



Ventia Pty Ltd

AirportlinkM7 Ambient Air Quality Monitoring Report

February 2017

Ref: DR.1702APL512.1

Issue Date: 20 March 2017

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ENVIRONMENTAL MONITORING TECHNOLOGIES

Document Control

Revision	Date	Details	Prepared By	Approved By
0	17/03/2017	Original	CP	BN
1	20/03/2017	Added timestamp to CO 8 hour maximum	CP	BN

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20 March 2017

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20 March 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 was one reading over the relevant Air Quality Standards during the reporting period. It should be noted that the yearly averages are cumulative from the 1st of January and are an indication only until the December report.

AirportlinkM7 AQMS Exceedance Reporting February 2017							
Pollutant	Averaging period	Maximum Allowed Concentration	Number of Exceedances February 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	1	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

- 201702 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	17/02/2017	15/02/2017	16/02/2017	16/02/2017	16/02/2017
CO	ppm	2.56%	AS 3580.7.1	17/02/2017	15/02/2017	15/02/2017	16/02/2017	16/02/2017
PM ₁₀	µg/m ³	3.21 µg/m ³	AS 3580.9.11	16/02/2017*	16/02/2017	15/02/2017*	16/02/2017*	16/02/2017
PM _{2.5}	µg/m ³	3.21 µg/m ³	AS 3580.9.11 / EQPM 0308- 170	16/02/2017	16/02/2017	15/02/2017	16/02/2017	16/02/2017
TSP	µg/m ³	7.34%	AS 3580.9.3	16/02/2017	15/02/2017	15/02/2017	16/02/2017	16/02/2017

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.

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 February 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.018	16/02/2017 08:00	94.6
NO ₂	ppm	0.030	12 Months	0.002	--	95.7
CO	ppm	8	8 Hours	0.2	13/02/2017 13:00	94.1
PM _{2.5}	µg/m3	25	24 Hours	12.8	13/02/2017	76.5
PM _{2.5}	µg/m3	8	12 Months	4.3	--	85.1
PM ₁₀	µg/m3	50	24 Hours	31.1	13/02/2017	98.5
PM ₁₀	µg/m3	50	12 Months	15.8	--	97.1

Table 4 Station 1 Monthly Summary

Graphical Representations

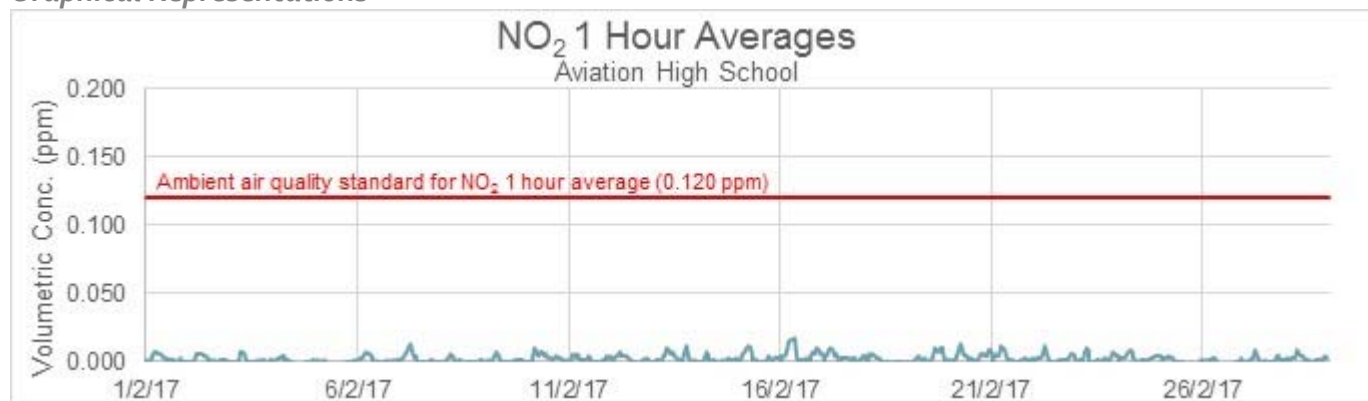


Figure 1 Station 1 Nitrogen Dioxide 1hr averages

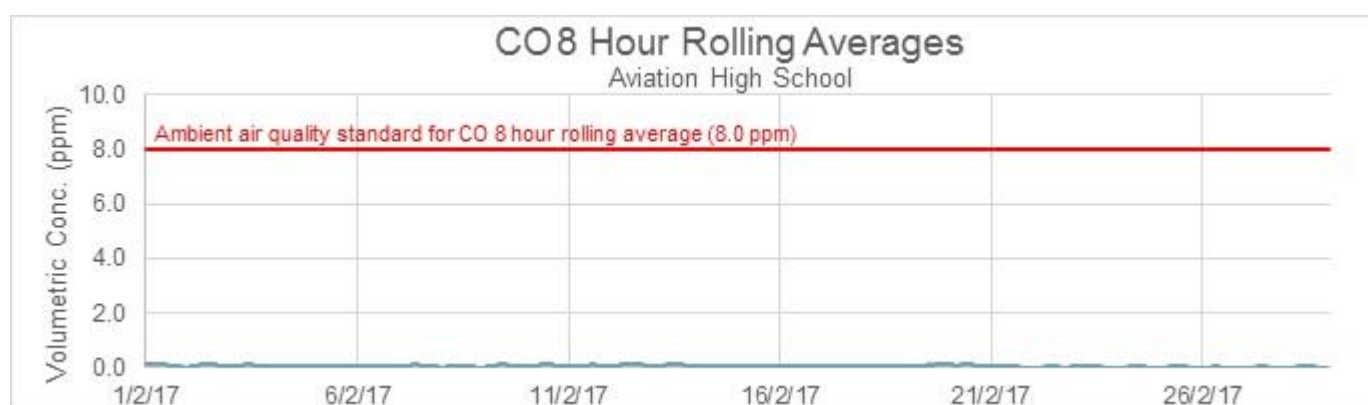


Figure 2 Station 1 Carbon Monoxide 8hr rolling averages

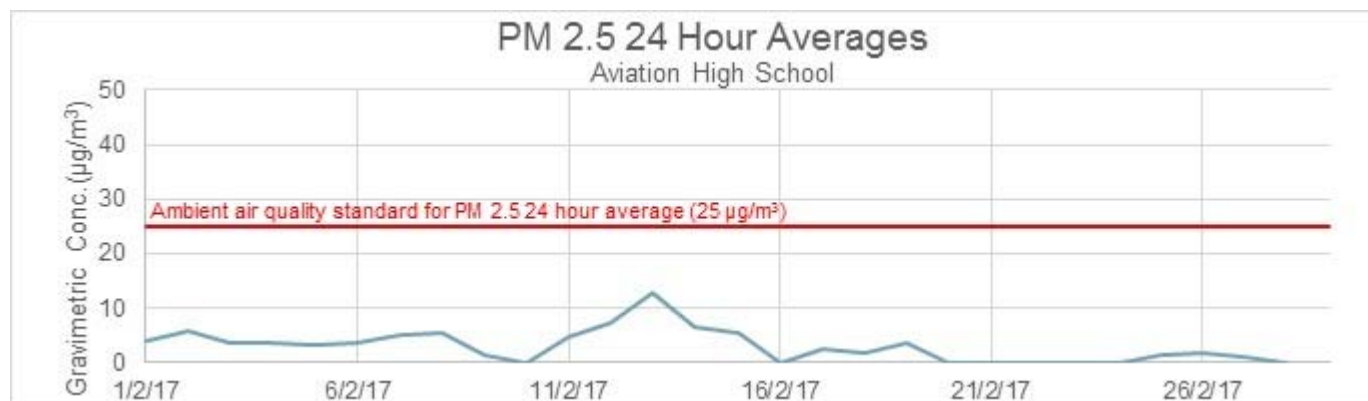


Figure 3 Station 1 PM2.5 24hr averages



Figure 4 Station 1 PM10 24hr averages

Nitrogen Dioxide Summary

Station 1 Aviation High School Ambient AQMS Nitrogen Dioxide Summary February 2017						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/02/2017	-0.001	-0.001	0.008	06:00	0	89.2
2/02/2017	0.001	-0.001	0.006	05:00	0	79.2
3/02/2017	0.000	-0.001	0.008	07:00	0	80.9
4/02/2017	0.002	-0.002	0.004	05:00	0	78.5
5/02/2017	0.002	-0.002	0.001	02:00	0	89.9
6/02/2017	0.000	0.000	0.007	05:00	0	96.2
7/02/2017	0.001	0.000	0.013	06:00	0	95.5
8/02/2017	0.002	-0.001	0.006	05:00	0	80.2
9/02/2017	0.002	0.000	0.007	07:00	0	98.6
10/02/2017	0.002	-0.001	0.011	05:00	0	99.3
11/02/2017	0.004	0.000	0.006	05:00	0	94.1
12/02/2017	0.001	-0.001	0.007	05:00	0	97.2
13/02/2017	0.000	0.000	0.012	19:00	0	100.0
14/02/2017	0.001	0.000	0.007	06:00	0	100.0
15/02/2017	0.002	0.000	0.011	06:00	0	97.2
16/02/2017	0.003	0.001	0.018	08:00	0	97.2
17/02/2017	0.003	0.000	0.011	05:00	0	97.2
18/02/2017	0.003	-0.001	0.006	05:00	0	97.2
19/02/2017	0.003	-0.001	0.010	20:00	0	97.2
20/02/2017	0.002	0.001	0.014	07:00	0	97.2
21/02/2017	0.000	0.000	0.012	06:00	0	97.2
22/02/2017	0.006	0.000	0.012	07:00	0	97.2
23/02/2017	0.005	0.000	0.010	06:00	0	97.2
24/02/2017	0.004	0.000	0.009	07:00	0	97.2
25/02/2017	0.000	-0.002	0.004	05:00	0	97.2
26/02/2017	0.005	-0.002	0.003	06:00	0	97.2
27/02/2017	0.002	-0.001	0.009	06:00	0	97.2
28/02/2017	0.001	0.000	0.009	06:00	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

