



Ventia Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

March 2016

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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

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 March 2016							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences March 2016				
			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 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	22/03/2016	22/03/2016	22/03/2016	22/03/2016	22/03/2016
CO	ppm	2.56%	AS 3580.7.1	22/03/2016	22/03/2016	22/03/2016	22/03/2016	22/03/2016
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	23/02/2016*	23/02/2015	22/02/2016*	22/02/2016*	23/02/2016
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.12 / EQPM 0308-170	23/02/2016	23/02/2015	22/02/2016	22/02/2016	23/02/2016
TSP	µg/m ³	7.34%	AS 3580.9.3	22/03/2016	22/03/2016	22/03/2016	22/03/2016	22/03/2016

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 March 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.021	30/03/2016 19:00	97.2
CO	ppm	8.0	8 Hours	0.3	29/03/2016 04:00	96.8
PM _{2.5}	µg/m ³	25	24 Hours	10.0	23/03/2016	85.2
PM ₁₀	µg/m ³	50	24 Hours	18.8	13/03/2016	97.0

Table 4 Station 1 Monthly Summary

Graphical Representations

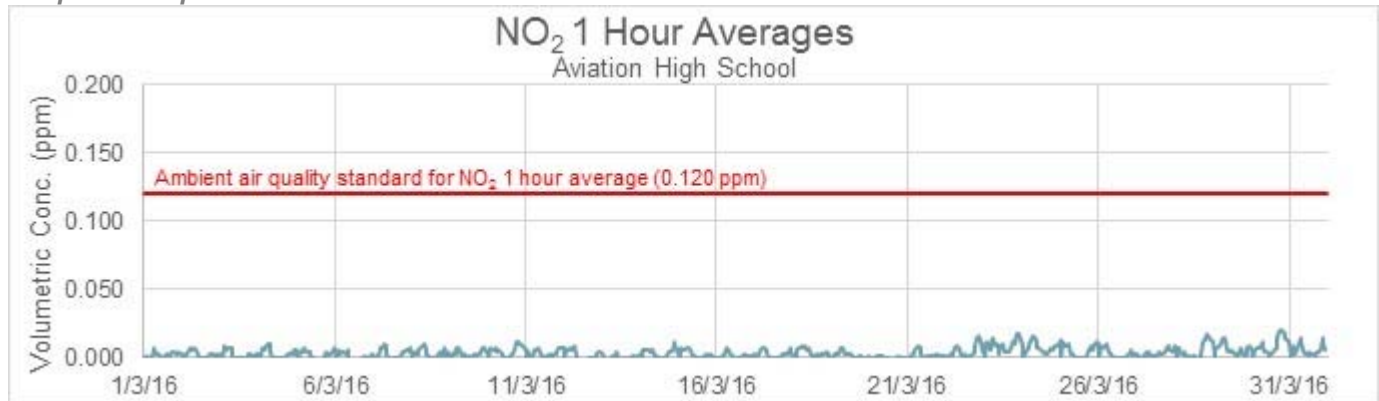


Figure 1 Station 1 Nitrogen Dioxide 1hr averages

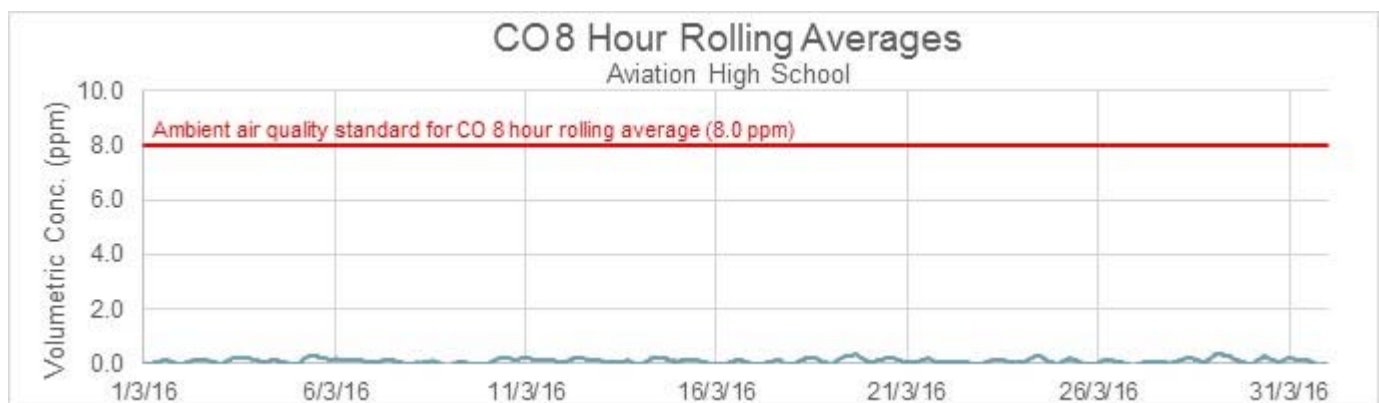


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

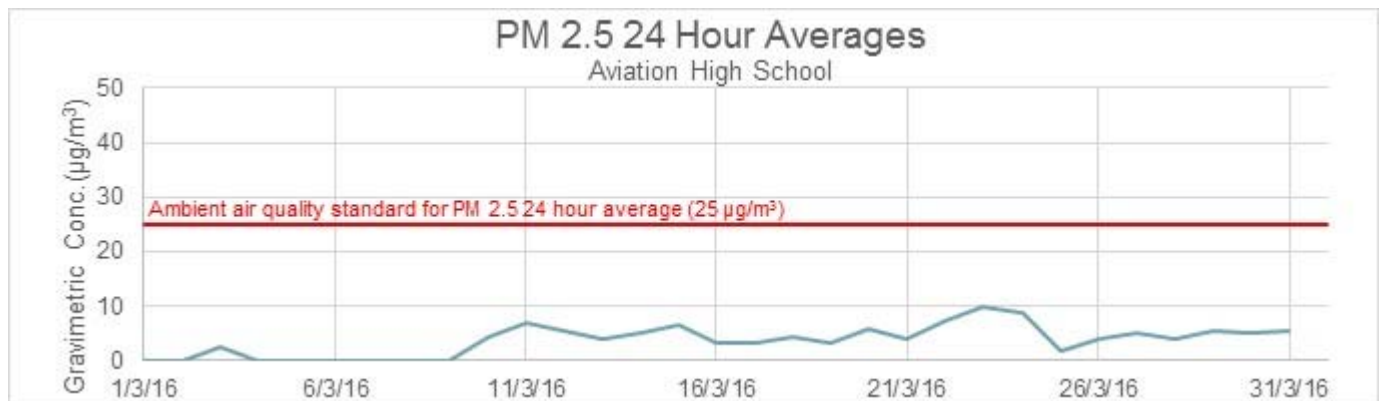


Figure 3 Station 1 PM2.5 24hr averages

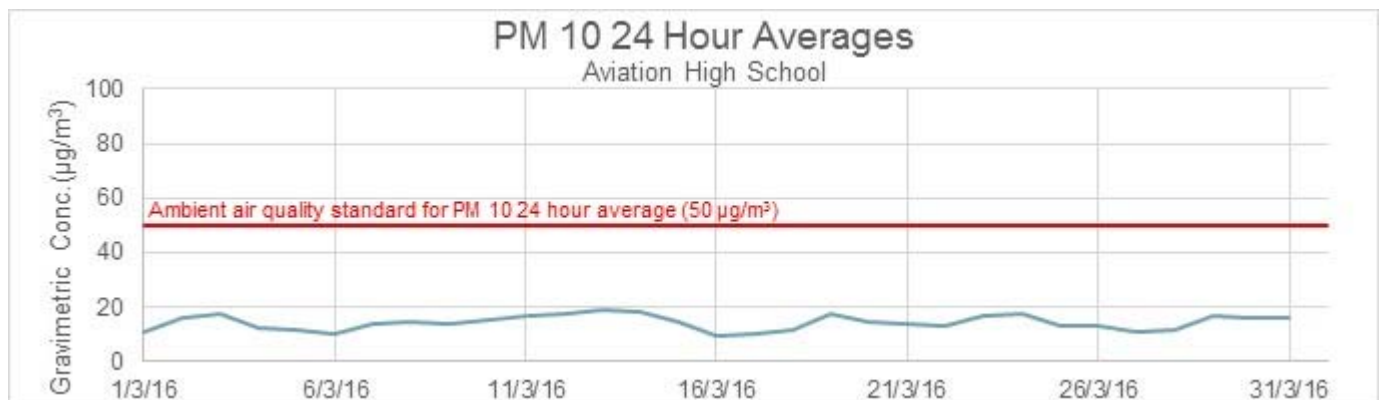


Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary March 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		
1/03/2016	0.002	-0.001	0.007	06:00	0	97.2
2/03/2016	0.002	-0.001	0.008	08:00	0	97.2
3/03/2016	0.003	0.000	0.008	03:00	0	97.2
4/03/2016	0.003	-0.001	0.010	07:00	0	97.2
5/03/2016	0.002	-0.001	0.007	05:00	0	97.2
6/03/2016	0.001	-0.002	0.007	00:00	0	97.2
7/03/2016	0.003	-0.001	0.011	07:00	0	97.2
8/03/2016	0.004	0.000	0.009	08:00	0	97.2
9/03/2016	0.003	0.000	0.008	06:00	0	97.2
10/03/2016	0.005	0.000	0.012	19:00	0	97.2
11/03/2016	0.003	0.000	0.007	22:00	0	97.2
12/03/2016	0.002	-0.002	0.008	07:00	0	97.2
13/03/2016	0.000	-0.002	0.004	09:00	0	97.2
14/03/2016	0.004	0.000	0.012	21:00	0	97.2
15/03/2016	0.003	-0.001	0.008	06:00	0	97.2
16/03/2016	0.001	-0.001	0.007	06:00	0	97.2
17/03/2016	0.003	0.000	0.007	06:00	0	97.2
18/03/2016	0.004	0.000	0.008	08:00	0	97.2
19/03/2016	0.002	-0.001	0.008	06:00	0	97.2
20/03/2016	0.000	-0.001	0.001	00:00	0	97.2
21/03/2016	0.002	0.000	0.009	07:00	0	97.2
22/03/2016	0.005	0.001	0.015	21:00	0	96.2
23/03/2016	0.009	0.003	0.018	21:00	0	97.2
24/03/2016	0.008	0.003	0.016	07:00	0	97.2
25/03/2016	0.005	-0.001	0.013	00:00	0	97.2
26/03/2016	0.003	0.000	0.011	00:00	0	97.2
27/03/2016	0.003	0.000	0.008	20:00	0	97.2
28/03/2016	0.006	0.000	0.018	20:00	0	97.2
29/03/2016	0.007	0.001	0.014	08:00	0	97.2
30/03/2016	0.009	0.001	0.021	19:00	0	97.2
31/03/2016	0.006	0.002	0.015	7:00	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 March 2016								
Date	24 hr Avg (ppm)	1 hr Aves			8 hr Rolling Aves		No. of exceedences 8hr Avg > 8.0 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max	Max (ppm)	Time of Max		
1/03/2016	0.1	-0.1	0.2	08:00	0.1	14:00	0	96.9
2/03/2016	0.1	-0.1	0.3	06:00	0.2	11:00	0	96.9
3/03/2016	0.2	0.0	0.3	05:00	0.2	10:00	0	96.9
4/03/2016	0.0	-0.1	0.2	06:00	0.1	10:00	0	96.9
5/03/2016	0.2	0.1	0.3	02:00	0.3	09:00	0	96.9
6/03/2016	0.1	0.0	0.2	06:00	0.2	01:00	0	96.9
7/03/2016	0.1	-0.1	0.2	05:00	0.1	10:00	0	96.9
8/03/2016	0.0	-0.2	0.2	08:00	0.1	13:00	0	96.9
9/03/2016	0.0	-0.1	0.2	06:00	0.1	06:00	0	96.9
10/03/2016	0.2	0.0	0.4	21:00	0.2	11:00	0	96.9
11/03/2016	0.1	-0.1	0.3	08:00	0.2	01:00	0	96.9
12/03/2016	0.1	-0.1	0.2	06:00	0.2	10:00	0	96.9
13/03/2016	0.0	-0.1	0.1	15:00	0.1	16:00	0	96.9
14/03/2016	0.2	0.0	0.3	08:00	0.2	13:00	0	96.9
