



Ventia Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

January 2017

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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

NORDITECH
ENVIRONMENTAL MONITORING TECHNOLOGIES

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Prepared by



Chris Priser
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Approved by



Bruno Nourdine
22 February 2017

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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 January 2017							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedences January 2017				
			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	0.030 ppm	0	0	0	0	0
PM2.5	24 hour	25 µg/m ³	0	0	0	0	0
	1 year	8 µg/m ³	0	0	0	0	0
PM10	24 hour	50 µg/m ³	0	0	0	0	0
	1 Year	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

- 201701 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	12/01/2017	12/01/2017	12/01/2017	12/01/2017	13/01/2017
CO	ppm	2.56%	AS 3580.7.1	12/01/2017	12/01/201	12/01/2017	12/01/2017	13/01/2017
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	13/12/2016*	13/12/2016	13/12/2016*	13/12/2016*	13/12/2016
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308- 170	13/12/2016	13/12/2016	13/12/2016	13/12/2016	13/12/2016
TSP	µg/m ³	7.34%	AS 3580.9.3	13/12/2016	13/12/2016	13/12/2016	13/12/2016	13/12/2016

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.

Annual averages start from January 1st and contain the average of the current year's data. Only the annual averages reported in the December report shall reflect the requirements of the maximum allowed concentration criteria as specified in Condition 19(k) of the Conditions of Approval. All annual averages captured in January to November's reports provide monitoring of the annual average only.

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 January 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.015	23/01/2017 21:00	94.7
NO ₂	ppm	0.030	Annual	0.002	--	94.7
CO	ppm	8	8 Hours	0.2	21/01/2017 03:00	94.2
PM _{2.5}	µg/m3	25	24 Hours	12.2	20/01/2017	92.9
PM _{2.5}	µg/m3	8	Annual	4.4	--	92.9
PM ₁₀	µg/m3	50	24 Hours	30.0	20/01/2017	95.8
PM ₁₀	µg/m3	50	Annual	14.6	--	95.8

Table 4 Station 1 Monthly Summary

Graphical Representations



Figure 1 Station 1 Nitrogen Dioxide 1hr averages

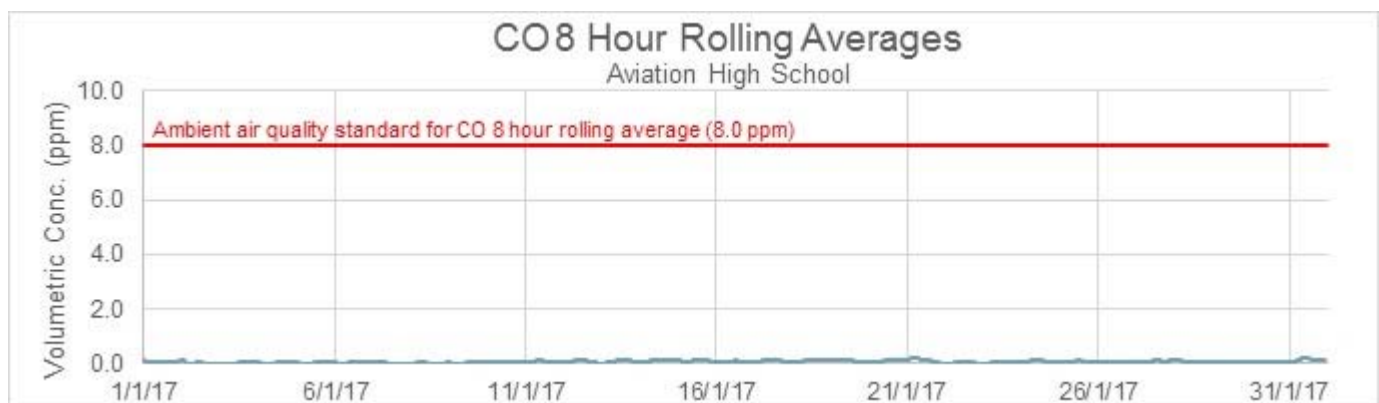


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

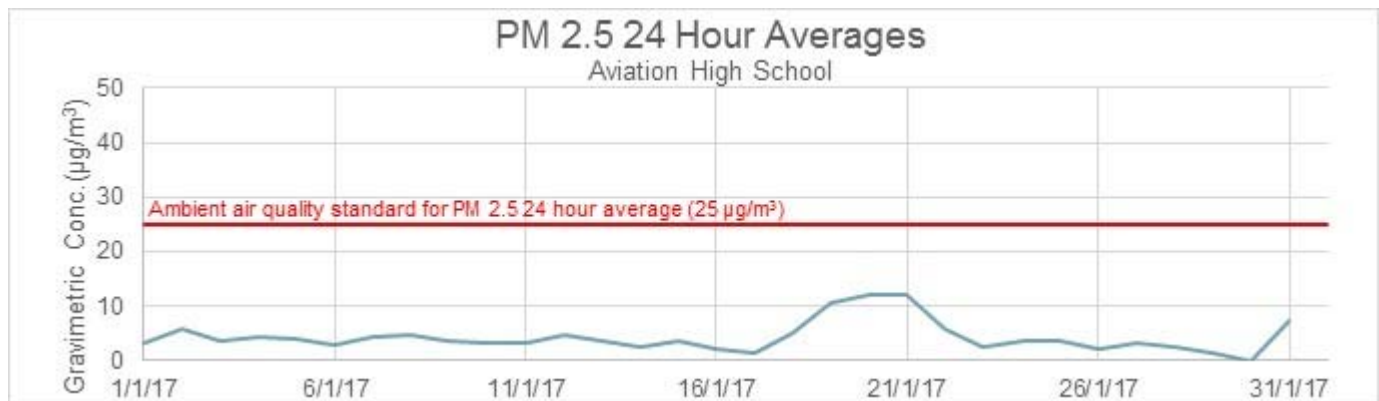


Figure 3 Station 1 PM2.5 24hr averages

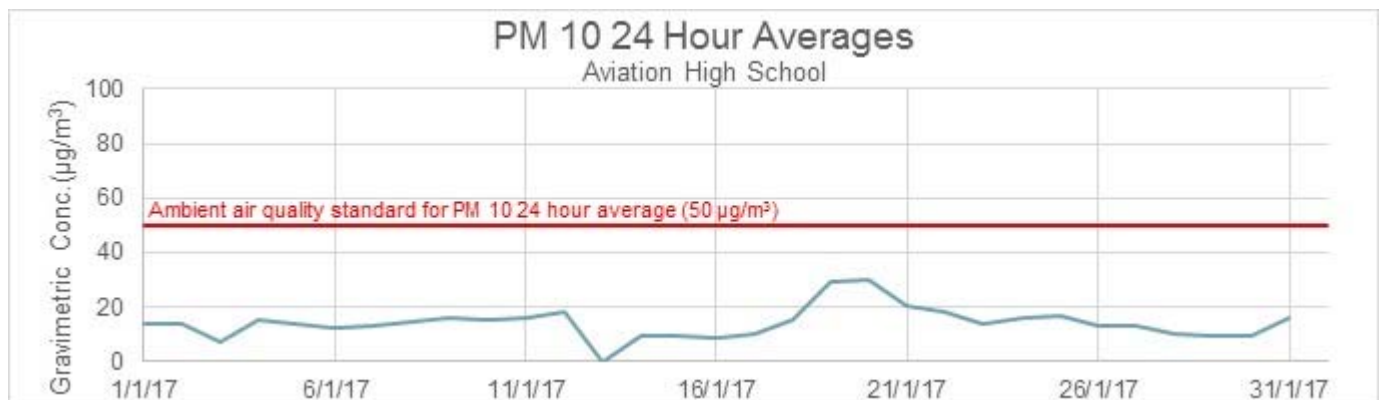


Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary January 2017						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/01/2017	-0.001	-0.002	0.001	05:00	0	98.3
2/01/2017	-0.001	-0.002	0.001	21:00	0	89.2
3/01/2017	0.001	-0.002	0.003	06:00	0	79.2
4/01/2017	0.000	-0.001	0.001	06:00	0	80.9
5/01/2017	0.002	0.000	0.006	07:00	0	78.5
6/01/2017	0.002	0.000	0.005	06:00	0	89.9
7/01/2017	0.000	-0.002	0.004	07:00	0	96.2
8/01/2017	0.001	-0.002	0.009	22:00	0	95.5
9/01/2017	0.002	0.000	0.009	00:00	0	80.2
10/01/2017	0.002	-0.001	0.007	06:00	0	98.6
11/01/2017	0.002	0.000	0.006	06:00	0	99.3
12/01/2017	0.004	-0.001	0.009	16:00	0	94.1
13/01/2017	0.001	-0.001	0.008	05:00	0	97.2
14/01/2017	0.000	-0.002	0.002	08:00	0	100.0
15/01/2017	0.001	-0.001	0.004	07:00	0	100.0
16/01/2017	0.002	0.000	0.007	07:00	0	97.2
17/01/2017	0.003	0.000	0.007	00:00	0	97.2
18/01/2017	0.003	0.001	0.006	07:00	0	97.2
19/01/2017	0.003	-0.001	0.007	08:00	0	97.2
20/01/2017	0.003	-0.001	0.009	23:00	0	97.2
21/01/2017	0.002	-0.001	0.011	00:00	0	97.2
22/01/2017	0.000	-0.002	0.005	06:00	0	97.2
23/01/2017	0.006	0.000	0.015	21:00	0	97.2
24/01/2017	0.005	0.001	0.013	06:00	0	97.2
25/01/2017	0.004	0.001	0.011	05:00	0	97.2
26/01/2017	0.000	-0.002	0.003	05:00	0	97.2
27/01/2017	0.005	-0.001	0.011	20:00	0	97.2
28/01/2017	0.002	-0.001	0.008	23:00	0	97.2
29/01/2017	0.001	-0.001	0.007	00:00	0	97.2
30/01/2017	0.001	-0.001	0.006	06:00	0	97.2
31/01/2017	0.002	-0.001	0.007	6:00	0	99.7

