2016	0.011	0.001	0.028	20:00	0	97.2
26/07/2016	0.018	0.001	0.033	17:00	0	80.2
27/07/2016	0.013	0.002	0.029	18:00	0	97.2
28/07/2016	0.019	0.005	0.034	20:00	0	97.2
29/07/2016	0.021	0.007	0.038	19:00	0	97.2
30/07/2016	0.017	0.004	0.039	19:00	0	97.2
31/07/2016	0.017	0.003	0.033	20:00	0	97.2

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 5 Station 1 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary July 2016								
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		
1/07/2016	0.2	0.1	0.6	07:00	0.3	09:00	0	96.9
2/07/2016	0.3	0.0	0.8	23:00	0.5	23:00	0	96.9
3/07/2016	0.3	0.0	0.8	20:00	0.7	02:00	0	96.5
4/07/2016	0.3	0.0	0.6	00:00	0.6	02:00	0	96.5
5/07/2016	0.2	0.0	0.7	08:00	0.4	01:00	0	96.5
6/07/2016	0.2	0.0	0.4	12:00	0.3	15:00	0	96.5
7/07/2016	0.1	0.0	0.3	10:00	0.1	12:00	0	96.5
8/07/2016	0.2	0.1	0.7	07:00	0.3	08:00	0	96.5
9/07/2016	0.2	0.1	0.7	19:00	0.4	23:00	0	96.5
10/07/2016	0.3	0.0	0.7	22:00	0.5	02:00	0	96.5
11/07/2016	0.3	0.1	0.5	00:00	0.6	01:00	0	96.5
12/07/2016	0.3	0.1	0.7	22:00	0.5	23:00	0	96.5
13/07/2016	0.3	0.0	0.6	17:00	0.5	23:00	0	96.9
14/07/2016	0.0	-0.2	0.2	07:00	0.5	00:00	0	96.9
15/07/2016	0.1	0.0	0.4	11:00	0.2	12:00	0	96.9
16/07/2016	0.1	0.0	0.2	10:00	0.1	17:00	0	96.9
17/07/2016	0.1	0.0	0.1	09:00	0.1	09:00	0	96.9
18/07/2016	0.2	0.0	0.5	21:00	0.3	23:00	0	96.9
19/07/2016	0.2	0.1	0.6	21:00	0.4	03:00	0	96.9
20/07/2016	0.3	0.1	0.6	07:00	0.5	07:00	0	96.9
21/07/2016	0.2	0.1	0.6	07:00	0.3	11:00	0	96.9
22/07/2016	0.3	0.1	0.7	08:00	0.4	10:00	0	96.9
23/07/2016	0.1	0.1	0.2	00:00	0.3	01:00	0	96.9
24/07/2016	0.1	0.0	0.4	09:00	0.2	23:00	0	96.9
25/07/2016	0.2	0.1	0.5	20:00	0.3	23:00	0	96.9
26/07/2016	0.3	0.0	0.4	14:00	0.4	21:00	0	79.9
27/07/2016	0.3	0.1	0.7	20:00	0.5	20:00	0	96.9
28/07/2016	0.3	0.1	0.7	20:00	0.4	23:00	0	96.9
29/07/2016	0.3	0.1	0.7	08:00	0.5	02:00	0	96.9
30/07/2016	0.4	0.1	1.0	20:00	0.6	23:00	0	96.9
31/07/2016	0.3	0.1	0.6	09:00	0.7	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 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM _{2.5} Summary July 2016						
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		
1/07/2016	5.6	-0.9	14.0	06:00	0	100.0
2/07/2016	7.3	1.2	24.8	21:00	0	100.0
3/07/2016	12.4	3.0	29.2	22:00	0	95.8
4/07/2016	11.1	2.1	25.4	00:00	0	95.8
5/07/2016	7.7	1.2	26.3	22:00	0	100.0
6/07/2016	2.4	0.2	4.9	09:00	0	100.0
7/07/2016	2.7	-1.0	25.3	19:00	0	79.2
8/07/2016	3.1	-0.8	6.9	08:00	0	95.8
9/07/2016	7.5	0.0	20.7	22:00	0	95.8
10/07/2016	10.1	2.0	21.4	01:00	0	91.7
11/07/2016	6.5	2.1	15.5	01:00	0	100.0
12/07/2016	9.5	4.1	23.5	22:00	0	100.0
13/07/2016	1.8	-0.9	15.8	00:00	0	79.2
14/07/2016	5.8	0.0	19.8	13:00	0	79.2
15/07/2016	5.5	0.6	8.5	00:00	0	87.5
16/07/2016	5.3	1.0	14.4	23:00	0	95.8
17/07/2016	3.1	-1.0	8.6	00:00	0	95.8
18/07/2016	2.5	-0.9	5.0	08:00	0	100.0
19/07/2016	6.0	1.0	11.5	10:00	0	95.8
20/07/2016	7.4	0.0	15.0	16:00	0	87.5
21/07/2016	5.5	0.3	13.0	07:00	0	100.0
22/07/2016	8.4	2.0	23.1	23:00	0	91.7
23/07/2016	5.5	0.3	23.1	00:00	0	100.0
24/07/2016	2.7	0.1	8.8	22:00	0	83.3
25/07/2016	3.1	0.0	9.4	20:00	0	87.5
¹ 26/07/2016	-	0.3	9.6	00:00	0	45.8
27/07/2016	7.2	-1.0	28.5	14:00	0	79.2
28/07/2016	5.8	0.1	15.7	21:00	0	100.0
29/07/2016	12.1	2.3	26.0	09:00	0	100.0
30/07/2016	10.3	2.2	31.8	22:00	0	95.8
31/07/2016	15.2	1.3	36.0	07:00	0	87.5

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

¹ Loss of data due to maintenance

Table 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary July 2016						
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		
1/07/2016	10.6	4.5	26.4	07:00	0	95.8
2/07/2016	14.8	4.8	31.9	19:00	0	100.0
3/07/2016	16.6	7.1	33.3	20:00	0	100.0
4/07/2016	18.6	10.4	27.6	20:00	0	100.0
5/07/2016	10.7	0.9	23.0	08:00	0	100.0
6/07/2016	5.5	2.9	17.4	13:00	0	95.8
7/07/2016	6.6	3.7	10.7	10:00	0	100.0
8/07/2016	9.2	5.2	21.7	07:00	0	100.0
9/07/2016	13.1	5.7	27.7	19:00	0	100.0
10/07/2016	18.1	9.3	34.7	19:00	0	100.0
11/07/2016	15.6	10.3	20.9	08:00	0	100.0
12/07/2016	20.1	6.1	33.2	21:00	0	100.0
13/07/2016	7.3	3.4	12.3	17:00	0	91.7
14/07/2016	26.6	2.5	217.1	12:00	0	100.0
15/07/2016	15.8	10.3	27.1	11:00	0	100.0
16/07/2016	15.0	6.6	21.7	12:00	0	100.0
17/07/2016	8.9	2.0	16.1	18:00	0	100.0
18/07/2016	9.3	3.8	18.0	22:00	0	100.0
19/07/2016	12.2	6.3	19.8	08:00	0	100.0
20/07/2016	16.3	7.1	34.2	07:00	0	100.0
21/07/2016	16.0	7.3	34.4	07:00	0	100.0
22/07/2016	19.4	8.0	35.5	07:00	0	100.0
23/07/2016	9.3	5.2	24.1	00:00	0	100.0
24/07/2016	10.8	3.6	19.9	17:00	0	100.0
25/07/2016	18.5	5.3	145.6	12:00	0	100.0
26/07/2016	7.3	1.4	14.6	00:00	0	79.2
27/07/2016	20.4	1.1	94.1	12:00	0	79.2
28/07/2016	17.7	9.1	25.7	20:00	0	100.0
29/07/2016	22.3	13.2	39.5	07:00	0	100.0
30/07/2016	19.2	5.4	52.1	20:00	0	100.0
31/07/2016	23.7	11.3	43.6	07:00	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 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.034	04/07/2016 19:00	94.1
CO	ppm	8.0	8 Hours	0.6	12/07/2016 23:00	96.7
PM _{2.5}	µg/m ³	25	24 Hours	17.6	31/07/2016	92.6
PM ₁₀	µg/m ³	50	24 Hours	24.7	29/07/2016	99.7