15/03/2016	0.1	-0.2	0.2	06:00	0.1	04:00	0	96.9
16/03/2016	0.1	-0.1	0.2	08:00	0.1	15:00	0	96.9
17/03/2016	0.0	-0.2	0.1	09:00	0.1	15:00	0	96.9
18/03/2016	0.1	0.0	0.3	08:00	0.2	10:00	0	96.9
19/03/2016	0.2	0.1	0.4	09:00	0.3	15:00	0	96.9
20/03/2016	0.1	0.0	0.2	13:00	0.2	15:00	0	96.9
21/03/2016	0.1	-0.1	0.2	07:00	0.2	12:00	0	96.9
22/03/2016	0.0	-0.2	0.2	08:00	0.1	02:00	0	95.8
23/03/2016	0.1	-0.1	0.2	06:00	0.2	08:00	0	96.9
24/03/2016	0.1	-0.1	0.5	06:00	0.3	10:00	0	96.9
25/03/2016	0.1	-0.2	0.2	00:00	0.2	06:00	0	96.9
26/03/2016	0.0	-0.1	0.2	00:00	0.1	05:00	0	96.9
27/03/2016	0.0	0.0	0.1	06:00	0.1	07:00	0	96.9
28/03/2016	0.2	-0.1	0.4	22:00	0.2	23:00	0	96.9
29/03/2016	0.1	-0.1	0.4	06:00	0.3	04:00	0	96.9
30/03/2016	0.2	0.0	0.4	06:00	0.3	08:00	0	96.9
31/03/2016	0.0	-0.2	0.2	07:00	0.2	01:00	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 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM _{2.5} Summary March 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 1/03/2016	-	-1.0	7.7	10:00	0	58.3
¹ 2/03/2016	-	-0.8	4.2	18:00	0	54.2
3/03/2016	2.4	-1.0	6.0	13:00	0	87.5
¹ 4/03/2016	-	-1.0	1.8	02:00	0	45.8
¹ 5/03/2016	-	-1.0	2.9	07:00	0	50.0
¹ 6/03/2016	-	-1.0	3.7	22:00	0	29.2
¹ 7/03/2016	-	-1.0	3.0	01:00	0	66.7
¹ 8/03/2016	-	-1.0	3.8	08:00	0	62.5
¹ 9/03/2016	-	-1.0	11.0	16:00	0	58.3
10/03/2016	4.4	1.0	11.0	10:00	0	100.0
11/03/2016	7.1	3.0	11.0	07:00	0	100.0
12/03/2016	5.4	0.0	9.0	23:00	0	100.0
13/03/2016	3.8	0.0	11.0	00:00	0	100.0
14/03/2016	5.0	1.1	11.0	11:00	0	95.8
15/03/2016	6.5	2.3	11.8	03:00	0	100.0
16/03/2016	3.2	0.0	8.6	19:00	0	100.0
17/03/2016	3.4	0.0	6.9	08:00	0	100.0
18/03/2016	4.2	1.2	7.8	10:00	0	100.0
19/03/2016	3.3	0.0	6.8	19:00	0	100.0
20/03/2016	5.9	0.2	32.4	12:00	0	100.0
21/03/2016	4.0	1.1	7.0	09:00	0	100.0
22/03/2016	7.3	2.0	14.7	20:00	0	100.0
23/03/2016	10.0	5.0	13.8	19:00	0	100.0
24/03/2016	8.9	-0.8	17.9	09:00	0	79.2
25/03/2016	1.8	-0.9	6.8	06:00	0	91.7
26/03/2016	3.9	0.2	10.4	00:00	0	87.5
27/03/2016	5.2	2.0	8.8	17:00	0	100.0
28/03/2016	4.1	-0.8	9.9	09:00	0	100.0
29/03/2016	5.6	0.3	11.9	04:00	0	100.0
30/03/2016	5.3	-0.8	10.8	19:00	0	87.5
31/03/2016	5.4	1.0	29.4	14:00	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 instrument fault

Table 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary March 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		
1/03/2016	10.8	2.6	29.5	14:00	0	95.8
2/03/2016	16.1	5.8	27.6	07:00	0	95.8
3/03/2016	17.7	12.0	23.0	16:00	0	100.0
4/03/2016	12.6	5.8	19.3	15:00	0	100.0
5/03/2016	11.5	6.2	21.1	08:00	0	95.8
6/03/2016	10.5	6.0	19.9	18:00	0	95.8
7/03/2016	14.1	4.7	23.5	15:00	0	100.0
8/03/2016	14.4	5.4	35.6	08:00	0	87.5
9/03/2016	13.9	6.0	25.6	08:00	0	95.8
10/03/2016	15.3	8.1	28.7	14:00	0	95.8
11/03/2016	17.0	8.3	26.2	13:00	0	100.0
12/03/2016	17.6	13.2	30.5	16:00	0	91.7
13/03/2016	18.8	3.3	33.8	19:00	0	95.8
14/03/2016	18.6	10.4	25.3	10:00	0	100.0
15/03/2016	14.7	4.3	32.5	14:00	0	100.0
16/03/2016	9.1	2.4	17.1	08:00	0	95.8
17/03/2016	10.5	4.8	19.5	15:00	0	100.0
18/03/2016	11.6	3.4	21.2	17:00	0	100.0
19/03/2016	17.2	4.1	38.0	06:00	0	91.7
20/03/2016	14.3	6.4	25.6	09:00	0	100.0
21/03/2016	13.6	6.2	22.6	13:00	0	100.0
22/03/2016	13.3	7.0	28.9	19:00	0	100.0
23/03/2016	16.7	10.9	23.9	19:00	0	100.0
24/03/2016	17.6	7.4	26.0	07:00	0	100.0
25/03/2016	12.8	8.2	21.7	06:00	0	100.0
26/03/2016	13.3	8.9	34.7	15:00	0	95.8
27/03/2016	11.2	5.6	15.3	13:00	0	100.0
28/03/2016	11.4	6.4	25.2	06:00	0	95.8
29/03/2016	16.5	8.5	56.3	22:00	0	95.8
30/03/2016	16.4	5.7	42.5	16:00	0	100.0
31/03/2016	16.4	2.2	61.0	14:00	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 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary March 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.020	23/03/2016 23:00	75.4
CO	ppm	8.0	8 Hours	0.3	31/03/2016 01:00	73.8
PM _{2.5}	µg/m ³	25	24 Hours	7.7	08/03/2016	80.1
PM ₁₀	µg/m ³	50	24 Hours	19.3	02/03/2016	80.1