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 5 Station 1 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary January 2017								
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		
1/01/2017	0.1	0.0	0.2	23:00	0.1	23:00	0	97.2
2/01/2017	0.0	0.0	0.1	00:00	0.1	01:00	0	88.9
3/01/2017	0.1	0.0	0.1	08:00	0.1	11:00	0	78.5
4/01/2017	0.0	0.0	0.1	17:00	0.0	11:00	0	80.2
5/01/2017	0.1	0.0	0.1	07:00	0.1	11:00	0	78.1
6/01/2017	0.1	0.0	0.1	04:00	0.1	08:00	0	89.2
7/01/2017	0.0	0.0	0.0	00:00	0.0	01:00	0	95.8
8/01/2017	0.0	0.0	0.1	22:00	0.0	23:00	0	94.8
9/01/2017	0.1	0.0	0.1	06:00	0.1	11:00	0	79.5
10/01/2017	0.1	0.0	0.2	06:00	0.1	10:00	0	97.9
11/01/2017	0.1	0.0	0.2	06:00	0.1	10:00	0	98.6
12/01/2017	0.1	0.0	0.2	06:00	0.1	12:00	0	93.1
13/01/2017	0.1	0.1	0.1	12:00	0.1	12:00	0	96.5
14/01/2017	0.1	0.1	0.2	10:00	0.2	15:00	0	99.3
15/01/2017	0.1	0.1	0.2	10:00	0.1	14:00	0	99.7
16/01/2017	0.1	0.1	0.1	07:00	0.1	13:00	0	96.5
17/01/2017	0.1	0.0	0.2	05:00	0.1	11:00	0	96.9
18/01/2017	0.1	0.1	0.2	07:00	0.1	14:00	0	96.9
19/01/2017	0.1	0.0	0.2	08:00	0.1	11:00	0	96.5
20/01/2017	0.1	0.0	0.2	20:00	0.2	23:00	0	96.9
21/01/2017	0.1	0.0	0.2	02:00	0.2	03:00	0	96.9
22/01/2017	0.0	0.0	0.0	11:00	0.0	12:00	0	96.9
23/01/2017	0.1	0.0	0.1	07:00	0.1	11:00	0	96.9
24/01/2017	0.1	0.0	0.2	06:00	0.1	11:00	0	96.9
25/01/2017	0.1	0.0	0.1	06:00	0.1	12:00	0	96.9
26/01/2017	0.1	0.0	0.1	12:00	0.1	16:00	0	96.9
27/01/2017	0.1	0.0	0.2	21:00	0.1	14:00	0	96.9
28/01/2017	0.1	0.0	0.2	00:00	0.1	01:00	0	96.9
29/01/2017	0.1	0.0	0.1	06:00	0.1	11:00	0	96.9
30/01/2017	0.1	0.0	0.2	05:00	0.1	08:00	0	96.9
31/01/2017	0.1	0.1	0.3	06:00	0.2	11:00	0	99.0

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 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM2.5 Summary January 2017						
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		
1/01/2017	3.2	-1.0	7.7	20:00	0	83.3
2/01/2017	6.0	0.3	27.0	21:00	0	95.8
3/01/2017	3.7	-0.9	9.8	17:00	0	79.2
4/01/2017	4.3	-0.5	8.8	00:00	0	95.8
5/01/2017	3.8	-0.8	9.6	09:00	0	100.0
6/01/2017	3.0	0.0	7.8	14:00	0	100.0
7/01/2017	4.2	-1.0	8.8	03:00	0	87.5
8/01/2017	4.6	-0.9	9.8	11:00	0	100.0
9/01/2017	3.5	-0.6	8.0	05:00	0	100.0
10/01/2017	3.3	-0.9	8.6	11:00	0	91.7
11/01/2017	3.3	-0.4	6.8	05:00	0	100.0
12/01/2017	4.6	-0.8	8.7	17:00	0	91.7
13/01/2017	3.6	-1.0	29.8	22:00	0	83.3
14/01/2017	2.4	-1.0	5.8	13:00	0	95.8
15/01/2017	3.7	-0.8	15.6	07:00	0	100.0
16/01/2017	2.3	-1.0	12.5	22:00	0	87.5
17/01/2017	1.5	-0.8	6.8	10:00	0	95.8
18/01/2017	5.2	-0.8	38.2	01:00	0	100.0
19/01/2017	10.6	5.2	23.3	15:00	0	100.0
20/01/2017	12.2	4.3	27.5	21:00	0	100.0
21/01/2017	11.9	-1.0	27.8	02:00	0	91.7
22/01/2017	5.9	1.3	9.9	07:00	0	100.0
23/01/2017	2.5	0.0	6.8	06:00	0	100.0
24/01/2017	3.6	0.1	14.2	07:00	0	100.0
25/01/2017	3.8	1.0	6.8	19:00	0	100.0
26/01/2017	2.2	-0.8	4.7	22:00	0	91.7
27/01/2017	3.3	-1.0	8.0	20:00	0	87.5
28/01/2017	2.6	-0.6	8.8	00:00	0	79.2
29/01/2017	1.6	-0.9	4.9	06:00	0	95.8
¹ 30/01/2017	-	-1.0	3.8	18:00	0	70.8
31/01/2017	7.3	-0.8	59.0	01:00	0	75.0

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 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary January 2017						
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		
1/01/2017	14.2	1.9	25.5	10:00	0	87.5
2/01/2017	14.0	0.9	24.4	14:00	0	95.8
3/01/2017	7.2	2.4	15.1	17:00	0	79.2
4/01/2017	15.5	7.6	25.7	12:00	0	95.8
5/01/2017	13.9	8.0	22.2	14:00	0	91.7
6/01/2017	12.4	2.8	39.9	10:00	0	95.8
7/01/2017	13.3	3.2	20.2	16:00	0	95.8
8/01/2017	14.6	6.1	25.0	13:00	0	95.8
9/01/2017	15.9	6.6	35.6	09:00	0	100.0
10/01/2017	15.4	10.3	34.9	06:00	0	95.8
11/01/2017	16.4	10.3	25.1	10:00	0	95.8
12/01/2017	18.2	6.3	37.4	11:00	0	91.7
¹ 13/01/2017	-	4.1	26.5	11:00	0	54.2
14/01/2017	9.7	1.9	17.1	19:00	0	100.0
15/01/2017	9.4	4.9	14.7	10:00	0	100.0
16/01/2017	8.8	3.0	15.7	06:00	0	100.0
17/01/2017	10.0	5.4	15.9	09:00	0	100.0
18/01/2017	15.2	7.9	23.1	16:00	0	100.0
19/01/2017	29.4	15.5	38.0	07:00	0	100.0
20/01/2017	30.0	16.9	42.2	21:00	0	100.0
21/01/2017	20.2	6.8	44.2	02:00	0	100.0
22/01/2017	18.4	12.2	26.9	07:00	0	100.0
23/01/2017	13.9	9.5	18.2	08:00	0	100.0
24/01/2017	15.7	9.0	45.5	10:00	0	100.0
25/01/2017	16.6	10.6	26.5	10:00	0	100.0
26/01/2017	13.1	6.4	17.9	22:00	0	100.0
27/01/2017	12.9	6.9	20.6	13:00	0	100.0
28/01/2017	9.9	3.9	21.1	07:00	0	100.0
29/01/2017	9.6	6.1	14.7	16:00	0	100.0
30/01/2017	9.3	5.6	13.1	17:00	0	100.0
31/01/2017	15.8	7.8	25.0	13:00	0	95.8

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

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

¹ Loss of data due to maintenance

Table 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary January 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.013	27/01/2017 21:00	77.5
NO ₂	ppm	0.030	Annual	0.004	--	77.5
CO	ppm	8	8 Hours	0.3	21/01/2017 03:00	96.4
PM _{2.5}	µg/m3	25	24 Hours	21.6	20/01/2017	99.6
PM _{2.5}	µg/m3	8	Annual	6.7	--	99.6
PM ₁₀	µg/m3	50	24 Hours	33.7	27/01/2017	79.8
PM ₁₀	µg/m3	50	Annual	14.5	--	79.8