Table 9 Station 2 Monthly Summary

Graphical Representations

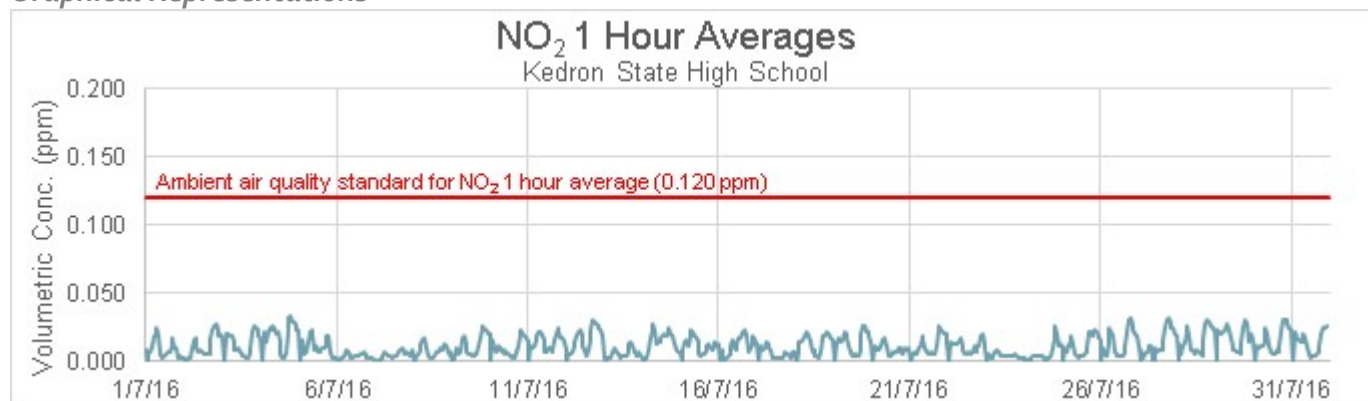


Figure 5 Station 2 Dioxide 1hr averages

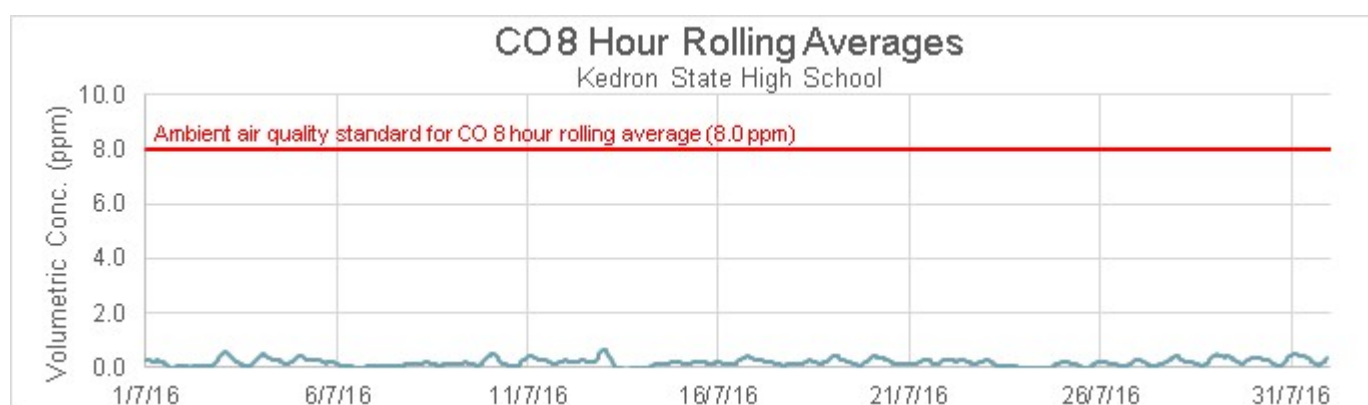


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

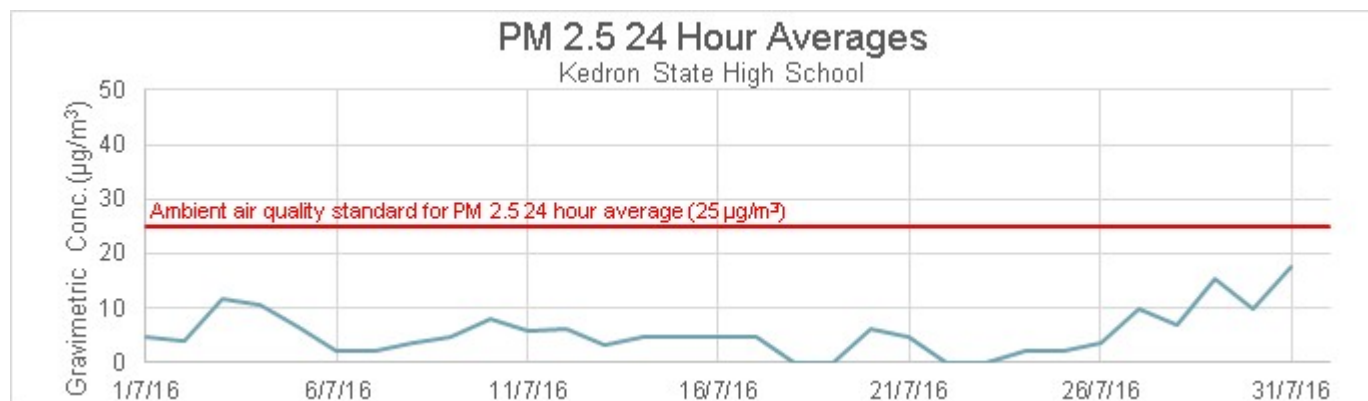


Figure 7 Station 2 PM2.5 24hr averages

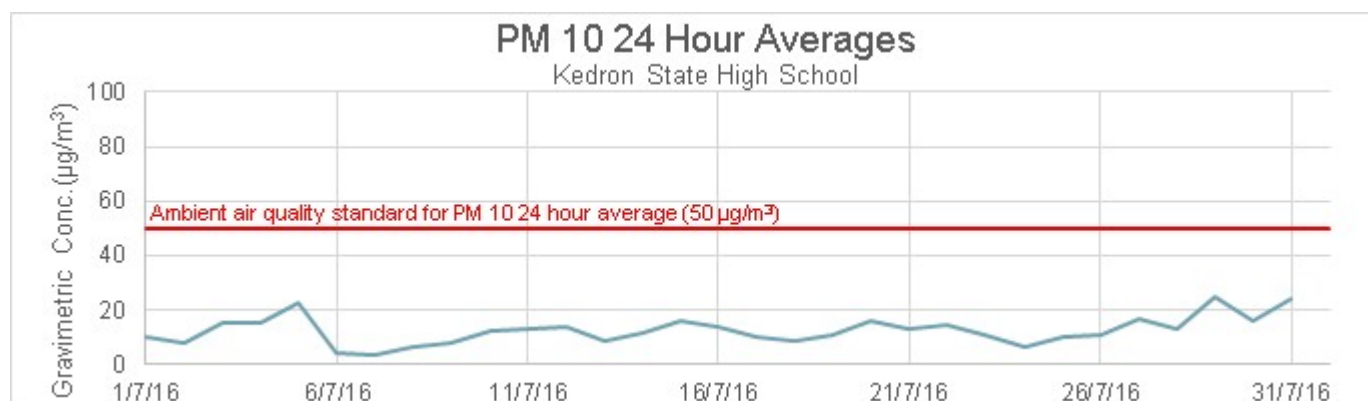


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary July 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/07/2016	0.010	0.003	0.024	07:00	0	93.4
2/07/2016	0.012	0.002	0.028	20:00	0	94.1
3/07/2016	0.013	0.002	0.026	20:00	0	94.1
4/07/2016	0.020	0.002	0.034	19:00	0	94.4
5/07/2016	0.012	0.003	0.024	08:00	0	94.8
6/07/2016	0.004	0.002	0.008	06:00	0	94.4
7/07/2016	0.005	0.001	0.010	17:00	0	94.1
8/07/2016	0.008	0.003	0.018	07:00	0	95.1
9/07/2016	0.012	0.003	0.026	20:00	0	94.1
10/07/2016	0.011	0.003	0.024	20:00	0	95.5
11/07/2016	0.015	0.007	0.024	19:00	0	93.4
12/07/2016	0.017	0.004	0.030	17:00	0	94.1
13/07/2016	0.006	0.002	0.014	17:00	0	94.4
14/07/2016	0.015	0.003	0.028	07:00	0	93.8
15/07/2016	0.012	0.005	0.023	07:00	0	94.1
16/07/2016	0.012	0.001	0.023	17:00	0	94.1
17/07/2016	0.007	0.002	0.014	06:00	0	93.4
18/07/2016	0.014	0.003	0.023	07:00	0	93.8
19/07/2016	0.015	0.004	0.026	19:00	0	92.4
20/07/2016	0.010	0.004	0.017	08:00	0	94.8
21/07/2016	0.012	0.005	0.026	19:00	0	94.4
22/07/2016	0.011	0.005	0.021	22:00	0	93.1
23/07/2016	0.005	0.002	0.010	00:00	0	93.8
24/07/2016	0.006	0.001	0.027	20:00	0	95.1
25/07/2016	0.012	0.003	0.023	21:00	0	95.1
26/07/2016	0.015	0.004	0.031	19:00	0	95.5
27/07/2016	0.015	0.003	0.032	19:00	0	89.2
28/07/2016	0.016	0.004	0.031	19:00	0	93.8
29/07/2016	0.018	0.006	0.031	19:00	0	95.1
30/07/2016	0.016	0.005	0.031	20:00	0	94.8
31/07/2016	0.015	0.003	0.026	23:00	0	94.8

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 KSHS Ambient AQMS Carbon Monoxide Summary July 2016								
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		
1/07/2016	0.1	-0.1	0.4	07:00	0.3	01:00	0	96.9
2/07/2016	0.2	0.0	0.7	23:00	0.5	23:00	0	96.9
3/07/2016	0.3	0.0	0.7	22:00	0.6	02:00	0	96.9
4/07/2016	0.3	0.1	0.5	21:00	0.5	02:00	0	96.9
5/07/2016	0.2	0.0	0.6	08:00	0.4	01:00	0	96.9
6/07/2016	0.0	0.0	0.1	17:00	0.2	00:00	0	96.9
7/07/2016	0.1	0.0	0.2	23:00	0.1	23:00	0	96.9
8/07/2016	0.1	0.0	0.5	07:00	0.2	07:00	0	96.9
9/07/2016	0.2	0.1	0.6	20:00	0.4	23:00	0	96.9
10/07/2016	0.2	0.0	0.6	22:00	0.5	02:00	0	96.9
11/07/2016	0.2	0.1	0.5	07:00	0.4	02:00	0	96.9
12/07/2016	0.4	0.1	0.9	21:00	0.6	23:00	0	96.9
13/07/2016	0.0	-0.1	0.1	00:00	0.6	01:00	0	96.9
14/07/2016	0.1	0.0	0.3	17:00	0.2	21:00	0	96.9
15/07/2016	0.2	0.1	0.3	07:00	0.2	11:00	0	96.9
16/07/2016	0.3	0.1	0.5	13:00	0.4	19:00	0	96.9
17/07/2016	0.1	0.1	0.3	00:00	0.3	00:00	0	96.9
18/07/2016	0.3	0.1	0.6	22:00	0.4	23:00	0	96.9
19/07/2016	0.2	0.0	0.5	21:00	0.4	01:00	0	96.9
20/07/2016	0.2	0.0	0.5	07:00	0.4	02:00	0	96.9
21/07/2016	0.2	0.1	0.5	07:00	0.3	23:00	0	96.9
22/07/2016	0.2	0.1	0.5	07:00	0.3	01:00	0	96.9
23/07/2016	0.0	-0.1	0.2	00:00	0.3	01:00	0	96.9
24/07/2016	0.1	0.0	0.3	20:00	0.2	23:00	0	96.9
25/07/2016	0.1	0.0	0.3	21:00	0.2	02:00	0	96.9
26/07/2016	0.2	0.0	0.4	18:00	0.3	23:00	0	96.9
27/07/2016	0.2	0.1	0.5	19:00	0.4	23:00	0	91.0
28/07/2016	0.2	0.0	0.6	21:00	0.4	01:00	0	96.9
29/07/2016	0.3	0.1	0.6	07:00	0.5	02:00	0	96.9
30/07/2016	0.3	0.0	0.7	21:00	0.4	23:00	0	96.9
31/07/2016	0.3	0.0	0.5	23:00	0.5	2:00	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_{2.5} Summary