Table 9 Station 2 Monthly Summary

Graphical Representations

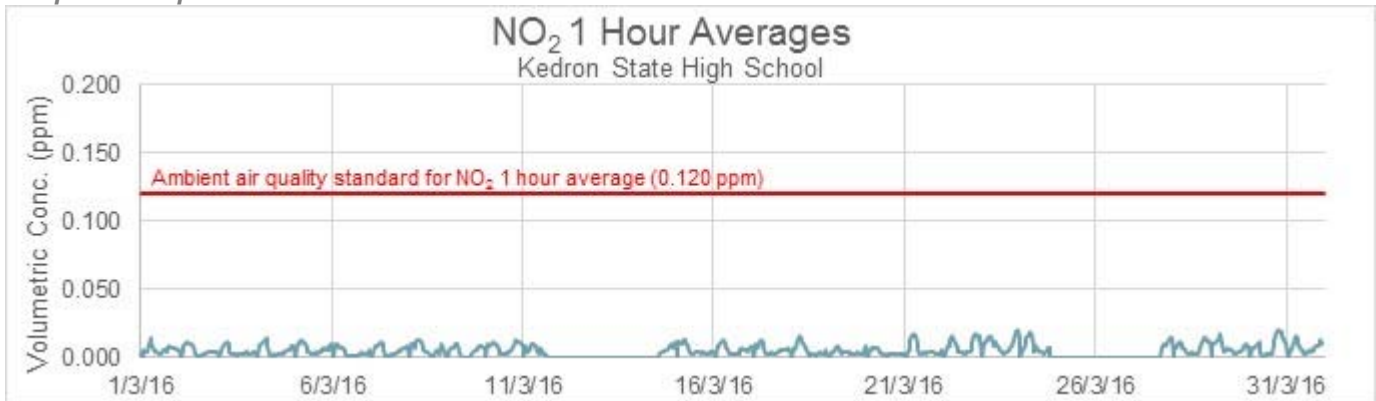


Figure 5 Station 2 Dioxide 1hr averages

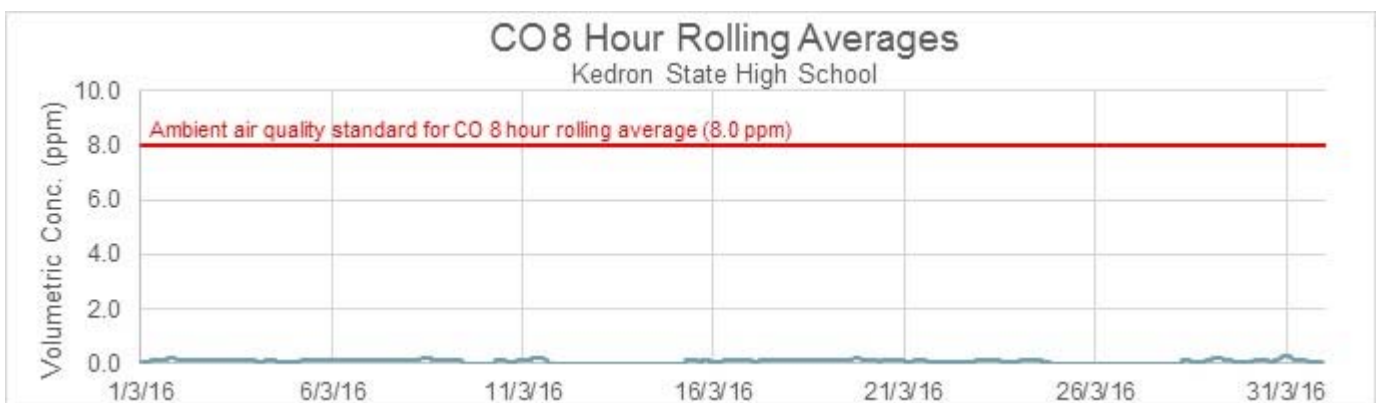


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

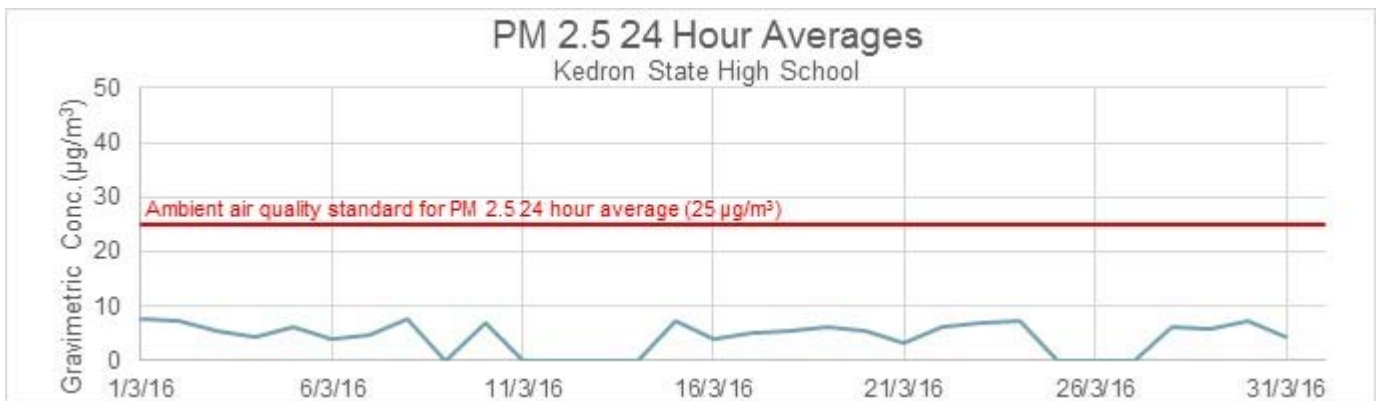


Figure 7 Station 2 PM2.5 24hr averages

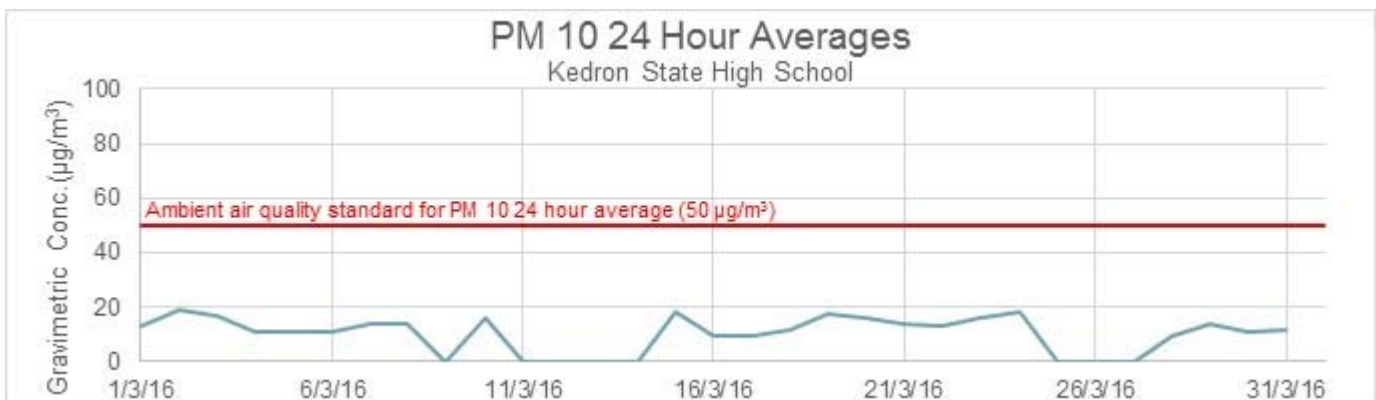


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary March 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		
1/03/2016	0.006	0.002	0.014	06:00	0	92.7
2/03/2016	0.005	0.002	0.011	05:00	0	94.8
3/03/2016	0.004	0.002	0.011	06:00	0	94.4
4/03/2016	0.006	0.002	0.014	07:00	0	95.1
5/03/2016	0.007	0.002	0.013	05:00	0	95.1
6/03/2016	0.004	0.001	0.011	00:00	0	93.8
7/03/2016	0.005	0.002	0.012	07:00	0	90.3
8/03/2016	0.006	0.002	0.013	06:00	0	91.3
¹ 9/03/2016	-	0.003	0.011	06:00	0	67.7
10/03/2016	0.007	0.002	0.012	20:00	0	95.8
¹ 11/03/2016	-	0.002	0.010	07:00	0	57.6
¹ 12/03/2016	-	-	-	-	0	0.0
¹ 13/03/2016	-	-	-	-	0	0.0
¹ 14/03/2016	-	0.003	0.010	22:00	0	42.7
15/03/2016	0.006	0.002	0.013	06:00	0	91.3
16/03/2016	0.006	0.003	0.012	06:00	0	95.1
17/03/2016	0.006	0.003	0.013	06:00	0	94.8
18/03/2016	0.006	0.002	0.015	06:00	0	92.7
19/03/2016	0.004	0.003	0.009	06:00	0	92.4
20/03/2016	0.004	0.002	0.008	00:00	0	95.1
21/03/2016	0.006	0.003	0.018	06:00	0	95.1
22/03/2016	0.008	0.003	0.017	21:00	0	93.8
23/03/2016	0.010	0.003	0.020	23:00	0	96.2
24/03/2016	0.008	0.003	0.019	07:00	0	76.7
¹ 25/03/2016	-	-	-	-	0	0.0
¹ 26/03/2016	-	-	-	-	0	0.0
¹ 27/03/2016	-	0.007	0.014	23:00	0	24.7
28/03/2016	0.008	0.002	0.015	22:00	0	93.8
29/03/2016	0.008	0.003	0.017	07:00	0	93.4
30/03/2016	0.009	0.002	0.020	19:00	0	96.2
31/03/2016	0.008	0.003	0.016	6:00	0	93.4

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 power failure

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary March 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		
1/03/2016	0.2	0.1	0.2	15:00	0.2	21:00	0	96.5
2/03/2016	0.1	0.1	0.2	05:00	0.2	11:00	0	96.5
3/03/2016	0.1	0.1	0.3	06:00	0.2	07:00	0	96.5
4/03/2016	0.1	0.0	0.3	06:00	0.1	08:00	0	96.5
5/03/2016	0.1	0.1	0.2	06:00	0.1	12:00	0	96.5
6/03/2016	0.1	0.1	0.2	00:00	0.1	02:00	0	96.5
7/03/2016	0.1	0.1	0.2	06:00	0.2	10:00	0	96.5
8/03/2016	0.1	0.1	0.3	07:00	0.2	12:00	0	96.5
¹ 9/03/2016	-	0.1	0.3	06:00	0.2	10:00	0	34.0
10/03/2016	0.1	0.1	0.3	06:00	0.1	23:00	0	94.8
¹ 11/03/2016	-	0.1	0.3	06:00	0.2	12:00	0	59.7
¹ 12/03/2016	-	-	-	-	-	-	0	0.0
¹ 13/03/2016	-	-	-	-	-	-	0	0.0
¹ 14/03/2016	-	-	-	-	-	-	0	0.0
15/03/2016	0.1	0.1	0.2	06:00	0.1	07:00	0	94.4
16/03/2016	0.1	0.1	0.3	06:00	0.2	12:00	0	96.2
17/03/2016	0.1	0.1	0.2	06:00	0.1	12:00	0	96.2
18/03/2016	0.1	0.1	0.3	06:00	0.2	10:00	0	96.2
19/03/2016	0.2	0.1	0.2	16:00	0.2	17:00	0	96.2
20/03/2016	0.1	0.1	0.2	16:00	0.1	18:00	0	96.2
21/03/2016	0.1	0.0	0.2	06:00	0.1	12:00	0	96.2
22/03/2016	0.1	0.0	0.3	21:00	0.2	23:00	0	96.2
23/03/2016	0.1	0.0	0.2	06:00	0.2	02:00	0	96.2
24/03/2016	0.1	0.0	0.2	07:00	0.1	11:00	0	79.2
¹ 25/03/2016	-	-	-	-	-	-	0	0.0
¹ 26/03/2016	-	-	-	-	-	-	0	0.0
¹ 27/03/2016	-	-	-	-	-	-	0	0.0
28/03/2016	0.1	0.0	0.3	23:00	0.1	23:00	0	94.4
29/03/2016	0.1	0.1	0.3	07:00	0.2	07:00	0	96.2
30/03/2016	0.2	0.0	0.3	21:00	0.3	23:00	0	96.2
31/03/2016	0.1	0.0	0.2	6:00	0.3	1:00	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

¹ Loss of data due to power failure

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 2 KSHS Ambient AQMS Particulate PM _{2.5} Summary March 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		
1/03/2016	7.6	3.3	16.9	18:00	0	100.0
2/03/2016	7.3	1.3	23.6	20:00	0	100.0
3/03/2016	5.3	1.5	14.4	00:00	0	100.0
4/03/2016	4.3	0.6	10.0	08:00	0	100.0
5/03/2016	6.3	1.8	17.3	18:00	0	100.0
6/03/2016	4.0	1.5	15.6	20:00	0	100.0
7/03/2016	4.7	0.5	12.4	02:00	0	100.0
8/03/2016	7.7	2.7	19.0	08:00	0	100.0
¹ 9/03/2016	-	1.7	18.6	02:00	0	70.8
10/03/2016	6.9	1.8	15.6	08:00	0	100.0
¹ 11/03/2016	-	3.7	19.1	08:00	0	62.5
¹ 12/03/2016	-	-	-	-	0	0.0
¹ 13/03/2016	-	-	-	-	0	0.0
¹ 14/03/2016	-	0.6	6.1	23:00	0	41.7
15/03/2016	7.3	1.9	19.3	22:00	0	100.0
16/03/2016	3.8	1.5	10.7	00:00	0	100.0
17/03/2016	5.0	0.6	17.7	06:00	0	100.0
18/03/2016	5.5	1.2	13.9	20:00	0	100.0
19/03/2016	6.3	2.0	12.8	00:00	0	100.0
20/03/2016	5.4	1.5	10.5	14:00	0	100.0
21/03/2016	3.3	1.4	6.5	08:00	0	100.0
22/03/2016	6.1	2.1	14.4	20:00	0	100.0
23/03/2016	6.8	2.2	12.0	08:00	0	100.0
24/03/2016	7.4	2.8	14.1	02:00	0	83.3
¹ 25/03/2016	-	-	-	-	0	0.0
¹ 26/03/2016	-	-	-	-	0	0.0
¹ 27/03/2016	-	7.7	17.7	20:00	0	25.0
28/03/2016	6.1	2.1	13.3	00:00	0	100.0
29/03/2016	5.8	1.4	14.3	08:00	0	100.0
30/03/2016	7.1	1.9	17.2	20:00	0	100.0
31/03/2016	4.4	0.8	12.9	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 power failure