Table 9 Station 2 Monthly Summary

Graphical Representations

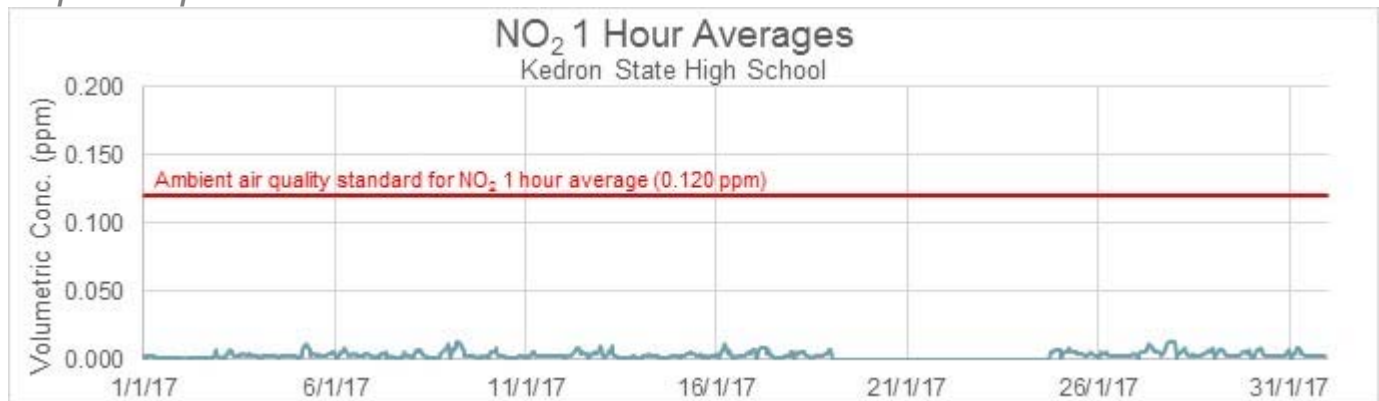


Figure 5 Station 2 Dioxide 1hr averages

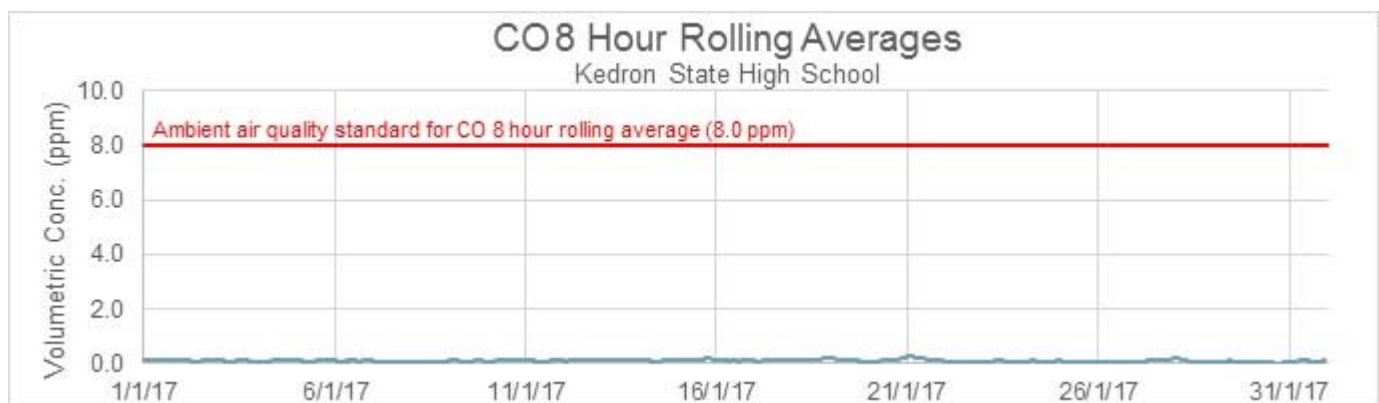


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

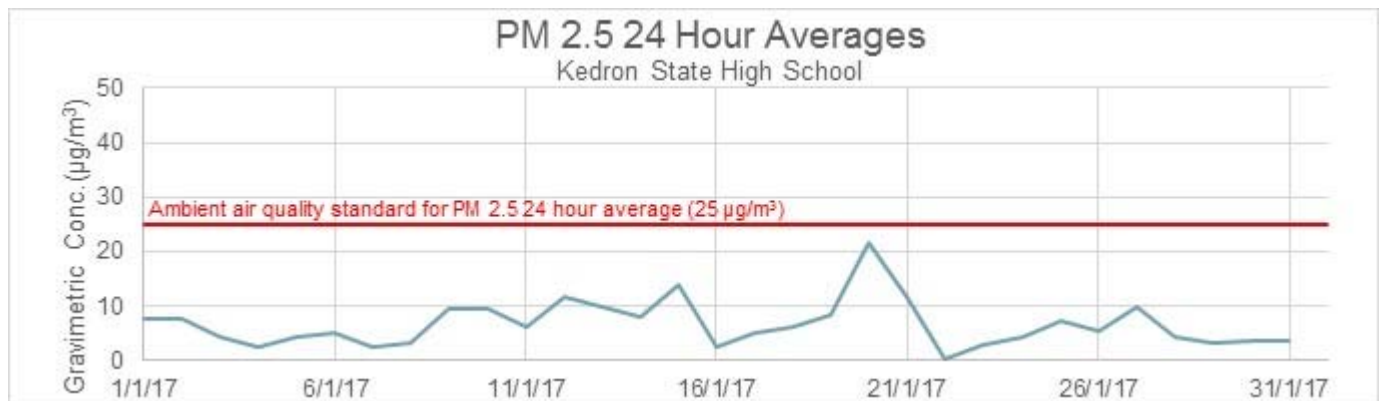


Figure 7 Station 2 PM2.5 24hr averages

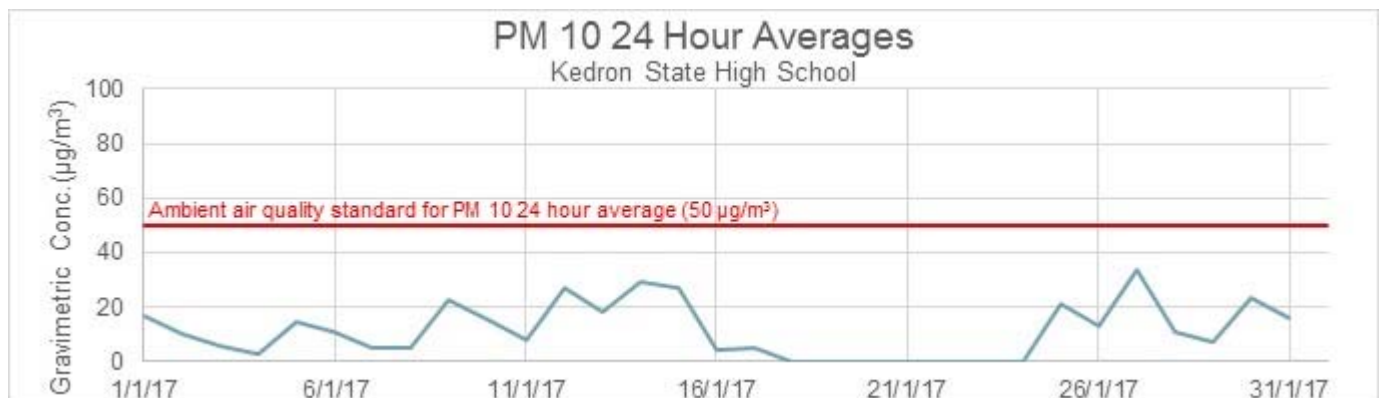


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary January 2017						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/01/2017	0.001	0.001	0.003	03:00	0	95.1
2/01/2017	0.001	0.001	0.007	21:00	0	95.1
3/01/2017	0.003	0.002	0.007	06:00	0	96.2
4/01/2017	0.002	0.002	0.003	06:00	0	93.4
5/01/2017	0.005	0.002	0.012	06:00	0	94.1
6/01/2017	0.004	0.002	0.008	06:00	0	94.8
7/01/2017	0.003	0.001	0.006	08:00	0	94.4
8/01/2017	0.004	0.001	0.012	23:00	0	94.1
9/01/2017	0.005	0.001	0.013	05:00	0	93.8
10/01/2017	0.003	0.001	0.008	05:00	0	94.1
11/01/2017	0.003	0.002	0.006	05:00	0	94.4
12/01/2017	0.005	0.002	0.010	23:00	0	92.4
13/01/2017	0.003	0.001	0.010	06:00	0	92.7
14/01/2017	0.002	0.001	0.004	05:00	0	93.4
15/01/2017	0.003	0.001	0.005	08:00	0	93.4
16/01/2017	0.004	0.002	0.011	05:00	0	93.8
17/01/2017	0.004	0.001	0.009	06:00	0	93.8
18/01/2017	0.004	0.000	0.006	23:00	0	93.1
¹ 19/01/2017	-	0.008	0.008	00:00	0	3.5
¹ 20/01/2017	-	-	-	-	0	0.0
¹ 21/01/2017	-	-	-	-	0	0.0
¹ 22/01/2017	-	-	-	-	0	0.0
¹ 23/01/2017	-	-	-	-	0	0.0
¹ 24/01/2017	-	0.005	0.007	23:00	0	25.0
25/01/2017	0.005	0.003	0.009	05:00	0	97.2
26/01/2017	0.003	0.002	0.005	05:00	0	97.2
27/01/2017	0.008	0.003	0.013	21:00	0	97.2
28/01/2017	0.005	0.002	0.013	00:00	0	97.2
29/01/2017	0.005	0.002	0.009	00:00	0	97.2
30/01/2017	0.004	0.002	0.009	06:00	0	97.2
31/01/2017	0.004	0.002	0.008	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