Station 2 KSHS Ambient AQMS Particulate PM _{2.5} Summary July 2016						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/07/2016	4.7	1.2	14.0	10:00	0	100.0
2/07/2016	3.9	1.4	11.2	23:00	0	100.0
3/07/2016	11.6	1.6	19.9	06:00	0	100.0
4/07/2016	10.6	3.6	17.1	04:00	0	100.0
5/07/2016	6.6	2.5	10.9	12:00	0	100.0
6/07/2016	2.3	1.2	4.7	12:00	0	100.0
7/07/2016	2.1	1.2	3.7	14:00	0	100.0
8/07/2016	3.5	1.4	9.6	10:00	0	100.0
9/07/2016	4.8	0.9	13.7	10:00	0	100.0
10/07/2016	7.9	2.2	14.3	02:00	0	100.0
11/07/2016	5.7	1.5	13.4	10:00	0	100.0
12/07/2016	6.3	2.7	11.7	12:00	0	100.0
13/07/2016	3.3	1.0	12.4	00:00	0	100.0
14/07/2016	4.7	1.2	9.6	16:00	0	100.0
15/07/2016	4.7	1.2	10.8	12:00	0	100.0
16/07/2016	4.8	1.2	7.7	20:00	0	100.0
17/07/2016	4.7	1.2	12.3	10:00	0	100.0
¹ 18/07/2016	-	0.8	4.3	16:00	0	70.8
¹ 19/07/2016	-	0.5	5.3	16:00	0	70.8
20/07/2016	6.1	0.5	17.7	12:00	0	87.5
21/07/2016	4.9	1.4	20.4	10:00	0	100.0
¹ 22/07/2016	-	1.1	6.8	16:00	0	66.7
¹ 23/07/2016	-	-	-	-	0	0.0
24/07/2016	2.3	0.9	5.1	10:00	0	83.3
25/07/2016	2.1	0.9	4.1	10:00	0	100.0
26/07/2016	3.5	1.4	6.9	23:00	0	100.0
27/07/2016	9.7	4.6	19.2	16:00	0	91.7
28/07/2016	6.9	1.6	14.8	04:00	0	100.0
29/07/2016	15.4	3.2	26.5	10:00	0	100.0
30/07/2016	10.0	3.3	20.3	10:00	0	100.0
31/07/2016	17.6	7.1	35.5	8:00	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

¹ Loss of data due to instrument fault

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary July 2016						
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		
1/07/2016	10.1	5.8	17.5	10:00	0	100.0
2/07/2016	7.7	1.8	21.2	23:00	0	100.0
3/07/2016	15.1	6.0	25.9	08:00	0	100.0
4/07/2016	15.5	8.6	20.9	04:00	0	100.0
5/07/2016	22.9	4.6	100.7	00:00	0	100.0
6/07/2016	4.3	2.0	8.2	20:00	0	100.0
7/07/2016	3.6	2.1	7.2	08:00	0	100.0
8/07/2016	6.2	3.2	9.8	02:00	0	100.0
9/07/2016	8.1	2.9	17.6	10:00	0	100.0
10/07/2016	12.6	7.6	20.0	22:00	0	100.0
11/07/2016	12.8	5.4	23.7	10:00	0	100.0
12/07/2016	13.5	4.1	25.9	18:00	0	100.0
13/07/2016	9.0	2.0	26.1	00:00	0	100.0
14/07/2016	11.8	4.6	24.3	18:00	0	100.0
15/07/2016	15.7	9.5	23.3	12:00	0	100.0
16/07/2016	13.8	8.3	21.1	10:00	0	100.0
17/07/2016	10.2	7.4	14.2	06:00	0	100.0
18/07/2016	8.8	3.9	18.0	22:00	0	100.0
19/07/2016	11.0	6.0	18.0	08:00	0	100.0
20/07/2016	15.9	8.8	25.5	18:00	0	100.0
21/07/2016	13.4	8.2	20.4	10:00	0	100.0
22/07/2016	14.8	7.1	24.5	23:00	0	100.0
23/07/2016	10.7	3.8	25.0	00:00	0	100.0
24/07/2016	6.7	3.5	10.4	23:00	0	100.0
25/07/2016	10.3	4.4	16.4	08:00	0	100.0
26/07/2016	11.0	4.5	17.9	10:00	0	100.0
27/07/2016	16.7	7.8	28.2	18:00	0	91.7
28/07/2016	13.5	6.7	22.9	02:00	0	100.0
29/07/2016	24.7	15.7	38.9	10:00	0	100.0
30/07/2016	15.7	6.5	25.7	10:00	0	100.0
31/07/2016	24.4	15.0	44.5	10:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

Table 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary July 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.034	30/07/2016 19:00	79.2
CO	ppm	8.0	8 Hours	0.7	31/07/2016 02:00	78.9
PM _{2.5}	µg/m3	25	24 Hours	17.7	31/07/2016	79.8
PM ₁₀	µg/m3	50	24 Hours	23.9	31/07/2016	80.8