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary March 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		
1/03/2016	13.3	6.5	24.8	16:00	0	100.0
2/03/2016	19.3	7.6	42.9	20:00	0	100.0
3/03/2016	17.1	6.0	26.0	06:00	0	100.0
4/03/2016	11.1	5.7	16.5	08:00	0	100.0
5/03/2016	11.0	7.4	17.5	10:00	0	100.0
6/03/2016	10.7	3.7	21.7	20:00	0	100.0
7/03/2016	14.0	6.6	23.1	08:00	0	100.0
8/03/2016	13.7	3.2	24.3	22:00	0	100.0
¹ 9/03/2016	-	6.7	24.9	02:00	0	70.8
10/03/2016	16.3	9.6	26.8	22:00	0	100.0
¹ 11/03/2016	-	6.8	29.2	08:00	0	62.5
¹ 12/03/2016	-	-	-	-	0	0.0
¹ 13/03/2016	-	-	-	-	0	0.0
¹ 14/03/2016	-	20.7	47.3	14:00	0	41.7
15/03/2016	18.2	9.1	29.3	08:00	0	100.0
16/03/2016	9.7	3.4	20.2	10:00	0	100.0
17/03/2016	9.2	3.3	22.8	22:00	0	100.0
18/03/2016	11.8	4.4	19.4	20:00	0	100.0
19/03/2016	17.4	5.8	46.3	20:00	0	100.0
20/03/2016	16.4	8.5	25.6	22:00	0	100.0
21/03/2016	13.6	5.0	21.4	16:00	0	100.0
22/03/2016	13.5	4.2	27.5	20:00	0	100.0
23/03/2016	16.1	11.4	23.3	10:00	0	100.0
24/03/2016	18.3	13.6	28.5	02:00	0	83.3
¹ 25/03/2016	-	-	-	-	0	0.0
¹ 26/03/2016	-	-	-	-	0	0.0
¹ 27/03/2016	-	15.6	19.2	22:00	0	25.0
28/03/2016	9.5	3.8	20.8	08:00	0	100.0
29/03/2016	13.7	7.8	21.5	10:00	0	100.0
30/03/2016	11.0	4.3	23.1	18:00	0	100.0
31/03/2016	11.8	3.2	23.6	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 power failure

Table 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary March 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.020	23/03/2016 23:00	97.1
CO	ppm	8.0	8 Hours	0.3	02/03/2016 10:00	96.6
PM _{2.5}	µg/m ³	25	24 Hours	12.9	13/03/2016	99.7
PM ₁₀	µg/m ³	50	24 Hours	19.4	11/03/2016	98.0