¹ Loss of data due to gas calibrator fault

Table 10 Station 2 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 2 KSHS Ambient AQMS Carbon Monoxide Summary January 2017								
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		
1/01/2017	0.1	0.1	0.2	15:00	0.2	00:00	0	96.9
2/01/2017	0.1	0.1	0.2	21:00	0.1	00:00	0	96.9
3/01/2017	0.1	0.1	0.1	06:00	0.1	00:00	0	96.9
4/01/2017	0.1	0.1	0.2	12:00	0.1	23:00	0	96.9
5/01/2017	0.1	0.0	0.1	12:00	0.1	00:00	0	96.9
6/01/2017	0.1	0.1	0.2	06:00	0.1	00:00	0	96.9
7/01/2017	0.1	0.1	0.1	06:00	0.1	00:00	0	96.9
8/01/2017	0.1	0.0	0.2	23:00	0.1	23:00	0	96.9
9/01/2017	0.1	0.1	0.1	00:00	0.1	19:00	0	96.9
10/01/2017	0.1	0.1	0.2	06:00	0.1	18:00	0	96.9
11/01/2017	0.1	0.1	0.1	13:00	0.1	00:00	0	96.9
12/01/2017	0.1	0.1	0.2	09:00	0.2	23:00	0	93.8
13/01/2017	0.1	0.1	0.2	06:00	0.2	00:00	0	96.9
14/01/2017	0.1	0.1	0.2	17:00	0.2	23:00	0	96.9
15/01/2017	0.2	0.1	0.2	14:00	0.2	17:00	0	96.9
16/01/2017	0.1	0.1	0.2	15:00	0.2	00:00	0	96.9
17/01/2017	0.1	0.1	0.2	06:00	0.1	10:00	0	96.9
18/01/2017	0.1	0.1	0.2	18:00	0.2	23:00	0	96.9
19/01/2017	0.1	0.1	0.2	00:00	0.2	00:00	0	95.5
20/01/2017	0.2	0.1	0.3	21:00	0.2	23:00	0	96.9
21/01/2017	0.2	0.1	0.3	00:00	0.3	03:00	0	93.8
22/01/2017	0.1	0.1	0.1	11:00	0.1	00:00	0	96.9
23/01/2017	0.1	0.0	0.2	06:00	0.1	08:00	0	96.9
24/01/2017	0.1	0.0	0.2	06:00	0.1	23:00	0	88.5
25/01/2017	0.1	0.0	0.1	06:00	0.1	00:00	0	96.9
26/01/2017	0.1	0.0	0.1	05:00	0.1	07:00	0	96.9
27/01/2017	0.1	0.1	0.2	23:00	0.2	23:00	0	96.9
28/01/2017	0.1	0.0	0.3	00:00	0.2	01:00	0	96.9
29/01/2017	0.1	0.0	0.2	06:00	0.1	10:00	0	96.9
30/01/2017	0.0	0.0	0.2	06:00	0.1	06:00	0	96.9
31/01/2017	0.1	0.0	0.2	6:00	0.1	7:00	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 January 2017						
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		
1/01/2017	7.5	1.6	21.2	18:00	0	100.0
2/01/2017	7.6	2.4	20.9	22:00	0	100.0
3/01/2017	4.4	0.4	10.9	00:00	0	100.0
4/01/2017	2.6	0.4	9.5	00:00	0	100.0
5/01/2017	4.5	0.4	9.5	22:00	0	100.0
6/01/2017	4.9	1.4	9.4	06:00	0	100.0
7/01/2017	2.5	0.4	6.2	00:00	0	100.0
8/01/2017	3.3	1.0	7.3	00:00	0	100.0
9/01/2017	9.6	3.5	18.6	22:00	0	100.0
10/01/2017	9.4	3.5	19.8	02:00	0	100.0
11/01/2017	6.3	0.9	24.2	23:00	0	100.0
12/01/2017	11.8	2.1	27.5	23:00	0	95.8
13/01/2017	9.9	0.6	29.8	00:00	0	100.0
14/01/2017	8.1	1.6	17.6	22:00	0	100.0
15/01/2017	13.8	4.4	27.1	12:00	0	100.0
16/01/2017	2.6	1.1	7.2	00:00	0	100.0
17/01/2017	4.9	0.7	15.1	08:00	0	100.0
18/01/2017	6.4	0.6	16.0	22:00	0	100.0
19/01/2017	8.4	0.5	21.4	08:00	0	100.0
20/01/2017	21.6	0.4	59.4	20:00	0	100.0
21/01/2017	11.9	0.9	71.3	00:00	0	100.0
22/01/2017	0.5	0.4	1.0	00:00	0	100.0
23/01/2017	3.0	0.3	8.4	12:00	0	100.0
24/01/2017	4.4	0.6	14.8	20:00	0	91.7
25/01/2017	7.4	2.1	16.1	04:00	0	100.0
26/01/2017	5.6	1.5	16.8	23:00	0	100.0
27/01/2017	10.0	2.4	28.9	00:00	0	100.0
28/01/2017	4.4	1.4	12.3	02:00	0	100.0
29/01/2017	3.4	1.2	8.2	23:00	0	100.0
30/01/2017	3.7	1.2	11.0	00:00	0	100.0
31/01/2017	3.8	0.9	9.7	18:00	0	100.0

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

Table 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary January 2017						
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		
1/01/2017	16.8	0.6	95.3	12:00	0	100.0
2/01/2017	10.0	0.5	71.1	22:00	0	100.0
3/01/2017	6.0	0.5	35.8	00:00	0	100.0
4/01/2017	2.9	0.5	15.5	23:00	0	100.0
5/01/2017	14.5	4.0	28.2	12:00	0	100.0
6/01/2017	11.1	2.0	26.7	02:00	0	100.0
7/01/2017	5.3	0.5	21.2	00:00	0	100.0
8/01/2017	5.3	0.5	15.4	23:00	0	100.0
9/01/2017	22.3	10.4	45.3	12:00	0	100.0
10/01/2017	15.1	0.7	43.5	02:00	0	100.0
11/01/2017	8.2	0.6	23.4	23:00	0	100.0
12/01/2017	27.0	6.3	53.7	06:00	0	95.8
13/01/2017	17.9	1.4	63.5	00:00	0	100.0
14/01/2017	29.3	3.0	156.6	12:00	0	100.0
15/01/2017	26.8	0.5	95.3	12:00	0	100.0
16/01/2017	4.1	0.5	11.9	00:00	0	100.0
17/01/2017	4.8	0.5	13.9	08:00	0	100.0
¹ 18/01/2017	-	0.5	3.9	02:00	0	54.2
¹ 19/01/2017	-	-	-	-	0	0.0
¹ 20/01/2017	-	-	-	-	0	0.0
¹ 21/01/2017	-	-	-	-	0	0.0
¹ 22/01/2017	-	-	-	-	0	0.0
¹ 23/01/2017	-	-	-	-	0	0.0
¹ 24/01/2017	-	1.6	36.6	22:00	0	25.0
25/01/2017	21.4	3.0	55.0	06:00	0	100.0
26/01/2017	12.9	1.2	60.1	23:00	0	100.0
27/01/2017	33.7	0.8	130.5	00:00	0	100.0
28/01/2017	11.3	0.5	64.6	00:00	0	100.0
29/01/2017	7.3	0.5	38.8	06:00	0	100.0
30/01/2017	23.6	0.5	86.9	06:00	0	100.0
31/01/2017	16.0	8.5	26.8	18:00	0	100.0

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

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

¹ Loss of data due to maintenance

Table 13 Station 2 PM₁₀ Monthly Summary

Station 3 (Lewis Street)

Summary

Station 3 Lewis St Ambient AQMS Summary January 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.014	27/01/2017 20:00	74.0
NO ₂	ppm	0.030	Annual	0.005	--	74.0
CO	ppm	8	8 Hours	0.4	19/01/2017 01:00	91.2
PM _{2.5}	µg/m3	25	24 Hours	11.2	20/01/2017	69.5
PM _{2.5}	µg/m3	8	Annual	3.6	--	69.5
PM ₁₀	µg/m3	50	24 Hours	18.0	12/01/2017	73.9
PM ₁₀	µg/m3	50	Annual	13.5	--	73.9