Carbon Monoxide Summary

Station 1 Aviation High School Ambient AQMS Carbon Monoxide Summary February 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		
1/02/2017	0.0	0.0	0.3	00:00	0.1	01:00	0	88.9
2/02/2017	0.1	0.0	0.2	08:00	0.2	12:00	0	78.5
3/02/2017	0.0	0.0	0.2	08:00	0.1	11:00	0	80.2
4/02/2017	0.1	0.0	0.1	06:00	0.1	12:00	0	78.1
5/02/2017	0.1	0.0	0.1	02:00	0.1	07:00	0	89.2
6/02/2017	0.0	0.0	0.1	05:00	0.1	08:00	0	95.8
7/02/2017	0.0	0.0	0.3	06:00	0.1	08:00	0	94.8
8/02/2017	0.1	0.0	0.1	10:00	0.1	11:00	0	79.5
9/02/2017	0.1	0.0	0.2	07:00	0.1	08:00	0	97.9
10/02/2017	0.1	0.0	0.2	08:00	0.1	12:00	0	98.6
11/02/2017	0.1	0.0	0.1	11:00	0.1	14:00	0	93.1
12/02/2017	0.1	0.1	0.2	10:00	0.1	12:00	0	96.5
13/02/2017	0.1	0.0	0.2	09:00	0.2	13:00	0	99.3
14/02/2017	0.1	0.0	0.1	06:00	0.1	08:00	0	99.7
15/02/2017	0.1	0.0	0.1	07:00	0.1	08:00	0	96.5
16/02/2017	0.1	0.0	0.2	08:00	0.1	08:00	0	96.9
17/02/2017	0.1	0.0	0.1	08:00	0.1	12:00	0	96.9
18/02/2017	0.1	0.0	0.1	05:00	0.1	12:00	0	96.5
19/02/2017	0.1	0.0	0.2	19:00	0.1	21:00	0	96.9
20/02/2017	0.1	0.0	0.2	07:00	0.1	12:00	0	96.9
21/02/2017	0.0	0.0	0.1	07:00	0.1	09:00	0	96.9
22/02/2017	0.1	0.0	0.1	07:00	0.1	09:00	0	96.9
23/02/2017	0.1	0.0	0.1	06:00	0.0	07:00	0	96.9
24/02/2017	0.1	0.0	0.1	07:00	0.1	09:00	0	96.9
25/02/2017	0.1	0.0	0.1	02:00	0.0	07:00	0	96.9
26/02/2017	0.1	0.0	0.0	04:00	0.0	07:00	0	96.9
27/02/2017	0.1	0.0	0.1	06:00	0.0	08:00	0	96.9
28/02/2017	0.1	0.0	0.1	06:00	0.1	10:00	0	96.9

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

Table 6 Station 1 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 1 Aviation High School Ambient AQMS Particulate PM2.5 Summary February 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		
1/02/2017	3.9	0.1	9.0	07:00	0	100.0
2/02/2017	5.8	0.4	17.0	10:00	0	95.8
3/02/2017	3.8	-0.8	6.8	07:00	0	100.0
4/02/2017	3.8	0.0	7.0	01:00	0	91.7
5/02/2017	3.1	-1.0	6.8	04:00	0	83.3
6/02/2017	3.6	-0.8	9.8	21:00	0	91.7
7/02/2017	5.1	1.6	10.8	06:00	0	100.0
8/02/2017	5.4	1.0	22.7	12:00	0	95.8
9/02/2017	1.6	-1.0	4.0	06:00	0	91.7
¹ 10/02/2017	-	-0.9	5.7	18:00	0	62.5
11/02/2017	4.9	2.0	10.6	21:00	0	100.0
12/02/2017	7.4	4.0	12.0	21:00	0	87.5
13/02/2017	12.8	-0.8	27.8	05:00	0	100.0
14/02/2017	6.7	2.8	14.5	13:00	0	95.8
15/02/2017	5.6	2.0	10.7	06:00	0	95.8
² 16/02/2017	-	-0.7	9.8	12:00	0	62.5
17/02/2017	2.4	0.0	5.9	07:00	0	91.7
18/02/2017	1.9	-1.0	4.8	17:00	0	95.8
19/02/2017	3.5	-0.5	19.0	23:00	0	95.8
¹ 20/02/2017	-	2.3	6.9	09:00	0	37.5
¹ 21/02/2017	-	-	-	-	0	0.0
¹ 22/02/2017	-	-	-	-	0	0.0
¹ 23/02/2017	-	-	-	-	0	0.0
¹ 24/02/2017	-	-0.7	7.5	11:00	0	50.0
25/02/2017	1.5	-1.0	4.8	08:00	0	87.5
26/02/2017	1.8	-1.0	5.8	14:00	0	87.5
27/02/2017	1.2	-1.0	4.8	00:00	0	91.7
¹ 28/02/2017	-	-1.0	3.6	21:00	0	50.0

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

¹ Loss of data due to maintenance

Table 7 Station 1 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 1 Aviation High School Ambient AQMS Particulate PM10 Summary February 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		
1/02/2017	17.7	11.9	26.7	16:00	0	100.0
2/02/2017	21.9	13.7	38.8	11:00	0	100.0
3/02/2017	15.2	10.7	19.2	00:00	0	100.0
4/02/2017	13.3	9.1	21.9	18:00	0	100.0
5/02/2017	12.2	5.4	15.8	19:00	0	100.0
6/02/2017	18.8	10.9	24.8	20:00	0	100.0
7/02/2017	20.0	14.9	31.4	14:00	0	100.0
8/02/2017	20.3	10.3	38.8	11:00	0	100.0
9/02/2017	12.3	5.7	18.5	18:00	0	95.8
10/02/2017	15.3	3.6	26.9	16:00	0	100.0
11/02/2017	18.7	5.7	36.9	15:00	0	100.0
12/02/2017	24.5	14.8	35.0	21:00	0	100.0
13/02/2017	31.1	11.9	45.1	11:00	0	95.8
14/02/2017	21.2	13.3	28.7	16:00	0	100.0
15/02/2017	17.2	8.7	22.7	13:00	0	100.0
16/02/2017	16.0	10.6	23.3	14:00	0	91.7
17/02/2017	14.3	10.5	21.7	14:00	0	91.7
18/02/2017	15.1	6.1	25.1	15:00	0	100.0
19/02/2017	12.4	3.7	31.5	16:00	0	91.7
20/02/2017	15.7	3.9	37.7	18:00	0	91.7
21/02/2017	17.5	8.7	31.3	15:00	0	100.0
22/02/2017	21.3	15.4	32.1	15:00	0	100.0
23/02/2017	19.2	13.4	29.6	17:00	0	100.0
24/02/2017	18.2	12.0	27.0	17:00	0	100.0
25/02/2017	14.1	8.0	24.1	14:00	0	100.0
26/02/2017	14.2	5.6	25.9	15:00	0	100.0
27/02/2017	10.5	2.8	19.8	07:00	0	100.0
28/02/2017	11.1	3.3	25.5	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

Table 8 Station 1 PM₁₀ Monthly Summary

Station 2 (Kedron State High School)

Summary

Station 2 Kedron State High School Ambient AQMS Summary February 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.021	21/02/2017 06:00	77.5
NO ₂	ppm	0.030	12 Months	0.004	--	86.6
CO	ppm	8	8 Hours	0.2	13/02/2017 12:00	96.4
PM _{2.5}	µg/m3	25	24 Hours	20.2	13/02/2017	93.6
PM _{2.5}	µg/m3	8	12 Months	7.0	--	96.8
PM ₁₀	µg/m3	50	24 Hours	41.4	13/02/2017	93.6
PM ₁₀	µg/m3	50	12 Months	16.5	--	86.4