Table 14 Station 3 Monthly Summary

Graphical Representations

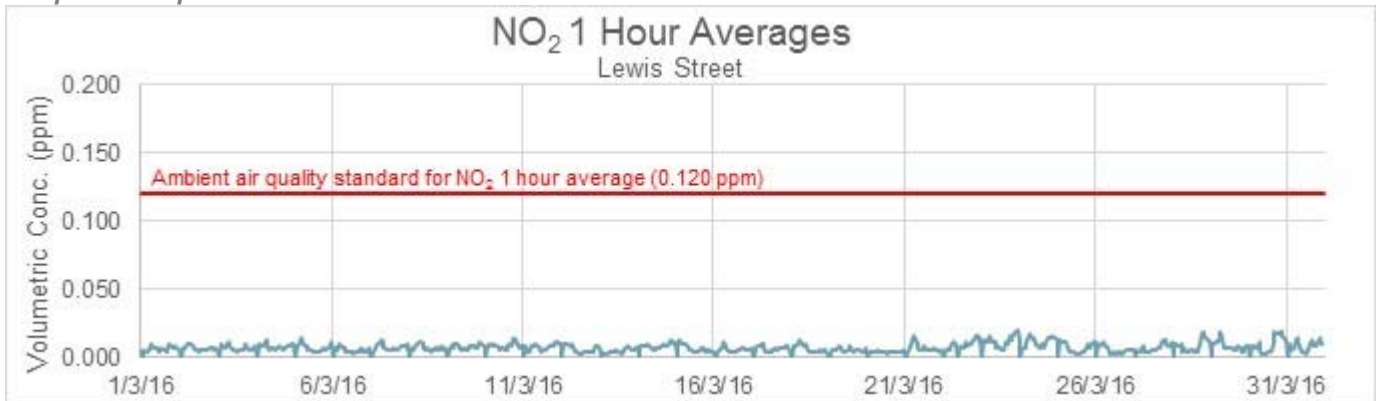


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

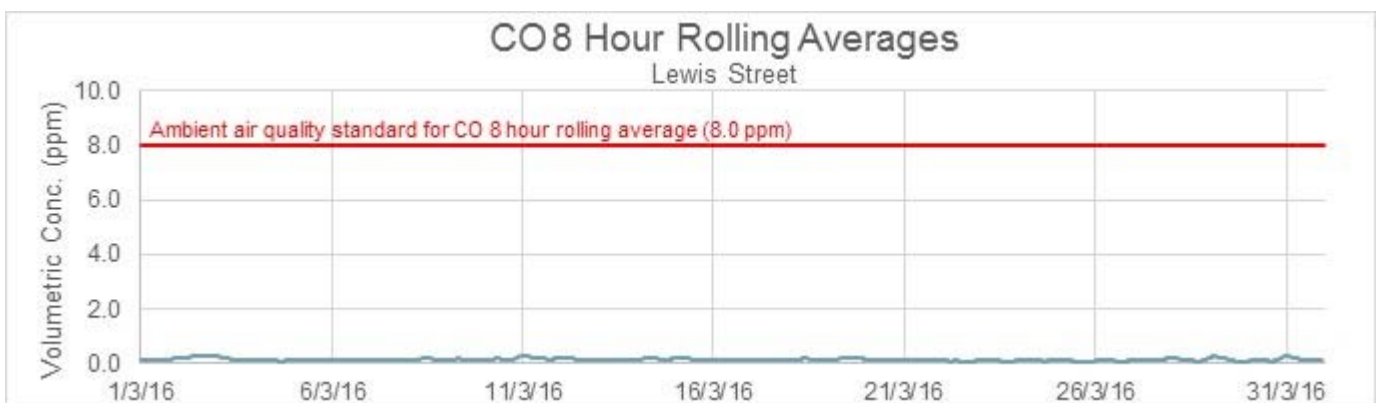


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

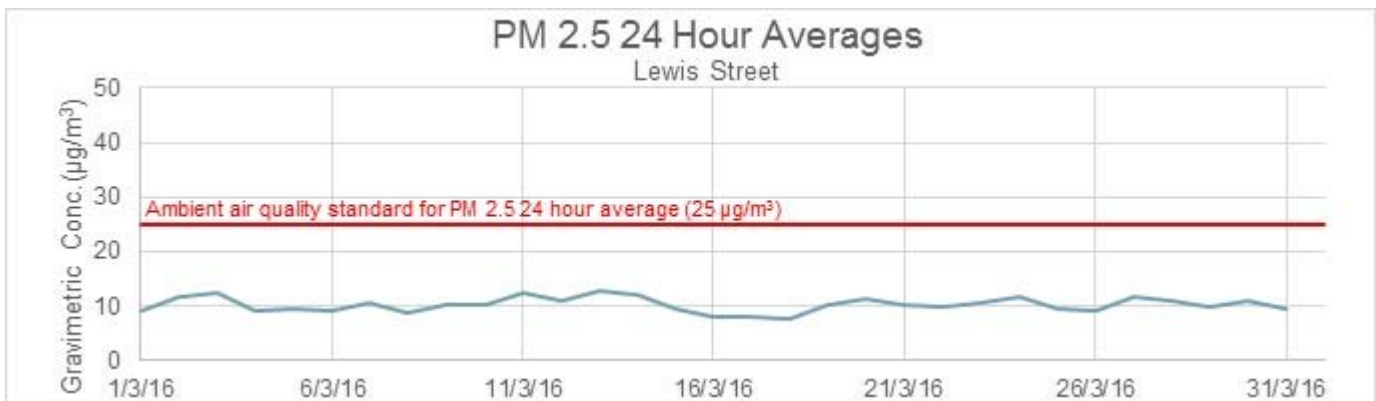


Figure 11 Station 3 PM2.5 24hr averages

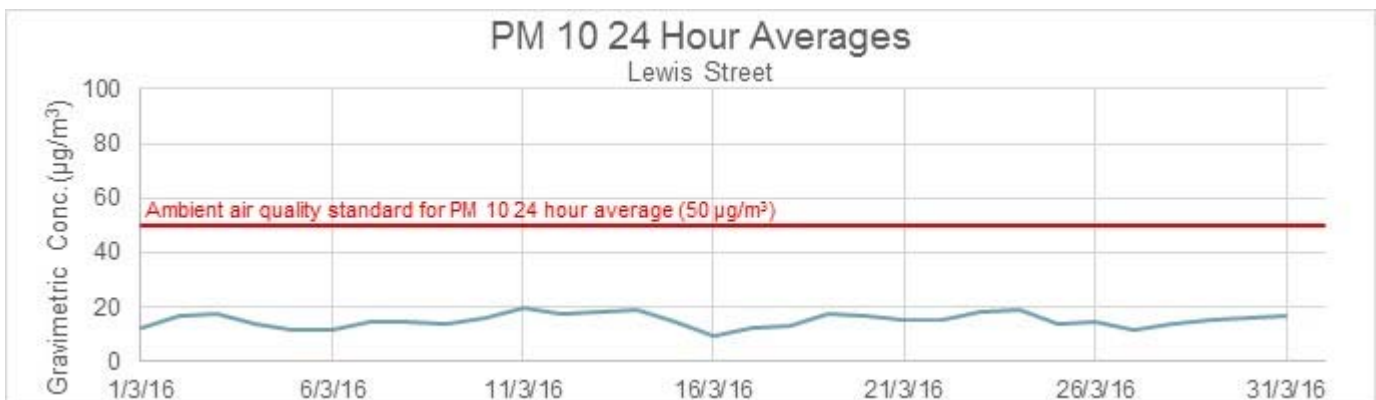


Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary March 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		
1/03/2016	0.006	0.004	0.010	06:00	0	97.2
2/03/2016	0.007	0.005	0.010	06:00	0	97.2
3/03/2016	0.007	0.004	0.012	07:00	0	97.2
4/03/2016	0.008	0.006	0.013	07:00	0	97.2
5/03/2016	0.007	0.004	0.014	05:00	0	97.2
6/03/2016	0.006	0.003	0.011	00:00	0	97.2
7/03/2016	0.008	0.004	0.013	07:00	0	97.2
8/03/2016	0.007	0.005	0.012	08:00	0	97.2
9/03/2016	0.008	0.006	0.012	21:00	0	97.2
10/03/2016	0.009	0.005	0.014	18:00	0	97.2
11/03/2016	0.008	0.004	0.011	22:00	0	97.2
12/03/2016	0.006	0.003	0.010	07:00	0	97.2
13/03/2016	0.005	0.002	0.009	18:00	0	97.2
14/03/2016	0.009	0.006	0.014	22:00	0	97.2
15/03/2016	0.007	0.004	0.013	03:00	0	97.2
16/03/2016	0.006	0.004	0.012	06:00	0	97.2
17/03/2016	0.007	0.004	0.011	06:00	0	97.2
18/03/2016	0.007	0.004	0.013	06:00	0	97.2
19/03/2016	0.005	0.003	0.009	07:00	0	97.2
20/03/2016	0.004	0.003	0.007	00:00	0	97.2
21/03/2016	0.007	0.004	0.015	06:00	0	97.2
22/03/2016	0.009	0.005	0.016	22:00	0	93.1
23/03/2016	0.012	0.005	0.020	23:00	0	97.2
24/03/2016	0.012	0.006	0.018	07:00	0	97.2
25/03/2016	0.008	0.003	0.013	00:00	0	97.2
26/03/2016	0.006	0.003	0.012	00:00	0	97.2
27/03/2016	0.007	0.004	0.013	19:00	0	97.2
28/03/2016	0.009	0.004	0.019	20:00	0	97.2
29/03/2016	0.009	0.004	0.019	07:00	0	97.2
30/03/2016	0.010	0.003	0.019	17:00	0	97.2
31/03/2016	0.009	0.003	0.014	7:00	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 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary March 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		
1/03/2016	0.2	0.1	0.2	18:00	0.2	23:00	0	96.5
2/03/2016	0.3	0.1	0.3	07:00	0.3	10:00	0	96.5
3/03/2016	0.1	0.1	0.3	06:00	0.3	00:00	0	96.5
4/03/2016	0.1	0.1	0.2	06:00	0.2	08:00	0	96.5
5/03/2016	0.1	0.1	0.2	23:00	0.2	23:00	0	96.5
6/03/2016	0.1	0.1	0.2	23:00	0.2	01:00	0	96.5
7/03/2016	0.1	0.1	0.2	08:00	0.2	09:00	0	96.5
8/03/2016	0.2	0.1	0.3	08:00	0.2	13:00	0	96.5
9/03/2016	0.2	0.1	0.3	06:00	0.2	07:00	0	96.5
10/03/2016	0.2	0.1	0.4	22:00	0.3	23:00	0	96.5
11/03/2016	0.2	0.1	0.3	07:00	0.3	01:00	0	97.2
12/03/2016	0.1	0.1	0.2	23:00	0.2	01:00	0	96.5
13/03/2016	0.1	0.1	0.2	18:00	0.2	01:00	0	96.9
14/03/2016	0.2	0.1	0.2	07:00	0.2	08:00	0	96.9
15/03/2016	0.2	0.1	0.2	07:00	0.2	03:00	0	96.9
16/03/2016	0.1	0.1	0.2	06:00	0.2	11:00	0	96.2
17/03/2016	0.1	0.1	0.2	07:00	0.2	23:00	0	96.9
18/03/2016	0.2	0.1	0.2	06:00	0.2	10:00	0	96.9
19/03/2016	0.2	0.2	0.2	12:00	0.2	14:00	0	96.9
20/03/2016	0.1	0.1	0.1	20:00	0.2	00:00	0	96.9
21/03/2016	0.1	0.1	0.2	06:00	0.1	08:00	0	96.9
22/03/2016	0.1	0.0	0.3	22:00	0.1	23:00	0	92.7
23/03/2016	0.1	0.0	0.2	23:00	0.2	03:00	0	96.9
24/03/2016	0.1	0.1	0.3	07:00	0.2	09:00	0	96.9
25/03/2016	0.1	0.0	0.2	02:00	0.2	03:00	0	96.9
26/03/2016	0.1	0.1	0.2	00:00	0.2	05:00	0	96.9
27/03/2016	0.1	0.1	0.2	19:00	0.2	23:00	0	96.9
28/03/2016	0.2	0.1	0.3	23:00	0.2	23:00	0	96.9
29/03/2016	0.1	0.1	0.3	07:00	0.3	03:00	0	96.9
30/03/2016	0.2	0.0	0.3	21:00	0.3	23:00	0	96.9
31/03/2016	0.1	0.1	0.3	0:00	0.3	1:00	0	96.9

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

Table 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM _{2.5} Summary March 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		
1/03/2016	9.1	2.2	15.6	21:00	0	100.0
2/03/2016	11.6	5.1	18.2	21:00	0	100.0
3/03/2016	12.4	8.0	17.7	12:00	0	100.0
4/03/2016	9.3	4.4	13.6	01:00	0	100.0
5/03/2016	9.6	5.3	17.8	18:00	0	100.0
6/03/2016	9.0	3.3	13.7	03:00	0	100.0
7/03/2016	10.6	6.3	15.7	08:00	0	100.0
8/03/2016	8.7	2.3	16.7	02:00	0	100.0
9/03/2016	10.1	5.6	18.5	20:00	0	100.0
10/03/2016	10.1	6.5	13.8	08:00	0	100.0
11/03/2016	12.6	7.1	18.5	14:00	0	100.0
12/03/2016	10.9	6.5	17.4	22:00	0	100.0
13/03/2016	12.9	6.0	24.3	20:00	0	100.0
14/03/2016	12.2	5.6	16.9	20:00	0	100.0
15/03/2016	9.6	7.0	13.8	15:00	0	100.0
16/03/2016	8.2	4.2	13.7	12:00	0	100.0
17/03/2016	8.1	4.3	12.7	21:00	0	100.0
18/03/2016	7.7	4.1	12.8	04:00	0	100.0
19/03/2016	10.1	2.2	19.7	21:00	0	100.0
20/03/2016	11.4	6.1	19.0	07:00	0	100.0
21/03/2016	10.1	6.3	15.1	00:00	0	100.0
22/03/2016	9.9	5.1	18.9	20:00	0	91.7
23/03/2016	10.7	6.7	16.2	07:00	0	100.0
24/03/2016	11.7	6.9	17.7	19:00	0	100.0
25/03/2016	9.7	6.0	13.8	00:00	0	100.0
26/03/2016	9.1	3.5	12.8	22:00	0	100.0
27/03/2016	11.7	6.0	16.6	03:00	0	100.0
28/03/2016	10.8	5.2	25.2	07:00	0	100.0
29/03/2016	9.7	2.3	17.6	07:00	0	100.0
30/03/2016	11.0	4.6	17.8	22:00	0	100.0
31/03/2016	9.3	3.3	15.6	7:00	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

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary March 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		
1/03/2016	12.1	3.7	25.6	10:00	0	95.8
2/03/2016	17.0	9.3	27.1	19:00	0	95.8
3/03/2016	17.8	10.5	24.8	16:00	0	100.0
4/03/2016	13.9	8.3	26.4	14:00	0	100.0
5/03/2016	11.9	8.1	18.5	08:00	0	95.8
6/03/2016	11.4	6.8	22.1	19:00	0	100.0
7/03/2016	14.5	6.0	23.8	15:00	0	100.0
8/03/2016	14.4	8.6	24.1	08:00	0	95.8
9/03/2016	13.8	7.4	19.9	07:00	0	100.0
10/03/2016	16.2	7.3	28.1	14:00	0	100.0
11/03/2016	19.4	8.4	30.4	09:00	0	100.0
12/03/2016	17.7	6.0	28.6	16:00	0	100.0
13/03/2016	18.3	5.0	35.7	19:00	0	95.8
14/03/2016	18.9	10.3	24.5	06:00	0	100.0
15/03/2016	14.7	4.5	30.6	14:00	0	100.0
16/03/2016	9.7	1.7	17.7	08:00	0	100.0
17/03/2016	12.1	5.4	19.4	15:00	0	100.0
18/03/2016	12.8	4.8	30.2	06:00	0	100.0
19/03/2016	17.4	6.3	34.1	18:00	0	100.0
20/03/2016	17.0	8.4	28.1	09:00	0	100.0
21/03/2016	15.6	8.5	23.1	13:00	0	100.0
22/03/2016	15.3	6.2	29.3	19:00	0	91.7
23/03/2016	18.1	7.3	27.4	06:00	0	100.0
24/03/2016	19.1	8.0	29.1	07:00	0	100.0
25/03/2016	13.8	8.7	22.6	06:00	0	100.0
26/03/2016	14.3	8.7	35.3	15:00	0	100.0
27/03/2016	12.0	8.1	17.5	19:00	0	100.0
28/03/2016	13.8	6.1	32.3	15:00	0	91.7
29/03/2016	15.3	7.8	37.7	06:00	0	100.0
30/03/2016	15.8	6.3	33.2	16:00	0	87.5
31/03/2016	17.2	6.2	44.4	14:00	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

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary March 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.024	23/03/2016 22:00	97.2
CO	ppm	8.0	8 Hours	0.5	22/03/2016 23:00	96.8
PM _{2.5}	µg/m ³	25	24 Hours	10.2	11/03/2016	98.7
PM ₁₀	µg/m ³	50	24 Hours	19.0	14/03/2016	94.6