Table 14 Station 3 Monthly Summary

Graphical Representations



Figure 9 Station 3 Nitrogen Dioxide 1hr averages

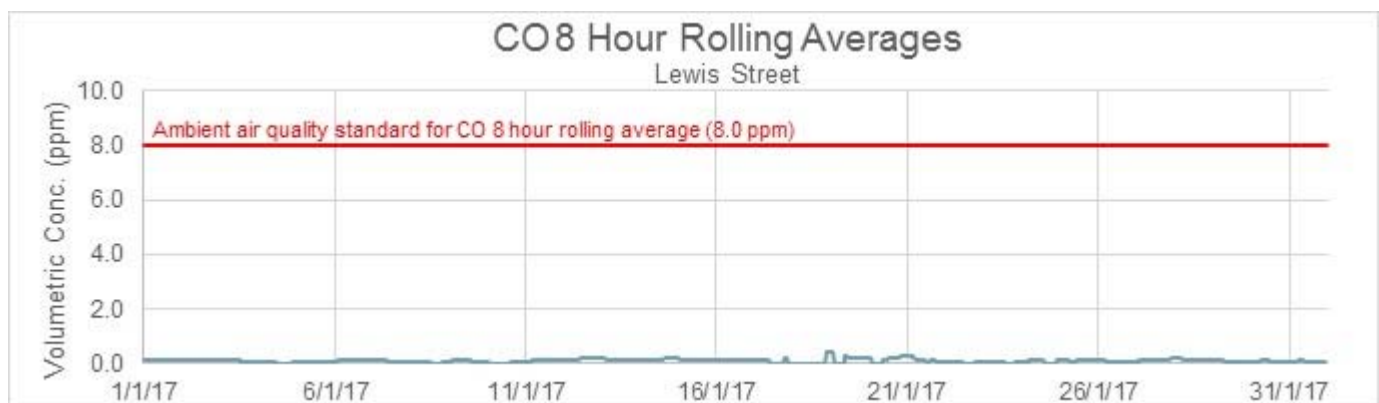


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

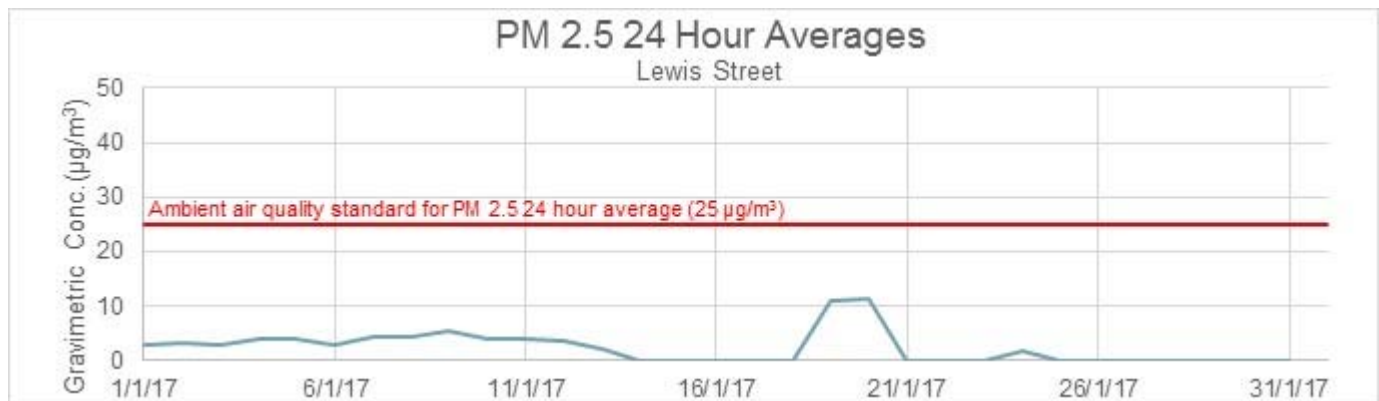


Figure 11 Station 3 PM2.5 24hr averages



Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary January 2017						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/01/2017	0.003	0.002	0.004	02:00	0	97.2
2/01/2017	0.002	0.002	0.005	21:00	0	97.2
3/01/2017	0.005	0.003	0.007	06:00	0	97.2
4/01/2017	0.004	0.003	0.005	06:00	0	97.2
5/01/2017	0.006	0.003	0.011	05:00	0	97.2
6/01/2017	0.006	0.004	0.009	07:00	0	97.2
7/01/2017	0.004	0.003	0.009	06:00	0	96.9
8/01/2017	0.006	0.003	0.013	21:00	0	97.2
9/01/2017	0.007	0.002	0.011	06:00	0	97.2
¹ 10/01/2017	-	0.003	0.004	10:00	0	70.1
11/01/2017	0.004	0.003	0.006	05:00	0	97.2
12/01/2017	0.007	0.003	0.012	23:00	0	94.4
13/01/2017	0.004	0.002	0.011	05:00	0	97.2
14/01/2017	0.003	0.002	0.004	21:00	0	97.2
15/01/2017	0.004	0.003	0.007	17:00	0	96.9
16/01/2017	0.006	0.004	0.010	07:00	0	96.9
² 17/01/2017	-	0.003	0.009	00:00	0	59.4
² 18/01/2017	-	-	-	-	0	0.0
² 19/01/2017	-	-	-	-	0	0.0
² 20/01/2017	-	-	-	-	0	0.0
² 21/01/2017	-	-	-	-	0	0.0
² 22/01/2017	-	-	-	-	0	0.0
² 23/01/2017	-	-	-	-	0	0.0
² 24/01/2017	-	0.007	0.009	21:00	0	29.5
25/01/2017	0.008	0.005	0.011	06:00	0	97.2
26/01/2017	0.004	0.003	0.006	02:00	0	97.2
27/01/2017	0.010	0.004	0.014	20:00	0	97.2
28/01/2017	0.007	0.004	0.012	00:00	0	97.2
29/01/2017	0.006	0.004	0.011	00:00	0	97.2
30/01/2017	0.005	0.004	0.010	06:00	0	97.2
31/01/2017	0.005	0.003	0.010	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

¹ Loss of data due to gas calibrator fault

² Loss of data due to instrument fault

Table 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary January 2017								
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		
1/01/2017	0.1	0.1	0.2	16:00	0.1	18:00	0	96.9
2/01/2017	0.1	0.1	0.2	21:00	0.1	23:00	0	96.9
3/01/2017	0.1	0.1	0.1	00:00	0.1	00:00	0	96.9
4/01/2017	0.0	0.0	0.1	00:00	0.1	00:00	0	96.9
5/01/2017	0.1	0.1	0.1	07:00	0.1	23:00	0	96.9
6/01/2017	0.1	0.1	0.1	12:00	0.1	07:00	0	96.9
7/01/2017	0.1	0.0	0.1	06:00	0.1	03:00	0	96.9
8/01/2017	0.0	0.0	0.1	22:00	0.1	01:00	0	96.5
9/01/2017	0.1	0.1	0.2	06:00	0.1	07:00	0	96.9
¹ 10/01/2017	-	0.1	0.1	15:00	0.1	01:00	0	69.8
11/01/2017	0.1	0.1	0.2	05:00	0.1	11:00	0	96.9
12/01/2017	0.2	0.1	0.2	13:00	0.2	17:00	0	93.8
13/01/2017	0.2	0.1	0.2	05:00	0.2	00:00	0	96.5
14/01/2017	0.2	0.1	0.2	11:00	0.2	18:00	0	96.9
15/01/2017	0.2	0.1	0.2	14:00	0.2	00:00	0	96.2
16/01/2017	0.1	0.1	0.2	06:00	0.2	00:00	0	96.5
² 17/01/2017	-	0.1	0.2	06:00	0.2	19:00	0	59.0
² 18/01/2017	-	0.4	0.5	23:00	0.4	23:00	0	33.7
19/01/2017	0.2	0.2	0.3	08:00	0.4	01:00	0	85.4
20/01/2017	0.2	0.1	0.3	21:00	0.3	23:00	0	86.1
21/01/2017	0.1	0.0	0.2	00:00	0.3	01:00	0	95.5
22/01/2017	0.0	0.0	0.1	22:00	0.1	23:00	0	95.5
23/01/2017	0.1	0.0	0.1	06:00	0.1	07:00	0	96.2
24/01/2017	0.1	0.0	0.2	06:00	0.1	07:00	0	81.6
25/01/2017	0.1	0.1	0.2	06:00	0.1	20:00	0	96.5
26/01/2017	0.1	0.0	0.1	22:00	0.1	00:00	0	96.5
27/01/2017	0.2	0.1	0.3	21:00	0.2	23:00	0	96.5
28/01/2017	0.1	0.1	0.3	00:00	0.2	01:00	0	96.5
29/01/2017	0.1	0.0	0.2	06:00	0.1	00:00	0	96.5
30/01/2017	0.1	0.0	0.2	06:00	0.1	06:00	0	96.5
31/01/2017	0.1	0.0	0.2	6:00	0.1	7:00	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 gas calibrator fault

¹ Loss of data due to maintenance

Table 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary January 2017						
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		
1/01/2017	2.8	-0.9	8.3	07:00	0	91.7
2/01/2017	3.3	-1.0	6.6	14:00	0	91.7
3/01/2017	2.8	0.0	10.4	22:00	0	79.2
4/01/2017	3.9	-0.8	6.9	21:00	0	100.0
5/01/2017	3.9	-0.4	8.8	06:00	0	91.7
6/01/2017	2.8	-1.0	12.6	18:00	0	87.5
7/01/2017	4.3	-1.0	8.8	06:00	0	100.0
8/01/2017	4.5	-0.2	9.6	21:00	0	95.8
9/01/2017	5.5	2.3	8.9	23:00	0	79.2
10/01/2017	4.1	-1.0	10.8	10:00	0	95.8
11/01/2017	4.0	0.0	11.5	04:00	0	91.7
12/01/2017	3.6	-0.8	10.6	16:00	0	91.7
13/01/2017	2.1	-1.0	5.8	15:00	0	91.7
¹ 14/01/2017	-	-1.0	8.8	19:00	0	50.0
¹ 15/01/2017	-	-0.9	4.9	14:00	0	70.8
¹ 16/01/2017	-	-0.8	4.7	17:00	0	58.3
¹ 17/01/2017	-	-0.9	5.0	18:00	0	50.0
¹ 18/01/2017	-	-0.3	18.4	19:00	0	33.3
19/01/2017	11.1	2.3	21.4	06:00	0	87.5
20/01/2017	11.2	1.3	30.0	21:00	0	79.2
¹ 21/01/2017	-	-0.4	6.1	23:00	0	8.3
¹ 22/01/2017	-	-1.0	12.0	22:00	0	50.0
¹ 23/01/2017	-	-1.0	8.2	06:00	0	66.7
24/01/2017	1.9	-0.9	7.8	08:00	0	75.0
¹ 25/01/2017	-	-1.0	3.9	11:00	0	41.7
¹ 26/01/2017	-	-1.0	2.9	09:00	0	45.8
¹ 27/01/2017	-	-1.0	6.8	11:00	0	45.8
¹ 28/01/2017	-	-1.0	2.9	07:00	0	66.7
¹ 29/01/2017	-	-1.0	3.0	01:00	0	33.3
¹ 30/01/2017	-	-1.0	5.6	02:00	0	41.7
¹ 31/01/2017	-	-1.0	4.0	11:00	0	62.5

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 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary January 2017						
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		
1/01/2017	13.0	2.2	37.6	10:00	0	91.7
2/01/2017	14.2	1.1	22.3	19:00	0	87.5
3/01/2017	7.4	1.1	16.0	17:00	0	87.5
4/01/2017	16.0	7.7	28.6	12:00	0	91.7
5/01/2017	13.4	7.1	23.1	10:00	0	95.8
6/01/2017	12.1	2.8	36.2	10:00	0	91.7
7/01/2017	13.4	2.7	19.9	18:00	0	95.8
8/01/2017	14.2	5.9	26.3	13:00	0	100.0
9/01/2017	14.8	6.5	27.0	09:00	0	100.0
10/01/2017	14.0	7.3	34.8	06:00	0	100.0
11/01/2017	15.4	8.7	24.5	11:00	0	91.7
12/01/2017	18.0	5.9	36.5	11:00	0	95.8
13/01/2017	15.1	4.4	30.0	15:00	0	79.2
14/01/2017	12.0	2.6	48.2	11:00	0	87.5
¹ 15/01/2017	-	3.6	11.5	05:00	0	20.8
16/01/2017	8.0	2.3	16.5	08:00	0	87.5
¹ 17/01/2017	-	5.0	14.4	06:00	0	62.5
¹ 18/01/2017	-	17.4	28.1	19:00	0	33.3
¹ 19/01/2017	-	23.6	37.6	07:00	0	62.5
¹ 20/01/2017	-	-	-	-	0	0.0
¹ 21/01/2017	-	-	-	-	0	0.0
¹ 22/01/2017	-	-	-	-	0	0.0
¹ 23/01/2017	-	-	-	-	0	0.0
¹ 24/01/2017	-	12.2	15.1	19:00	0	29.2
25/01/2017	15.9	11.8	24.2	10:00	0	100.0
26/01/2017	13.1	8.9	16.7	17:00	0	100.0
27/01/2017	12.9	8.1	18.1	13:00	0	100.0
28/01/2017	10.2	4.4	14.0	10:00	0	100.0
29/01/2017	10.2	7.5	15.0	06:00	0	100.0
30/01/2017	9.6	6.2	12.6	06:00	0	100.0
31/01/2017	14.8	7.1	25.0	11:00	0	100.0