Table 9 Station 2 Monthly Summary

Graphical Representations

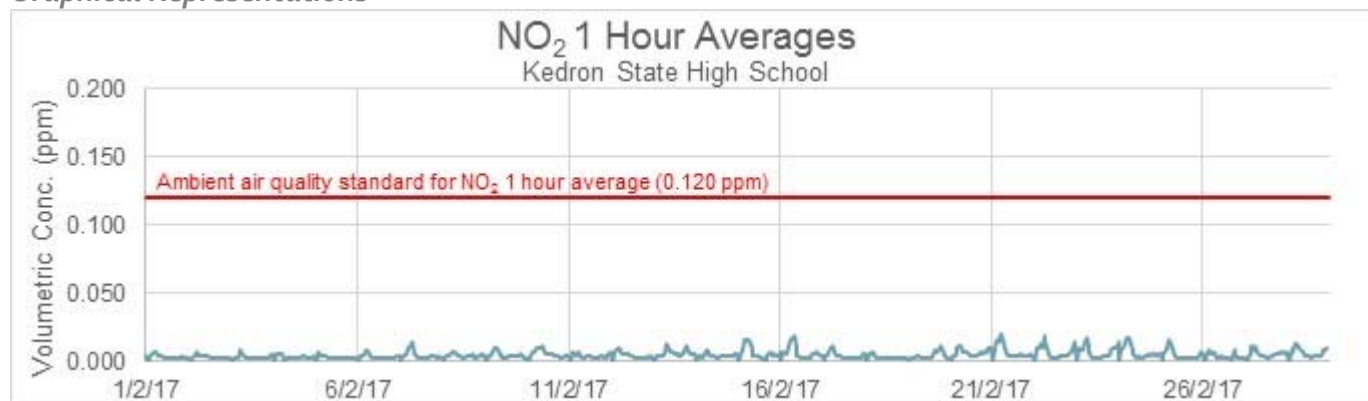


Figure 5 Station 2 Dioxide 1hr averages

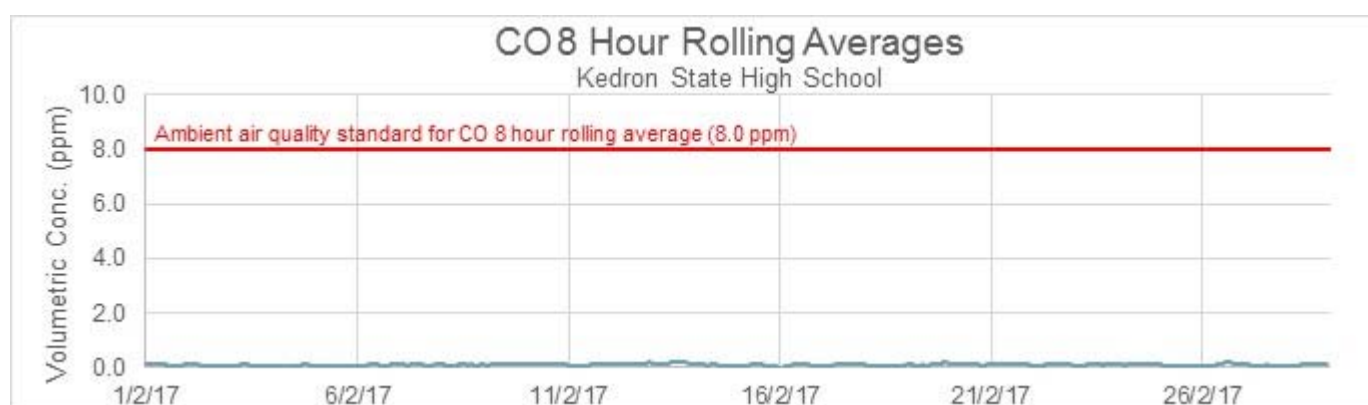


Figure 6 Station 2 Carbon Monoxide 8hr rolling averages

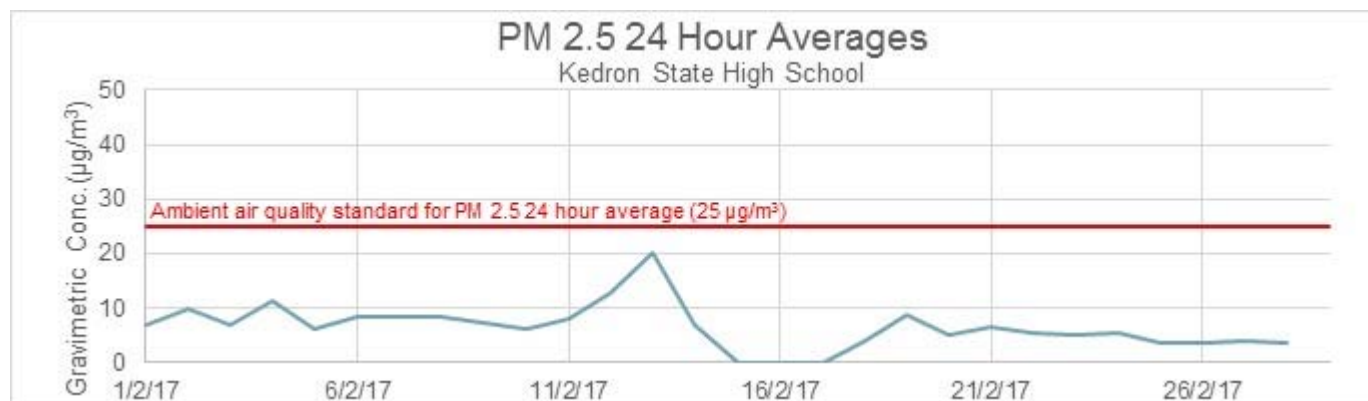


Figure 7 Station 2 PM2.5 24hr averages

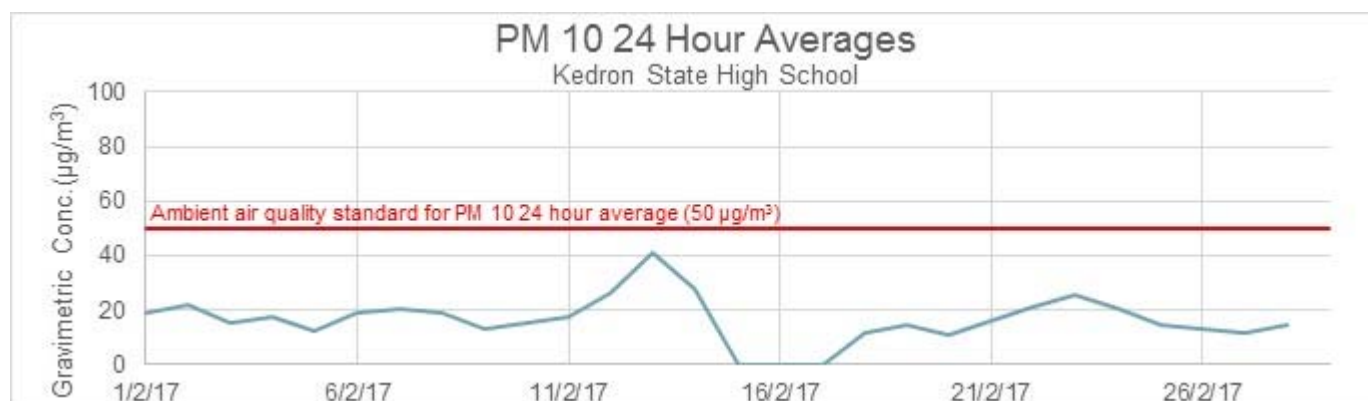


Figure 8 Station 2 PM10 24hr averages

Nitrogen Dioxide Summary

Station 2 KSHS Ambient AQMS Nitrogen Dioxide Summary February 2017						
Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/02/2017	0.001	0.002	0.007	06:00	0	95.1
2/02/2017	0.003	0.002	0.007	05:00	0	96.2
3/02/2017	0.002	0.002	0.008	06:00	0	93.4
4/02/2017	0.005	0.002	0.006	02:00	0	94.1
5/02/2017	0.004	0.002	0.007	02:00	0	94.8
6/02/2017	0.003	0.002	0.009	05:00	0	94.4
7/02/2017	0.004	0.003	0.015	07:00	0	94.1
8/02/2017	0.005	0.003	0.008	06:00	0	93.8
9/02/2017	0.003	0.003	0.010	06:00	0	94.1
10/02/2017	0.003	0.003	0.011	09:00	0	94.4
11/02/2017	0.005	0.003	0.007	02:00	0	92.4
12/02/2017	0.003	0.003	0.010	04:00	0	92.7
13/02/2017	0.002	0.003	0.013	08:00	0	93.4
14/02/2017	0.003	0.003	0.008	06:00	0	93.4
15/02/2017	0.004	0.003	0.016	06:00	0	93.8
16/02/2017	0.004	0.003	0.018	08:00	0	93.8
17/02/2017	0.004	0.002	0.011	06:00	0	93.1
¹ 18/02/2017	-	0.002	0.006	05:00	0	3.5
¹ 19/02/2017	-	0.003	0.011	19:00	0	0.0
¹ 20/02/2017	-	0.003	0.012	07:00	0	0.0
¹ 21/02/2017	-	0.004	0.021	06:00	0	0.0
¹ 22/02/2017	-	0.003	0.019	06:00	0	0.0
¹ 23/02/2017	-	0.003	0.017	06:00	0	25.0
24/02/2017	0.005	0.003	0.018	05:00	0	97.2
25/02/2017	0.003	0.002	0.016	05:00	0	97.2
26/02/2017	0.008	0.002	0.009	04:00	0	97.2
27/02/2017	0.005	0.003	0.011	04:00	0	97.2
28/02/2017	0.005	0.003	0.013	05:00	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 February 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		
1/02/2017	0.1	0.0	0.3	00:00	0.2	06:00	0	96.9
2/02/2017	0.1	0.1	0.1	00:00	0.1	01:00	0	96.9
3/02/2017	0.1	0.0	0.1	06:00	0.1	08:00	0	96.9
4/02/2017	0.1	0.0	0.2	17:00	0.1	19:00	0	96.9
5/02/2017	0.1	0.0	0.1	02:00	0.1	07:00	0	96.9
6/02/2017	0.1	0.1	0.2	05:00	0.1	08:00	0	96.9
7/02/2017	0.1	0.1	0.3	07:00	0.1	07:00	0	96.9
8/02/2017	0.1	0.1	0.1	10:00	0.1	00:00	0	96.9
9/02/2017	0.1	0.1	0.2	06:00	0.1	12:00	0	96.9
10/02/2017	0.1	0.1	0.2	06:00	0.1	11:00	0	96.9
11/02/2017	0.1	0.1	0.2	16:00	0.1	19:00	0	93.8
12/02/2017	0.1	0.1	0.2	17:00	0.2	22:00	0	96.9
13/02/2017	0.1	0.1	0.2	08:00	0.2	12:00	0	96.9
14/02/2017	0.2	0.1	0.1	06:00	0.2	00:00	0	96.9
15/02/2017	0.1	0.0	0.2	06:00	0.1	11:00	0	96.9
16/02/2017	0.1	0.0	0.3	07:00	0.2	13:00	0	96.9
17/02/2017	0.1	0.0	0.2	06:00	0.1	10:00	0	96.9
18/02/2017	0.1	0.1	0.1	00:00	0.1	00:00	0	95.5
19/02/2017	0.2	0.1	0.2	16:00	0.2	21:00	0	96.9
20/02/2017	0.2	0.1	0.2	07:00	0.2	00:00	0	93.8
21/02/2017	0.1	0.1	0.2	06:00	0.2	08:00	0	96.9
22/02/2017	0.1	0.1	0.2	06:00	0.1	13:00	0	96.9
23/02/2017	0.1	0.1	0.2	06:00	0.1	22:00	0	88.5
24/02/2017	0.1	0.1	0.2	06:00	0.1	12:00	0	96.9
25/02/2017	0.1	0.1	0.1	17:00	0.1	00:00	0	96.9
26/02/2017	0.1	0.1	0.2	09:00	0.2	16:00	0	96.9
27/02/2017	0.1	0.1	0.1	07:00	0.1	00:00	0	96.9
28/02/2017	0.1	0.1	0.2	21:00	0.2	22:00	0	96.9