Table 19 Station 4 Monthly Summary

Graphical Representations



Figure 13 Station 4 Nitrogen Dioxide 1hr averages

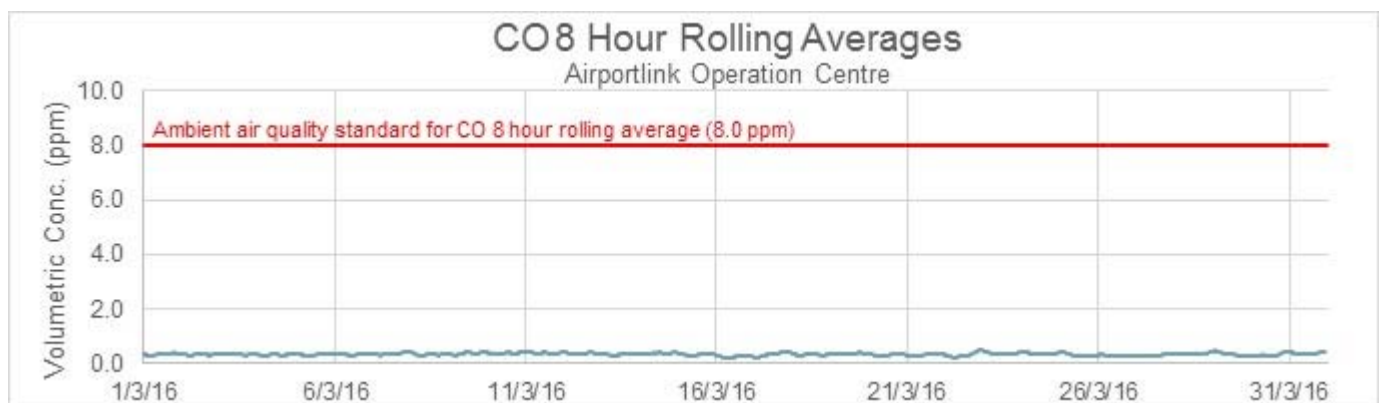


Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

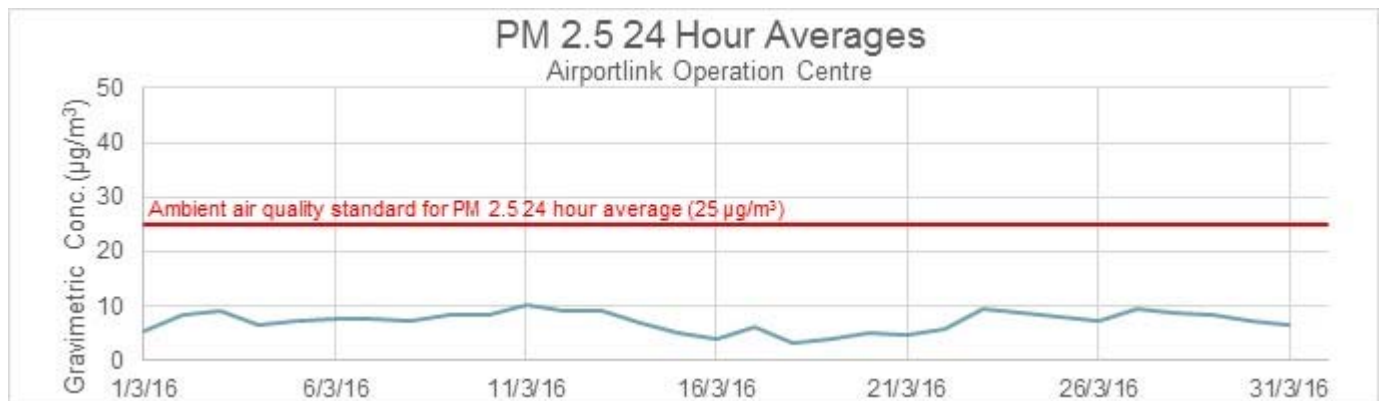


Figure 15 Station 4 PM2.5 24hr averages



Figure 16 Station 4 PM10 24hr averages

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary March 2016						
Date	24hr Avg (ppm)	1 hr Aves		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/03/2016	0.009	0.003	0.014	18:00	0	97.2
2/03/2016	0.007	0.004	0.012	08:00	0	97.2
3/03/2016	0.007	0.005	0.014	07:00	0	97.2
4/03/2016	0.010	0.006	0.015	07:00	0	97.2
5/03/2016	0.010	0.007	0.012	10:00	0	97.2
6/03/2016	0.007	0.004	0.011	00:00	0	97.2
7/03/2016	0.009	0.004	0.015	07:00	0	97.2
8/03/2016	0.009	0.005	0.014	09:00	0	97.2
9/03/2016	0.009	0.006	0.014	07:00	0	97.2
10/03/2016	0.010	0.004	0.015	20:00	0	97.2
11/03/2016	0.009	0.004	0.012	08:00	0	97.2
12/03/2016	0.010	0.005	0.013	10:00	0	97.2
13/03/2016	0.005	0.002	0.009	00:00	0	97.2
14/03/2016	0.010	0.007	0.014	09:00	0	97.2
15/03/2016	0.010	0.004	0.014	15:00	0	97.2
16/03/2016	0.009	0.004	0.014	15:00	0	97.2
17/03/2016	0.012	0.008	0.019	14:00	0	97.2
18/03/2016	0.007	0.004	0.015	10:00	0	97.2
19/03/2016	0.007	0.004	0.013	17:00	0	97.2
20/03/2016	0.007	0.004	0.014	12:00	0	97.2
21/03/2016	0.010	0.003	0.017	10:00	0	97.2
22/03/2016	0.012	0.005	0.019	17:00	0	95.1
23/03/2016	0.013	0.007	0.024	22:00	0	97.2
24/03/2016	0.013	0.007	0.021	08:00	0	97.2
25/03/2016	0.008	0.003	0.017	00:00	0	97.2
26/03/2016	0.006	0.003	0.013	03:00	0	97.2
27/03/2016	0.008	0.003	0.015	19:00	0	97.2
28/03/2016	0.010	0.005	0.021	20:00	0	97.2
29/03/2016	0.010	0.006	0.016	07:00	0	97.2
30/03/2016	0.011	0.002	0.023	17:00	0	97.2
31/03/2016	0.011	0.004	0.020	15:00	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 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary March 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		
1/03/2016	0.4	0.3	0.5	18:00	0.4	19:00	0	96.9
2/03/2016	0.3	0.3	0.5	08:00	0.4	00:00	0	96.9
3/03/2016	0.3	0.3	0.5	07:00	0.4	08:00	0	96.9
4/03/2016	0.3	0.3	0.5	19:00	0.4	23:00	0	96.9
5/03/2016	0.3	0.2	0.4	17:00	0.4	17:00	0	96.9
6/03/2016	0.3	0.3	0.4	18:00	0.4	00:00	0	96.9
7/03/2016	0.4	0.3	0.5	17:00	0.5	22:00	0	96.9
8/03/2016	0.3	0.3	0.4	18:00	0.4	00:00	0	96.9
9/03/2016	0.4	0.3	0.5	07:00	0.4	12:00	0	96.9
10/03/2016	0.4	0.3	0.5	08:00	0.4	23:00	0	96.9
11/03/2016	0.4	0.3	0.5	08:00	0.4	01:00	0	96.9
12/03/2016	0.4	0.3	0.4	02:00	0.4	17:00	0	96.9
13/03/2016	0.3	0.3	0.4	10:00	0.3	00:00	0	96.9
14/03/2016	0.4	0.3	0.5	19:00	0.4	22:00	0	96.9
15/03/2016	0.3	0.3	0.5	17:00	0.4	00:00	0	96.9
16/03/2016	0.3	0.2	0.3	15:00	0.3	00:00	0	96.2
17/03/2016	0.4	0.2	0.6	17:00	0.5	19:00	0	96.9
18/03/2016	0.3	0.3	0.4	08:00	0.4	00:00	0	96.9
19/03/2016	0.4	0.3	0.5	17:00	0.4	18:00	0	96.9
20/03/2016	0.3	0.3	0.4	15:00	0.4	17:00	0	96.9
21/03/2016	0.3	0.2	0.5	16:00	0.4	18:00	0	96.9
22/03/2016	0.4	0.2	0.6	17:00	0.5	23:00	0	94.4
23/03/2016	0.4	0.3	0.5	23:00	0.5	00:00	0	96.9
24/03/2016	0.4	0.3	0.5	08:00	0.4	01:00	0	96.9
25/03/2016	0.3	0.2	0.4	00:00	0.4	01:00	0	96.9
26/03/2016	0.3	0.2	0.3	03:00	0.3	02:00	0	96.9
27/03/2016	0.3	0.2	0.4	22:00	0.4	23:00	0	96.9
28/03/2016	0.4	0.3	0.6	21:00	0.5	23:00	0	96.9
29/03/2016	0.3	0.3	0.4	07:00	0.5	02:00	0	96.9
30/03/2016	0.3	0.2	0.5	17:00	0.4	23:00	0	96.9
31/03/2016	0.4	0.3	0.5	18:00	0.5	22:00	0	96.9

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

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM _{2.5} Summary March 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		
1/03/2016	5.5	0.5	14.8	12:00	0	95.8
2/03/2016	8.4	1.0	20.4	13:00	0	100.0
3/03/2016	9.1	5.0	13.0	15:00	0	100.0
4/03/2016	6.5	0.3	14.6	12:00	0	100.0
5/03/2016	7.4	1.2	14.9	13:00	0	100.0
6/03/2016	7.5	4.3	11.9	12:00	0	100.0
7/03/2016	7.8	2.2	13.5	18:00	0	100.0
8/03/2016	7.3	-1.0	16.9	12:00	0	100.0
9/03/2016	8.6	4.2	17.9	15:00	0	100.0
10/03/2016	8.6	1.3	19.2	12:00	0	100.0
11/03/2016	10.2	4.2	26.7	17:00	0	100.0
12/03/2016	9.2	1.2	17.1	04:00	0	100.0
13/03/2016	9.2	2.0	15.8	01:00	0	100.0
14/03/2016	7.0	0.6	12.0	08:00	0	100.0
15/03/2016	4.9	1.0	15.0	19:00	0	91.7
16/03/2016	3.9	0.0	7.8	06:00	0	100.0
17/03/2016	6.1	2.0	9.9	22:00	0	100.0
18/03/2016	3.2	0.1	6.9	08:00	0	100.0
19/03/2016	3.9	-0.7	15.9	23:00	0	100.0
20/03/2016	5.1	0.1	10.7	05:00	0	100.0
21/03/2016	4.6	0.1	9.8	19:00	0	100.0
22/03/2016	5.7	1.0	11.8	08:00	0	91.7
23/03/2016	9.4	5.0	21.5	10:00	0	95.8
24/03/2016	8.8	3.2	19.7	13:00	0	100.0
25/03/2016	8.1	2.4	15.8	12:00	0	100.0
26/03/2016	7.1	1.1	16.2	09:00	0	100.0
27/03/2016	9.6	3.2	17.5	04:00	0	100.0
28/03/2016	8.8	3.1	17.6	06:00	0	100.0
29/03/2016	8.3	-0.7	16.5	11:00	0	95.8
30/03/2016	7.4	1.0	14.9	02:00	0	95.8
31/03/2016	6.7	-1.0	12.9	1:00	0	91.7

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

Table 22 Station 4 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary March 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 1/03/2016	-	4.5	17.3	08:00	0	41.7
¹ 2/03/2016	-	10.6	22.4	19:00	0	66.7
3/03/2016	17.6	12.9	24.0	07:00	0	75.0
4/03/2016	13.9	8.0	19.9	07:00	0	100.0
5/03/2016	12.3	4.1	19.8	09:00	0	100.0
6/03/2016	10.6	4.9	18.6	19:00	0	100.0
7/03/2016	14.4	6.2	21.4	16:00	0	100.0
8/03/2016	13.0	7.0	19.5	18:00	0	95.8
9/03/2016	13.8	2.5	53.9	05:00	0	83.3
10/03/2016	12.6	8.4	20.8	08:00	0	100.0
11/03/2016	16.2	6.5	24.2	08:00	0	100.0
12/03/2016	17.6	8.7	30.0	10:00	0	100.0
13/03/2016	15.9	6.0	30.8	20:00	0	87.5
14/03/2016	19.0	12.3	26.5	08:00	0	100.0
15/03/2016	14.8	5.3	26.6	14:00	0	100.0
16/03/2016	9.6	1.9	20.1	11:00	0	100.0
17/03/2016	12.6	5.7	17.3	18:00	0	100.0
18/03/2016	11.1	5.0	16.2	08:00	0	100.0
19/03/2016	15.5	5.4	30.7	19:00	0	83.3
20/03/2016	16.3	9.9	23.0	08:00	0	100.0
21/03/2016	15.1	8.9	20.8	13:00	0	100.0
22/03/2016	14.3	7.5	22.8	18:00	0	100.0
23/03/2016	16.7	12.3	20.7	19:00	0	100.0
24/03/2016	17.4	10.2	23.4	08:00	0	100.0
25/03/2016	13.3	9.4	17.6	15:00	0	100.0
26/03/2016	12.9	8.6	23.8	15:00	0	100.0
27/03/2016	11.1	6.9	15.6	19:00	0	100.0
28/03/2016	11.4	5.2	15.2	20:00	0	100.0
29/03/2016	13.4	8.2	24.3	13:00	0	100.0
30/03/2016	12.7	4.0	22.2	16:00	0	100.0
31/03/2016	13.2	2.3	27.7	15:00	0	100.0