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

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

¹ Loss of data due to instrument fault

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary January 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.025	19/01/2017 10:00	96.5
NO ₂	ppm	0.030	Annual	0.007	--	96.5
CO	ppm	8	8 Hours	0.3	21/01/2017 18:00	96.1
PM _{2.5}	µg/m ³	25	24 Hours	16.8	20/01/2017	97.0
PM _{2.5}	µg/m ³	8	Annual	7.7	--	97.0
PM ₁₀	µg/m ³	50	24 Hours	29.3	19/01/2017	76.1
PM ₁₀	µg/m ³	50	Annual	14.6	--	76.1

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 January 2017						
Date	24hr Avg (ppm)	1 hr Aves		Time of Max	Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)			
1/01/2017	0.003	0.001	0.006	02:00	0	97.2
2/01/2017	0.003	0.001	0.005	23:00	0	97.2
3/01/2017	0.006	0.003	0.010	06:00	0	97.2
4/01/2017	0.007	0.003	0.013	15:00	0	97.2
5/01/2017	0.009	0.003	0.013	17:00	0	97.2
6/01/2017	0.008	0.003	0.012	08:00	0	97.2
7/01/2017	0.006	0.003	0.010	08:00	0	97.2
8/01/2017	0.007	0.004	0.014	23:00	0	97.2
9/01/2017	0.008	0.004	0.013	08:00	0	97.2
10/01/2017	0.005	0.003	0.008	05:00	0	97.2
11/01/2017	0.007	0.004	0.009	07:00	0	76.7
12/01/2017	0.008	0.003	0.014	08:00	0	94.8
13/01/2017	0.006	0.003	0.017	06:00	0	97.2
14/01/2017	0.004	0.003	0.005	05:00	0	97.2
15/01/2017	0.006	0.003	0.012	10:00	0	97.2
16/01/2017	0.008	0.005	0.015	08:00	0	97.2
17/01/2017	0.008	0.004	0.013	07:00	0	97.2
18/01/2017	0.007	0.004	0.010	22:00	0	97.2
19/01/2017	0.014	0.004	0.025	10:00	0	97.2
20/01/2017	0.008	0.005	0.012	21:00	0	97.2
21/01/2017	0.009	0.004	0.015	00:00	0	97.2
22/01/2017	0.007	0.004	0.012	20:00	0	97.2
23/01/2017	0.012	0.006	0.020	08:00	0	97.2
24/01/2017	0.009	0.006	0.015	06:00	0	97.2
25/01/2017	0.009	0.005	0.014	04:00	0	97.2
26/01/2017	0.005	0.003	0.009	02:00	0	97.2
27/01/2017	0.011	0.004	0.016	09:00	0	97.2
28/01/2017	0.007	0.004	0.013	00:00	0	97.2
29/01/2017	0.007	0.004	0.010	00:00	0	97.2
30/01/2017	0.006	0.003	0.010	06:00	0	97.2
31/01/2017	0.006	0.004	0.009	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 20 Station 4 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Carbon Monoxide Summary January 2017								
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		
1/01/2017	0.1	0.0	0.1	00:00	0.1	00:00	0	96.9
2/01/2017	0.1	0.0	0.1	23:00	0.1	23:00	0	96.9
3/01/2017	0.1	0.1	0.2	06:00	0.2	17:00	0	96.9
4/01/2017	0.1	0.1	0.2	17:00	0.2	19:00	0	96.9
5/01/2017	0.2	0.1	0.3	17:00	0.2	21:00	0	96.9
6/01/2017	0.2	0.1	0.4	20:00	0.3	20:00	0	96.9
7/01/2017	0.2	0.1	0.2	17:00	0.2	00:00	0	96.9
8/01/2017	0.1	0.0	0.2	23:00	0.1	00:00	0	96.9
9/01/2017	0.1	0.0	0.1	08:00	0.1	01:00	0	96.9
10/01/2017	0.1	0.1	0.2	06:00	0.1	12:00	0	96.9
11/01/2017	0.1	0.1	0.2	07:00	0.2	12:00	0	76.4
12/01/2017	0.2	0.1	0.3	08:00	0.2	14:00	0	94.4
13/01/2017	0.2	0.1	0.4	06:00	0.2	12:00	0	96.9
14/01/2017	0.2	0.2	0.2	11:00	0.2	12:00	0	96.9
15/01/2017	0.3	0.2	0.4	14:00	0.3	14:00	0	96.9
16/01/2017	0.2	0.2	0.3	08:00	0.2	12:00	0	96.9
17/01/2017	0.2	0.1	0.3	07:00	0.2	09:00	0	96.9
18/01/2017	0.1	0.1	0.2	21:00	0.2	00:00	0	96.9
19/01/2017	0.3	0.2	0.4	08:00	0.3	18:00	0	96.9
20/01/2017	0.2	0.1	0.3	20:00	0.3	00:00	0	96.9
21/01/2017	0.3	0.2	0.4	12:00	0.3	18:00	0	96.9
22/01/2017	0.2	0.1	0.3	20:00	0.2	00:00	0	96.9
23/01/2017	0.1	0.1	0.2	07:00	0.2	01:00	0	96.9
24/01/2017	0.1	0.1	0.2	07:00	0.1	07:00	0	96.9
25/01/2017	0.1	0.0	0.1	05:00	0.1	12:00	0	96.9
26/01/2017	0.1	0.1	0.2	22:00	0.1	16:00	0	96.9
27/01/2017	0.2	0.1	0.3	19:00	0.3	23:00	0	96.9
28/01/2017	0.2	0.2	0.3	00:00	0.3	01:00	0	96.9
29/01/2017	0.1	0.1	0.2	00:00	0.2	01:00	0	96.9
30/01/2017	0.1	0.1	0.3	06:00	0.2	08:00	0	96.9
31/01/2017	0.1	0.1	0.2	23:00	0.1	23:00	0	96.9

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

Table 21 Station 4 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM _{2.5} Summary January 2017						
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		
1/01/2017	2.7	-0.9	5.9	09:00	0	91.7
2/01/2017	3.3	-1.0	8.6	17:00	0	75.0
3/01/2017	3.4	-0.4	6.3	23:00	0	100.0
4/01/2017	6.5	1.0	16.4	06:00	0	100.0
5/01/2017	6.1	1.0	14.3	07:00	0	91.7
6/01/2017	4.4	1.0	8.6	21:00	0	100.0
7/01/2017	5.4	0.0	15.0	09:00	0	87.5
8/01/2017	4.4	1.0	8.8	19:00	0	95.8
9/01/2017	4.7	-0.7	10.6	11:00	0	100.0
10/01/2017	5.7	-0.5	10.6	11:00	0	100.0
11/01/2017	5.3	1.2	9.8	11:00	0	100.0
12/01/2017	7.0	1.4	12.0	15:00	0	95.8
13/01/2017	7.8	2.1	16.5	06:00	0	100.0
14/01/2017	5.1	1.0	10.9	13:00	0	87.5
15/01/2017	7.9	2.3	19.5	10:00	0	87.5
16/01/2017	7.2	0.3	15.9	10:00	0	100.0
17/01/2017	8.0	0.6	16.3	08:00	0	100.0
18/01/2017	6.8	0.2	12.7	23:00	0	100.0
19/01/2017	15.0	6.0	26.4	09:00	0	100.0
20/01/2017	16.8	6.0	34.1	21:00	0	100.0
21/01/2017	15.0	7.1	29.7	02:00	0	100.0
22/01/2017	9.9	6.0	17.3	08:00	0	100.0
23/01/2017	10.6	3.1	20.2	09:00	0	100.0
24/01/2017	9.8	3.0	20.8	08:00	0	100.0
25/01/2017	9.3	2.0	16.7	07:00	0	100.0
26/01/2017	9.3	0.1	17.2	07:00	0	95.8
27/01/2017	9.2	2.2	16.3	14:00	0	100.0
28/01/2017	9.0	2.4	17.0	01:00	0	100.0
29/01/2017	5.2	1.2	19.6	08:00	0	100.0
30/01/2017	7.1	2.1	16.2	06:00	0	100.0
31/01/2017	7.2	-0.8	17.5	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 22 Station 4 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary January 2017						
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 1/01/2017	-	-	-	-	0	0.0
¹ 2/01/2017	-	-	-	-	0	0.0
¹ 3/01/2017	-	4.3	14.7	17:00	0	62.5
4/01/2017	16.2	10.3	20.4	13:00	0	100.0
5/01/2017	13.8	9.1	18.4	08:00	0	100.0
6/01/2017	11.6	7.0	15.9	17:00	0	100.0
7/01/2017	13.3	3.9	18.4	12:00	0	95.8
8/01/2017	14.0	7.5	23.1	13:00	0	91.7
¹ 9/01/2017	-	11.8	29.6	08:00	0	54.2
¹ 10/01/2017	-	-	-	-	0	0.0
11/01/2017	13.6	10.1	20.3	12:00	0	83.3
¹ 12/01/2017	-	-	-	-	0	0.0
¹ 13/01/2017	-	4.4	10.8	19:00	0	54.2
14/01/2017	11.4	5.0	18.2	20:00	0	100.0
15/01/2017	11.4	6.4	17.8	11:00	0	100.0
16/01/2017	10.2	5.5	14.1	08:00	0	100.0
17/01/2017	10.3	6.4	15.6	07:00	0	100.0
18/01/2017	13.9	8.1	30.0	21:00	0	91.7
19/01/2017	29.3	15.5	36.3	08:00	0	100.0
¹ 20/01/2017	-	19.1	47.5	20:00	0	70.8
21/01/2017	21.9	7.8	48.4	13:00	0	100.0
22/01/2017	18.9	13.2	24.1	17:00	0	100.0
23/01/2017	15.0	9.8	21.3	11:00	0	100.0
24/01/2017	12.8	9.4	16.3	17:00	0	100.0
25/01/2017	15.4	11.4	24.3	11:00	0	100.0
26/01/2017	12.6	7.6	16.3	13:00	0	91.7
¹ 27/01/2017	-	-	-	-	0	0.0
¹ 28/01/2017	-	9.8	15.0	12:00	0	62.5
29/01/2017	10.8	8.3	13.6	17:00	0	100.0
30/01/2017	11.7	3.4	46.4	10:00	0	100.0
31/01/2017	11.4	5.3	19.1	23:00	0	100.0