Table 14 Station 3 Monthly Summary

Graphical Representations

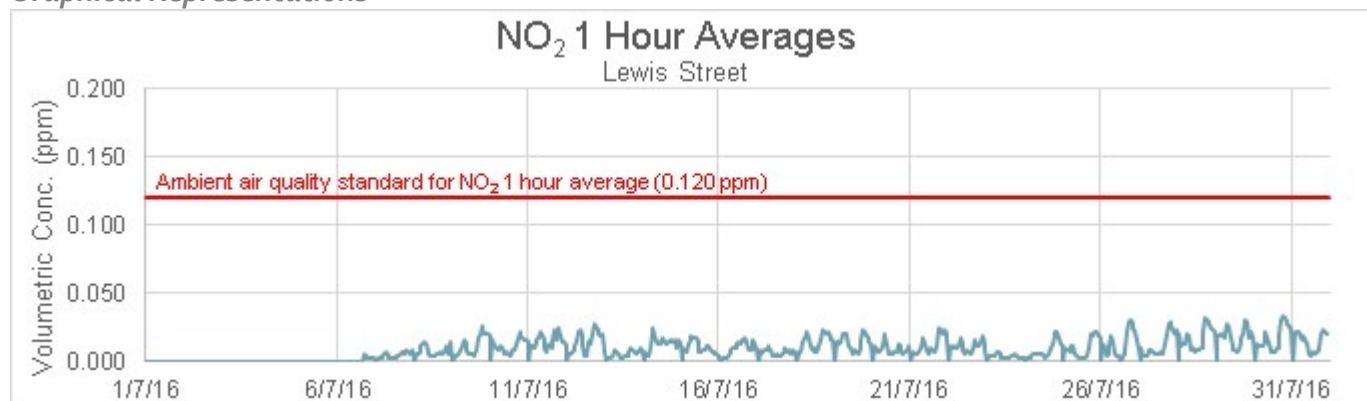


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

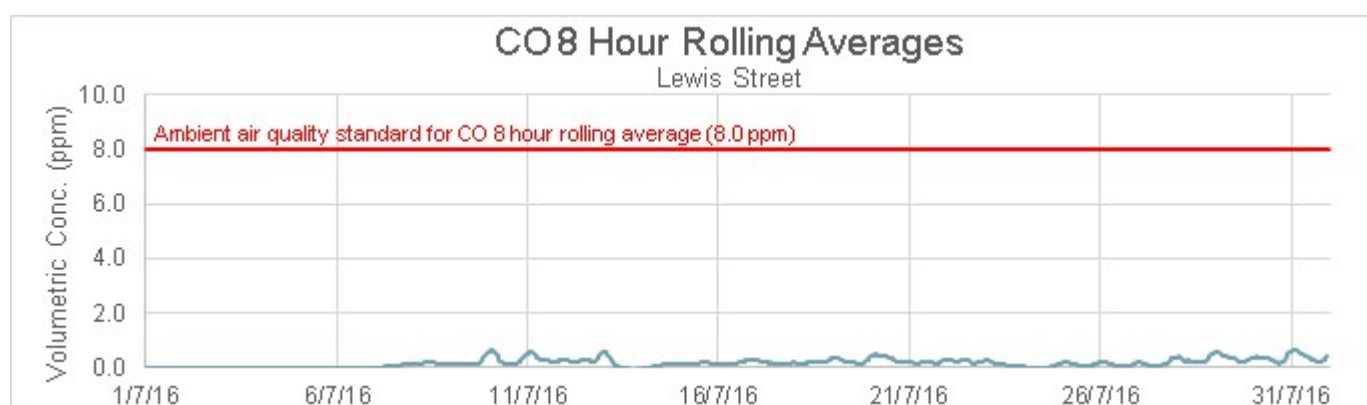


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

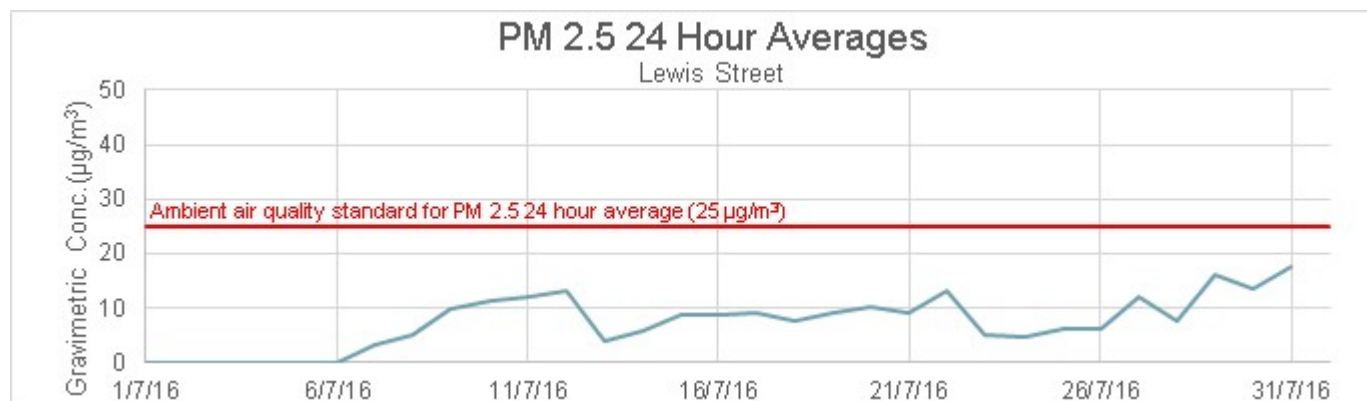


Figure 11 Station 3 PM2.5 24hr averages

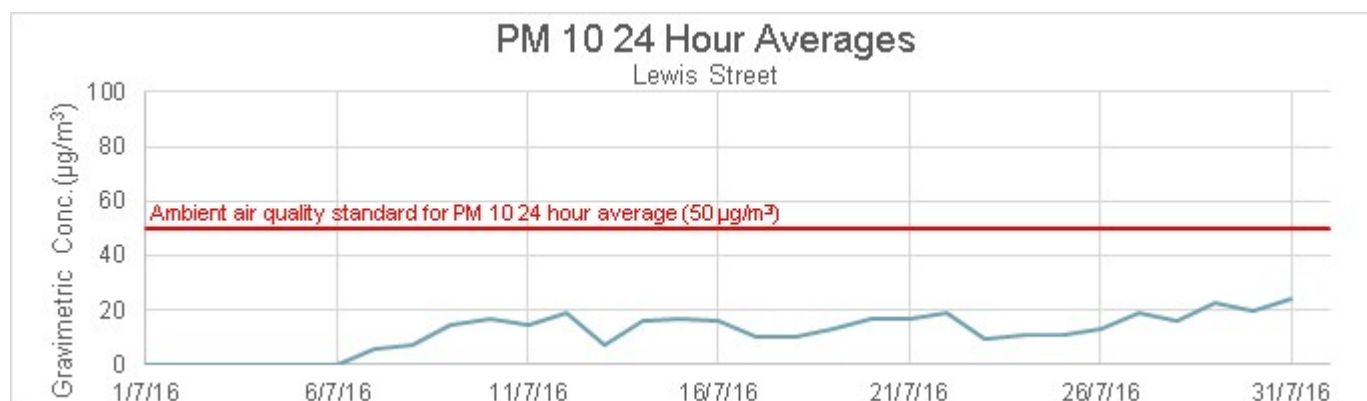


Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary July 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
¹ 1/07/2016	-	-	-	-	0	0.0
¹ 2/07/2016	-	-	-	-	0	0.0
¹ 3/07/2016	-	-	-	-	0	0.0
¹ 4/07/2016	-	-	-	-	0	0.0
¹ 5/07/2016	-	-	-	-	0	0.0
¹ 6/07/2016	-	0.002	0.005	17:00	0	30.2
7/07/2016	0.005	0.002	0.008	20:00	0	96.5
8/07/2016	0.007	0.004	0.014	07:00	0	96.9
9/07/2016	0.012	0.004	0.026	19:00	0	97.2
10/07/2016	0.012	0.005	0.021	19:00	0	96.9
11/07/2016	0.015	0.008	0.024	20:00	0	97.2
12/07/2016	0.015	0.004	0.027	18:00	0	97.2
13/07/2016	0.006	0.003	0.010	23:00	0	96.9
14/07/2016	0.013	0.004	0.025	07:00	0	96.9
15/07/2016	0.011	0.005	0.019	07:00	0	97.2
16/07/2016	0.010	0.003	0.018	16:00	0	97.2
17/07/2016	0.007	0.004	0.012	07:00	0	97.2
18/07/2016	0.014	0.005	0.024	17:00	0	97.2
19/07/2016	0.014	0.005	0.023	19:00	0	97.2
20/07/2016	0.010	0.005	0.020	08:00	0	97.2
21/07/2016	0.013	0.005	0.024	19:00	0	97.2
22/07/2016	0.011	0.006	0.019	22:00	0	97.2
23/07/2016	0.004	0.003	0.009	00:00	0	97.2
24/07/2016	0.008	0.002	0.022	20:00	0	97.2
25/07/2016	0.010	0.003	0.023	21:00	0	97.2
26/07/2016	0.014	0.004	0.030	19:00	0	93.1
27/07/2016	0.012	0.004	0.030	20:00	0	97.2
28/07/2016	0.017	0.008	0.032	18:00	0	97.2
29/07/2016	0.018	0.008	0.030	19:00	0	97.2
30/07/2016	0.017	0.007	0.034	19:00	0	97.2
31/07/2016	0.015	0.005	0.023	20:00	0	97.2

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

¹ Loss of data due to data logger failure

Table 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary July 2016

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 1/07/2016	-	-	-	-	-	-	0	0.0
¹ 2/07/2016	-	-	-	-	-	-	0	0.0
¹ 3/07/2016	-	-	-	-	-	-	0	0.0
¹ 4/07/2016	-	-	-	-	-	-	0	0.0
¹ 5/07/2016	-	-	-	-	-	-	0	0.0
¹ 6/07/2016	-	0.0	0.0	17:00	0.0	22:00	0	30.2
7/07/2016	0.1	0.0	0.2	20:00	0.1	23:00	0	96.5
8/07/2016	0.1	0.1	0.4	07:00	0.2	08:00	0	96.9
9/07/2016	0.3	0.1	0.7	20:00	0.6	23:00	0	96.9
10/07/2016	0.3	0.1	0.7	22:00	0.6	01:00	0	96.9
11/07/2016	0.3	0.2	0.6	00:00	0.6	02:00	0	96.5
12/07/2016	0.3	0.1	0.8	22:00	0.6	23:00	0	96.5
13/07/2016	0.0	-0.1	0.1	00:00	0.6	01:00	0	96.9
14/07/2016	0.1	0.0	0.2	20:00	0.2	23:00	0	96.9
15/07/2016	0.2	0.1	0.2	10:00	0.2	14:00	0	96.9
16/07/2016	0.2	0.1	0.3	22:00	0.3	23:00	0	96.9
17/07/2016	0.2	0.1	0.2	18:00	0.3	00:00	0	96.9
18/07/2016	0.2	0.1	0.5	21:00	0.4	23:00	0	96.9
19/07/2016	0.3	0.1	0.6	22:00	0.4	02:00	0	96.9
20/07/2016	0.3	0.2	0.5	08:00	0.5	03:00	0	96.9
21/07/2016	0.2	0.1	0.4	07:00	0.3	23:00	0	96.9
22/07/2016	0.2	0.1	0.5	08:00	0.3	01:00	0	96.9
23/07/2016	0.1	0.0	0.2	00:00	0.3	01:00	0	96.9
24/07/2016	0.1	0.0	0.3	20:00	0.2	23:00	0	96.9
25/07/2016	0.1	0.0	0.3	21:00	0.2	02:00	0	96.9
26/07/2016	0.1	0.0	0.3	21:00	0.2	02:00	0	92.7
27/07/2016	0.2	0.0	0.8	20:00	0.4	23:00	0	96.9
28/07/2016	0.3	0.2	0.8	21:00	0.5	23:00	0	96.9
29/07/2016	0.3	0.2	0.6	06:00	0.6	01:00	0	96.9
30/07/2016	0.4	0.1	0.8	21:00	0.6	23:00	0	96.9
31/07/2016	0.4	0.2	0.7	0:00	0.7	2:00	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

¹ Loss of data due to data logger failure

Table 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary July 2016						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
¹ 1/07/2016	-	-	-	-	0	0.0
¹ 2/07/2016	-	-	-	-	0	0.0
¹ 3/07/2016	-	-	-	-	0	0.0
¹ 4/07/2016	-	-	-	-	0	0.0
¹ 5/07/2016	-	-	-	-	0	0.0
¹ 6/07/2016	-	-0.8	2.9	20:00	0	29.2
7/07/2016	3.2	-1.0	9.8	05:00	0	100.0
8/07/2016	5.1	1.2	11.8	21:00	0	100.0
9/07/2016	9.9	-0.9	30.8	20:00	0	100.0
10/07/2016	11.2	3.0	25.3	00:00	0	100.0
11/07/2016	12.0	6.0	20.5	00:00	0	100.0
12/07/2016	13.1	1.8	27.8	20:00	0	100.0
13/07/2016	4.0	-0.9	21.7	00:00	0	100.0
14/07/2016	5.8	1.3	9.7	16:00	0	100.0
15/07/2016	8.8	5.3	13.8	17:00	0	100.0
16/07/2016	8.9	2.3	18.7	23:00	0	100.0
17/07/2016	9.0	3.5	14.8	06:00	0	100.0
18/07/2016	7.5	0.2	14.8	22:00	0	100.0
19/07/2016	9.0	1.2	19.4	09:00	0	95.8
20/07/2016	10.3	4.0	22.5	16:00	0	100.0
21/07/2016	9.2	1.1	19.3	08:00	0	100.0
22/07/2016	13.3	5.3	29.4	23:00	0	100.0
23/07/2016	5.2	0.3	22.1	01:00	0	95.8
24/07/2016	4.7	1.1	13.8	20:00	0	100.0
25/07/2016	6.2	1.1	13.5	22:00	0	100.0
26/07/2016	6.4	2.1	14.8	22:00	0	95.8
27/07/2016	11.9	5.0	29.5	14:00	0	100.0
28/07/2016	7.7	3.3	20.5	23:00	0	100.0
29/07/2016	16.3	6.0	27.3	09:00	0	100.0
30/07/2016	13.4	6.2	28.0	20:00	0	87.5
31/07/2016	17.7	7.2	35.0	7:00	0	70.8

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

¹ Loss of data due to data logger failure

Table 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary July 2016						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
¹ 1/07/2016	-	-	-	-	0	0.0
¹ 2/07/2016	-	-	-	-	0	0.0
¹ 3/07/2016	-	-	-	-	0	0.0
¹ 4/07/2016	-	-	-	-	0	0.0
¹ 5/07/2016	-	-	-	-	0	0.0
¹ 6/07/2016	-	4.0	5.7	17:00	0	29.2
7/07/2016	6.0	3.8	8.2	17:00	0	100.0
8/07/2016	7.6	4.3	16.6	07:00	0	100.0
9/07/2016	14.4	5.5	45.0	20:00	0	100.0
10/07/2016	16.9	9.6	30.8	20:00	0	100.0
11/07/2016	14.9	8.2	23.4	08:00	0	100.0
12/07/2016	18.7	4.9	31.8	20:00	0	100.0
13/07/2016	6.9	3.3	11.1	17:00	0	91.7
14/07/2016	16.0	3.5	28.7	14:00	0	100.0
15/07/2016	16.7	9.6	25.4	11:00	0	100.0
16/07/2016	16.1	9.9	23.5	12:00	0	95.8
17/07/2016	9.9	2.8	17.3	18:00	0	100.0
18/07/2016	10.4	4.3	18.0	21:00	0	100.0
19/07/2016	13.1	7.3	24.9	08:00	0	95.8
20/07/2016	16.6	6.9	33.5	07:00	0	100.0
21/07/2016	16.8	6.3	35.6	07:00	0	100.0
22/07/2016	18.8	6.5	34.9	07:00	0	100.0
23/07/2016	9.5	5.4	24.8	00:00	0	100.0
24/07/2016	10.9	4.2	21.7	17:00	0	100.0
25/07/2016	10.9	4.4	21.8	18:00	0	100.0
26/07/2016	13.0	5.8	28.2	18:00	0	95.8
27/07/2016	18.8	7.4	41.1	20:00	0	95.8
28/07/2016	15.7	5.7	24.7	20:00	0	100.0
29/07/2016	23.0	13.3	37.0	08:00	0	100.0
30/07/2016	19.9	8.4	40.8	20:00	0	100.0
31/07/2016	23.9	11.0	41.8	6:00	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