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

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

¹ Loss of data due to instrument fault

Table 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Cartwright Street)

Summary

Station 5 Cartwright St Ambient AQMS Summary March 2016						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.035	07/03/2016 15:00	96.8
CO	ppm	8.0	8 Hours	0.5	22/03/2016 23:00	96.3
PM _{2.5}	µg/m ³	25	24 Hours	9.2	04/03/2016	96.0
PM ₁₀	µg/m ³	50	24 Hours	28.9	03/03/2016	98.9

Table 24 Station 5 Monthly Summary

Graphical Representations

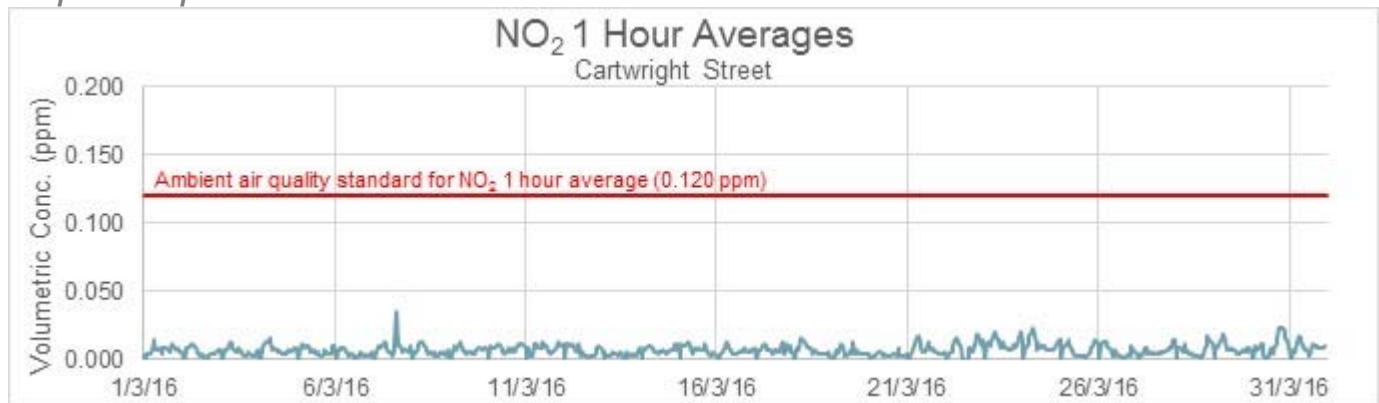


Figure 17 Station 5 Dioxide 1hr averages

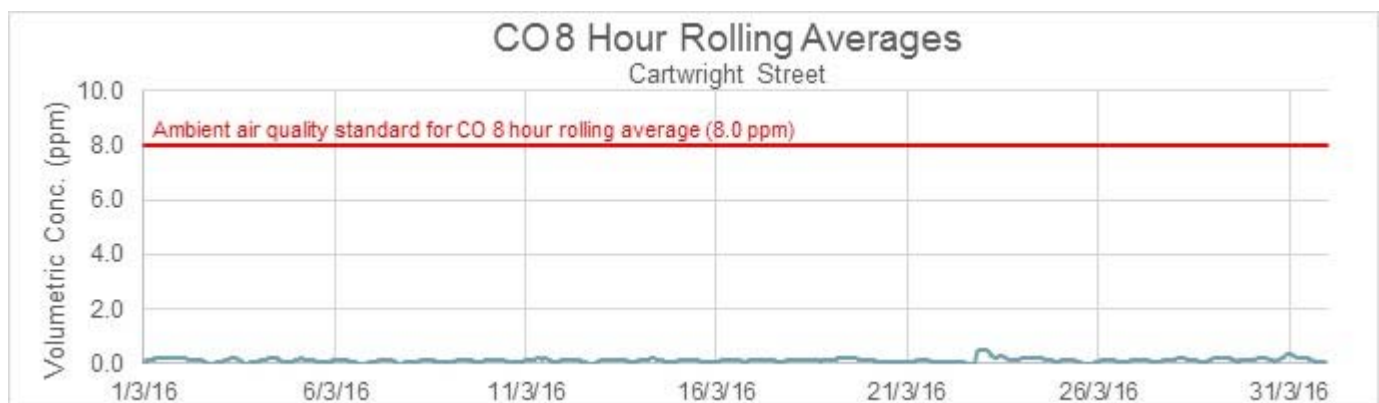


Figure 18 Station 5 Carbon Monoxide 8hr rolling averages

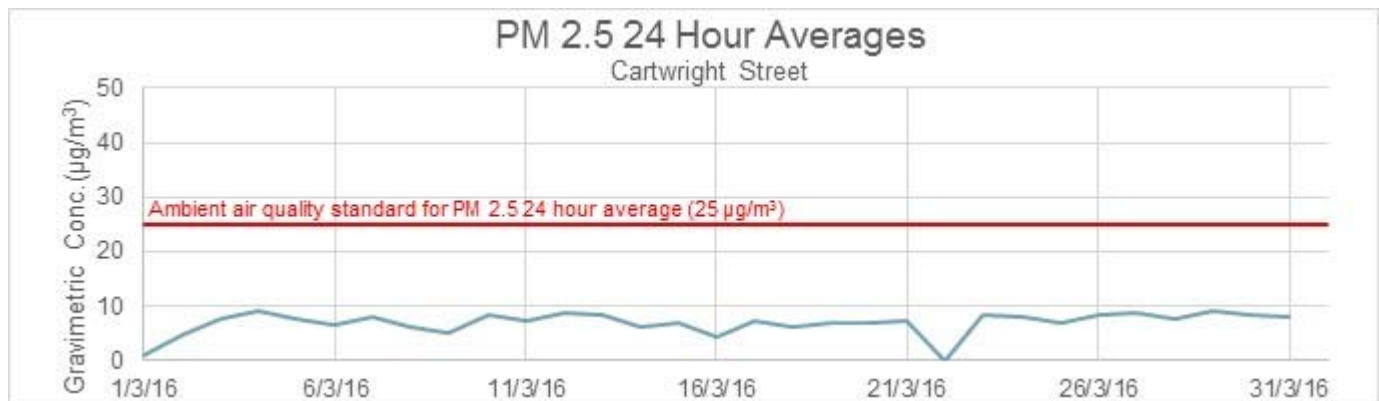


Figure 19 Station 5 PM2.5 24hr averages

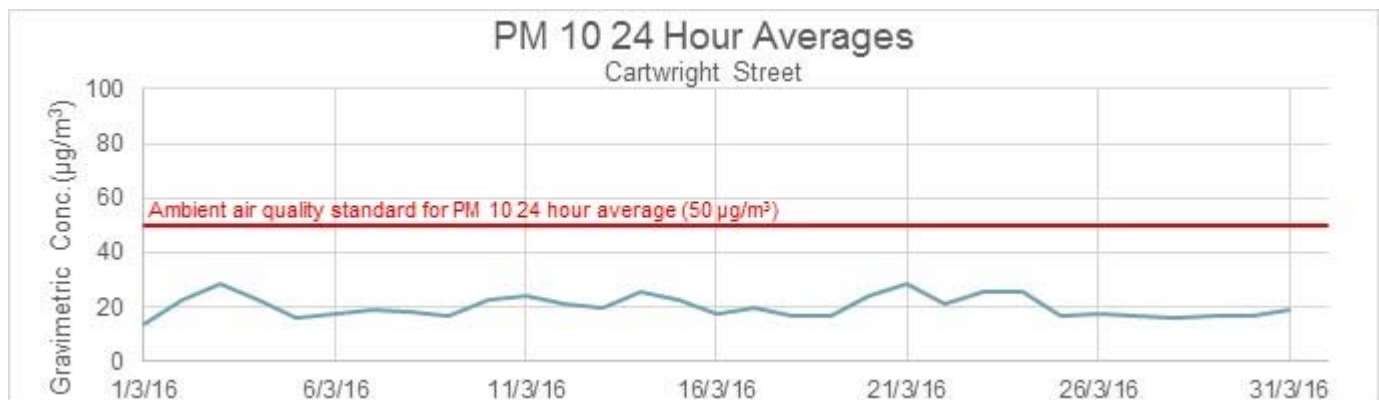


Figure 20 Station 5 PM10 24hr averages

Nitrogen Dioxide Summary

Station 5 Cartwright St Ambient AQMS Nitrogen Dioxide Summary March 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		
1/03/2016	0.007	0.003	0.014	06:00	0	97.2
2/03/2016	0.006	0.002	0.012	06:00	0	97.2
3/03/2016	0.006	0.002	0.012	06:00	0	97.2
4/03/2016	0.008	0.004	0.016	07:00	0	97.2
5/03/2016	0.007	0.002	0.012	04:00	0	97.2
6/03/2016	0.005	0.002	0.010	00:00	0	97.2
7/03/2016	0.009	0.003	0.035	15:00	0	97.2
8/03/2016	0.006	0.002	0.014	07:00	0	97.2
9/03/2016	0.007	0.004	0.012	07:00	0	97.2
10/03/2016	0.008	0.005	0.011	19:00	0	97.2
11/03/2016	0.009	0.003	0.013	21:00	0	97.2
12/03/2016	0.007	0.002	0.012	05:00	0	97.2
13/03/2016	0.004	0.001	0.007	00:00	0	97.2
14/03/2016	0.007	0.004	0.011	22:00	0	97.2
15/03/2016	0.008	0.003	0.013	06:00	0	97.2
16/03/2016	0.006	0.003	0.012	06:00	0	97.2
17/03/2016	0.008	0.004	0.013	17:00	0	97.2
18/03/2016	0.007	0.003	0.016	05:00	0	97.2
19/03/2016	0.005	0.003	0.012	14:00	0	97.2
20/03/2016	0.004	0.002	0.009	18:00	0	97.2
21/03/2016	0.008	0.003	0.017	07:00	0	97.2
22/03/2016	0.010	0.005	0.018	20:00	0	83.3
23/03/2016	0.012	0.007	0.021	23:00	0	97.2
24/03/2016	0.011	0.007	0.023	07:00	0	97.2
25/03/2016	0.007	0.001	0.014	00:00	0	97.2
26/03/2016	0.006	0.001	0.013	05:00	0	97.2
27/03/2016	0.006	0.003	0.015	23:00	0	97.2
28/03/2016	0.007	0.002	0.018	21:00	0	97.2
29/03/2016	0.009	0.004	0.018	07:00	0	97.2
30/03/2016	0.011	0.001	0.024	19:00	0	97.2
31/03/2016	0.009	0.003	0.017	6:00	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 March 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		
1/03/2016	0.2	0.1	0.3	18:00	0.2	22:00	0	96.9
2/03/2016	0.1	0.0	0.3	07:00	0.2	00:00	0	96.9
3/03/2016	0.1	0.0	0.4	06:00	0.2	07:00	0	96.9
4/03/2016	0.1	0.0	0.4	07:00	0.2	08:00	0	96.9
5/03/2016	0.1	0.0	0.2	23:00	0.2	03:00	0	96.9
6/03/2016	0.1	0.0	0.2	00:00	0.2	02:00	0	96.9
7/03/2016	0.1	0.0	0.2	06:00	0.2	08:00	0	96.9
8/03/2016	0.1	0.0	0.3	07:00	0.2	11:00	0	96.9
9/03/2016	0.1	0.0	0.2	07:00	0.1	08:00	0	96.9
10/03/2016	0.1	0.0	0.2	23:00	0.1	08:00	0	96.9
11/03/2016	0.1	0.0	0.3	06:00	0.2	12:00	0	96.9
12/03/2016	0.1	0.0	0.2	02:00	0.2	04:00	0	96.9
13/03/2016	0.1	0.1	0.2	09:00	0.1	03:00	0	96.9
14/03/2016	0.1	0.0	0.3	07:00	0.2	08:00	0	96.9
15/03/2016	0.1	0.0	0.2	07:00	0.2	07:00	0	96.9
16/03/2016	0.1	0.1	0.2	07:00	0.2	08:00	0	96.9
17/03/2016	0.1	0.1	0.2	06:00	0.1	08:00	0	96.9
18/03/2016	0.1	0.1	0.2	07:00	0.2	09:00	0	96.2
19/03/2016	0.2	0.1	0.3	06:00	0.2	10:00	0	96.9
20/03/2016	0.1	0.0	0.1	00:00	0.1	00:00	0	96.9
21/03/2016	0.1	0.0	0.2	07:00	0.1	08:00	0	96.9
22/03/2016	0.3	0.0	0.7	21:00	0.5	23:00	0	82.6
23/03/2016	0.2	0.1	0.4	08:00	0.5	01:00	0	96.9
24/03/2016	0.1	0.1	0.3	06:00	0.2	01:00	0	96.5
25/03/2016	0.1	0.0	0.2	00:00	0.1	05:00	0	96.5
26/03/2016	0.1	0.0	0.2	21:00	0.2	06:00	0	95.8
27/03/2016	0.1	0.1	0.2	23:00	0.2	23:00	0	96.5
28/03/2016	0.1	0.0	0.4	22:00	0.2	03:00	0	96.5
29/03/2016	0.2	0.1	0.3	06:00	0.2	04:00	0	96.2
30/03/2016	0.2	0.0	0.4	20:00	0.3	23:00	0	96.5
31/03/2016	0.1	0.0	0.3	6:00	0.3	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

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM2.5 Summary March 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		
1/03/2016	1.0	-1.0	4.9	21:00	0	75.0
2/03/2016	4.8	-1.0	23.8	16:00	0	91.7
3/03/2016	7.7	2.4	17.0	18:00	0	100.0
4/03/2016	9.2	3.5	15.1	17:00	0	95.8
5/03/2016	7.6	4.2	15.3	04:00	0	100.0
6/03/2016	6.6	1.5	14.3	17:00	0	100.0
7/03/2016	8.1	3.3	15.5	16:00	0	100.0
8/03/2016	6.0	-1.0	12.4	20:00	0	87.5
9/03/2016	5.1	-1.0	9.8	07:00	0	95.8
10/03/2016	8.4	1.2	14.9	17:00	0	100.0
11/03/2016	7.4	3.1	18.9	16:00	0	100.0
12/03/2016	8.9	3.4	14.7	03:00	0	95.8
13/03/2016	8.4	3.1	21.8	17:00	0	95.8
14/03/2016	6.0	2.3	13.5	19:00	0	100.0
15/03/2016	6.8	-0.7	13.7	06:00	0	91.7
16/03/2016	4.3	0.0	10.6	16:00	0	100.0
17/03/2016	7.4	-0.5	23.4	17:00	0	100.0
18/03/2016	6.3	0.3	22.2	17:00	0	100.0
19/03/2016	7.0	0.0	13.6	18:00	0	100.0
20/03/2016	7.0	1.6	16.5	18:00	0	95.8
21/03/2016	7.2	2.2	15.6	08:00	0	100.0
¹ 22/03/2016	-	0.0	10.8	06:00	0	70.8
23/03/2016	8.3	2.2	24.6	18:00	0	100.0
24/03/2016	8.2	1.4	19.4	16:00	0	100.0