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

Table 11 Station 2 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 2 KSHS Ambient AQMS Particulate PM _{2.5} Summary February 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		
1/02/2017	7.1	1.7	17.3	23:00	0	100.0
2/02/2017	9.7	3.3	19.1	00:00	0	100.0
3/02/2017	6.9	1.8	17.9	02:00	0	100.0
4/02/2017	11.3	3.1	34.2	20:00	0	95.8
5/02/2017	6.3	0.9	15.1	00:00	0	100.0
6/02/2017	8.4	3.0	25.1	22:00	0	100.0
7/02/2017	8.3	1.7	17.9	08:00	0	100.0
8/02/2017	8.3	2.5	16.2	00:00	0	100.0
9/02/2017	7.1	0.9	18.2	00:00	0	100.0
10/02/2017	6.2	2.4	12.4	18:00	0	100.0
11/02/2017	8.0	1.7	19.4	20:00	0	100.0
12/02/2017	12.9	5.9	31.9	16:00	0	100.0
13/02/2017	20.2	6.3	35.0	06:00	0	100.0
14/02/2017	7.0	1.7	18.2	00:00	0	100.0
¹ 15/02/2017	-	4.3	13.2	02:00	0	62.5
¹ 16/02/2017	-	-	-	-	0	0.0
¹ 17/02/2017	-	2.3	7.0	20:00	0	62.5
18/02/2017	3.9	1.6	10.0	23:00	0	100.0
19/02/2017	8.7	1.7	23.2	20:00	0	100.0
20/02/2017	4.9	1.0	11.2	23:00	0	100.0
21/02/2017	6.5	2.0	11.5	10:00	0	100.0
22/02/2017	5.5	1.4	11.6	10:00	0	100.0
23/02/2017	5.0	2.1	8.7	20:00	0	100.0
24/02/2017	5.6	1.7	8.1	04:00	0	100.0
25/02/2017	3.8	1.8	9.3	04:00	0	100.0
26/02/2017	3.6	1.5	6.3	00:00	0	100.0
27/02/2017	4.1	1.5	11.7	08:00	0	100.0
28/02/2017	3.7	1.6	12.4	20:00	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 12 Station 2 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 2 KSHS Ambient AQMS Particulate PM10 Summary February 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		
1/02/2017	19.3	7.0	33.3	18:00	0	100.0
2/02/2017	21.7	9.6	37.5	22:00	0	100.0
3/02/2017	15.6	6.1	31.4	02:00	0	100.0
4/02/2017	17.4	4.3	47.2	20:00	0	95.8
5/02/2017	12.4	1.5	27.9	06:00	0	100.0
6/02/2017	18.8	11.0	30.3	22:00	0	100.0
7/02/2017	20.4	5.2	36.3	06:00	0	100.0
8/02/2017	19.3	12.4	27.2	12:00	0	100.0
9/02/2017	13.3	2.0	26.8	00:00	0	100.0
10/02/2017	15.2	6.0	25.5	16:00	0	100.0
11/02/2017	17.6	5.8	28.0	20:00	0	100.0
12/02/2017	26.2	8.6	54.1	16:00	0	100.0
13/02/2017	41.4	11.1	91.2	22:00	0	100.0
14/02/2017	27.6	14.3	46.7	00:00	0	100.0
¹ 15/02/2017	-	14.5	30.2	08:00	0	62.5
¹ 16/02/2017	-	-	-	-	0	0.0
¹ 17/02/2017	-	0.6	19.2	13:00	0	62.5
18/02/2017	12.0	5.9	22.7	23:00	0	100.0
19/02/2017	14.5	2.7	24.9	22:00	0	100.0
20/02/2017	10.9	2.7	27.6	22:00	0	100.0
21/02/2017	16.3	9.4	23.0	08:00	0	100.0
22/02/2017	21.4	14.8	28.4	16:00	0	100.0
23/02/2017	25.5	16.1	34.8	23:00	0	100.0
24/02/2017	20.6	13.0	38.2	00:00	0	100.0
25/02/2017	14.5	8.0	23.2	08:00	0	100.0
26/02/2017	13.0	4.1	20.2	20:00	0	100.0
27/02/2017	11.3	5.3	21.3	08:00	0	100.0
28/02/2017	14.5	1.8	52.3	16:00	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 February 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.018	21/02/2017 05:00	70.9
NO ₂	ppm	0.030	12 Months	0.006	--	53.2
CO	ppm	8	8 Hours	0.2	19/02/2017 23:00	91.2
PM _{2.5}	µg/m3	25	24 Hours	17.2	13/02/2017	79.5
PM _{2.5}	µg/m3	8	12 Months	5.1	--	74.2
PM ₁₀	µg/m3	50	24 Hours	39.3	13/02/2017	84.2
PM ₁₀	µg/m3	50	12 Months	15.9	--	78.8

Table 14 Station 3 Monthly Summary

Graphical Representations

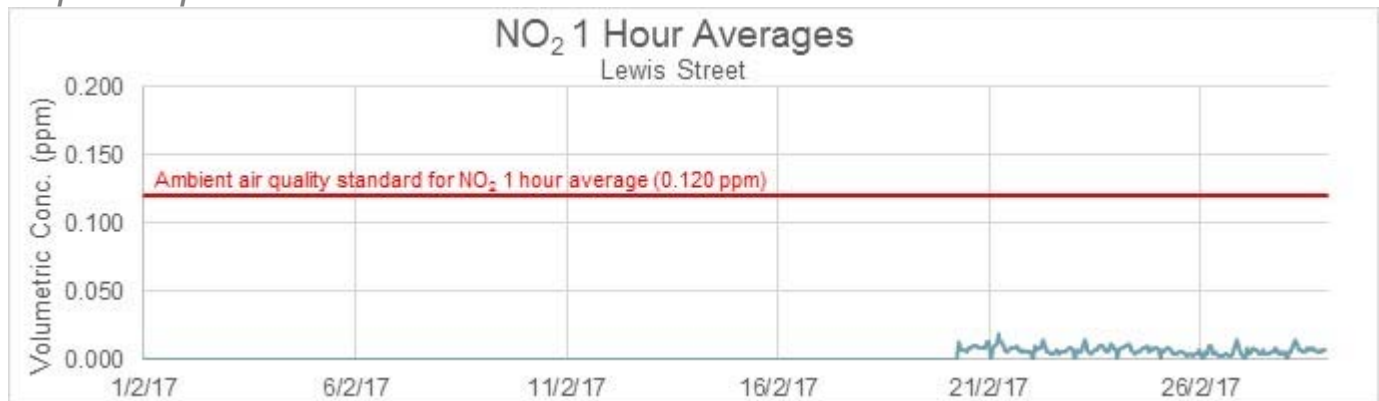


Figure 9 Station 3 Nitrogen Dioxide 1hr averages

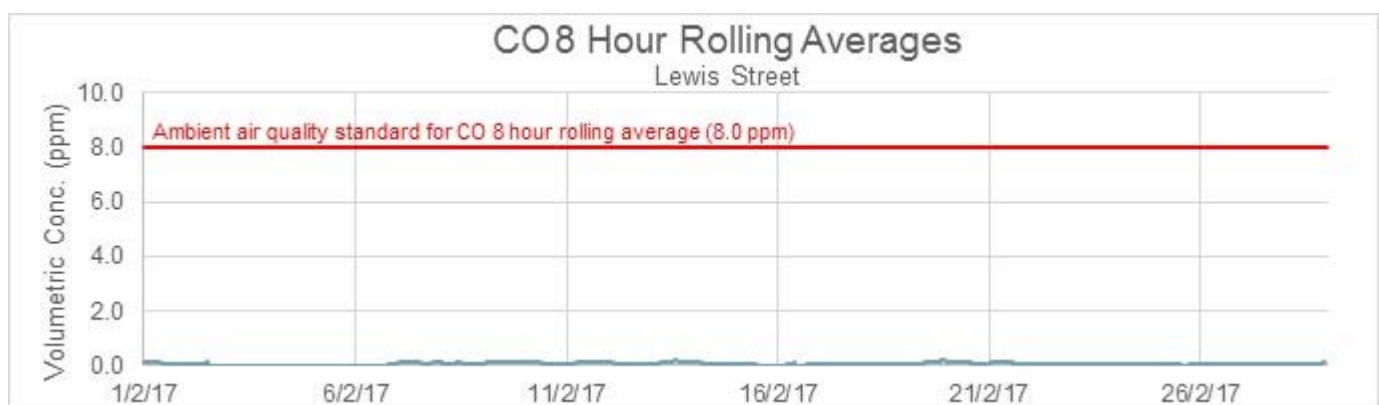


Figure 10 Station 3 Carbon Monoxide 8hr rolling averages

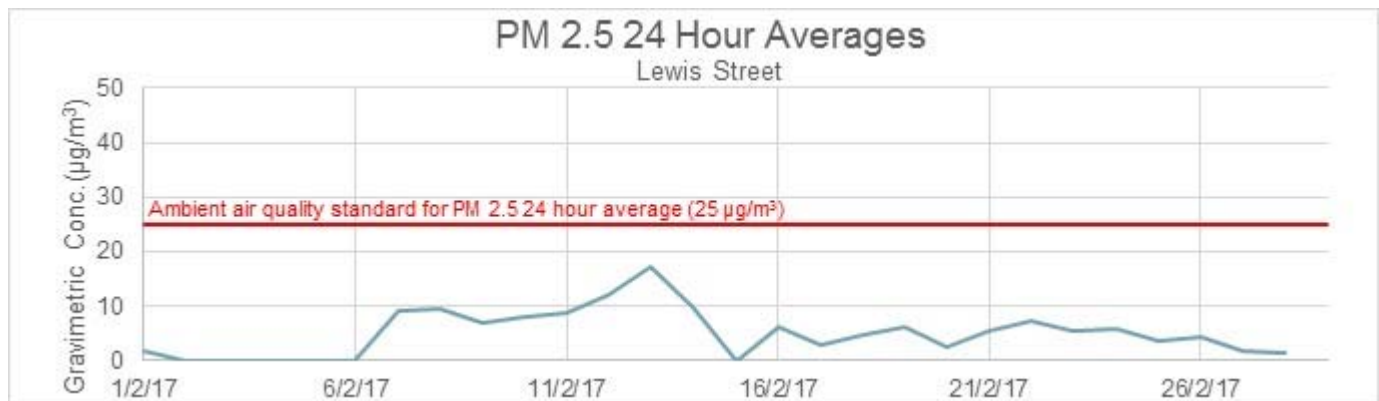


Figure 11 Station 3 PM2.5 24hr averages



Figure 12 Station 3 PM10 24hr averages

Nitrogen Dioxide Summary

Station 3 Lewis St Ambient AQMS Nitrogen Dioxide Summary February 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		
1/02/2017	0.002	-	-	-	0	97.2
2/02/2017	0.005	-	-	-	0	97.2
3/02/2017	0.004	-	-	-	0	97.2
4/02/2017	0.006	-	-	-	0	97.2
5/02/2017	0.006	-	-	-	0	97.2
6/02/2017	0.004	-	-	-	0	96.9
7/02/2017	0.006	-	-	-	0	97.2
8/02/2017	0.007	-	-	-	0	97.2
¹ 9/02/2017	-	-	-	-	0	70.1
10/02/2017	0.004	-	-	-	0	97.2
11/02/2017	0.007	-	-	-	0	94.4
12/02/2017	0.004	-	-	-	0	97.2
13/02/2017	0.003	-	-	-	0	97.2
14/02/2017	0.004	-	-	-	0	96.9
15/02/2017	0.006	-	-	-	0	96.9
¹ 16/02/2017	-	-	-	-	0	59.4
¹ 17/02/2017	-	-	-	-	0	0.0
¹ 18/02/2017	-	-	-	-	0	0.0
¹ 19/02/2017	-	-	-	-	0	0.0
¹ 20/02/2017	-	0.005	0.013	07:00	0	0.0
¹ 21/02/2017	-	0.005	0.018	05:00	0	0.0
¹ 22/02/2017	-	0.004	0.014	06:00	0	0.0
¹ 23/02/2017	-	0.005	0.014	06:00	0	29.5
24/02/2017	0.008	0.005	0.012	07:00	0	97.2
25/02/2017	0.004	0.003	0.009	06:00	0	97.2
26/02/2017	0.010	0.003	0.015	21:00	0	97.2
27/02/2017	0.007	0.003	0.008	06:00	0	97.2
28/02/2017	0.006	0.005	0.015	06:00	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 instrument fault