¹ Loss of data due to data logger failure

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary July 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.044	30/07/2016 19:00	96.4
CO	ppm	8.0	8 Hours	0.7	12/07/2016 23:00	91.7
PM _{2.5}	µg/m ³	25	24 Hours	18.7	31/07/2016	94.6
PM ₁₀	µg/m ³	50	24 Hours	21.1	31/07/2016	98.8

Table 19 Station 4 Monthly Summary

Graphical Representations

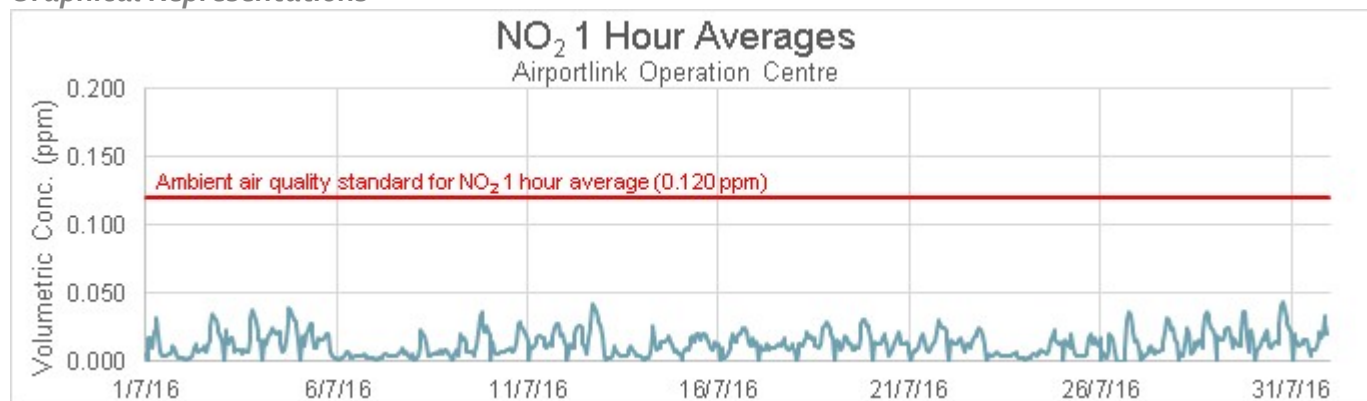


Figure 13 Station 4 Nitrogen Dioxide 1hr averages

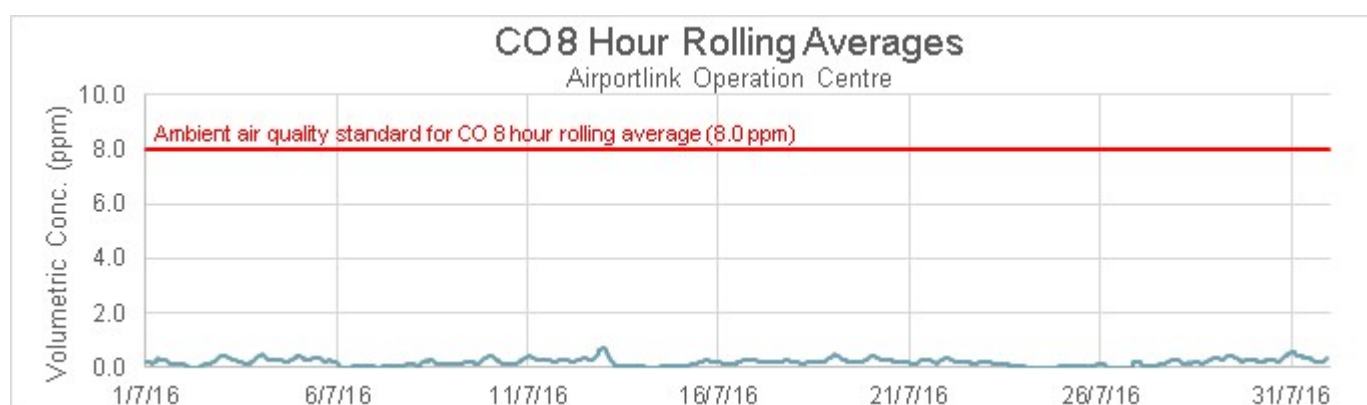


Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

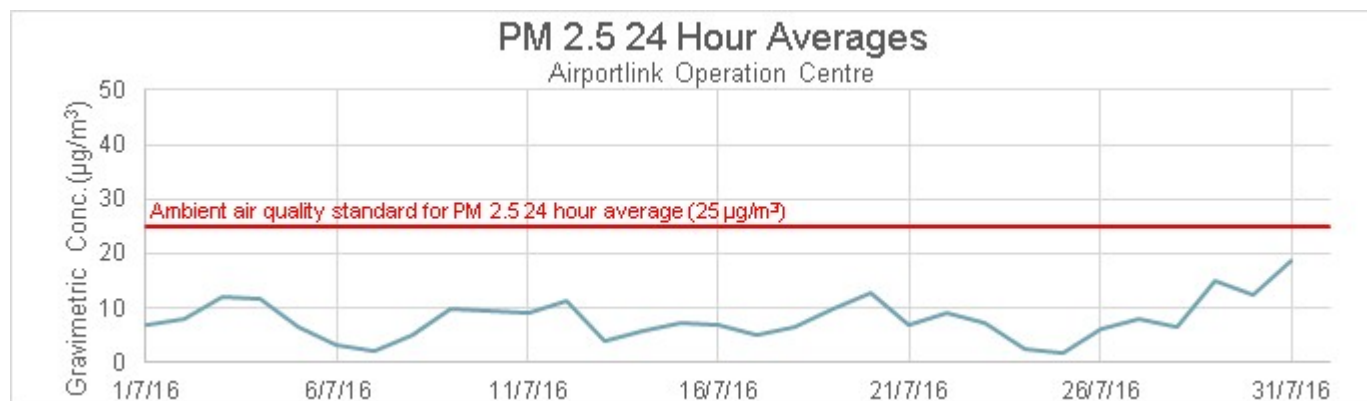


Figure 15 Station 4 PM2.5 24hr averages

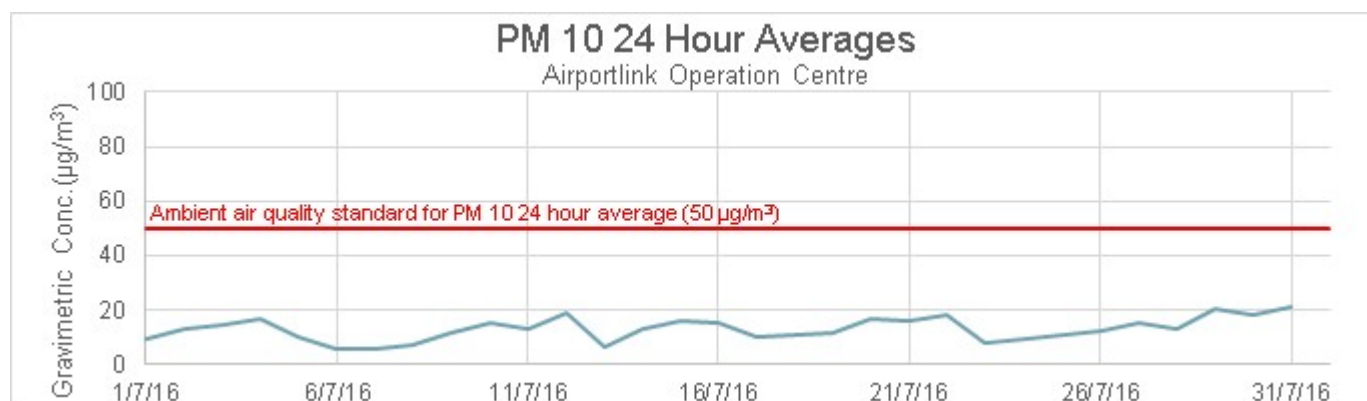


Figure 16 Station 4 PM10 24hr averages

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary July 2016

Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/07/2016	0.010	0.003	0.032	07:00	0	97.2
2/07/2016	0.014	0.002	0.035	18:00	0	97.2
3/07/2016	0.016	0.006	0.037	19:00	0	97.2
4/07/2016	0.022	0.007	0.040	18:00	0	97.2
5/07/2016	0.015	0.003	0.027	07:00	0	97.2
6/07/2016	0.004	0.002	0.008	07:00	0	97.2
7/07/2016	0.005	0.002	0.010	17:00	0	97.2
8/07/2016	0.008	0.003	0.023	05:00	0	97.2
9/07/2016	0.014	0.004	0.037	19:00	0	97.2
10/07/2016	0.013	0.005	0.029	19:00	0	97.2
11/07/2016	0.017	0.010	0.028	19:00	0	97.2
12/07/2016	0.022	0.006	0.043	17:00	0	97.2
13/07/2016	0.005	0.002	0.012	06:00	0	97.2
14/07/2016	0.011	0.002	0.027	07:00	0	97.2
15/07/2016	0.014	0.005	0.021	15:00	0	97.2
16/07/2016	0.015	0.003	0.025	17:00	0	97.2
17/07/2016	0.011	0.008	0.018	17:00	0	97.2
18/07/2016	0.017	0.007	0.029	20:00	0	97.2
19/07/2016	0.017	0.008	0.030	19:00	0	95.8
20/07/2016	0.014	0.005	0.021	17:00	0	97.2
21/07/2016	0.016	0.006	0.031	18:00	0	97.2
22/07/2016	0.015	0.007	0.024	20:00	0	97.2
23/07/2016	0.005	0.003	0.010	00:00	0	97.2
24/07/2016	0.009	0.002	0.024	19:00	0	97.2
25/07/2016	0.011	0.004	0.020	06:00	0	97.2
¹ 26/07/2016	-	0.003	0.036	18:00	0	73.3
27/07/2016	0.013	0.003	0.032	18:00	0	97.2
28/07/2016	0.017	0.004	0.036	19:00	0	97.2
29/07/2016	0.019	0.008	0.037	19:00	0	97.2
30/07/2016	0.020	0.009	0.044	19:00	0	97.2
31/07/2016	0.016	0.005	0.034	21:00	0	97.2