25/03/2016	7.0	0.0	19.7	17:00	0	95.8
26/03/2016	8.5	0.2	22.0	20:00	0	91.7
27/03/2016	8.7	2.8	15.2	14:00	0	100.0
28/03/2016	7.8	1.0	15.7	07:00	0	100.0
29/03/2016	9.0	1.6	16.7	06:00	0	95.8
30/03/2016	8.3	0.5	22.9	15:00	0	100.0
31/03/2016	7.9	1.0	22.4	16:00	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

¹ Loss of data due to maintenance

Table 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM10 Summary March 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		
1/03/2016	13.8	6.2	31.3	11:00	0	100.0
2/03/2016	22.5	13.5	52.5	16:00	0	100.0
3/03/2016	28.9	14.3	54.1	15:00	0	100.0
4/03/2016	22.9	8.9	48.4	11:00	0	100.0
5/03/2016	16.2	5.2	26.3	08:00	0	100.0
6/03/2016	17.4	10.8	22.7	19:00	0	100.0
7/03/2016	19.0	7.3	28.6	16:00	0	95.8
8/03/2016	18.3	10.5	26.0	01:00	0	100.0
9/03/2016	17.0	9.2	29.4	18:00	0	95.8
10/03/2016	23.0	6.8	43.0	15:00	0	100.0
11/03/2016	24.1	13.3	33.3	16:00	0	100.0
12/03/2016	21.4	11.0	33.3	00:00	0	100.0
13/03/2016	20.1	5.2	37.1	17:00	0	100.0
14/03/2016	25.8	14.8	41.1	09:00	0	100.0
15/03/2016	22.5	14.4	32.9	18:00	0	100.0
16/03/2016	17.5	4.2	28.7	12:00	0	100.0
17/03/2016	20.0	9.8	40.0	18:00	0	100.0
18/03/2016	16.8	4.4	50.1	16:00	0	100.0
19/03/2016	16.8	0.0	43.5	21:00	0	95.8
20/03/2016	24.4	12.0	62.8	22:00	0	100.0
21/03/2016	28.8	14.2	55.0	17:00	0	100.0
22/03/2016	21.1	7.1	38.3	15:00	0	83.3
23/03/2016	25.8	15.0	49.8	16:00	0	95.8
24/03/2016	25.3	14.3	42.6	15:00	0	100.0
25/03/2016	17.1	10.8	23.6	18:00	0	100.0
26/03/2016	17.8	10.7	24.9	16:00	0	100.0
27/03/2016	16.5	10.1	23.8	03:00	0	100.0
28/03/2016	16.0	6.9	23.8	03:00	0	100.0
29/03/2016	16.4	4.3	26.6	15:00	0	100.0
30/03/2016	16.7	2.3	25.9	16:00	0	100.0
31/03/2016	19.2	8.2	33.5	3:00	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

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 March 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 ($\mu\text{g}/\text{m}^3$)
01/03/2016	13	--*	11	15	15
07/03/2016	20	--*	17	28	24
13/03/2016	25	24	23	31	22
19/03/2016	25	25	26	26	25
25/03/2016	22	21	21	21	21
31/03/2016	24	22	20	24	22
Monthly Average	21.5	23.0	19.7	24.2	21.5

Table 29 TSP High Volume Air Sampler Results

* No data due to instrument failure

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
1/03/2016 00:55:00	31/03/2016 17:05:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	10/04/2016	CP
1/03/2016 04:50:00	31/03/2016 21:15:00	PM _{2.5}	Intermittent instrument faults – error code logged	10/04/2016	CP
9/03/2016 15:55:00	14/03/2016 16:00:00	PM _{2.5}	Instrument fault	10/04/2016	CP
22/03/2016 08:55:00	22/03/2016 09:05:00	All parameters	Maintenance	10/04/2016	CP
25/03/2016	29/03/2016 11:45:00	PM _{2.5}	Instrument fault	10/04/2016	CP
9/03/2016 16:00:00	24/03/2016 12:00:00	PM _{2.5}	Offset of 15 applied due to instrument calibration reading	10/04/2016	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
1/03/2016 04:05:00	31/03/2016 21:35:00	NO, NO ₂ , NO _x	Intermittent communication errors	10/04/2016	CP
9/03/2016 09:00:00	9/03/2016 15:20:00	All parameters	Instrument fault – circuit breaker tripped	10/04/2016	CP
9/03/2016 15:25:00	10/03/2016 00:20:00	CO	Instrument fault	10/04/2016	CP
11/03/2016 15:10:00	14/03/2016 13:35:00	All parameters	Instrument fault – circuit breaker tripped	10/04/2016	CP
14/03/2016 13:40:00	15/03/2016 00:20:00	CO	Instrument fault	10/04/2016	CP
22/03/2016 08:55:00	22/03/2016 09:05:00	All parameters	Maintenance	10/04/2016	CP
24/03/2016 19:55:00	27/03/2016 17:35:00	All parameters	Instrument fault – circuit breaker tripped	10/04/2016	CP
27/03/2016 17:40:00	28/03/2016 00:20:00	CO	Instrument fault	10/04/2016	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
1/03/2016 00:30:00	31/03/2016 15:35:00	PM _{2.5}	Intermittent instrument faults – error code logged	10/04/2016	CP
1/03/2016 11:05:00	31/03/2016 14:30:00	PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	10/04/2016	CP
22/03/2016 09:25:00	22/03/2016 10:20:00	All parameters	Maintenance	10/04/2016	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
1/03/2016 00:45:00	31/03/2016 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	10/04/2016	CP
1/03/2016 10:00:00	2/03/2016 04:30:00	PM ₁₀	Noisy data	10/04/2016	CP
1/03/2016 17:55:00	31/03/2016 15:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	10/04/2016	CP
2/03/2016 21:20:00	3/03/2016 05:55:00	PM ₁₀	Noisy data	10/04/2016	CP
13/03/2016 09:50:00	13/03/2016 12:45:00	PM ₁₀	Noisy data	10/04/2016	CP
19/03/2016 11:05:00	19/03/2016 15:15:00	PM ₁₀	Noisy data	10/04/2016	CP
22/03/2016 14:55:00	22/03/2016 15:05:00	All parameters	Maintenance	10/04/2016	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
1/03/2016 01:05:00	31/03/2016 23:05:00	PM _{2.5} , PM ₁₀	Intermittent instrument faults – error code logged	10/04/2016	CP
1/03/2016 01:55:00	31/03/2016 15:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	10/04/2016	CP
22/03/2016 11:05:00	22/03/2016 14:20:00	All channels	Maintenance	10/04/2016	CP

Table 34 Station 5 Cartwright St AQMS Data Validation Table