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

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

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 January 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.019	24/01/2017 06:00	96.2
NO ₂	ppm	0.030	Annual	0.004	--	96.2
CO	ppm	8	8 Hours	0.4	21/01/2017 03:00	95.7
PM _{2.5}	µg/m3	25	24 Hours	10.2	20/01/2017	95.6
PM _{2.5}	µg/m3	8	Annual	4.8	--	95.6
PM ₁₀	µg/m3	50	24 Hours	28.5	19/01/2017	99.2
PM ₁₀	µg/m3	50	Annual	12.5	--	99.2

Table 24 Station 5 Monthly Summary

Graphical Representations

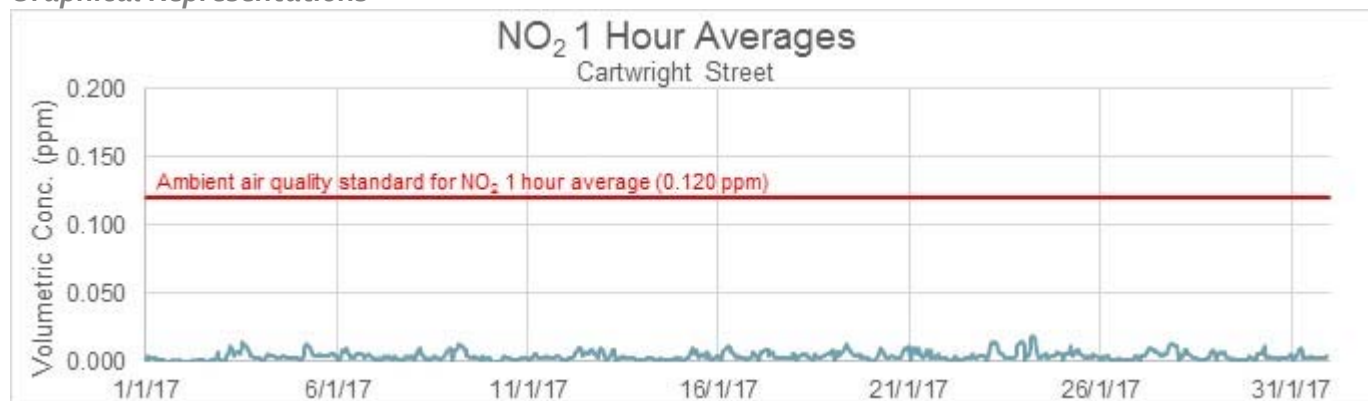


Figure 17 Station 5 Dioxide 1hr averages



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 January 2017						
Date	24hr Avg (ppm)	1 hr Aves			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/01/2017	0.001	0.000	0.003	02:00	0	97.2
2/01/2017	0.001	0.000	0.007	21:00	0	97.2
3/01/2017	0.006	0.001	0.014	13:00	0	97.2
4/01/2017	0.003	0.001	0.006	05:00	0	97.2
5/01/2017	0.006	0.002	0.014	05:00	0	97.2
6/01/2017	0.005	0.002	0.010	06:00	0	97.2
7/01/2017	0.003	0.001	0.004	12:00	0	97.2
8/01/2017	0.004	0.001	0.011	04:00	0	97.2
9/01/2017	0.006	0.001	0.012	05:00	0	97.2
¹ 10/01/2017	-	0.002	0.004	10:00	0	69.8
11/01/2017	0.003	0.001	0.006	05:00	0	97.2
12/01/2017	0.006	0.001	0.010	22:00	0	97.2
13/01/2017	0.003	0.001	0.009	05:00	0	94.4
14/01/2017	0.002	0.001	0.003	04:00	0	97.2
15/01/2017	0.004	0.002	0.009	08:00	0	97.2
16/01/2017	0.005	0.001	0.011	06:00	0	97.2
17/01/2017	0.005	0.002	0.009	06:00	0	97.2
18/01/2017	0.004	0.002	0.008	23:00	0	97.2
19/01/2017	0.006	0.002	0.013	08:00	0	97.2
20/01/2017	0.005	0.001	0.011	23:00	0	97.2
21/01/2017	0.006	0.002	0.012	00:00	0	97.2
22/01/2017	0.003	0.001	0.006	16:00	0	97.2
23/01/2017	0.008	0.002	0.015	06:00	0	97.2
24/01/2017	0.007	0.002	0.019	06:00	0	97.2
25/01/2017	0.005	0.003	0.011	05:00	0	97.2
26/01/2017	0.002	0.001	0.005	22:00	0	97.2
27/01/2017	0.007	0.002	0.014	22:00	0	97.2
28/01/2017	0.004	0.001	0.012	00:00	0	97.2
29/01/2017	0.003	0.001	0.008	06:00	0	97.2
30/01/2017	0.004	0.002	0.012	07:00	0	97.2
31/01/2017	0.004	0.002	0.010	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

¹ Loss of data due to gas calibrator fault

Table 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary January 2017								
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		
1/01/2017	0.2	0.2	0.3	17:00	0.3	21:00	0	96.5
2/01/2017	0.2	0.2	0.2	21:00	0.2	00:00	0	96.5
3/01/2017	0.2	0.1	0.2	06:00	0.2	13:00	0	96.5
4/01/2017	0.1	0.1	0.2	22:00	0.2	00:00	0	96.5
5/01/2017	0.2	0.2	0.3	21:00	0.2	23:00	0	96.5
6/01/2017	0.2	0.1	0.3	06:00	0.2	00:00	0	96.5
7/01/2017	0.1	0.1	0.2	02:00	0.2	02:00	0	97.2
8/01/2017	0.2	0.1	0.2	23:00	0.2	07:00	0	96.5
9/01/2017	0.2	0.1	0.2	07:00	0.2	12:00	0	96.5
¹ 10/01/2017	-	0.2	0.2	17:00	0.2	23:00	0	69.1
11/01/2017	0.2	0.2	0.2	23:00	0.2	19:00	0	96.5
12/01/2017	0.2	0.2	0.2	08:00	0.2	00:00	0	96.5
13/01/2017	0.2	0.2	0.3	06:00	0.2	23:00	0	93.8
14/01/2017	0.3	0.3	0.3	23:00	0.3	23:00	0	96.5
15/01/2017	0.3	0.2	0.3	17:00	0.3	00:00	0	96.5
16/01/2017	0.2	0.2	0.5	06:00	0.3	07:00	0	96.5
17/01/2017	0.3	0.2	0.4	06:00	0.3	09:00	0	96.9
18/01/2017	0.2	0.2	0.3	23:00	0.3	23:00	0	96.9
19/01/2017	0.2	0.2	0.4	11:00	0.3	11:00	0	96.5
20/01/2017	0.3	0.2	0.4	23:00	0.3	23:00	0	96.9
21/01/2017	0.3	0.2	0.4	02:00	0.4	03:00	0	96.5
22/01/2017	0.2	0.1	0.2	00:00	0.2	00:00	0	96.9
23/01/2017	0.1	0.1	0.2	06:00	0.2	08:00	0	96.5
24/01/2017	0.2	0.1	0.3	06:00	0.2	07:00	0	96.9
25/01/2017	0.2	0.2	0.2	06:00	0.2	12:00	0	96.9
26/01/2017	0.2	0.1	0.2	14:00	0.2	06:00	0	96.5
27/01/2017	0.2	0.2	0.3	23:00	0.3	23:00	0	96.5
28/01/2017	0.2	0.2	0.4	00:00	0.3	01:00	0	96.9
29/01/2017	0.2	0.2	0.3	06:00	0.2	07:00	0	96.9
30/01/2017	0.2	0.1	0.4	06:00	0.2	07:00	0	96.9
31/01/2017	0.2	0.1	0.3	6:00	0.2	7:00	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 gas calibrator

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM2.5 Summary January 2017						
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		
1/01/2017	4.1	-1.0	14.6	09:00	0	91.7
2/01/2017	2.9	-1.0	8.8	04:00	0	91.7
3/01/2017	4.1	0.1	8.0	22:00	0	95.8
4/01/2017	5.1	0.3	10.8	18:00	0	100.0
5/01/2017	5.8	0.5	10.8	04:00	0	100.0
6/01/2017	4.4	0.1	8.8	13:00	0	100.0
7/01/2017	4.7	-0.8	9.8	19:00	0	95.8
8/01/2017	4.2	-0.3	8.8	05:00	0	100.0
9/01/2017	5.7	0.6	13.0	06:00	0	100.0
10/01/2017	5.2	-1.0	15.1	12:00	0	100.0
11/01/2017	4.7	0.3	8.7	13:00	0	100.0
12/01/2017	4.3	0.0	9.8	18:00	0	91.7
13/01/2017	4.8	0.0	9.7	12:00	0	87.5
14/01/2017	1.9	-1.0	5.7	08:00	0	75.0
15/01/2017	3.8	-1.0	9.7	11:00	0	87.5
16/01/2017	3.3	0.1	7.0	18:00	0	100.0
17/01/2017	3.1	-0.8	7.8	11:00	0	95.8
18/01/2017	4.1	0.1	8.0	22:00	0	100.0
19/01/2017	8.0	2.3	12.7	07:00	0	100.0
20/01/2017	10.2	1.3	20.6	21:00	0	100.0
21/01/2017	9.0	-1.0	19.8	03:00	0	95.8
22/01/2017	5.2	1.3	9.8	03:00	0	100.0
23/01/2017	5.7	1.4	11.5	10:00	0	87.5
24/01/2017	6.2	-0.8	15.3	07:00	0	91.7
25/01/2017	4.3	0.0	10.6	19:00	0	100.0
26/01/2017	4.1	-0.8	13.5	20:00	0	91.7
27/01/2017	4.4	0.2	11.6	12:00	0	100.0
28/01/2017	4.9	1.0	11.8	09:00	0	100.0
29/01/2017	4.0	-0.8	8.8	09:00	0	100.0
30/01/2017	3.1	-1.0	10.6	09:00	0	83.3
31/01/2017	3.0	-0.5	6.9	18:00	0	100.0