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

¹ Loss of data due to maintenance

Table 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary July 2016								
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		
1/07/2016	0.2	0.1	0.7	07:00	0.3	08:00	0	96.9
2/07/2016	0.2	0.0	0.6	20:00	0.4	23:00	0	86.5
3/07/2016	0.3	0.1	0.7	20:00	0.5	01:00	0	96.9
4/07/2016	0.3	0.1	0.5	22:00	0.5	01:00	0	96.9
5/07/2016	0.3	0.1	0.6	08:00	0.4	01:00	0	96.9
6/07/2016	0.0	0.0	0.1	07:00	0.2	00:00	0	79.5
7/07/2016	0.1	0.0	0.1	17:00	0.1	23:00	0	96.2
8/07/2016	0.2	0.1	0.5	06:00	0.3	08:00	0	96.9
9/07/2016	0.3	0.1	0.7	19:00	0.4	23:00	0	96.9
10/07/2016	0.2	0.1	0.5	19:00	0.5	01:00	0	96.9
11/07/2016	0.3	0.2	0.4	07:00	0.4	01:00	0	96.9
12/07/2016	0.4	0.1	0.9	19:00	0.7	23:00	0	96.9
13/07/2016	0.1	0.0	0.1	17:00	0.7	00:00	0	96.2
¹ 14/07/2016	-	0.0	0.2	07:00	0.1	00:00	0	72.2
15/07/2016	0.2	0.1	0.3	14:00	0.3	17:00	0	95.5
16/07/2016	0.2	0.1	0.3	17:00	0.3	19:00	0	96.9
17/07/2016	0.2	0.2	0.3	17:00	0.3	00:00	0	96.9
18/07/2016	0.3	0.1	0.5	21:00	0.4	23:00	0	96.9
19/07/2016	0.3	0.1	0.5	21:00	0.5	01:00	0	95.1
20/07/2016	0.2	0.1	0.5	07:00	0.4	01:00	0	96.9
21/07/2016	0.3	0.1	0.6	07:00	0.3	23:00	0	96.9
22/07/2016	0.2	0.1	0.4	07:00	0.3	01:00	0	96.5
23/07/2016	0.1	0.1	0.2	00:00	0.2	01:00	0	96.9
¹ 24/07/2016	-	0.1	0.1	19:00	0.1	00:00	0	34.4
25/07/2016	0.1	0.0	0.2	20:00	0.1	23:00	0	94.1
² 26/07/2016	-	0.0	0.4	18:00	0.2	21:00	0	61.1
27/07/2016	0.2	0.0	0.4	19:00	0.3	23:00	0	96.5
28/07/2016	0.2	0.1	0.5	20:00	0.3	23:00	0	96.5
29/07/2016	0.3	0.2	0.6	07:00	0.4	10:00	0	96.5
30/07/2016	0.3	0.2	0.9	19:00	0.5	23:00	0	96.5
31/07/2016	0.3	0.1	0.6	21:00	0.6	1:00	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

¹ Loss of data due to instrument fault

² Loss of data due to maintenance

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM_{2.5} Summary July 2016

Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/07/2016	6.8	1.4	15.3	15:00	0	95.8
2/07/2016	8.1	-1.0	30.4	22:00	0	95.8
3/07/2016	12.0	2.3	26.4	22:00	0	100.0
4/07/2016	11.6	6.3	21.6	22:00	0	100.0
5/07/2016	6.5	-0.9	22.3	00:00	0	95.8
6/07/2016	3.1	-1.0	15.5	02:00	0	83.3
7/07/2016	2.3	-0.7	5.0	06:00	0	75.0
8/07/2016	5.1	-0.6	13.8	10:00	0	91.7
9/07/2016	10.0	2.5	21.5	21:00	0	100.0
10/07/2016	9.3	0.3	20.9	21:00	0	100.0
11/07/2016	9.3	4.2	17.0	13:00	0	100.0
12/07/2016	11.3	3.1	22.3	10:00	0	100.0
13/07/2016	4.2	-0.6	9.9	00:00	0	100.0
14/07/2016	5.9	0.2	11.6	14:00	0	100.0
15/07/2016	7.2	-0.6	25.0	18:00	0	100.0
16/07/2016	6.9	0.5	15.2	19:00	0	100.0
17/07/2016	5.0	-0.4	11.5	00:00	0	95.8
18/07/2016	6.5	-1.0	22.8	21:00	0	95.8
19/07/2016	9.9	3.2	18.3	22:00	0	100.0
20/07/2016	13.0	1.1	31.0	16:00	0	100.0
21/07/2016	7.0	2.2	18.5	07:00	0	87.5
22/07/2016	9.3	0.5	30.6	23:00	0	100.0
23/07/2016	7.2	-1.0	58.5	12:00	0	79.2
24/07/2016	2.7	-1.0	6.5	23:00	0	87.5
25/07/2016	1.8	-1.0	6.5	12:00	0	83.3
26/07/2016	6.2	-0.8	14.5	19:00	0	75.0
27/07/2016	8.1	2.1	25.5	14:00	0	100.0
28/07/2016	6.5	0.0	17.5	21:00	0	95.8
29/07/2016	14.9	3.5	25.4	08:00	0	95.8
30/07/2016	12.4	-0.8	31.6	21:00	0	100.0
31/07/2016	18.7	2.5	36.5	5:00	0	100.0

Results highlighted in red indicate the highest recorded value for the relevant averaging period for the month.
There will be no daily results if there is less than 75% valid data for that day

Table 22 Station 4 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary July 2016

Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/07/2016	9.7	3.1	26.7	07:00	0	100.0
2/07/2016	12.8	5.0	27.2	20:00	0	100.0
3/07/2016	14.3	6.9	25.4	19:00	0	100.0
4/07/2016	16.6	10.9	23.8	18:00	0	100.0
5/07/2016	9.8	2.0	22.1	08:00	0	100.0
6/07/2016	5.5	3.1	8.2	17:00	0	95.8
7/07/2016	6.1	3.5	8.2	17:00	0	100.0
8/07/2016	7.3	3.5	11.8	06:00	0	100.0
9/07/2016	11.8	4.4	24.4	19:00	0	100.0
10/07/2016	15.0	8.4	27.3	19:00	0	100.0
11/07/2016	13.4	7.3	17.3	09:00	0	100.0
12/07/2016	19.3	7.9	36.7	18:00	0	100.0
13/07/2016	6.9	3.2	10.4	17:00	0	91.7
14/07/2016	13.5	3.6	24.3	14:00	0	100.0
15/07/2016	16.4	9.5	29.4	11:00	0	100.0
16/07/2016	15.4	9.2	23.4	09:00	0	100.0
17/07/2016	10.2	3.6	17.0	18:00	0	100.0
18/07/2016	10.7	5.4	19.8	21:00	0	100.0
19/07/2016	11.5	5.1	16.9	22:00	0	100.0
20/07/2016	17.0	6.4	38.6	16:00	0	100.0
21/07/2016	15.8	7.8	25.0	07:00	0	100.0
22/07/2016	17.9	9.6	33.2	20:00	0	100.0
23/07/2016	8.2	3.9	17.4	00:00	0	100.0
24/07/2016	9.7	3.4	18.1	17:00	0	100.0
25/07/2016	11.2	5.5	20.1	01:00	0	100.0
26/07/2016	12.7	6.8	24.0	18:00	0	75.0
27/07/2016	15.3	7.1	33.8	13:00	0	100.0
28/07/2016	13.0	5.0	20.7	19:00	0	100.0
29/07/2016	20.2	12.2	31.7	08:00	0	100.0
30/07/2016	17.9	9.0	36.3	20:00	0	100.0
31/07/2016	21.1	8.8	32.6	6:00	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

Station 5 (Cartwright Street)

Summary

Station 5 Cartwright St Ambient AQMS Summary July 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.041	30/07/2016 19:00	96.9
CO	ppm	8.0	8 Hours	0.9	12/07/2016 23:00	96.3
PM _{2.5}	µg/m3	25	24 Hours	24.4	31/07/2016	97.7
PM ₁₀	µg/m3	50	24 Hours	29.6	31/07/2016	92.9