Table 15 Station 3 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 3 Lewis St Ambient AQMS Carbon Monoxide Summary February 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		
1/02/2017	0.1	0.0	0.3	00:00	0.1	06:00	0	96.9
2/02/2017	0.1	0.1	0.1	06:00	0.1	12:00	0	96.9
3/02/2017	0.0	0.1	0.1	14:00	-	-	0	96.9
4/02/2017	0.1	0.1	0.1	19:00	-	-	0	96.9
5/02/2017	0.1	-	-	-	-	-	0	96.9
6/02/2017	0.1	0.1	0.1	22:00	0.1	23:00	0	96.9
7/02/2017	0.0	0.1	0.3	07:00	0.2	07:00	0	96.5
8/02/2017	0.1	0.0	0.1	10:00	0.1	11:00	0	96.9
¹ 9/02/2017	-	0.1	0.2	07:00	0.1	10:00	0	69.8
10/02/2017	0.1	0.1	0.2	02:00	0.1	02:00	0	96.9
11/02/2017	0.2	0.1	0.1	06:00	0.1	19:00	0	93.8
12/02/2017	0.2	0.1	0.1	22:00	0.1	00:00	0	96.5
13/02/2017	0.2	0.1	0.2	19:00	0.2	15:00	0	96.9
14/02/2017	0.2	0.0	0.1	06:00	0.1	00:00	0	96.2
15/02/2017	0.1	0.0	0.2	06:00	0.1	12:00	0	96.5
¹ 16/02/2017	-	0.0	0.2	07:00	0.1	09:00	0	59.0
¹ 17/02/2017	-	0.1	0.1	06:00	0.1	11:00	0	33.7
18/02/2017	0.2	0.0	0.1	00:00	0.1	00:00	0	85.4
19/02/2017	0.2	0.1	0.2	19:00	0.2	23:00	0	86.1
20/02/2017	0.1	0.0	0.2	07:00	0.2	00:00	0	95.5
21/02/2017	0.0	0.0	0.2	06:00	0.1	07:00	0	95.5
22/02/2017	0.1	0.0	0.1	07:00	0.1	08:00	0	96.2
23/02/2017	0.1	0.0	0.1	21:00	0.1	22:00	0	81.6
24/02/2017	0.1	0.0	0.1	07:00	0.1	00:00	0	96.5
25/02/2017	0.1	0.0	0.1	06:00	0.1	01:00	0	96.5
26/02/2017	0.2	0.0	0.1	10:00	0.1	23:00	0	96.5
27/02/2017	0.1	0.0	0.1	07:00	0.1	23:00	0	96.5
28/02/2017	0.1	0.0	0.1	22:00	0.1	23:00	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 logger changeover

Table 16 Station 3 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 3 Lewis St Ambient AQMS Particulate PM2.5 Summary February 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		
1/02/2017	1.7	-0.9	8.8	01:00	0	91.7
¹ 2/02/2017	-	0.0	3.0	00:00	0	41.7
¹ 3/02/2017	-	-1.0	3.9	13:00	0	16.7
¹ 4/02/2017	-	-	-	-	0	0.0
¹ 5/02/2017	-	-	-	-	0	0.0
¹ 6/02/2017	-	5.5	14.6	22:00	0	41.7
7/02/2017	9.2	5.5	17.1	21:00	0	100.0
8/02/2017	9.6	5.0	21.4	12:00	0	100.0
9/02/2017	6.9	5.0	11.4	22:00	0	100.0
10/02/2017	8.0	5.0	16.0	07:00	0	100.0
11/02/2017	8.6	5.0	17.7	17:00	0	100.0
12/02/2017	12.0	6.0	19.7	22:00	0	100.0
13/02/2017	17.2	5.0	33.0	12:00	0	100.0
14/02/2017	10.0	5.1	16.3	03:00	0	100.0
² 15/02/2017	-	5.0	15.2	07:00	0	66.7
16/02/2017	6.3	2.0	11.0	18:00	0	87.5
17/02/2017	2.8	-1.0	5.8	06:00	0	83.3
18/02/2017	4.8	1.0	10.6	19:00	0	83.3
19/02/2017	6.2	-0.8	13.8	19:00	0	87.5
20/02/2017	2.7	0.0	5.0	20:00	0	87.5
21/02/2017	5.6	1.4	13.5	19:00	0	91.7
22/02/2017	7.2	2.3	11.9	04:00	0	91.7
23/02/2017	5.6	-0.7	9.6	22:00	0	91.7
24/02/2017	5.7	1.0	11.8	06:00	0	100.0
25/02/2017	3.6	-0.8	7.7	06:00	0	87.5
26/02/2017	4.2	-0.7	9.7	19:00	0	91.7
27/02/2017	1.7	-0.8	5.0	19:00	0	83.3
28/02/2017	1.6	-1.0	6.8	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 logger changeover

² Loss of data due to maintenance

Table 17 Station 3 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 3 Lewis St Ambient AQMS Particulate PM10 Summary February 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		
1/02/2017	18.2	11.1	35.9	09:00	0	100.0
¹ 2/02/2017	-	13.8	22.0	08:00	0	45.8
¹ 3/02/2017	-	12.2	17.8	03:00	0	20.8
¹ 4/02/2017	-	11.0	16.0	19:00	0	12.5
¹ 5/02/2017	-	-	-	-	0	0.0
¹ 6/02/2017	-	14.7	22.9	18:00	0	45.8
7/02/2017	19.8	13.2	27.4	14:00	0	100.0
8/02/2017	21.8	13.3	39.3	11:00	0	100.0
9/02/2017	13.2	5.8	24.5	00:00	0	100.0
10/02/2017	16.8	2.5	30.4	16:00	0	100.0
11/02/2017	18.9	9.7	32.2	15:00	0	100.0
12/02/2017	25.1	14.1	37.2	14:00	0	100.0
13/02/2017	39.3	12.8	187.2	11:00	0	95.8
14/02/2017	23.0	13.8	29.7	16:00	0	100.0
² 15/02/2017	-	12.9	23.4	07:00	0	66.7
16/02/2017	16.9	12.6	25.8	11:00	0	87.5
17/02/2017	14.5	9.8	21.1	16:00	0	100.0
18/02/2017	14.6	5.7	24.6	15:00	0	100.0
19/02/2017	11.8	4.1	29.5	16:00	0	91.7
20/02/2017	14.2	3.0	35.5	18:00	0	91.7
21/02/2017	18.8	7.6	39.6	14:00	0	100.0
22/02/2017	22.7	16.9	33.8	15:00	0	100.0
23/02/2017	20.5	13.1	30.8	17:00	0	100.0
24/02/2017	19.6	13.3	27.3	18:00	0	100.0
25/02/2017	15.3	8.8	26.1	14:00	0	100.0
26/02/2017	15.7	8.0	26.8	15:00	0	100.0
27/02/2017	11.0	2.3	20.7	07:00	0	100.0
28/02/2017	11.7	3.6	29.4	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 logger changeover

² Loss of data due to maintenance

Table 18 Station 3 PM₁₀ Monthly Summary

Station 4 (Airportlink Operation Centre)

Summary

Station 4 Airportlink Operation Centre Ambient AQMS Summary February 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.022	16/02/2017 08:00	96.5
NO ₂	ppm	0.030	12 Months	0.008	--	96.6
CO	ppm	8	8 Hours	0.3	13/02/2017 12:00	96.1
PM _{2.5}	µg/m3	25	24 Hours	15.3	13/02/2017	99.1
PM _{2.5}	µg/m3	8	12 Months	8.4	--	98.0
PM ₁₀	µg/m3	50	24 Hours	29.1	13/02/2017	99.3
PM ₁₀	µg/m3	50	12 Months	15.5	--	87.1