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

Table 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM10 Summary January 2017						
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		
1/01/2017	8.7	1.1	22.0	21:00	0	100.0
2/01/2017	11.3	0.0	17.9	09:00	0	95.8
3/01/2017	6.9	-0.7	18.4	16:00	0	100.0
4/01/2017	13.1	7.3	22.0	19:00	0	100.0
5/01/2017	9.4	1.4	17.8	05:00	0	100.0
6/01/2017	9.1	1.6	15.5	07:00	0	100.0
7/01/2017	8.5	-0.8	17.0	19:00	0	100.0
8/01/2017	13.4	2.9	19.6	08:00	0	100.0
9/01/2017	12.1	3.2	22.0	12:00	0	100.0
10/01/2017	13.3	8.0	22.9	15:00	0	100.0
11/01/2017	11.9	3.0	27.0	15:00	0	100.0
12/01/2017	15.0	3.2	35.7	13:00	0	100.0
13/01/2017	10.2	4.1	20.5	02:00	0	95.8
14/01/2017	8.0	1.3	20.6	19:00	0	100.0
15/01/2017	7.4	-0.5	15.2	01:00	0	100.0
16/01/2017	8.7	-1.0	16.4	09:00	0	100.0
17/01/2017	10.5	2.3	21.7	10:00	0	100.0
18/01/2017	14.2	4.5	31.6	15:00	0	100.0
19/01/2017	28.5	16.5	37.0	21:00	0	100.0
20/01/2017	27.1	15.5	41.0	21:00	0	100.0
21/01/2017	19.7	2.0	48.4	14:00	0	91.7
22/01/2017	19.0	9.7	27.4	14:00	0	100.0
23/01/2017	13.7	6.3	21.9	12:00	0	100.0
24/01/2017	12.3	1.5	24.4	15:00	0	95.8
25/01/2017	14.7	6.1	27.3	15:00	0	100.0
26/01/2017	12.8	7.3	39.3	20:00	0	100.0
27/01/2017	7.9	-0.3	16.8	11:00	0	100.0
28/01/2017	9.0	2.4	17.7	19:00	0	100.0
29/01/2017	8.2	1.5	18.5	07:00	0	100.0
30/01/2017	8.2	3.0	21.5	08:00	0	100.0
31/01/2017	14.6	4.0	68.1	13:00	0	95.8

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

Table 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 µg/m³ was not exceeded during the reporting period at any of the five sites.

TSP Results January 2017					
Sample Date	Station 1 AHS (µg/m ³)	Station 2 KSHS (µg/m ³)	Station 3 LS (µg/m ³)	Station 4 ALOC (µg/m ³)	Station 5 CS (µg/m ³)
01/01/2017	15	16	15	12	16
07/01/2017	16	16	16	20	15
13/01/2017	18	14	15	20	19
19/01/2017	51	44	45	54	44
25/01/2017	27	27	25	28	30
31/01/2017	25	37	22	23	39
Monthly Average	25.3	25.7	23.0	26.2	27.2
Annual Average	25.3	25.7	23.0	26.2	27.2

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
1/01/2017	31/01/2017 10:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	16/02/2017	CP
1/01/2017 05:10:00	31/01/2017 23:55:00	PM _{2.5}	Intermittent instrument faults – error code logged	16/02/2017	CP
2/01/2017 01:25:00	2/01/2017 03:30:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
3/01/2017 01:25:00	3/01/2017 05:55:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
4/01/2017 01:25:00	4/01/2017 05:25:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
4/01/2017 10:35:00		All parameters	Intermittent communication error	16/02/2017	CP
5/01/2017 01:25:00	5/01/2017 05:45:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
6/01/2017 01:25:00	6/01/2017 02:45:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
9/01/2017 01:25:00	9/01/2017 05:30:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
12/01/2017 11:50:00	12/01/2017 13:05:00	All parameters	Maintenance	16/02/2017	CP
12/01/2017 23:40:00	13/01/2017 09:20:00	PM ₁₀	Instrument fault	16/02/2017	CP
13/01/2017 09:25:00	13/01/2017 10:25:00	PM ₁₀	Maintenance	16/02/2017	CP
31/01/2017 01:00:00	31/01/2017 01:00:00	All parameters	Power interruption	16/02/2017	CP
31/01/2017 01:05:00	31/01/2017 01:35:00	PM ₁₀	Instrument warm-up after power interruption	16/02/2017	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
1/01/2017 00:40:00	24/01/2017 15:05:00	NO, NO ₂ , NO _x	Intermittent communication errors	16/02/2017	CP
12/01/2017 14:50:00	12/01/2017 15:30:00	All parameters	Maintenance	16/02/2017	CP
18/01/2017 13:25:00	24/01/2017 15:55:00	PM ₁₀	Instrument fault – filter tape not moving due to slippage on spool	16/02/2017	CP
19/01/2017 01:40:00	24/01/2017 15:55:00	NO, NO ₂ , NO _x	Instrument fault	16/02/2017	CP
20/01/2017 00:10:00	23/01/2017 02:50:00	PM _{2.5}	Intermittent noisy data	16/02/2017	CP
24/01/2017 16:00:00	24/01/2017 17:55:00	All parameters	Maintenance	16/02/2017	CP
29/01/2017 01:40:00	15/02/2017 15:30:00	NO, NO ₂ , NO _x	Data adjusted. Multiplier A: 1.0, multiplier B: 1.086486	16/02/2017	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
1/01/2017 02:00:00	31/01/2017 23:55:00	PM ₁₀ , PM _{2.5}	Intermittent unrealistic data less than -1.0 µg/m ³	16/02/2017	CP
1/01/2017 06:20:00	31/01/2017 14:20:00	PM _{2.5}	Intermittent instrument faults – error code logged	16/02/2017	CP
10/01/2017 01:45:00	10/01/2017 08:05:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
12/01/2017 14:05:00	12/01/2017 14:40:00	All parameters	Maintenance	16/02/2017	CP
15/01/2017 06:15:00	16/01/2017 03:15:00	PM ₁₀	Noisy data	16/02/2017	CP
17/01/2017 08:45:00	17/01/2017 12:55:00	All parameters	Maintenance	16/02/2017	CP
17/01/2017 19:30:00	18/01/2017 15:50:00	All parameters	Maintenance	16/02/2017	CP
18/01/2017 15:55:00	24/01/2017 13:25:00	NO, NO ₂ , NO _x	Instrument fault	16/02/2017	CP
19/01/2017 18:45:00	24/01/2017 13:25:00	PM ₁₀	Noisy data	16/02/2017	CP
20/01/2017 21:55:00	21/01/2017 21:50:00	PM _{2.5}	Instrument fault	16/02/2017	CP
24/01/2017 13:30:00	24/01/2017 16:50:00	All parameters	Maintenance	16/02/2017	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
1/01/2017	3/01/2017 09:10:00	PM ₁₀	Noisy data	16/02/2017	CP
1/01/2017 01:05:00	31/01/2017 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	16/02/2017	CP
1/01/2017 05:55:00	26/01/2017 04:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	16/02/2017	CP
8/01/2017 08:35:00	8/01/2017 09:35:00	PM ₁₀	Noisy data	16/02/2017	CP
9/01/2017 13:00:00	11/01/2017 01:30:00	PM ₁₀	Noisy data	16/02/2017	CP
11/01/2017 01:45:00	11/01/2017 06:30:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
11/01/2017 22:30:00	13/01/2017 10:00:00	PM ₁₀	Noisy data	16/02/2017	CP
12/01/2017 11:00:00	12/01/2017 11:30:00	All parameters	Maintenance	16/02/2017	CP
13/01/2017 10:05:00	13/01/2017 10:35:00	PM ₁₀	Maintenance	16/02/2017	CP
18/01/2017 15:00:00	18/01/2017 16:45:00	PM ₁₀	Noisy data	16/02/2017	CP
19/01/2017 01:40:00	16/02/2017 10:55:00	NO, NO ₂ , NO _x	Data adjusted. Multiplier A: 1.0, multiplier B: 1.090164	16/02/2017	CP
20/01/2017 12:45:00	20/01/2017 19:35:00	PM ₁₀	Noisy data	16/02/2017	CP
26/01/2017 22:25:00	28/01/2017 09:10:00	PM ₁₀	Noisy data	16/02/2017	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
1/01/2017 01:05:00	31/01/2017 22:50:00	PM ₁₀	Intermittent instrument faults – error code logged	16/02/2017	CP
1/01/2017 14:55:00	30/01/2017 15:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	16/02/2017	CP
10/01/2017 01:40:00	10/01/2017 08:10:00	NO, NO ₂ , NO _x , CO	Calibrator fault – stuck in calibration mode	16/02/2017	CP
13/01/2017 08:00:00	13/01/2017 08:35:00	All parameters	Maintenance	16/02/2017	CP

Table 34 Station 5 Cartwright St AQMS Data Validation Table