Table 24 Station 5 Monthly Summary

Graphical Representations

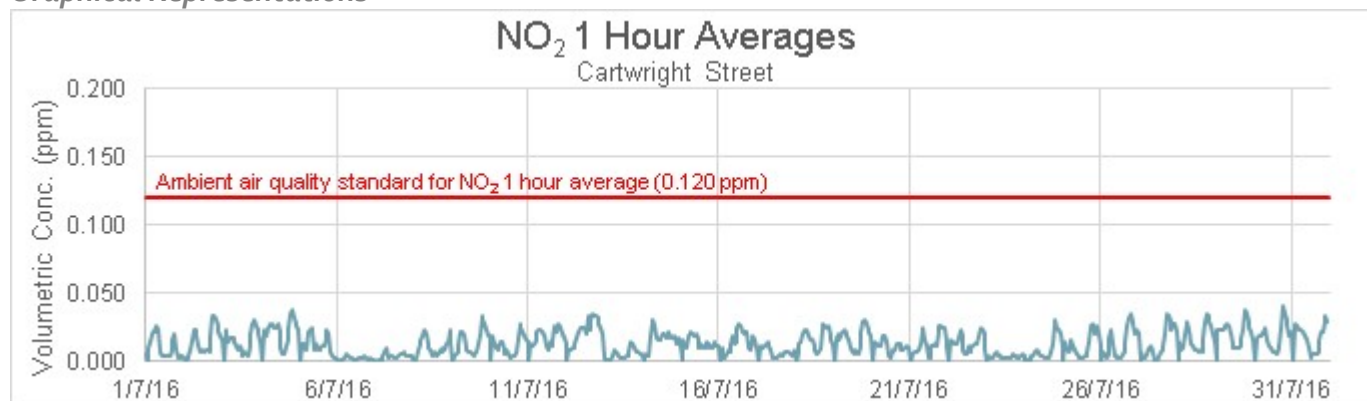


Figure 17 Station 5 Dioxide 1hr averages

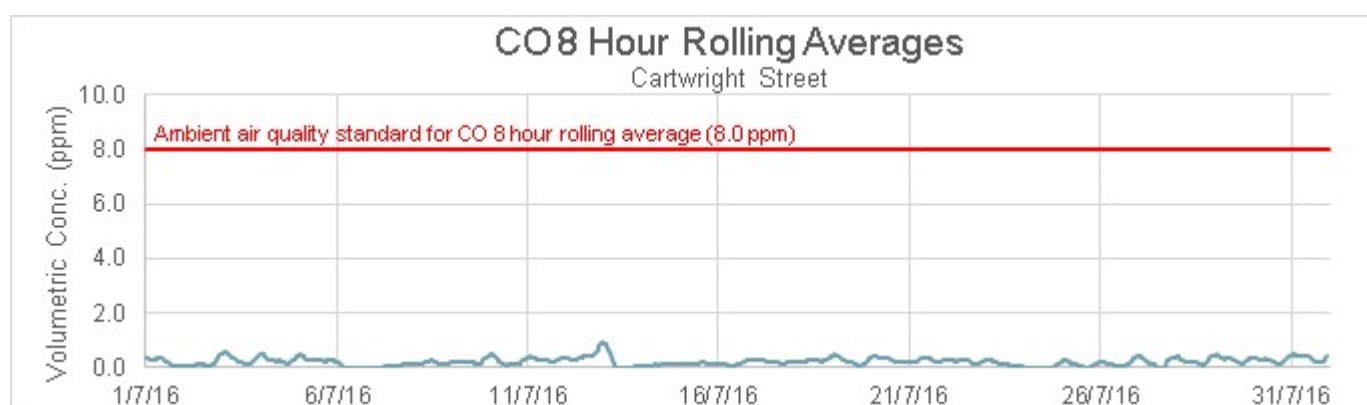


Figure 18 Station 5 Carbon Monoxide 8hr rolling averages

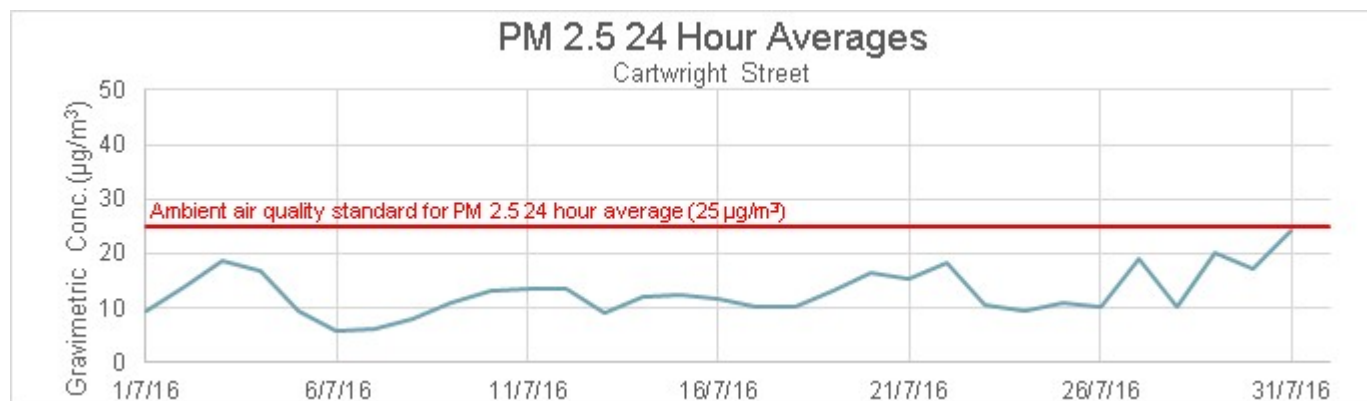


Figure 19 Station 5 PM2.5 24hr averages

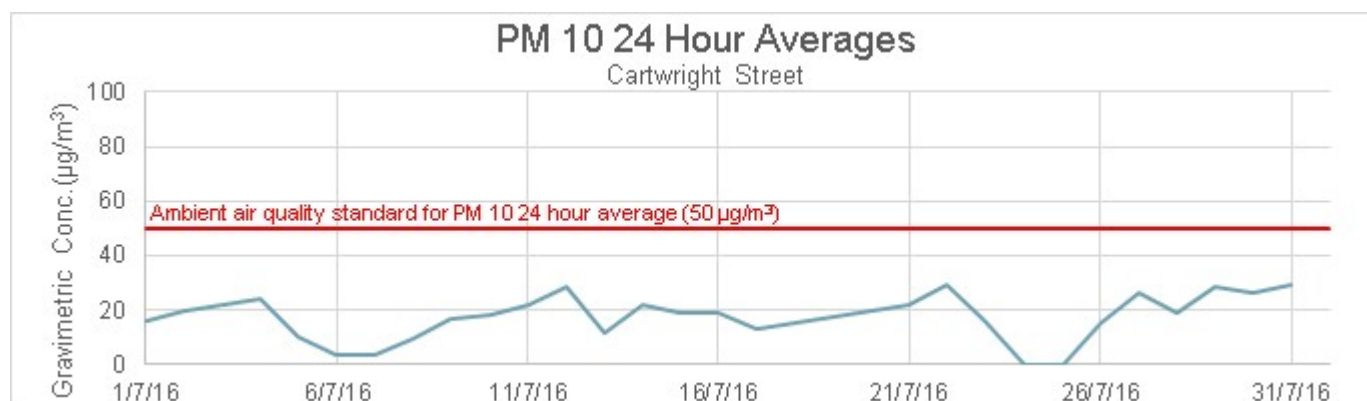


Figure 20 Station 5 PM10 24hr averages

Nitrogen Dioxide Summary

Station 5 Cartwright St Ambient AQMS Nitrogen Dioxide Summary July 2016						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/07/2016	0.011	0.002	0.027	07:00	0	97.2
2/07/2016	0.015	0.003	0.033	18:00	0	97.2
3/07/2016	0.016	0.004	0.031	20:00	0	97.2
4/07/2016	0.022	0.005	0.038	20:00	0	97.2
5/07/2016	0.014	0.002	0.025	08:00	0	97.2
6/07/2016	0.002	0.001	0.005	06:00	0	97.2
7/07/2016	0.004	0.001	0.010	07:00	0	97.2
8/07/2016	0.011	0.002	0.024	07:00	0	97.2
9/07/2016	0.014	0.004	0.034	19:00	0	97.2
10/07/2016	0.013	0.003	0.028	19:00	0	97.2
11/07/2016	0.018	0.008	0.027	19:00	0	97.2
12/07/2016	0.022	0.008	0.035	17:00	0	97.2
13/07/2016	0.006	0.001	0.014	17:00	0	97.2
14/07/2016	0.017	0.004	0.031	07:00	0	97.2
15/07/2016	0.014	0.009	0.022	07:00	0	97.2
16/07/2016	0.015	0.002	0.028	13:00	0	97.2
17/07/2016	0.007	0.003	0.014	07:00	0	97.2
18/07/2016	0.017	0.006	0.028	18:00	0	97.2
19/07/2016	0.017	0.006	0.030	20:00	0	97.2
20/07/2016	0.012	0.002	0.020	09:00	0	97.2
21/07/2016	0.014	0.002	0.026	19:00	0	97.2
22/07/2016	0.014	0.005	0.025	21:00	0	97.2
23/07/2016	0.004	0.002	0.009	00:00	0	97.2
24/07/2016	0.009	0.001	0.030	20:00	0	97.2
25/07/2016	0.013	0.003	0.028	19:00	0	97.2
26/07/2016	0.014	0.003	0.035	19:00	0	97.2
27/07/2016	0.015	0.002	0.035	18:00	0	86.8
28/07/2016	0.018	0.007	0.035	19:00	0	97.2
29/07/2016	0.021	0.009	0.038	19:00	0	97.2
30/07/2016	0.018	0.006	0.041	19:00	0	97.2
31/07/2016	0.018	0.003	0.034	22:00	0	97.2