Table 19 Station 4 Monthly Summary

Graphical Representations

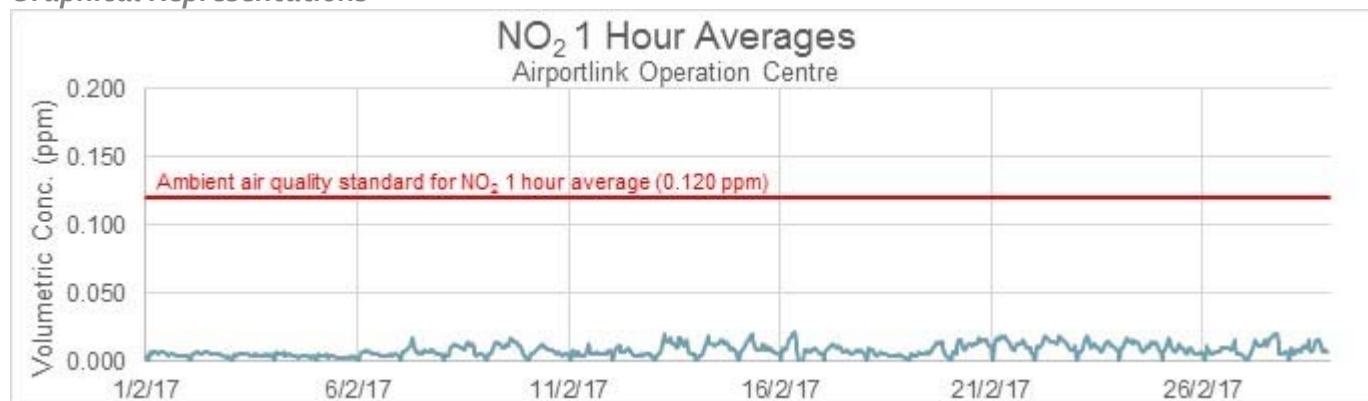


Figure 13 Station 4 Nitrogen Dioxide 1hr averages



Figure 14 Station 4 Carbon Monoxide 8hr rolling averages

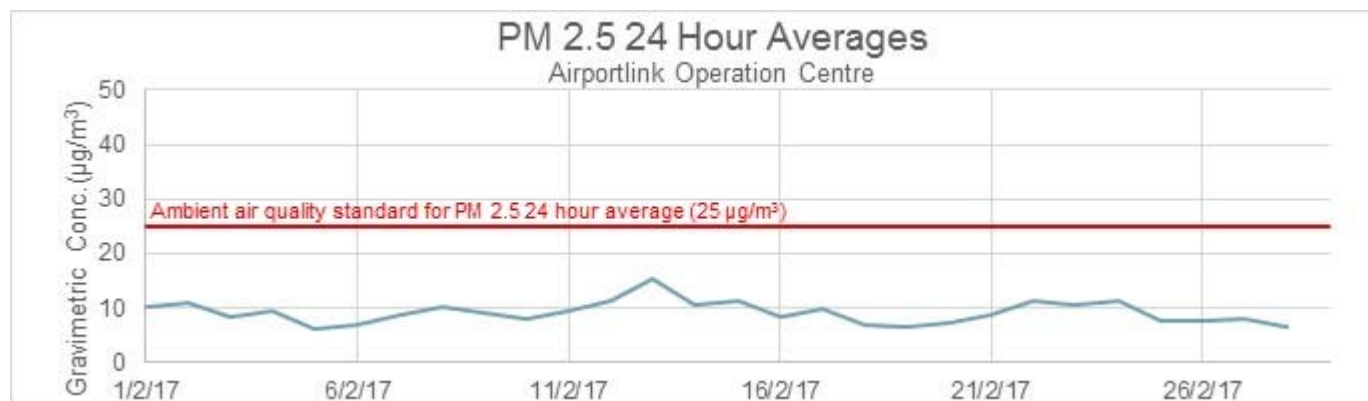


Figure 15 Station 4 PM2.5 24hr averages



Figure 16 Station 4 PM10 24hr averages

Nitrogen Dioxide Summary

Station 4 Airportlink Operation Centre Ambient AQMS Nitrogen Dioxide Summary February 2017

Date	24hr Avg (ppm)	1 hr Avgs			Number of Exceedences 1hr Avg > 0.120 ppm	Capture Rate
		Min (ppm)	Max (ppm)	Time of Max		
1/02/2017	0.003	0.004	0.008	02:00	0	97.2
2/02/2017	0.006	0.003	0.008	09:00	0	97.2
3/02/2017	0.007	0.003	0.006	06:00	0	97.2
4/02/2017	0.009	0.003	0.007	06:00	0	97.2
5/02/2017	0.008	0.002	0.006	02:00	0	97.2
6/02/2017	0.006	0.003	0.009	05:00	0	97.2
7/02/2017	0.007	0.005	0.017	07:00	0	97.2
8/02/2017	0.008	0.005	0.015	15:00	0	97.2
9/02/2017	0.005	0.004	0.017	15:00	0	97.2
10/02/2017	0.007	0.003	0.013	09:00	0	76.7
11/02/2017	0.008	0.004	0.013	11:00	0	94.8
12/02/2017	0.006	0.004	0.011	05:00	0	97.2
13/02/2017	0.004	0.004	0.020	06:00	0	97.2
14/02/2017	0.006	0.004	0.019	07:00	0	97.2
15/02/2017	0.008	0.006	0.020	08:00	0	97.2
16/02/2017	0.008	0.005	0.022	08:00	0	97.2
17/02/2017	0.007	0.005	0.012	06:00	0	97.2
18/02/2017	0.014	0.003	0.010	03:00	0	97.2
19/02/2017	0.008	0.003	0.015	20:00	0	97.2
20/02/2017	0.009	0.003	0.017	17:00	0	97.2
21/02/2017	0.007	0.007	0.019	06:00	0	97.2
22/02/2017	0.012	0.005	0.019	06:00	0	97.2
23/02/2017	0.009	0.007	0.019	06:00	0	97.2
24/02/2017	0.009	0.008	0.017	05:00	0	97.2
25/02/2017	0.005	0.005	0.018	05:00	0	97.2
26/02/2017	0.011	0.004	0.016	18:00	0	97.2
27/02/2017	0.007	0.003	0.020	18:00	0	97.2
28/02/2017	0.007	0.005	0.017	17:00	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 February 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		
1/02/2017	0.1	0.1	0.3	00:00	0.2	06:00	0	96.9
2/02/2017	0.1	0.1	0.2	11:00	0.2	15:00	0	96.9
3/02/2017	0.1	0.1	0.2	19:00	0.2	00:00	0	96.9
4/02/2017	0.2	0.1	0.2	16:00	0.1	23:00	0	96.9
5/02/2017	0.2	0.1	0.2	06:00	0.1	08:00	0	96.9
6/02/2017	0.2	0.1	0.2	07:00	0.1	08:00	0	96.9
7/02/2017	0.1	0.1	0.3	07:00	0.2	20:00	0	96.9
8/02/2017	0.1	0.1	0.3	15:00	0.2	18:00	0	96.9
9/02/2017	0.1	0.1	0.3	18:00	0.3	21:00	0	96.9
10/02/2017	0.1	0.0	0.1	02:00	0.2	00:00	0	76.4
11/02/2017	0.2	0.1	0.2	12:00	0.1	18:00	0	94.4
12/02/2017	0.2	0.1	0.2	11:00	0.2	11:00	0	96.9
13/02/2017	0.2	0.1	0.4	15:00	0.3	12:00	0	96.9
14/02/2017	0.3	0.1	0.3	17:00	0.3	19:00	0	96.9
15/02/2017	0.2	0.1	0.2	08:00	0.2	00:00	0	96.9
16/02/2017	0.2	0.1	0.3	08:00	0.2	11:00	0	96.9
17/02/2017	0.1	0.1	0.2	20:00	0.2	12:00	0	96.9
18/02/2017	0.3	0.1	0.1	10:00	0.2	01:00	0	96.9
19/02/2017	0.2	0.1	0.3	20:00	0.2	21:00	0	96.9
20/02/2017	0.3	0.1	0.3	19:00	0.3	22:00	0	96.9
21/02/2017	0.2	0.1	0.3	08:00	0.3	00:00	0	96.9
22/02/2017	0.1	0.1	0.3	17:00	0.2	20:00	0	96.9
23/02/2017	0.1	0.0	0.2	18:00	0.2	00:00	0	96.9
24/02/2017	0.1	0.0	0.2	21:00	0.2	22:00	0	96.9
25/02/2017	0.1	0.1	0.2	11:00	0.2	00:00	0	96.9
26/02/2017	0.2	0.0	0.2	18:00	0.1	19:00	0	96.9
27/02/2017	0.2	0.1	0.3	17:00	0.2	19:00	0	96.9
28/02/2017	0.1	0.0	0.2	17:00	0.1	00:00	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 February 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		
1/02/2017	10.3	4.2	19.2	00:00	0	100.0
2/02/2017	10.8	4.5	27.3	11:00	0	100.0
3/02/2017	8.3	4.2	11.0	05:00	0	100.0
4/02/2017	9.7	2.3	30.8	17:00	0	100.0
5/02/2017	6.3	0.0	15.5	04:00	0	95.8
6/02/2017	6.8	-0.8	18.1	20:00	0	100.0
7/02/2017	8.8	4.2	17.5	09:00	0	100.0
8/02/2017	10.3	6.0	18.8	11:00	0	100.0
9/02/2017	9.2	3.4	25.2	10:00	0	100.0
10/02/2017	8.2	1.4	20.8	16:00	0	100.0
11/02/2017	9.6	2.5	33.5	21:00	0	100.0
12/02/2017	11.5	3.5	18.8	21:00	0	100.0
13/02/2017	15.3	2.4	29.4	11:00	0	100.0
14/02/2017	10.5	3.3	16.9	03:00	0	100.0
15/02/2017	11.5	6.3	27.8	07:00	0	100.0
16/02/2017	8.5	3.4	16.5	09:00	0	87.5
17/02/2017	9.7	3.5	19.0	00:00	0	95.8
18/02/2017	6.8	1.4	14.9	06:00	0	100.0
19/02/2017	6.7	2.1	15.3	14:00	0	100.0
20/02/2017	7.2	4.0	11.5	13:00	0	100.0
21/02/2017	8.7	2.2	18.5	09:00	0	100.0
22/02/2017	11.4	6.0	23.9	11:00	0	100.0
23/02/2017	10.7	7.1	17.8	09:00	0	100.0
24/02/2017	11.5	6.3	21.4	07:00	0	100.0
25/02/2017	7.8	0.3	20.0	08:00	0	100.0
26/02/2017	7.7	0.5	12.6	22:00	0	95.8
27/02/2017	8.1	-0.4	16.1	01:00	0	100.0
28/02/2017	6.6	1.3	16.5	09:00	0	100.0

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

Table 22 Station 4 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 4 Airportlink Operation Centre Ambient AQMS Particulate PM10 Summary February 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		
1/02/2017	15.0	10.4	27.9	21:00	0	100.0
2/02/2017	18.0	11.4	32.6	10:00	0	100.0
3/02/2017	12.8	9.0	17.3	04:00	0	100.0
4/02/2017	13.7	9.0	33.7	16:00	0	100.0
5/02/2017	11.0	8.3	13.5	07:00	0	100.0
6/02/2017	16.3	9.9	24.0	08:00	0	100.0
7/02/2017	18.5	15.0	24.6	18:00	0	100.0
8/02/2017	18.5	9.3	29.7	10:00	0	100.0
9/02/2017	12.5	5.7	19.3	18:00	0	100.0
10/02/2017	14.9	3.1	25.5	14:00	0	100.0
11/02/2017	17.2	9.3	29.9	12:00	0	100.0
12/02/2017	22.3	15.7	31.5	14:00	0	100.0
13/02/2017	29.1	12.3	45.5	11:00	0	95.8
14/02/2017	22.9	14.6	27.7	16:00	0	100.0
15/02/2017	17.6	13.8	24.0	08:00	0	100.0
16/02/2017	15.8	11.7	22.5	08:00	0	87.5
17/02/2017	13.5	9.9	18.2	14:00	0	100.0
18/02/2017	13.7	6.8	20.7	15:00	0	100.0
19/02/2017	10.4	3.8	27.1	15:00	0	95.8
20/02/2017	13.2	4.0	30.1	18:00	0	100.0
21/02/2017	18.3	10.9	30.6	15:00	0	100.0
22/02/2017	21.6	16.7	28.3	17:00	0	100.0
23/02/2017	19.4	15.0	25.7	17:00	0	100.0
24/02/2017	19.1	13.6	25.7	18:00	0	100.0
25/02/2017	15.0	9.6	23.4	18:00	0	100.0
26/02/2017	14.8	9.1	25.0	19:00	0	100.0
27/02/2017	11.2	4.3	18.1	07:00	0	100.0
28/02/2017	11.0	4.9	23.8	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

Table 23 Station 4 PM₁₀ Monthly Summary

Station 5 (Cartwright Street)

Summary

Station 5 Cartwright St Ambient AQMS Summary February 2017						
Parameter	Unit	EPP Goal	Averaging Period	Maximum Value	Date & Time	Capture Rate
NO ₂	ppm	0.120	1 Hour	0.024	22/02/2017 06:00	96.2
NO ₂	ppm	0.030	12 Months	0.005	--	96.6
CO	ppm	8	8 Hours	0.3	07/02/2017 08:00	95.7
PM _{2.5}	µg/m3	25	24 Hours	10.9	13/02/2017	84.5
PM _{2.5}	µg/m3	8	12 Months	4.6	--	90.3
PM ₁₀	µg/m3	50	24 Hours	26.4	13/02/2017	96.4
PM ₁₀	µg/m3	50	12 Months	12.7	--	97.9

Table 24 Station 5 Monthly Summary

Graphical Representations

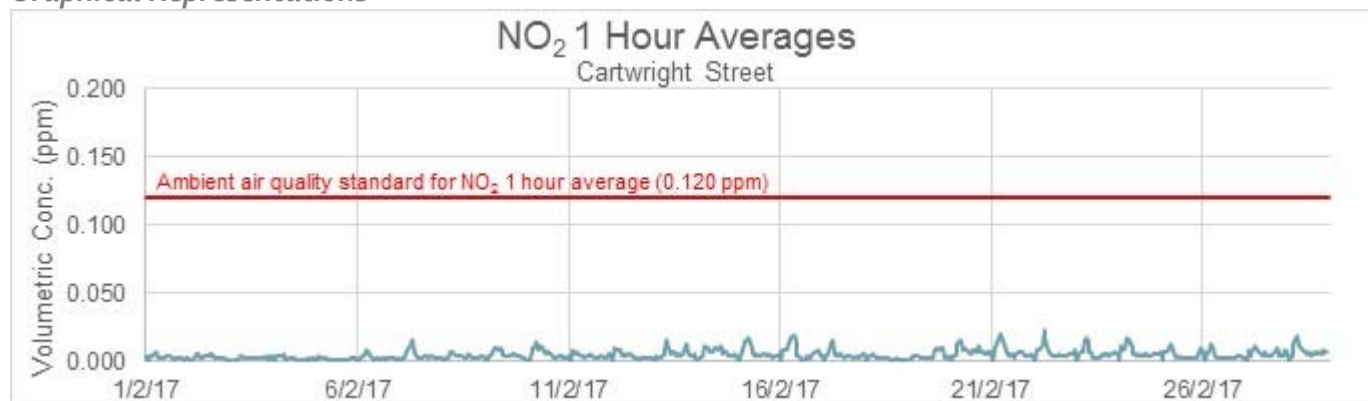


Figure 17 Station 5 Dioxide 1hr averages



Figure 18 Station 5 Carbon Monoxide 8hr rolling averages

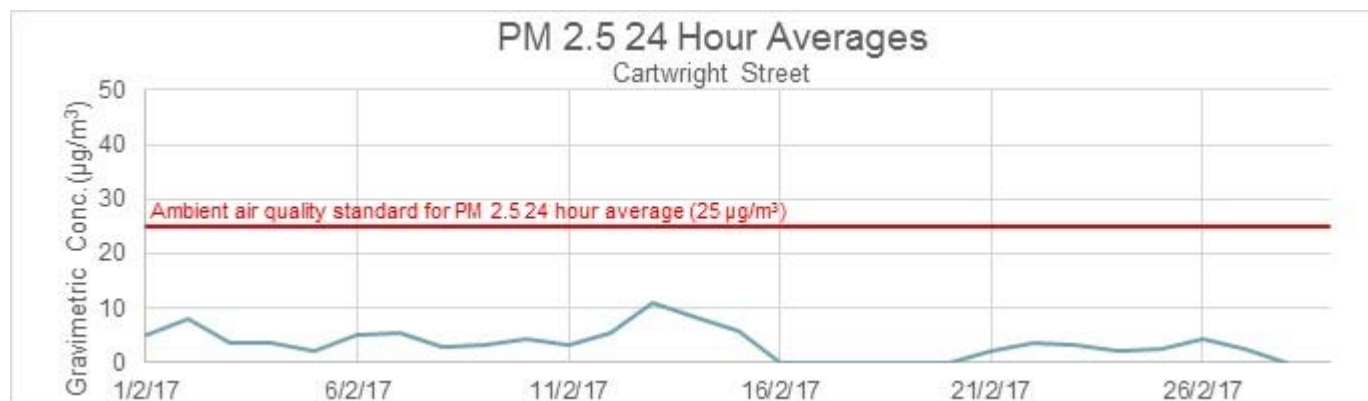


Figure 19 Station 5 PM2.5 24hr averages

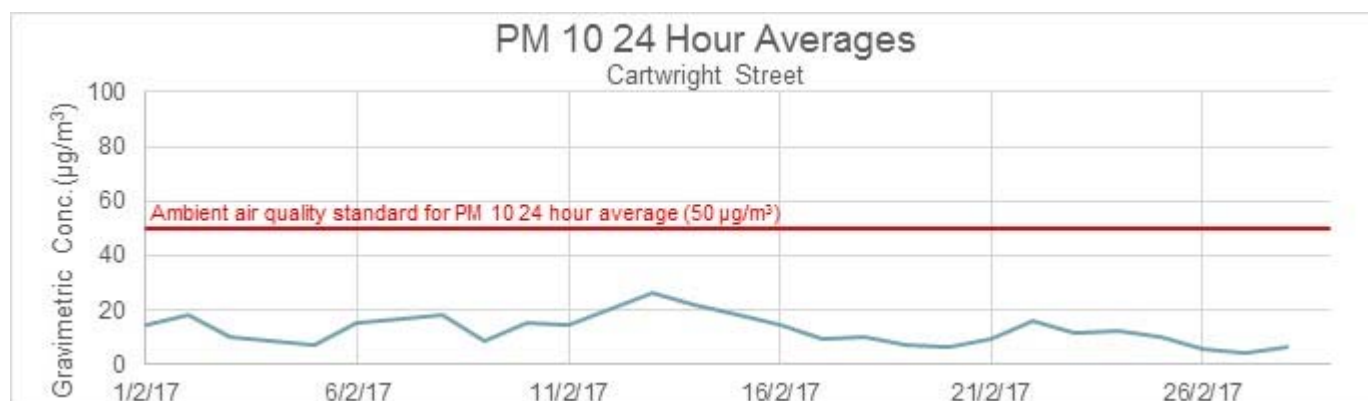


Figure 20 Station 5 PM10 24hr averages

Nitrogen Dioxide Summary

Station 5 Cartwright St Ambient AQMS Nitrogen Dioxide Summary February 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		
1/02/2017	0.001	0.002	0.007	06:00	0	97.2
2/02/2017	0.006	0.002	0.006	05:00	0	97.2
3/02/2017	0.003	0.001	0.005	06:00	0	97.2
4/02/2017	0.006	0.000	0.006	06:00	0	97.2
5/02/2017	0.005	0.001	0.003	02:00	0	97.2
6/02/2017	0.003	0.002	0.008	05:00	0	97.2
7/02/2017	0.004	0.002	0.016	07:00	0	97.2
8/02/2017	0.006	0.001	0.007	05:00	0	97.2
¹ 9/02/2017	-	0.003	0.010	07:00	0	69.8
10/02/2017	0.003	0.002	0.014	06:00	0	97.2
11/02/2017	0.006	0.002	0.009	02:00	0	97.2
12/02/2017	0.003	0.001	0.010	02:00	0	94.4
13/02/2017	0.002	0.002	0.015	08:00	0	97.2
14/02/2017	0.004	0.002	0.011	14:00	0	97.2
15/02/2017	0.005	0.003	0.017	06:00	0	97.2
16/02/2017	0.005	0.003	0.019	07:00	0	97.2
17/02/2017	0.004	0.002	0.015	06:00	0	97.2
18/02/2017	0.006	0.001	0.005	05:00	0	97.2
19/02/2017	0.005	0.002	0.011	21:00	0	97.2
20/02/2017	0.006	0.003	0.015	07:00	0	97.2
21/02/2017	0.003	0.003	0.021	05:00	0	97.2
22/02/2017	0.008	0.004	0.024	06:00	0	97.2
23/02/2017	0.007	0.003	0.018	06:00	0	97.2
24/02/2017	0.005	0.004	0.017	05:00	0	97.2
25/02/2017	0.002	0.002	0.013	06:00	0	97.2
26/02/2017	0.007	0.002	0.013	05:00	0	97.2
27/02/2017	0.004	0.003	0.012	06:00	0	97.2
28/02/2017	0.003	0.004	0.020	06:00	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 instrument failure