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 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary July 2016								
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		
1/07/2016	0.2	0.0	0.7	07:00	0.4	08:00	0	96.5
2/07/2016	0.2	0.0	0.7	22:00	0.5	23:00	0	96.5
3/07/2016	0.3	0.1	0.7	21:00	0.6	02:00	0	95.8
4/07/2016	0.3	0.1	0.6	21:00	0.5	01:00	0	96.2
5/07/2016	0.2	0.0	0.6	18:00	0.5	01:00	0	96.5
6/07/2016	0.0	-0.1	0.0	06:00	0.2	00:00	0	96.5
7/07/2016	0.1	0.0	0.1	08:00	0.1	22:00	0	96.9
8/07/2016	0.2	0.1	0.5	07:00	0.3	12:00	0	96.9
9/07/2016	0.3	0.1	0.7	21:00	0.4	23:00	0	96.2
10/07/2016	0.2	0.1	0.5	20:00	0.5	02:00	0	96.5
11/07/2016	0.3	0.2	0.5	20:00	0.4	02:00	0	96.9
12/07/2016	0.6	0.2	1.2	20:00	0.9	23:00	0	96.9
13/07/2016	0.0	0.0	0.2	00:00	0.9	01:00	0	96.2
14/07/2016	0.1	0.0	0.2	08:00	0.2	23:00	0	96.9
15/07/2016	0.1	0.1	0.2	11:00	0.2	14:00	0	96.9
16/07/2016	0.2	0.1	0.4	22:00	0.3	22:00	0	96.9
17/07/2016	0.2	0.1	0.3	00:00	0.3	00:00	0	96.9
18/07/2016	0.3	0.2	0.7	22:00	0.4	23:00	0	96.9
19/07/2016	0.2	0.0	0.5	21:00	0.5	01:00	0	96.9
20/07/2016	0.3	0.1	0.6	07:00	0.4	02:00	0	96.9
21/07/2016	0.3	0.1	0.6	07:00	0.4	10:00	0	96.9
22/07/2016	0.2	0.1	0.5	07:00	0.3	01:00	0	96.9
23/07/2016	0.1	0.0	0.3	00:00	0.3	02:00	0	96.9
24/07/2016	0.1	0.0	0.3	20:00	0.2	23:00	0	96.9
25/07/2016	0.1	0.0	0.3	22:00	0.3	02:00	0	96.9
26/07/2016	0.2	0.0	0.5	18:00	0.4	23:00	0	96.9
27/07/2016	0.2	0.1	0.6	19:00	0.4	00:00	0	86.5
28/07/2016	0.3	0.1	0.8	20:00	0.5	23:00	0	95.8
29/07/2016	0.3	0.1	0.6	19:00	0.5	01:00	0	96.2
30/07/2016	0.3	0.1	0.7	19:00	0.4	23:00	0	96.2
31/07/2016	0.4	0.1	0.7	22:00	0.5	2:00	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 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM _{2.5} Summary July 2016						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 25.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/07/2016	9.5	3.3	20.7	08:00	0	100.0
2/07/2016	14.0	4.2	38.1	19:00	0	95.8
3/07/2016	18.7	4.1	31.6	21:00	0	100.0
4/07/2016	16.8	5.1	25.5	06:00	0	95.8
5/07/2016	9.4	1.3	15.9	09:00	0	100.0
6/07/2016	6.0	1.3	9.0	19:00	0	100.0
7/07/2016	6.4	-0.9	11.9	07:00	0	100.0
8/07/2016	7.9	4.4	12.7	08:00	0	100.0
9/07/2016	11.0	4.3	37.0	22:00	0	87.5
10/07/2016	13.3	5.4	22.0	03:00	0	95.8
11/07/2016	13.6	7.5	19.6	21:00	0	100.0
12/07/2016	13.5	2.3	22.3	23:00	0	100.0
13/07/2016	9.3	3.7	24.1	00:00	0	100.0
14/07/2016	12.1	6.3	20.3	09:00	0	100.0
15/07/2016	12.4	6.2	18.8	12:00	0	100.0
16/07/2016	11.7	6.2	16.7	11:00	0	100.0
17/07/2016	10.3	5.4	17.4	00:00	0	100.0
18/07/2016	10.4	5.5	18.7	23:00	0	100.0
19/07/2016	13.1	6.3	25.6	09:00	0	100.0
20/07/2016	16.7	8.8	36.7	17:00	0	100.0
21/07/2016	15.4	5.5	27.3	12:00	0	100.0
22/07/2016	18.4	6.4	38.6	22:00	0	95.8
23/07/2016	10.6	3.2	34.6	00:00	0	100.0
24/07/2016	9.3	4.1	20.3	21:00	0	100.0
25/07/2016	10.9	-0.8	24.7	11:00	0	100.0
26/07/2016	10.3	6.0	17.9	20:00	0	100.0
27/07/2016	18.9	4.1	53.6	17:00	0	87.5
28/07/2016	10.4	4.0	18.6	07:00	0	100.0
29/07/2016	20.2	2.0	34.3	08:00	0	91.7
30/07/2016	17.2	8.3	30.8	21:00	0	100.0
31/07/2016	24.4	7.3	54.0	6:00	0	79.2

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 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM10 Summary July 2016						
Date	24 hr Avg ($\mu\text{g}/\text{m}^3$)	1 hr Avgs			No. of exceedences 24hr Avg > 50.0 $\mu\text{g}/\text{m}^3$	Capture Rate
		Min ($\mu\text{g}/\text{m}^3$)	Max ($\mu\text{g}/\text{m}^3$)	Time of Max		
1/07/2016	16.3	1.4	38.5	08:00	0	100.0
2/07/2016	19.6	3.3	50.5	19:00	0	100.0
3/07/2016	22.3	6.4	45.0	20:00	0	100.0
4/07/2016	24.5	12.5	34.0	09:00	0	100.0
5/07/2016	10.0	-0.7	27.5	09:00	0	100.0
6/07/2016	3.8	-0.1	8.0	16:00	0	95.8
7/07/2016	3.4	-0.8	13.9	08:00	0	100.0
8/07/2016	9.6	3.1	20.4	08:00	0	100.0
9/07/2016	17.0	0.4	42.5	21:00	0	100.0
10/07/2016	18.0	9.0	30.0	19:00	0	100.0
11/07/2016	22.1	12.0	34.0	00:00	0	100.0
12/07/2016	28.6	13.5	55.8	20:00	0	100.0
13/07/2016	11.4	2.4	29.4	00:00	0	95.8
14/07/2016	22.2	7.0	47.1	11:00	0	95.8
15/07/2016	18.9	11.8	30.3	12:00	0	100.0
16/07/2016	19.0	7.2	30.5	09:00	0	100.0
17/07/2016	13.2	6.0	22.1	00:00	0	100.0
18/07/2016	15.0	6.1	28.4	22:00	0	100.0
19/07/2016	17.5	10.9	29.0	11:00	0	87.5
20/07/2016	19.5	6.3	45.6	16:00	0	83.3
21/07/2016	22.1	7.1	36.0	23:00	0	95.8
22/07/2016	29.2	9.7	48.5	21:00	0	100.0
23/07/2016	15.9	6.3	41.7	00:00	0	95.8
¹ 24/07/2016	-	15.5	21.0	01:00	0	12.5
¹ 25/07/2016	-	0.1	26.1	04:00	0	66.7
26/07/2016	15.6	8.0	30.5	22:00	0	100.0
27/07/2016	26.1	5.1	60.7	16:00	0	87.5
28/07/2016	19.0	10.9	30.4	21:00	0	100.0
29/07/2016	28.3	13.1	43.1	08:00	0	91.7
30/07/2016	26.0	12.0	63.8	01:00	0	100.0
31/07/2016	29.6	14.6	56.0	6:00	0	70.8

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

¹ Loss of data due to instrument failure

Table 28 Station 5 PM₁₀ Monthly Summary

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 General's 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 2016					
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 CS ($\mu\text{g}/\text{m}^3$)
05/07/2016	13	5	6	9	6
11/07/2016	24	15	15	17	16
17/07/2016	4	6	6	8	4
23/07/2016	12	19	11	9	8
29/07/2016	41	45	36	33	38
Monthly Average	18.8	18.0	14.8	15.2	14.4

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					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/07/2016 00:55:00	31/07/2016 14:25:00	PM _{2.5}	Intermittent instrument faults – error code logged	17/08/2016	CP
1/07/2016 09:25:00	30/07/2016 21:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	17/08/2016	CP
10/07/2016 04:55:00	10/07/2016 05:50:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
26/07/2016 10:10:00	26/07/2016 14:10:00	All parameters	Maintenance	17/08/2016	CP
27/07/2016 12:55:00	27/07/2016 13:50:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
30/07/2016 23:55:00	31/07/2016 00:50:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
31/07/2016 07:55:00	31/07/2016 08:50:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
31/07/2016 16:55:00	31/07/2016 17:50:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	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					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/07/2016 00:00	27/07/2016 08:55:00	NO, NO ₂ , NO _x	Adjust data due to low spans. Multiplier A: 1.072386, multiplier B: 1.072386	17/08/2016	CP
1/07/2016 01:55:00	31/07/2016 23:00:00	NO, NO ₂ , NO _x	Intermittent communication errors	17/08/2016	CP
18/07/2016 09:40:00	18/07/2016 15:35:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
19/07/2016 09:40:00	19/07/2016 15:35:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
20/07/2016 09:40:00	20/07/2016 11:35:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
22/07/2016 09:40:00	22/07/2016 15:35:00	PM _{2.5}	PM _{2.5} > PM ₁₀	17/08/2016	CP
22/07/2016 23:30:00	24/07/2016 03:35:00	PM _{2.5}	Instrument fault	17/08/2016	CP
27/07/2016 09:00:00	27/07/2016 10:20:00	All parameters	Maintenance	17/08/2016	CP

Table 31 Station 2 Kedron High School AQMS Data Validation Table

Station 3 Lewis Street

Station 3 Lewis Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/07/16 00:00	6/07/2016 15:05:00	All parameters	Logger fault	17/08/2016	CP
6/07/2016 15:10:00	6/07/2016 16:40:00	All parameters	Maintenance	17/08/2016	CP
13/07/2016 01:55:00	28/07/2016 04:55:00	PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	17/08/2016	CP
13/07/2016 06:50:00	31/07/2016 17:40:00	PM _{2.5}	Intermittent instrument faults – error code logged	17/08/2016	CP
26/07/2016 13:10:00	26/07/2016 14:05:00	All parameters	Maintenance	17/08/2016	CP
30/07/2016 20:55:00	31/07/2016 23:50:00	PM _{2.5}	Intermittent PM _{2.5} >PM ₁₀	17/08/2016	CP

Table 32 Station 3 Lewis St AQMS Data Validation Table

Station 4 Airport Link Operation Centre

Station 4 Airport Link Operation Centre Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/07/2016 01:05:00	31/07/2016 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	17/08/2016	CP
2/07/2016 13:55:00	29/07/2016 17:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	17/08/2016	CP
6/07/2016 00:30:00	26/07/2016 16:40:00	CO	Intermittent Instrument faults	17/08/2016	CP
19/07/2016 09:50:00	19/07/2016 10:05:00	All parameters	Maintenance	17/08/2016	CP
26/07/2016 10:00:00	26/07/2016 15:40:00	All parameters	Maintenance	17/08/2016	CP

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

Station 5 Cartwright St

Station 5 Cartwright Street Ambient AQMS Data Validation Table					
Start Date	End Date	Affected Parameters	Details of change	Validation Date	Changed By
1/07/2016 01:05:00	31/07/2016 23:50:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	17/08/2016	CP
2/07/2016 22:55:00	9/07/2016 21:50:00	PM _{2.5}	Intermittent PM _{2.5} > PM ₁₀	17/08/2016	CP
6/07/2016 00:55:00	29/07/2016 07:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	17/08/2016	CP
22/07/2016 03:55:00	22/07/2016 04:50:00	PM _{2.5} , PM ₁₀	PM _{2.5} > PM ₁₀	17/08/2016	CP
24/07/2016 01:55:00	24/07/2016 06:50:00	PM ₁₀	Instrument fault	17/08/2016	CP
24/07/2016 07:55:00	25/07/2016 03:50:00	PM _{2.5} , PM ₁₀	PM _{2.5} > PM ₁₀	17/08/2016	CP
27/07/2016 10:25:00	27/07/2016 12:50:00	All parameters	Maintenance	17/08/2016	CP
30/07/2016 23:55:00	31/07/2016 17:50:00	PM _{2.5} , PM ₁₀	Intermittent PM _{2.5} > PM ₁₀	17/08/2016	CP

Table 34 Station 5 Cartwright St AQMS Data Validation Table