Table 25 Station 5 Nitrogen Dioxide Monthly Summary

Carbon Monoxide Summary

Station 5 Cartwright St Ambient AQMS Carbon Monoxide Summary February 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		
1/02/2017	0.2	0.2	0.4	00:00	0.2	06:00	0	96.5
2/02/2017	0.2	0.2	0.3	11:00	0.2	13:00	0	96.5
3/02/2017	0.1	0.2	0.2	07:00	0.2	08:00	0	96.5
4/02/2017	0.2	0.2	0.2	22:00	0.2	23:00	0	96.5
5/02/2017	0.2	0.1	0.2	06:00	0.2	00:00	0	96.5
6/02/2017	0.1	0.2	0.3	06:00	0.2	08:00	0	97.2
7/02/2017	0.2	0.2	0.4	07:00	0.3	08:00	0	96.5
8/02/2017	0.2	0.1	0.2	00:00	0.2	00:00	0	96.5
¹ 9/02/2017	-	0.2	0.3	07:00	0.3	11:00	0	69.1
10/02/2017	0.2	0.1	0.3	05:00	0.2	10:00	0	96.5
11/02/2017	0.2	0.2	0.2	23:00	0.2	23:00	0	96.5
12/02/2017	0.2	0.2	0.3	22:00	0.3	23:00	0	93.8
13/02/2017	0.3	0.1	0.3	19:00	0.3	23:00	0	96.5
14/02/2017	0.3	0.1	0.2	06:00	0.3	00:00	0	96.5
15/02/2017	0.2	0.1	0.2	06:00	0.2	08:00	0	96.5
16/02/2017	0.3	0.1	0.3	07:00	0.2	13:00	0	96.9
17/02/2017	0.2	0.1	0.3	06:00	0.2	12:00	0	96.9
18/02/2017	0.2	0.1	0.2	22:00	0.2	00:00	0	96.5
19/02/2017	0.3	0.1	0.3	21:00	0.2	23:00	0	96.9
20/02/2017	0.3	0.1	0.3	07:00	0.2	12:00	0	96.5
21/02/2017	0.2	0.1	0.3	07:00	0.3	08:00	0	96.9
22/02/2017	0.1	0.1	0.3	06:00	0.2	10:00	0	96.5
23/02/2017	0.2	0.1	0.2	06:00	0.1	00:00	0	96.9
24/02/2017	0.2	0.1	0.2	07:00	0.1	23:00	0	96.9
25/02/2017	0.2	0.1	0.2	07:00	0.1	07:00	0	96.5
26/02/2017	0.2	0.1	0.1	22:00	0.1	23:00	0	96.5
27/02/2017	0.2	0.1	0.2	06:00	0.1	12:00	0	96.9
28/02/2017	0.2	0.1	0.2	06:00	0.2	13:00	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 instrument failure

Table 26 Station 5 Carbon Monoxide Monthly Summary

PM_{2.5} Summary

Station 5 Cartwright St Ambient AQMS Particulate PM2.5 Summary February 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		
1/02/2017	4.9	0.1	11.5	20:00	0	100.0
2/02/2017	8.1	0.0	43.4	02:00	0	95.8
3/02/2017	3.6	1.0	8.7	19:00	0	91.7
4/02/2017	3.8	1.0	8.0	18:00	0	91.7
5/02/2017	2.3	-0.8	5.8	18:00	0	95.8
6/02/2017	4.9	-0.8	24.5	07:00	0	100.0
7/02/2017	5.3	-0.8	9.8	06:00	0	100.0
8/02/2017	2.9	-1.0	13.9	00:00	0	100.0
9/02/2017	3.3	-0.7	7.0	19:00	0	100.0
10/02/2017	4.3	-0.4	14.3	14:00	0	95.8
11/02/2017	3.3	-1.0	7.8	16:00	0	91.7
12/02/2017	5.4	-0.6	12.0	12:00	0	83.3
13/02/2017	10.9	1.3	22.5	10:00	0	100.0
14/02/2017	8.3	2.5	15.5	06:00	0	100.0
15/02/2017	5.9	-1.0	13.8	09:00	0	95.8
¹ 16/02/2017	-	-0.8	8.0	09:00	0	70.8
¹ 17/02/2017	-	-1.0	2.0	17:00	0	37.5
¹ 18/02/2017	-	0.0	3.0	18:00	0	25.0
¹ 19/02/2017	-	-1.0	6.8	20:00	0	50.0
¹ 20/02/2017	-	-1.0	9.9	19:00	0	62.5
21/02/2017	2.2	-1.0	4.9	07:00	0	75.0
22/02/2017	3.7	-1.0	10.8	19:00	0	95.8
23/02/2017	3.3	-1.0	6.9	08:00	0	87.5
24/02/2017	2.1	-1.0	6.8	18:00	0	95.8
25/02/2017	2.4	-1.0	9.6	19:00	0	87.5
26/02/2017	4.3	0.0	9.6	19:00	0	87.5
27/02/2017	2.7	-0.8	12.8	23:00	0	79.2
¹ 28/02/2017	-	-0.9	20.3	02:00	0	70.8

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

¹ Loss of data due to instrument fault

Table 27 Station 5 PM_{2.5} Monthly Summary

PM₁₀ Summary

Station 5 Cartwright St Ambient AQMS Particulate PM10 Summary February 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		
1/02/2017	14.4	7.3	26.4	01:00	0	100.0
2/02/2017	18.4	5.2	58.1	12:00	0	100.0
3/02/2017	10.1	0.6	22.3	00:00	0	100.0
4/02/2017	9.0	4.3	17.9	19:00	0	100.0
5/02/2017	7.1	1.0	16.4	03:00	0	100.0
6/02/2017	15.2	6.9	33.9	10:00	0	100.0
7/02/2017	16.9	5.5	30.4	08:00	0	100.0
8/02/2017	18.0	10.0	32.8	09:00	0	100.0
9/02/2017	8.8	-0.3	18.0	09:00	0	95.8
10/02/2017	15.6	-0.8	35.4	16:00	0	91.7
11/02/2017	14.6	5.3	26.0	18:00	0	100.0
12/02/2017	20.3	13.5	32.4	18:00	0	100.0
13/02/2017	26.4	8.3	54.3	12:00	0	100.0
14/02/2017	22.1	13.4	32.5	10:00	0	100.0
15/02/2017	18.6	10.5	36.9	13:00	0	100.0
16/02/2017	14.7	6.2	35.6	16:00	0	87.5
17/02/2017	9.6	2.4	18.5	15:00	0	100.0
18/02/2017	10.5	3.3	20.6	16:00	0	100.0
19/02/2017	7.0	1.0	11.9	18:00	0	75.0
20/02/2017	6.3	-1.0	19.9	18:00	0	91.7
21/02/2017	9.2	-0.6	17.6	17:00	0	100.0
22/02/2017	16.1	8.0	31.0	18:00	0	100.0
23/02/2017	11.9	0.2	23.1	19:00	0	100.0
24/02/2017	12.6	3.4	22.5	17:00	0	100.0
25/02/2017	10.0	0.7	18.8	20:00	0	95.8
26/02/2017	5.5	-1.0	14.9	20:00	0	95.8
27/02/2017	4.0	-0.6	9.0	19:00	0	95.8
28/02/2017	6.4	-0.8	46.5	13:00	0	70.8

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

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 February 2017					
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 ($\mu\text{g}/\text{m}^3$)
06/02/2017	26	24	21	22	26
12/02/2017	39	37	39	42	36
18/02/2017	21	23	20	22	23
24/02/2017	27	34	27	35	27
Monthly Average	28.3	29.5	26.8	30.3	28.0
Annual Average	26.5	27.2	24.5	27.8	27.5

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
1/02/2017 00:10:00	28/02/2017 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	7/03/2017	CP
2/02/2017 03:55:00	28/02/2017 23:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	7/03/2017	CP
16/02/2017 16:20:00	16/02/2017 17:50:00	All parameters	Maintenance	7/03/2017	CP
17/02/2017 09:40:00	17/02/2017 10:50:00	All parameters	Maintenance	7/03/2017	CP
20/02/2017 13:55:00	24/02/2017 10:50:00	PM _{2.5}	Instrument fault	7/03/2017	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
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	7/03/2017	CP
4/02/2017 06:40:00	4/02/2017 07:10:00	All parameters	Power Interruption	7/03/2017	CP
4/02/2017 07:15:00	4/02/2017 08:00:00	CO, NO, NO ₂ , NO _x	Instrument warm-up after power interruption	7/03/2017	CP
6/02/2017 10:15:00	6/02/2017 10:25:00	All parameters	Maintenance	7/03/2017	CP
15/02/2017 15:35:00	15/02/2017 16:30:00	All parameters	Maintenance	7/03/2017	CP
15/02/2017 16:35:00	17/02/2017 08:40:00	PM _{2.5} , PM ₁₀	Maintenance – zero noise check	7/03/2017	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
1/02/2017	20/02/2017 06:50:00	NO, NO ₂ , NO _x	Instrument fault	7/03/2017	CP
1/02/2017	27/02/2017 23:50:00	PM ₁₀ , PM _{2.5}	Intermittent unrealistic data less than -1.0 µg/m ³	7/03/2017	CP
1/02/2017 09:30:00	28/02/2017 22:30:00	PM _{2.5}	Intermittent instrument faults – no samples	7/03/2017	CP
1/02/2017 11:20:00	23/02/2017 09:35:00	NO, NO ₂ , NO _x , CO, PM ₁₀	Intermittent communication errors	7/03/2017	CP
5/02/2017 10:00:00	6/02/2017 13:05:00	All parameters	Maintenance	7/03/2017	CP
15/02/2017 11:05:00	15/02/2017 19:10:00	All parameters	Maintenance	7/03/2017	CP
16/02/2017 08:20:00	16/02/2017 10:50:00	All parameters	Maintenance	7/03/2017	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
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	7/03/2017	CP
1/02/2017 01:05:00	28/02/2017 23:05:00	PM _{2.5}	Intermittent instrument faults – error code logged	7/03/2017	CP
1/02/2017 20:25:00	26/02/2017 12:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	7/03/2017	CP
16/02/2017 10:55:00	16/02/2017 13:50:00	All parameters	Maintenance	7/03/2017	CP
17/02/2017 11:15:00	17/02/2017 11:20:00	NO, NO ₂ , NO _x , CO	Maintenance	7/03/2017	CP
28/02/2017 01:40:00	28/02/2017 02:15:00	CO	Instrument fault	7/03/2017	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
1/02/2017 00:15:00	28/02/2017 23:05:00	PM ₁₀	Intermittent instrument faults – error code logged	7/03/2017	CP
2/02/2017 00:55:00	28/02/2017 22:50:00	PM _{2.5} , PM ₁₀	Intermittent unrealistic data less than -1.0 µg/m ³	7/03/2017	CP
16/02/2017 13:15:00	16/02/2017 14:35:00	All parameters	Maintenance	7/03/2017	CP
16/02/2017 14:40:00	16/02/2017 15:50:00	PM _{2.5} , PM ₁₀	Instrument stabilization after maintenance	7/03/2017	CP

Table 34 Station 5 Cartwright St AQMS Data Validation Table